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KNOBS
HANDLES
HAND WHEELS

Pg. 6-150



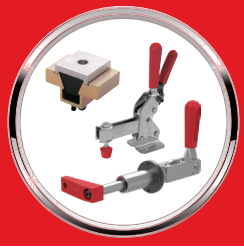
LEVELING FEET
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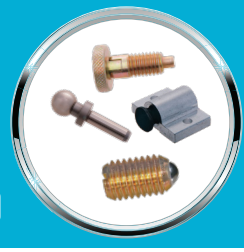
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& POSITIONING

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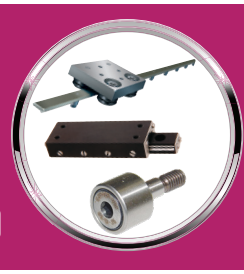
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CATCHES
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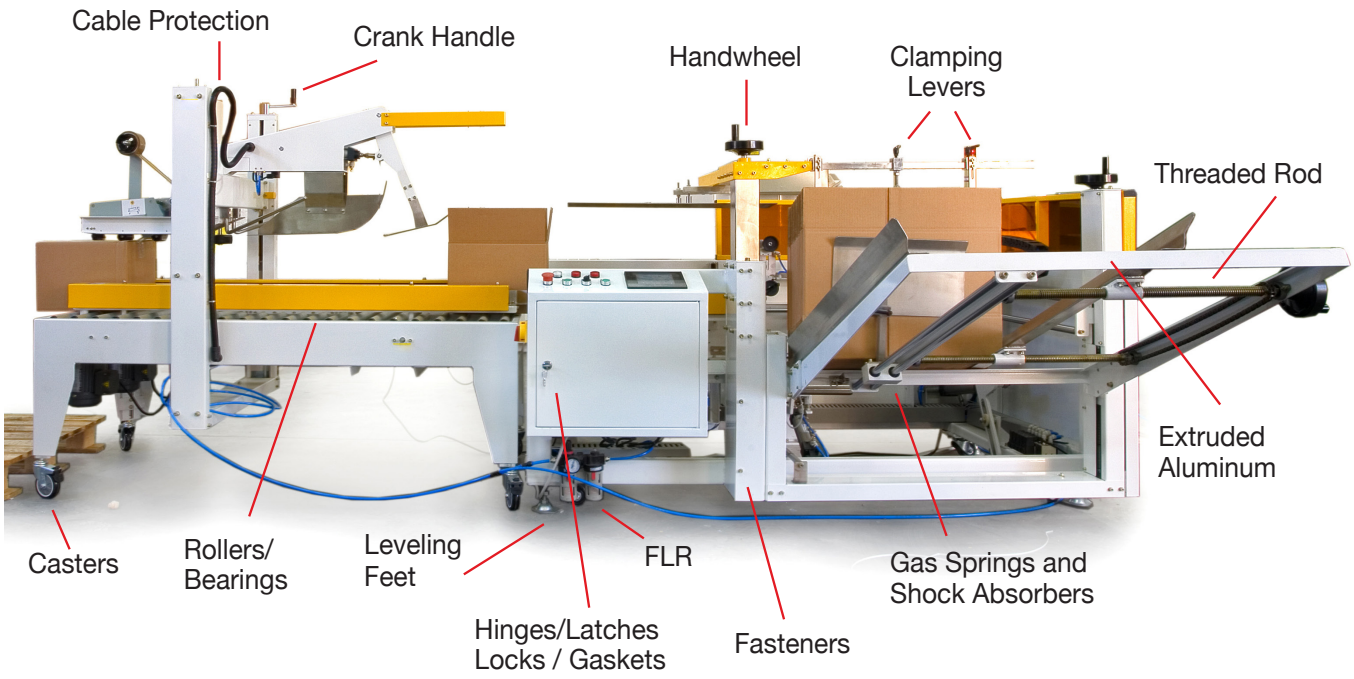
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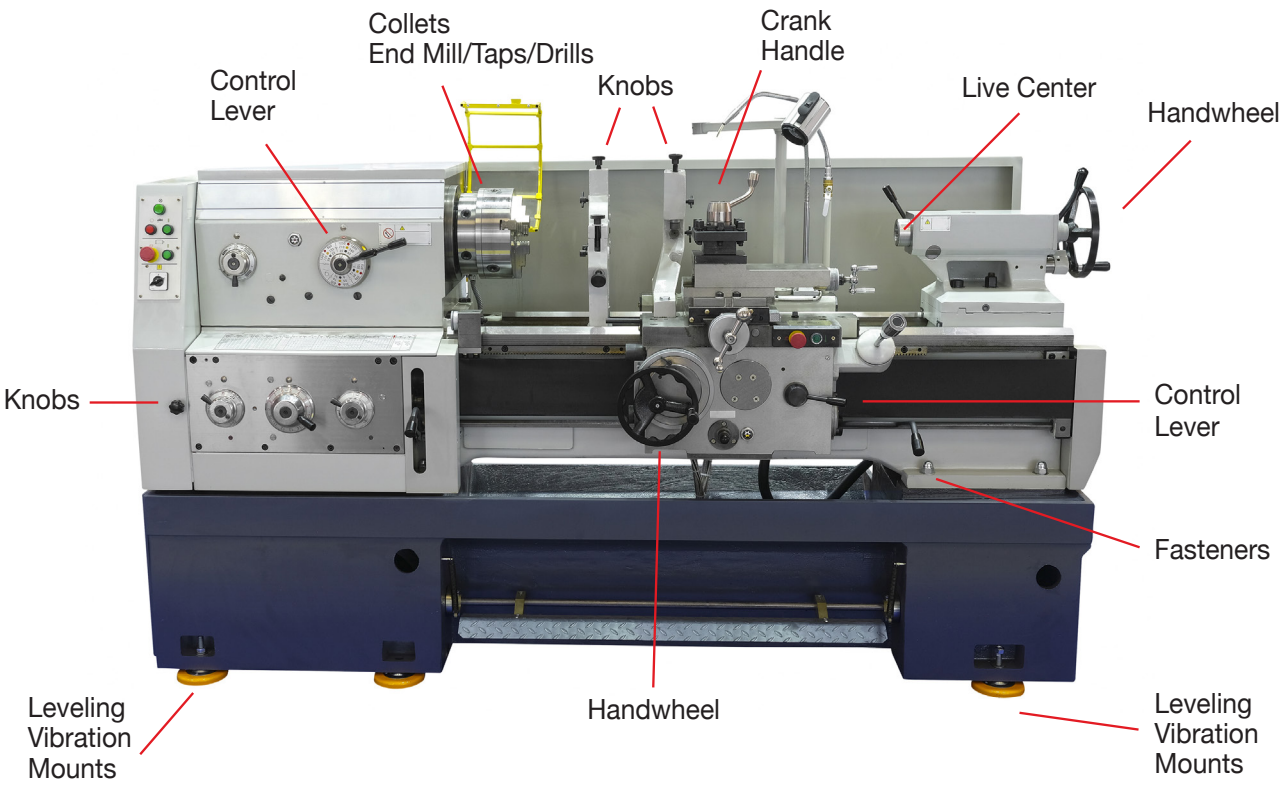
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Ball Control Knobs
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Position Indicators
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Grips
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BALL CONTROL KNOBS

Molded plastic ball knobs for machine tools, jigs, fixtures, etc. Plastic ball knobs give your product that dressed up appearance.

Black or Red Phenolic
Brass Insert, Tapped or Molded Thread
Inch and Metric



Black		Red				
Item No.	Insert	Item No.	Insert	Dia.	Thread	Thread Depth
Inch						
—	—	DM-65	Brass	43/64	1/4-20	3/8
B-62	Brass	—	—	3/4	8-32	5/16
B-1	Brass	—	—	3/4	10-32	5/16
B-22	Brass	—	—	3/4	1/4-20	3/8
B-60	Brass	—	—	3/4	6-32	5/16
B-64	Brass	—	—	3/4	10-24	5/16
B-2	Brass	—	—	1	10-32	5/16
B-3	Brass	DM-100	Brass	1	1/4-20	7/16
B-21	Brass	—	Brass	1	1/4-28	7/16
B-4	Brass	DM-140	Brass	1	5/16-18	7/16
B-5	Brass	—	Brass	1	5/16-24	7/16
B-23	Brass	DM-70	Brass	1	3/8-16	1/2
B-36	Brass	DM-135	Brass	1	3/8-24	1/2
B-26	Brass	—	—	1 3/16	5/16-24	7/16
B-27	Brass	—	—	1 3/16	3/8-16	1/2
B-28	Brass	—	—	1 3/16	3/8-24	1/2
B-24	Brass	—	Brass	1 3/16	1/4-20	7/16
B-25	Brass	—	Brass	1 3/16	5/16-18	7/16
B-9	Brass	—	Brass	1 3/8	1/2-20	5/8
B-6	Brass	R-6	Brass	1 3/8	3/8-16	1/2
B-12	Brass	—	—	1 3/8	1/4-20	7/16
B-13	Brass	DM-20	Brass	1 3/8	5/16-18	7/16
B-7	Brass	—	Brass	1 3/8	7/16-20	1/2
B-8	Brass	DM-160	Molded	1 3/8	1/2-13	5/8
B-14	Brass	—	—	1 3/8	5/16-24	7/16
B-15	Brass	—	—	1 3/8	3/8-24	1/2
B-50	Tapped	—	—	1 1/2	1/4-20	1
B-52	Brass	—	—	1 1/2	5/16-18	5/8
B-54	Brass	—	—	1 1/2	3/8-16	5/8
B-56	Tapped	—	—	1 1/2	1/2-13	1 1/8
B-33	Brass	—	Brass	1 5/8	7/16-20	1/2
B-34	Brass	—	—	1 5/8	1/2-13	5/8
B-35	Brass	—	Brass	1 5/8	1/2-20	5/8
B-29	Brass	—	Brass	1 5/8	5/16-18	7/16
B-31	Brass	—	—	1 5/8	3/8-16	1/2
B-32	Brass	—	—	1 5/8	3/8-24	1/2
B-30	Brass	—	Brass	1 5/8	5/16-24	7/16
B-19	Brass	—	—	1 7/8	3/8-16	1/2
B-20	Brass	—	Brass	1 7/8	3/8-24	1/2
B-16	Tapped	—	Tapped	1 7/8	3/8-16	5/8
B-10	Brass	—	—	1 7/8	1/2-13	5/8
B-18	Brass	—	—	1 7/8	1/2-20	5/8
B-11	Tapped	—	—	1 7/8	5/8-18	7/8
B-17	Tapped	—	—	1 7/8	3/8-24	5/8
—	—	DM-10	Brass	1 15/16	1/2-13	5/8
Metric						
MBK-3	Brass	—	—	25	M8 x 1.25	11
MBK-4	Brass	—	—	25	M10 x 1.50	13
MBK-1	Brass	—	—	25	M5 x .8	10
MBK-2	Brass	—	—	25	M6 x 1.00	11
MBK-7	Brass	—	—	35	M10 x 1.50	15
MBK-8	Brass	—	—	35	M12 x 1.75	17
MBK-5	Brass	—	—	35	M6 x 1.00	11
MBK-6	Brass	—	—	35	M8 x 1.25	11
MBK-10	Brass	—	—	48	M12 x 1.75	17
MBK-11	Brass	—	—	48	M16 x 2.0	18
MBK-9	Brass	—	—	48	M10 x 1.50	15

KIPP
Black Thermoplastic
Molded Thread or Steel Insert
Metric



Molded Thread		Steel Insert			
Item No.	Thread Depth	Item No.	Thread Depth	Dia.	Thread
KPB-1209	7	—	—	16	M4 x .70
KPB-1210	7	—	—	16	M5 x .80
KPB-1211	9	KPB-1217	7.5	20	M5 x .80
KPB-1212	9	KPB-1218	7.5	20	M6 x 1.00
KPB-1213	11	KPB-1219	9	25	M6 x 1.00
KPB-1214	11	KPB-1220	9	25	M8 x 1.25
KPB-1215	14.5	KPB-1221	12	32	M8 x 1.25
KPB-1216	14.5	KPB-1222	12	32	M10 x 1.50

Reid Select
Black Thermoplastic
Molded Thread or Brass Insert
Metric



Item No.	Dia.	Insert	
		Thread	Depth
Molded Thread			
RST-1	16	M4	6
RST-2	20	M5	8
RST-3	25	M6	10
RST-4	30	M8	14
RST-5	35	M10	16
RST-6	40	M10	16
RST-7	45	M12	9
RST-8	50	M12	18
Brass Insert			
RST-9	16	M4	6
RST-10	20	M5	9
RST-11	25	M6	10
RST-12	30	M8	14
RST-13	35	M10	17
RST-14	40	M10	17

Reid Select
Black Thermoplastic
Soft Touch
Zinc Plated Steel Insert
Inch



These "soft touch" knobs offer unique styling, rugged construction along with a soft feel. They are molded with a soft thermoplastic rubber shell around a tough thermoplastic body. The soft feel of the knurling provides a sure grip and a rich, pleasant touch.

Item No.	Dia.	Insert	
		Thread	Depth
RK-210	1 3/8	1/4-20	1/2
RK-230	1 3/8	3/8-16	1/2
RK-240	1 3/8	1/2-13	1/2
RK-260	1 1/2	5/16-18	1/2
RK-270	1 1/2	3/8-16	1/2
RK-280	1 1/2	1/2-13	1/2

Reid Select
Black Plastic
With Knurl
Brass Insert
Inch

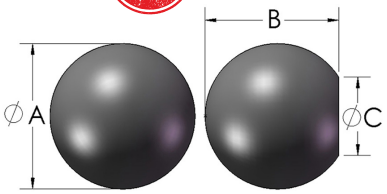


Item No.	Dia.	Insert	
		Thread	Depth
RST-23	.79	1/4-20	.39
RST-24	.98	10-24	.31
RST-25	.98	1/4-20	.39
RST-26	.98	5/16-18	.55
RST-27	1.38	5/16-18	.55
RST-28	1.38	3/8-16	.55
RST-29	1.38	1/2-13	.75
RST-30	1.77	1/2-13	.75

BALL CONTROL KNOBS

Reid Select
Black TPE (Overmold), Polypropylene (Base)
Ball Knob
Polypropylene
Inch

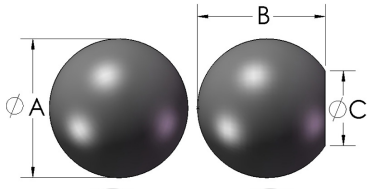




Item No.	A	B	C	Insert Tyoe	Thread Material	Thread Size
ICK-1635	1.000	.620	.880	Blind Hole	Polypropylene	10-24
ICK-1640	1.250	.620	1.150	Blind Hole (Stop Nut)	Polypropylene	10-24
ICK-1645	1.880	1.000	1.750	Blind Hole (Stop Nut)	Polypropylene	5/8-11
ICK-1650	1.000	.620	.880	Blind Hole (Stop Nut)	Polypropylene	1/4-20
ICK-1655	1.250	.620	1.150	Blind Hole	Polypropylene	1/4-20
ICK-1660	1.380	.750	1.280	Blind Hole	Polypropylene	1/4-20
ICK-1665	1.470	.750	1.400	Blind Hole	Polypropylene	1/4-20
ICK-1670	1.250	.620	1.150	Blind Hole	Polypropylene	5/16-18
ICK-1675	1.380	.750	1.280	Blind Hole	Polypropylene	5/16-18
ICK-1680	1.470	.750	1.400	Blind Hole	Polypropylene	5/16-18
ICK-1685	1.610	.750	1.520	Blind Hole	Polypropylene	5/16-18
ICK-1690	1.250	.620	1.150	Blind Hole	Polypropylene	3/8-16
ICK-1695	1.380	.750	1.280	Blind Hole	Polypropylene	3/8-16
ICK-1700	1.470	.750	1.400	Blind Hole	Polypropylene	3/8-16
ICK-1705	1.610	.750	1.520	Blind Hole	Polypropylene	3/8-16
ICK-1710	1.880	1.000	1.750	Blind Hole (Stop Nut)	Polypropylene	3/8-16
ICK-1715	1.000	.620	.880	Blind Hole	Polypropylene	8-32
ICK-1720	1.380	.750	1.280	Blind Hole	Polypropylene	1/2-13
ICK-1725	1.470	.750	1.400	Blind Hole (Stop Nut)	Polypropylene	1/2-13
ICK-1730	1.610	.750	1.520	Blind Hole (Stop Nut)	Polypropylene	1/2-13
ICK-1735	1.880	1.000	1.750	Blind Hole (Stop Nut)	Polypropylene	1/2-13

Reid Select
Black TPE (Overmold), Polypropylene (Base)
Ball Knob
Steel Insert
Inch or Metric

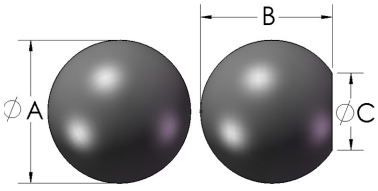




Item No.	A	B	C	Insert Tyoe	Thread Material	Thread Size
ICK-1740	1.500	1.380	.750	Blind Hole (Self Tapping)	Polypropylene	1/4, M6
ICK-1745	1.500	1.380	.750	Blind Hole (Self Tapping)	Polypropylene	5/16, M8
ICK-1750	1.630	1.500	.750	Blind Hole (Self Tapping)	Polypropylene	5/16, M8
ICK-1755	1.630	1.500	.750	Blind Hole (Self Tapping)	Polypropylene	3/8, M10
ICK-1760	1.880	1.750	1.000	Blind Hole (Self Tapping)	Polypropylene	3/8, M10
ICK-1765	1.880	1.750	1.000	Blind Hole (Self Tapping)	Polypropylene	1/2, M12
ICK-1770	1.380	1.280	.750	Blind Hole (Self Tapping)	Polypropylene	1/4, M6
ICK-1775	1.880	1.750	1.000	Blind Hole (Self Tapping)	Polypropylene	1/2, 5/8, M12

Reid Select
Red Polypropylene
Ball Knob
Steel Insert
Inch or Metric

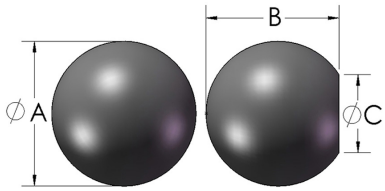




Item No.	A	B	C	Insert Tyoe	Thread Material	Thread Size
ICK-2375	1.610	1.500	.750	Blind Hole (Self Tapping)	Polypropylene	1/4, M6

Reid Select
Black Polypropylene
Ball Knob
Steel Insert
Inch or Metric





Item No.	A	B	C	Insert Tyoe	Thread Material	Thread Size
ICK-1405	.750	.700	.370	Blind Hole	Steel	10-32
ICK-1410	1.000	.880	.620	Blind Hole (Stop Nut)	Steel	10-24
ICK-1415	1.250	1.150	.620	Blind Hole (Stop Nut)	Steel	10-24
ICK-1420	1.610	1.520	.750	Blind Hole (Stop Nut)	Steel	5/8-11
ICK-1425	1.880	1.750	1.000	Blind Hole (Stop Nut)	Steel	5/8-11
ICK-1430	.750	.700	.370	Blind Hole (Stop Nut)	Steel	1/4-20
ICK-1435	1.000	.880	.620	Blind Hole (Stop Nut)	Steel	1/4-20
ICK-1440	1.250	1.150	.620	Blind Hole	Steel	1/4-20
ICK-1445	1.380	1.280	.750	Blind Hole	Steel	1/4-20
ICK-1450	1.470	1.400	.750	Blind Hole	Steel	1/4-20
ICK-1455	1.610	1.520	.750	Blind Hole	Steel	1/4-20
ICK-1460	1.880	1.750	1.000	Blind Hole	Steel	1/4-20
ICK-1465	1.000	.880	.620	Blind Hole (Stop Nut)	Steel	5/16-18
ICK-1470	1.250	1.150	.620	Blind Hole	Steel	5/16-18
ICK-1475	1.380	1.280	.750	Blind Hole	Steel	5/16-18
ICK-1480	1.470	1.400	.750	Blind Hole	Steel	5/16-18
ICK-1485	1.610	1.520	.750	Blind Hole	Steel	5/16-18
ICK-1490	1.880	1.750	1.000	Blind Hole	Steel	5/16-18
ICK-1495	1.000	.880	.620	Blind Hole (Stop Nut)	Steel	3/8-16
ICK-1500	1.250	1.150	.620	Blind Hole	Steel	3/8-16
ICK-1505	1.380	1.280	.750	Blind Hole	Steel	3/8-16
ICK-1510	1.470	1.400	.750	Blind Hole	Steel	3/8-16
ICK-1515	1.610	1.520	.750	Blind Hole (Stop Nut)	Steel	3/8-16
ICK-1520	1.880	1.750	1.000	Blind Hole	Steel	3/8-16
ICK-1525	.750	.700	.370	Blind Hole	Steel	8-32
ICK-1530	1.380	1.280	.750	Blind Hole (Stop Nut)	Steel	1/2-13
ICK-1535	1.470	1.400	.750	Blind Hole (Stop Nut)	Steel	1/2-13
ICK-1540	1.610	1.520	.750	Blind Hole (Stop Nut)	Steel	1/2-13
ICK-1545	1.880	1.750	1.000	Blind Hole (Stop Nut)	Steel	1/2-13
ICK-1550	1.250	1.150	.620	Blind Hole	Steel	M10x1.5
ICK-1555	1.380	1.280	.750	Blind Hole	Steel	M10x1.5
ICK-1560	1.470	1.400	.750	Blind Hole (Stop Nut)	Steel	M10x1.5
ICK-1565	1.610	1.520	.750	Blind Hole	Steel	M10x1.5
ICK-1570	1.880	1.750	1.000	Blind Hole	Steel	M10x1.5
ICK-1575	1.250	1.150	.620	Blind Hole	Steel	M6x1.0
ICK-1580	1.380	1.280	.750	Blind Hole	Steel	M6x1.0
ICK-1585	1.470	1.400	.750	Blind Hole	Steel	M6x1.0
ICK-1590	1.610	1.520	.750	Blind Hole	Steel	M6x1.0
ICK-1595	1.880	1.750	1.000	Blind Hole	Steel	M6x1.0
ICK-1600	1.250	1.150	.620	Blind Hole	Steel	M8x1.25
ICK-1605	1.380	1.280	.750	Blind Hole	Steel	M8x1.25
ICK-1610	1.470	1.400	.750	Blind Hole	Steel	M8x1.25
ICK-1615	1.610	1.520	.750	Blind Hole	Steel	M8x1.25
ICK-1620	1.880	1.750	1.000	Blind Hole	Steel	M8x1.25
ICK-1625	1.250	1.150	.620	Blind Hole (Stop Nut)	Steel	5/16-18
ICK-1630	1.470	1.400	.750	Blind Hole (Stop Nut)	Steel	3/8-16

Black Phenolic
Press On
Inch



Item No.	Dia.	Shaft Dia.	Bore Depth	Item No.	Dia.	Shaft Dia.	Bore Depth
POK-10	¾	3/16	7/16	POK-40	1½	⅜	¾
POK-15	¾	¼	7/16	POK-45	1½	½	¾
POK-20	1	¼	⅝	POK-50	1¾	½	¾
POK-25	1	5/16	9/16	POK-55	1¾	⅝	⅞
POK-30	1¼	¼	⅝	POK-60	2	½	¾
POK-35	1¼	⅜	¾	POK-65	2	⅝	⅞

MOST PRODUCTS SHIP SAME DAY

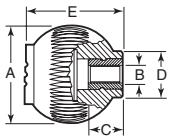
BALL CONTROL KNOBS

Molded plastic ball knobs for machine tools, jigs, fixtures, etc. Plastic ball knobs give your product that dressed up appearance.

KIPP
Black Thermoplastic
With Novo-Grip®
Steel and Stainless Steel Insert or Stud
Inch



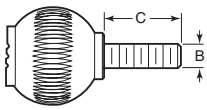
Insert



STAINLESS STEEL OPTION AVAILABLE



Stud

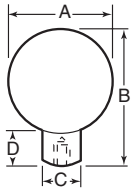


Ergonomic shape for easier gripping. Unique styling gives a very distinctive look and feel. Features belt fluting for non-slip gripping. Made from black thermoplastic with steel or stainless steel stud or inserts.

Steel Item No.	Stainless Item No.	A	B	C	D	E
w/ Insert						
GK-400	—	.98	¼-20	.39	.47	.98
GK-405	GK-430	1.26	5/16-18	.55	.61	1.30
GK-410	—	1.57	⅜-16	.55	.75	1.67
—	GK-440	1.97	⅜-16	.55	.94	2.00
—	GK-445	1.97	½-13	.71	.94	2.00
w/ Stud						
GK-450	—	.98	¼-20	.79	.47	.98
GK-455	GK-705	.98	¼-20	1.18	.47	.98
GK-465	—	1.26	5/16-18	1.57	.61	1.30
GK-470	—	1.57	⅜-16	.79	.75	1.67
GK-480	—	1.97	⅜-16	.79	.94	2.00
GK-490	—	1.97	½-13	1.18	.94	2.00
—	GK-735	1.97	½-13	1.57	.94	2.00

Black Phenolic
With Shank
Brass Insert, Tapped or Molded Thread
Inch



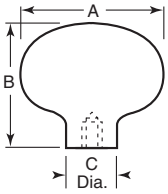


Item No.	A	B	C	D	Thread
DK-340	.665	7/8	⅜	¼	8-32 x ¼ Brass
DK-345	.665	7/8	⅜	¼	10-32 x ⅜ Brass
DK-350	1¼	1½	17/32	¼	¼-20 x ⅜ Brass
DK-355	1¼	1½	17/32	¼	5/16-18 x ½ Brass
DK-360	1¼	1½	17/32	¼	⅜-16 x ⅝ Tapped
DK-365	1½	1 13/16	⅝	5/16	5/16-18 x ½ Brass
DK-370	1½	1 13/16	⅝	5/16	⅜-16 x ½ Brass
DK-375	1½	1 13/16	⅝	5/16	¼-20 x ⅝ Tapped
DK-380	1 23/32	2⅛	25/32	½	⅜-16 x ½ Brass
DK-385	1 23/32	2⅛	25/32	½	½-13 x ⅞ Molded

Ask Us About Bulk Pricing!

Black Phenolic
Mushroom
Brass Insert or Molded Thread
Inch and Metric

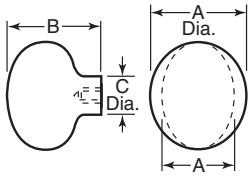




Item No.	A	B	C	Thread
Inch				
MPB-8	1¼	63/64	17/32	10-24 x ⅜ Brass
MPB-9	1¼	63/64	17/32	¼-20 x ⅜ Brass
MPB-5	2 1/32	1½	¾	¼-20 x ⅝ Brass
MPB-7	2 1/32	1½	¾	5/16-18 x ⅝ Brass
MPB-1	2 1/32	1½	¾	5/16-24 x ⅝ Brass
MPB-2	2 1/32	1½	¾	⅜-16 x ½ Molded
MPB-6	2 1/32	1½	¾	⅜-16 x ⅝ Brass
MPB-3	2 1/32	1½	¾	⅜-24 x ⅝ Brass
MPB-4	2 1/32	1½	¾	½-13 x ⅝ Brass

DimcoGray
Black Phenolic
Mushroom
Brass Insert
Inch



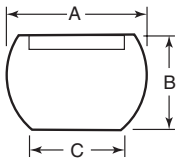


Item No.	A	B	C	Insert Thread	Insert Depth
DK-64	1⅝ x 2 13/64	1 53/64	45/64	¼-20	7/16
DK-65	1⅝ x 2 13/64	1 53/64	45/64	5/16-18	7/16
DK-67	1⅝ x 2 13/64	1 53/64	45/64	⅜-16	½
DK-68	1⅝ x 2 13/64	1 53/64	45/64	⅜-24	½

These press-on knobs hold securely without threads or set screws. Knob is held in place with a ribbed insert that squeezes onto the shaft. Simply pound or press onto the shaft. Eliminates machining costs. Knobs won't come off under normal use, however, they can be removed by pounding on the underside with a hammer. Shaft diameter should be +.000/-.003 of size for best fit.

DimcoGray
Black Phenolic
Recessed Top
Brass Insert
Inch





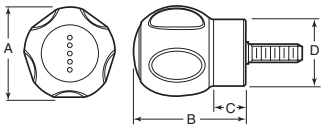
Item No.	A	B	C	Insert Thread	Insert Depth
DK-760	1⅞	1 15/32	¾	⅜-16	½
DK-765	1⅞	1 15/32	¾	⅜-24	½
DK-770	1¼	1 15/32	¾	½-13	⅝

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BALL CONTROL KNOBS

ELESA
Black Elastomer
Soft Touch
Plated Steel Stud
Inch

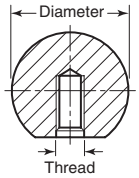




Item No.	A	B	C	D	Stud Thread	Stud Lgth.
ESP-375	1.97	2.52	.79	1.46	5/16-18	.75
ESP-80	1.97	2.52	.79	1.46	3/8-16	1.00

JW Winco
Stainless Steel
Tapped
Metric





STAINLESS STEEL OPTION AVAILABLE

Stainless steel ball knobs are an excellent choice for corrosion-free applications.

Item No.	Dia.	Thread	Min. Depth
WBK-5	16	M4 x .70	7.2
WBK-10	20	M5 x .80	9.1
WBK-15	25	M6 x 1.00	11.0
WBK-20	32	M8 x 1.25	14.5
WBK-25	40	M10 x 1.50	18.0

Polished Aluminum, Steel or Brass
Tapped
Inch



Aluminum



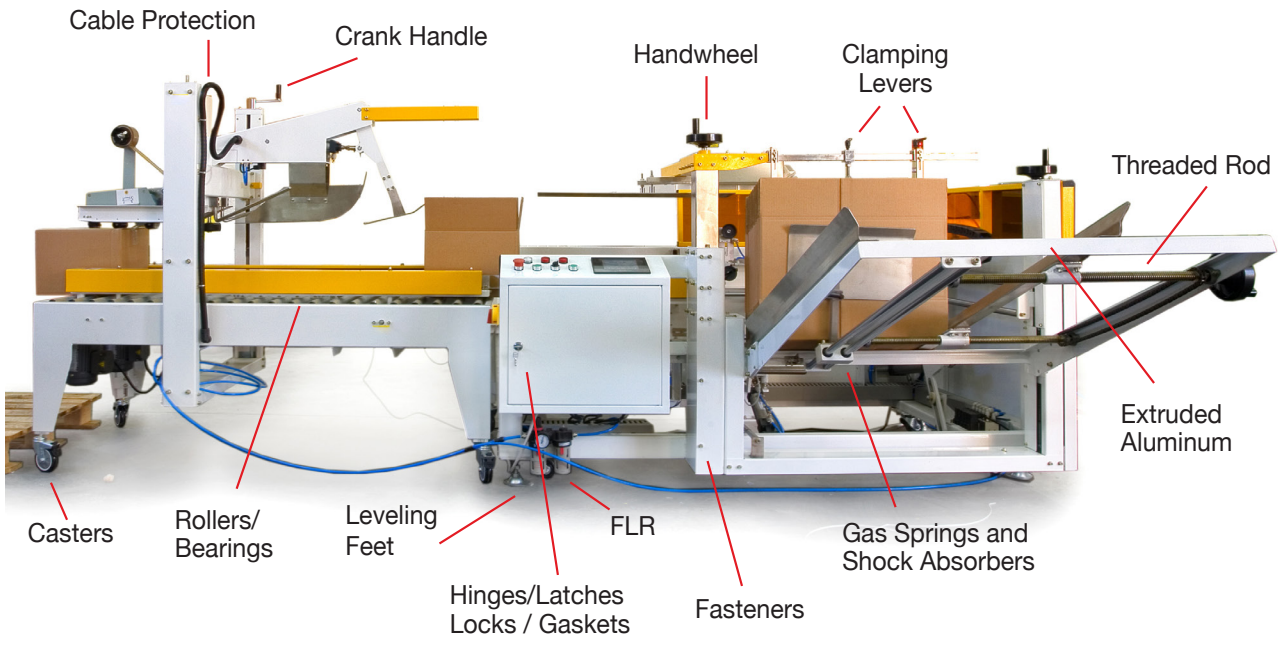
Brass

Aluminum balls are polished. Steel balls are highly polished with a flash chrome finish. Brass balls are made from CDA 360 free machining bar stock. Balls are highly polished where indicated; suitable for use in decorative and display purposes.

Item No.	Dia.	Thread	Min. Depth
Aluminum - DIN 319			
KAB-1	5/8	8-32	–
KAB-2	25/32	10-32	–
KAB-3	31/32	1/4-20	–
KAB-4	1 1/4	5/16-18	–
KAB-5	1 9/16	3/8-16	–
KAB-6	1 31/32	1/2-13	–
Steel			
SB-4	1.000	1/4-28	1/2
SB-5	1.000	5/16-18	1/2
SB-6	1.000	5/16-24	1/2
SB-22	1.000	10-24	3/8
SB-23	1.000	10-32	3/8
SB-24	1.000	3/8-16	1/2
SB-7	1.375	1/4-20	5/8
SB-8	1.375	1/4-28	5/8
SB-9	1.375	5/16-18	5/8
SB-10	1.375	5/16-24	5/8
SB-11	1.375	3/8-16	5/8
SB-12	1.375	3/8-24	5/8
SB-13	1.375	7/16-20	5/8
SB-14	1.375	1/2-13	5/8
SB-15	1.375	1/2-20	5/8

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KNOBS - METAL & VISUAL DETECTABLE

ELESA
Metal Detectable Technopolymer
Stainless Steel / Metric
3-Lobed/Knurled



This knob contains iron oxide powder for the detectability of the plastic material by means of a metal detector.

Standard components are crafted using specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts and are suitable for contact with food (FDA CFR.21 and EU 10/2011). A special additive used in manufacturing the plastic allows for the detection of cubic particles measuring 5 mm by means of a metal detector. The specific and unique quality of the blue color used is naturally absent in the environment in which these components are applied, allowing for easy visual detection of contaminant parts. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

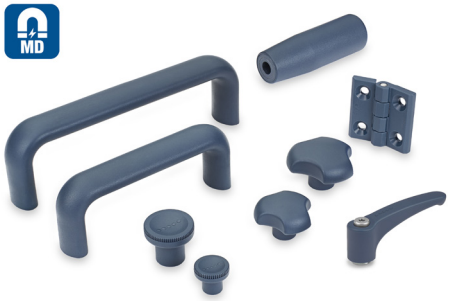
Ideal for Food and Pharmaceutical Equipment

Metal Detectable

Specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts

Part #	Description
EHP-5MD	M8 X 10 mm thread. 304 Stainless steel boss, threaded blind hole
EHP-10MD	M10 X 13 mm thread. 304 Stainless steel boss, threaded blind hole
EHP-15MD	M8 X 20 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-20MD	M8 X 30 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-25MD	M10 X 30 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-30MD	M10 X 40 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-35MD	M5 X 10 mm thread. 304 stainless steel boss, threaded blind hole.
EHP-40MD	M8 X 15 mm thread. 304 stainless steel boss, threaded blind hole.

SEE ALSO VD HANDLES & HINGES



ELESA
Visual Detectable Technopolymer
3-Lobed/Knurled



Standard components are made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts. This shade of blue is easily detectable and recognizable to the human eye thanks to the specified nature of the color and the fact that it is naturally absent in the environment in which these components are used. The material is suitable for contact with food (FDA CFR.21 and EU 10/2011) and is in full compliance with international regulations, contributing to increased levels of safety in food production processes wherever applied. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

This knob shade of blue is easily recognizable to the human eye.

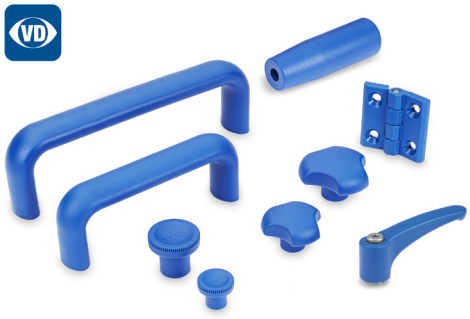
Ideal for Food and Pharmaceutical Equipment

Visual Detectable

Made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts.

Part #	Description
EHP-5VD	M8 X 10 mm thread. 304 Stainless steel boss, threaded blind hole
EHP-10VD	M10 X 13 mm thread. 304 Stainless steel boss, threaded blind hole
EHP-15VD	M8 X 20 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-20VD	M8 X 30 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-25VD	M10 X 30 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-30VD	M10 X 40 mm thread. 304 Stainless steel threaded stud, chamfered flat end
EHP-35VD	M5 X 10 mm thread. 304 stainless steel boss, threaded blind hole.
EHP-40VD	M8 X 15 mm thread. 304 stainless steel boss, threaded blind hole.

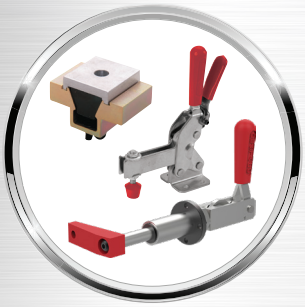
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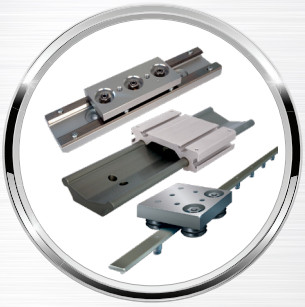
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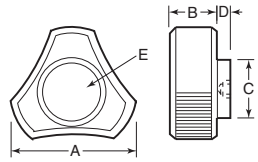
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LOBED / ARM / PRONG / STAR KNOBS

Reid Select
Black Phenolic
Three Lobed Blind Hole
Brass Insert
Inch

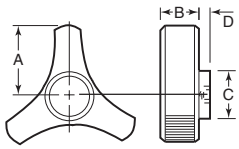




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-600	3/4	9/32	7/16	29/64	.296	10-24	3/8
DK-601	3/4	9/32	7/16	29/64	.296	1/4-20	3/8
DK-602	1	3/8	9/16	7/16	.391	1/4-20	3/8
DK-603	1	3/8	9/16	7/16	.391	5/16-18	3/8
DK-604	1 1/4	7/16	3/4	7/16	.510	1/4-20	3/8
DK-605	1 1/4	7/16	3/4	7/16	.510	5/16-18	3/8
DK-606	1 1/4	9/16	3/4	7/16	.510	3/8-16	3/8
DK-607	1 5/8	9/16	3/4	5/16	.785	1/4-20	3/8
DK-609	1 5/8	9/16	3/4	5/16	.785	3/8-16	3/8

DimcoGray
Black ABS
Three Lobed Blind Hole
Brass Insert
Inch

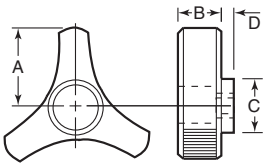




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-104	3/4	1/2	1/2	3/8	1/4-20	7/16
DK-106	1	9/16	5/8	1/2	1/4-20	7/16
DK-107	1	9/16	5/8	1/2	5/16-18	7/16
DK-108	1	9/16	5/8	1/2	3/8-16	7/16
DK-109	1 1/4	5/8	3/4	1/2	5/16-18	7/16
DK-110	1 1/4	5/8	3/4	1/2	3/8-16	1/2
DK-111	1 1/4	5/8	3/4	1/2	1/2-13	5/8

DimcoGray
Black ABS
Three Lobed Thru Hole
Brass Insert
Inch



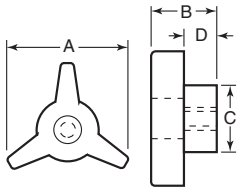


Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-112	3/4	1/2	1/2	3/8	1/4-20	1/2
DK-113	3/4	1/2	1/2	3/8	5/16-18	1/2
DK-114	1	9/16	5/8	1/4	1/4-20	5/8
DK-115	1	9/16	5/8	1/4	5/16-18	5/8
DK-116	1	9/16	5/8	1/4	3/8-16	5/8
DK-118	1 1/4	5/8	3/4	1/2	3/8-16	5/8

MOST PRODUCTS
SHIP SAME DAY

Black Polypropylene
Three Lobed Thru Hole With Knob-Lok
Steel Insert
Inch



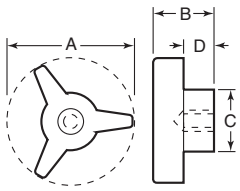


Unique Knob-Lok features a nylon locking element that resists vibration and prevents back off. It also allows for consistent installation torque and precise adjustments. No tools needed for safe and sure fastening.

Item No.	A	B	C	D	Insert Thread	Insert Depth
KLK-10	1.75	.87	.85	.31	1/4-20	.44
KLK-15	1.75	.87	.85	.31	5/16-18	.47
KLK-20	1.75	.87	.85	.31	3/8-16	.58

Reid Select
Black Phenolic
Three Lobed Blind Hole
Brass Insert
Inch

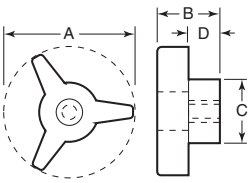




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-1203	1 1/8	3/4	1/2	1/4	10-32	3/8
DK-1204	1 1/8	3/4	1/2	1/4	1/4-20	3/8
DK-1205	1 1/2	7/8	5/8	1/4	1/4-20	3/8
DK-1206	1 1/2	7/8	5/8	1/4	5/16-18	1/2
DK-1208	2	1	3/4	3/8	3/8-16	1/2

Reid Select
Black Phenolic
Three Lobed Thru Hole
Brass Insert
Inch

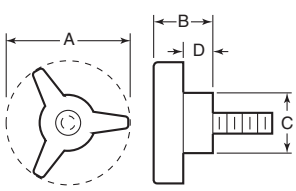




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-1209	1 1/8	3/4	1/2	1/4	10-32	3/8
DK-1210	1 1/8	3/4	1/2	1/4	1/4-20	1/2
DK-1211	1 1/2	7/8	5/8	1/4	1/4-20	3/8
DK-1212	1 1/2	7/8	5/8	1/4	5/16-18	1/2
DK-1213	2	1	3/4	3/8	5/16-18	1/2
DK-1214	2	1	3/4	3/8	3/8-16	1/2

Reid Select
Black Phenolic
Three Lobed
Plated Steel Stud
Inch



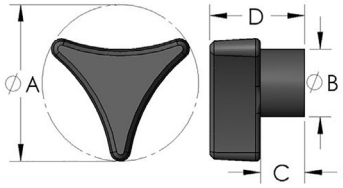


Item No.	A	B	C	D	Stud Thread	Stud Length
DK-1215	1 1/8	3/4	1/2	1/4	10-32	7/16
DK-1216	1 1/8	3/4	1/2	1/4	1/4-20	1/2
DK-1217	1 1/2	7/8	5/8	1/4	1/4-20	9/16
DK-1218	1 1/2	7/8	5/8	1/4	5/16-18	3/4
DK-1219	2	1	3/4	3/8	5/16-18	3/4
DK-1220	2	1	3/4	3/8	3/8-16	3/4

LOBED / ARM / PRONG / STAR KNOBS

Reid Select Black Polypropylene Three Lobed Steel Stud Inch

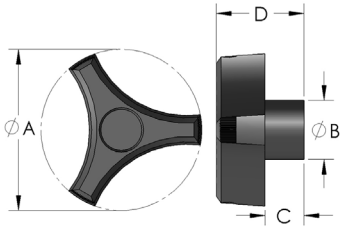




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-460	1.750	.750	.490	1.050	.750	Steel	1/4-20
ICK-465	1.750	.750	.490	1.050	.500	Steel	5/16-18
ICK-470	1.750	.750	.490	1.050	.750	Steel	5/16-18
ICK-475	1.750	.750	.490	1.050	1.500	Steel	3/8-16
ICK-480	1.750	.750	.490	1.050	.500	Steel	10-24
ICK-485	1.250	.620	.500	.950	.750	Steel	1/4-20
ICK-490	1.250	.620	.500	.950	1.000	Steel	1/4-20
ICK-495	1.750	.750	.490	1.050	1.000	Steel	1/4-20
ICK-500	1.750	.750	.490	1.050	1.500	Steel	1/4-20
ICK-505	1.750	.750	.490	1.050	1.750	Steel	1/4-20
ICK-510	1.750	.750	.490	1.050	2.000	Steel	1/4-20
ICK-515	1.750	.750	.490	1.050	.625	Steel	5/16-18
ICK-520	1.750	.750	.490	1.050	1.250	Steel	5/16-18
ICK-525	1.750	.750	.490	1.050	1.500	Steel	5/16-18
ICK-530	1.750	.750	.490	1.050	1.750	Steel	5/16-18
ICK-535	1.750	.750	.490	1.050	1.000	Steel	3/8-16
ICK-540	1.750	.750	.490	1.050	2.500	Steel	3/8-16

Reid Select Black Polypropylene Three Lobed Steel Stud Inch

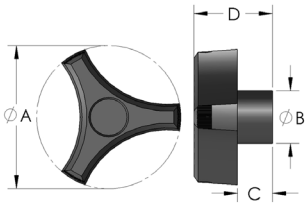




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-545	2.000	.740	.490	1.100	1.000	Steel	1/4-20
ICK-550	2.000	.740	.490	1.100	1.000	Steel	5/16-18
ICK-555	2.000	.740	.490	1.100	.750	Steel	5/16-18
ICK-560	2.000	.740	.490	1.100	1.250	Steel	5/16-18
ICK-565	2.500	.740	.480	1.120	1.250	Steel	3/8-16
ICK-570	2.000	.740	.490	1.100	1.500	Steel	3/8-16
ICK-575	2.000	.740	.490	1.100	2.000	Steel	3/8-16
ICK-580	2.000	.740	.490	1.100	3.500	Steel	3/8-16

Reid Select Black Polypropylene Three Lobed Steel Insert Inch

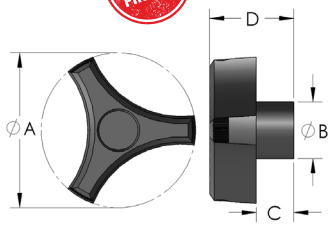




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2135	2.000	.740	.490	1.100	Thru-Hole	Steel	5/16-18
ICK-2140	2.000	.740	.490	1.100	Thru-Hole	Steel	3/8-16
ICK-2145	2.500	.740	.480	1.120	Thru-Hole	Steel	3/8-16

Reid Select Black Polypropylene Three Lobed Steel Insert Inch

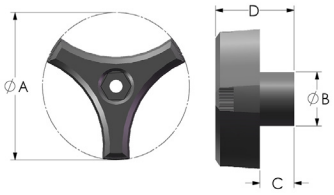




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2150	2.000	.740	.490	1.100	Blind Hole	Steel	3/8-16
ICK-2155	2.500	.740	.490	1.120	Blind Hole	Steel	3/8-16
ICK-2160	2.000	.740	.480	1.100	Blind Hole	Steel	5/16-18

Reid Select Black Polypropylene Three Lobed Press Fit Inch or Metric

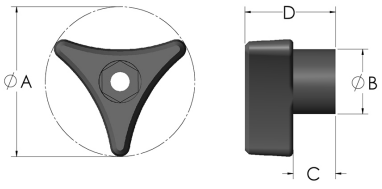




Item No.	A	B	C	D	Compatible Thread Sizes
ICK-2655	2.000	.750	.490	1.090	1/4-20;1/4-28
ICK-2660	2.000	.750	.490	1.090	5/16-18;5/16-24
ICK-2665	2.000	.750	.490	1.090	M6
ICK-2670	2.000	.750	.490	1.090	M8

Reid Select Black Polypropylene Three Lobed Press Fit Inch or Metric

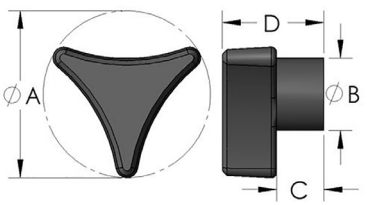




Item No.	A	B	C	D	Compatible Thread Sizes
ICK-2685	1.750	.750	.490	1.060	1/4-20;1/4-28
ICK-2690	1.750	.750	.490	1.060	M6
ICK-2695	1.750	.750	.490	1.060	10-32;10-24

Reid Select Black Polypropylene Three Lobed Steel Insert Inch





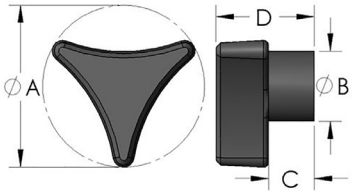
Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-115	1.250	.620	.500	.950	Blind Hole	Steel	1/4-20
ICK-120	1.750	.750	.490	1.050	Blind Hole	Steel	1/4-20
ICK-125	1.750	.750	.490	1.050	Blind Hole	Steel	3/8-16

LOBED / ARM / PRONG / STAR KNOBS

Reid Select
Black Polypropylene
Three Lobed
Steel Insert
Inch

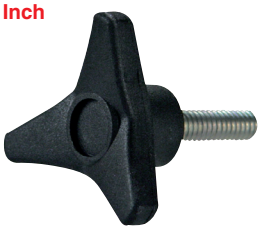
NEW PRODUCT

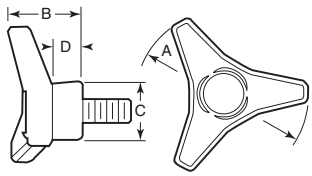




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-5	1.250	.620	.500	.950	Thru-Hole	Steel	1/4-20
ICK-10	1.750	.750	.490	1.050	Thru-Hole	Steel	1/4-20
ICK-15	1.750	.750	.490	1.050	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-20	1.250	.620	.500	.950	Thru-Hole	Steel	5/16-18
ICK-25	1.750	.750	.490	1.050	Thru-Hole	Steel	5/16-18
ICK-30	1.750	.750	.490	1.050	Thru-Hole (Stop Nut)	Steel	5/16-18
ICK-35	1.750	.750	.490	1.050	Thru-Hole	Steel	3/8-16
ICK-40	1.250	.620	.500	.950	Thru-Hole	Steel	10-32
ICK-45	1.750	.750	.490	1.050	Thru-Hole	Steel	10-24

Reid Select
Black Thermoplastic
Three Lobed
Plated Steel Stud
Inch

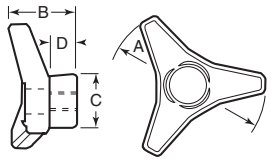




Item No.	A	B	C	D	Stud Thread	Stud Length
JCL-395	1.77	.83	.63	.39	1/4-20	.98
JCL-400	1.77	.83	.63	.39	5/16-18	.98
JCL-405	2.56	1.10	.87	.47	5/16-18	.98
JCL-410	2.56	1.10	.87	.47	3/8-16	.98
JCL-415	2.56	1.10	.87	.47	1/2-13	.98
JCL-420	3.35	1.42	1.18	.59	5/16-18	1.18
JCL-425	3.35	1.42	1.18	.59	3/8-16	1.18
JCL-430	3.35	1.42	1.18	.59	1/2-13	1.18
JCL-435	4.13	1.77	1.38	.75	3/8-16	1.18
JCL-440	4.13	1.77	1.38	.75	1/2-13	1.18
JCL-445	4.13	1.77	1.38	.75	5/8-11	1.18
JCL-450	4.92	2.09	1.65	.89	1/2-13	1.18
JCL-455	4.92	2.09	1.65	.89	5/8-11	1.18

Reid Select
Black Thermoplastic
Three Lobed Thru Hole
Brass Insert
Inch



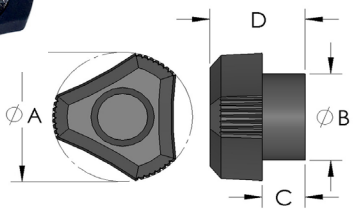


Item No.	A	B	C	D	Insert Thread	Insert Depth
JCL-335	1.77	.83	.63	.39	1/4-20	.38
JCL-340	1.77	.83	.63	.39	5/16-18	.47
JCL-345	2.56	1.10	.87	.47	5/16-18	.47
JCL-350	2.56	1.10	.87	.47	3/8-16	.56
JCL-355	2.56	1.10	.87	.47	1/2-13	.75
JCL-360	3.35	1.42	1.18	.59	3/8-16	.56
JCL-365	3.35	1.42	1.18	.59	1/2-13	.75
JCL-370	4.13	1.77	1.38	.75	3/8-16	.56
JCL-375	4.13	1.77	1.38	.75	1/2-13	.75
JCL-380	4.13	1.77	1.38	.75	5/8-11	.94
JCL-385	4.92	2.09	1.65	.89	1/2-13	.75
JCL-390	4.92	2.09	1.65	.89	5/8-11	.94

Reid Select
Black Nylon
Three Lobed
Steel Stud
Inch

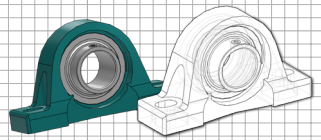
NEW PRODUCT

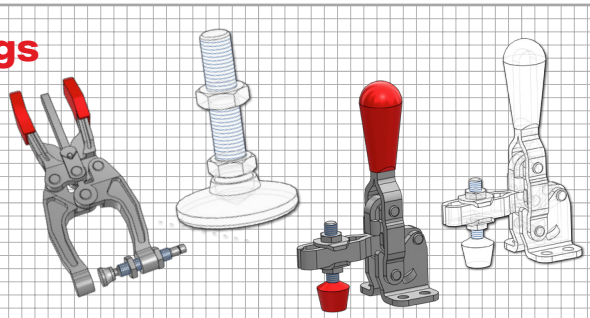




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-50	.750	.500	.230	.510	.250	Steel	10-32
ICK-55	.750	.500	.230	.510	.370	Steel	10-32

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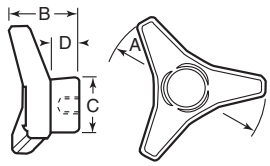
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LOBED / ARM / PRONG / STAR KNOBS

Reid Select
Black Thermoplastic
Three Lobed Blind Hole
Brass Insert
Inch

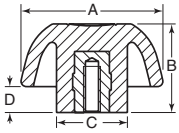




Item No.	A	B	C	D	Insert Thread	Insert Depth
JCL-275	1.77	.83	.63	.39	¼-20	.38
JCL-280	1.77	.83	.63	.39	5/16-18	.47
JCL-285	2.56	1.10	.87	.47	5/16-18	.47
JCL-290	2.56	1.10	.87	.47	⅜-16	.56
JCL-300	3.35	1.42	1.18	.59	⅜-16	.47
JCL-305	3.35	1.42	1.18	.59	½-13	.75
JCL-310	4.13	1.77	1.38	.75	⅜-16	.56
JCL-315	4.13	1.77	1.38	.75	½-13	.75
JCL-320	4.13	1.77	1.38	.75	⅝-11	.94
JCL-325	4.92	2.09	1.65	.89	½-13	.75

Reid Select
Black Thermoplastic
Three Lobed Blind Hole
Brass Insert
Inch



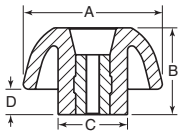


Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-112	.98	.63	.51	.20	10-24	.35
RST-113	1.26	.79	.59	.24	10-24	.35
RST-114	1.26	.79	.59	.24	¼-20	.39
RST-115	1.57	.98	.63	.31	¼-20	.39
RST-116	1.57	.98	.63	.31	5/16-18	.55
RST-117	1.97	1.22	.83	.35	5/16-18	.55
RST-118	1.97	1.22	.83	.35	⅜-16	.55
RST-119	2.48	1.54	.91	.47	⅜-16	.55
RST-120	2.48	1.54	.91	.47	½-13	.75

Reid Select
Black Thermoplastic
Three Lobed Thru Hole
Brass Insert
Inch

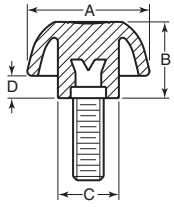
Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-121	.98	.63	.51	.20	¼-20	.43
RST-122	1.26	.79	.59	.24	¼-20	.55
RST-123	1.57	.98	.63	.31	¼-20	.55
RST-124	1.57	.98	.63	.31	5/16-18	.55
RST-125	1.97	1.22	.83	.35	5/16-18	.55
RST-126	2.48	1.54	.91	.47	⅜-16	.91





Reid Select
Black Thermoplastic
Three Lobed
Plated Steel Stud
Inch





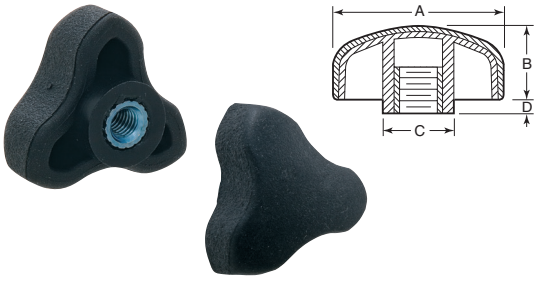
Item No.	A	B	C	D	Stud Thread	Stud Length
RST-127	.98	.63	.51	.20	10-24	.75
RST-128	.98	.63	.51	.20	¼-20	.50
RST-129	.98	.63	.51	.20	¼-20	.75
RST-130	1.26	.79	.59	.24	¼-20	.50
RST-135	1.57	.98	.63	.31	¼-20	1.25
RST-136	1.57	.98	.63	.31	5/16-18	.75
RST-137	1.57	.98	.63	.31	5/16-18	1.00
RST-138	1.57	.98	.63	.31	5/16-18	1.50
RST-139	1.57	.98	.63	.31	⅜-16	1.00
RST-140	1.57	.98	.63	.31	⅜-16	1.50
RST-142	1.97	1.22	.83	.35	⅜-16	1.00
RST-143	1.97	1.22	.83	.35	⅜-16	1.50
RST-144	1.97	1.22	.83	.35	⅜-16	2.00
RST-145	1.97	1.22	.83	.35	5/16-18	1.00
RST-146	1.97	1.22	.83	.35	5/16-18	1.75
RST-149	2.48	1.54	.91	.47	½-13	1.50

These "soft touch" knobs offer unique styling, rugged construction along with a soft feel. They are molded with a soft thermoplastic rubber shell around a tough thermoplastic body. The soft feel of the knurling provides a sure grip and a rich, pleasant touch.

Ask Us About Bulk Pricing!

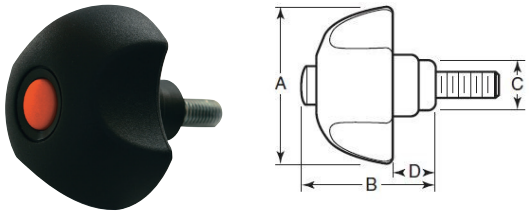
LOBED / ARM / PRONG / STAR KNOBS

Black Thermoplastic
Three Lobed Soft Touch
Zinc Plated Brass Insert
Inch



Item No.	A	B	C	D	Insert Thread	Insert Depth
RK-300	1.18	.67	.50	.15	10-32	.55
RK-301	1.18	.67	.50	.15	¼-20	.55
RK-314	1.77	.89	.75	.12	¼-20	.70
RK-323	2.17	1.08	.81	.15	⅜-16	.90
RK-324	2.17	1.08	.81	.15	½-13	.90

Reid Select
Black Polyamide Safety Knob
Three Lobed
Steel Stud
Inch and Metric



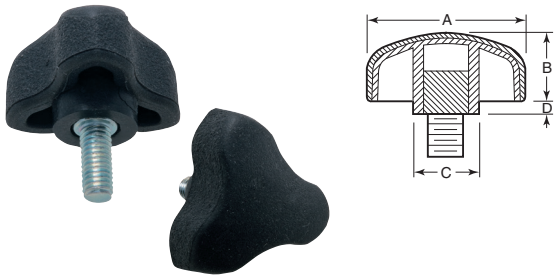
Great knob for safety applications. This knob only turns when pressed downward and turned simultaneously to avoid involuntary turning.

Item No.	Stud Thread	Stud Lgth	A	B	C	D (Position) Rest	D (Position) Working
RST-217	1/4-20	.75	1.97	1.65	0.77	0.69	.53
RST-218	1/4-20	1.00	1.97	1.65	0.77	0.69	.53
RST-219	1/4-20	1.50	1.97	1.65	0.77	0.69	.53
RST-220	5/16-18	.75	1.97	1.65	0.77	0.69	.53
RST-221	5/16-18	1.00	1.97	1.65	0.77	0.69	.53
RST-222	5/16-18	1.50	1.97	1.65	0.77	0.69	.53
RST-223	3/8-16	1.00	1.97	1.65	0.77	0.69	.53
RST-224	3/8-16	1.50	1.97	1.65	0.77	0.69	.53
RST-206	M6	15	50	42	19.5	17.5	13.5
RST-207	M6	20	50	42	19.5	17.5	13.5
RST-208	M6	30	50	42	19.5	17.5	13.5
RST-209	M6	40	50	42	19.5	17.5	13.5
RST-210	M8	15	50	42	19.5	17.5	13.5
RST-211	M8	20	50	42	19.5	17.5	13.5
RST-212	M8	33	50	42	19.5	17.5	13.5
RST-213	M8	47	50	42	19.5	17.5	13.5
RST-214	M10	20	50	42	19.5	17.5	13.5
RST-215	M10	30	50	42	19.5	17.5	13.5
RST-216	M10	40	50	42	19.5	17.5	13.5



STANDARD QUOTES IN 4 HOURS OR LESS

Black Thermoplastic
Three Lobed Soft Touch
Zinc Plated Steel Stud
Inch



Item No.	A	B	C	D	Stud Thread	Stud Length
RK-302	1.18	.67	.50	.15	10-32	½
RK-303	1.18	.67	.50	.15	10-32	1
RK-304	1.18	.67	.50	.15	¼-20	½
RK-305	1.18	.67	.50	.15	¼-20	1
RK-326	2.17	1.08	.81	.15	¼-20	1
RK-327	2.17	1.08	.81	.15	5/16-18	1



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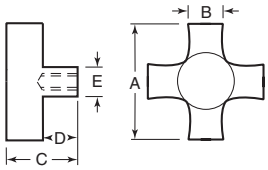
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Color & Customization Available

LOBED / ARM / PRONG / STAR KNOBS

Black Phenolic or Nylon
Four Lobed Blind Hole
Brass Insert
Inch



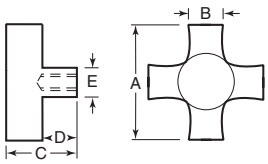


Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-141*	1	3/16	3/4	7/16	7/16	8-32	3/8
DK-142*	1	3/16	3/4	7/16	7/16	10-24	3/8
DK-143*	1	3/16	3/4	7/16	7/16	10-32	3/8
DK-144*	1	3/16	3/4	7/16	7/16	1/4-20	1/2
DK-645	1 1/4	1/4	7/8	3/8	5/8	10-24	5/16
DK-650	1 1/4	1/4	7/8	3/8	5/8	10-32	5/16
DK-83	1 1/4	1/4	7/8	3/8	5/8	1/4-20	7/16
DK-84	1 1/4	1/4	7/8	3/8	5/8	5/16-18	7/16
DK-1184*	1 1/4	3/16	7/8	1/2	1/2	1/4-20	1/2
DK-1185*	1 1/4	3/16	7/8	1/2	1/2	5/16-18	1/2
DK-59	1 3/4	1/4	1	1/2	13/16	1/4-20	7/16
DK-60	1 3/4	1/4	1	1/2	13/16	5/16-18	7/16
DK-61	1 3/4	1/4	1	1/2	13/16	5/16-24	7/16
DK-62	1 3/4	1/4	1	1/2	13/16	3/8-16	1/2
DK-63	1 3/4	1/4	1	1/2	13/16	3/8-24	1/2
DK-135	2 1/4	5/16	1	1/2	1	1/4-20	7/16
DK-91	2 1/4	5/16	1 1/8	9/16	1	5/16-18	1/2
DK-92	2 1/4	5/16	1 1/8	9/16	1	3/8-16	1/2
DK-93	2 1/4	5/16	1 1/8	9/16	1	3/8-24	1/2
DK-94	2 1/4	5/16	1 1/8	9/16	1	1/2-13	1/2
DK-95	2 1/4	5/16	1 1/8	9/16	1	1/2-20	1/2

*Nylon

Black Thermoplastic or Nylon
Four Lobed Blind Hole
Brass Insert
Inch



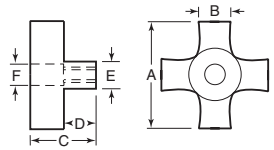


Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-1187*	1 3/4	1/4	1	7/16	3/4	1/4-20	1/2
DK-1188*	1 3/4	1/4	1	7/16	3/4	5/16-18	1/2
DK-1189	1 3/4	1/4	1	7/16	3/4	3/8-16	1/2
DK-1190	2 1/4	1/4	1	7/16	1	1/4-20	1/2
DK-1191	2 1/4	1/4	1	7/16	1	5/16-18	1/2
DK-1192	2 1/4	1/4	1	7/16	1	3/8-16	1/2
DK-206	3	1/2	1 1/4	9/16	7/8	1/4-20	5/8
DK-211	3	1/2	1 1/4	9/16	7/8	3/8-16	5/8
DK-212	3	1/2	1 1/4	9/16	7/8	3/8-24	5/8

*Nylon

Black Thermoplastic or Nylon
Four Lobed Thru Hole
Brass Insert
Inch

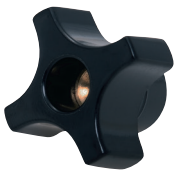


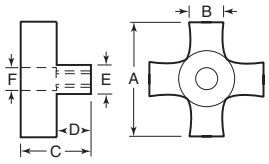


Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
DK-1193*	1 3/4	1/4	1	7/16	3/4	.50	1/4-20	1/2
DK-1194*	1 3/4	1/4	1	7/16	3/4	.50	5/16-18	1/2
DK-1195*	2 1/4	1/4	1	7/16	1	.50	5/16-18	1/2
DK-1196*	2 1/4	1/4	1	7/16	1	.50	3/8-16	1/2
DK-213	3	1/2	1 1/4	9/16	7/8	.65	1/4-20	5/8
DK-214	3	1/2	1 1/4	9/16	7/8	.65	1/4-28	5/8
DK-216	3	1/2	1 1/4	9/16	7/8	.65	5/16-18	5/8
DK-218	3	1/2	1 1/4	9/16	7/8	.65	3/8-16	5/8

*Nylon

Black Phenolic or Nylon
Four Lobed Thru Hole
Brass Insert
Inch and Metric





Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
Inch								
DK-655	1 1/4	1/4	7/8	3/8	5/8	11/32	10-24	7/16
DK-660	1 1/4	1/4	7/8	3/8	5/8	11/32	10-32	5/16
DK-1186*	1 1/4	3/16	7/8	1/2	1/2	11/32	1/4-20	3/8
DK-81	1 1/4	1/4	7/8	3/8	5/8	11/32	1/4-20	1/2
DK-82	1 1/4	1/4	7/8	3/8	5/8	11/32	5/16-18	1/2
DK-54	1 3/4	1/4	1	1/2	13/16	7/16	1/4-20	5/8
DK-55	1 3/4	1/4	1	1/2	13/16	7/16	5/16-18	5/8
DK-56	1 3/4	1/4	1	1/2	13/16	7/16	5/16-24	5/8
DK-57	1 3/4	1/4	1	1/2	13/16	7/16	3/8-16	5/8
DK-58	1 3/4	1/4	1	1/2	13/16	7/16	3/8-24	5/8
DK-137	2 1/4	5/16	1 1/8	9/16	1	5/8	1/4-20	5/8
DK-138	2 1/4	5/16	1 1/8	9/16	1	5/8	5/16-18	5/8
DK-87	2 1/4	5/16	1 1/8	9/16	1	5/8	3/8-16	5/8
DK-88	2 1/4	5/16	1 1/8	9/16	1	5/8	3/8-24	5/8
DK-89	2 1/4	5/16	1 1/8	9/16	1	5/8	1/2-13	5/8
DK-90	2 1/4	5/16	1 1/8	9/16	1	5/8	1/2-20	5/8
Metric								
DK-1178	1 1/4	1/4	7/8	3/8	5/8	11/32	M6 x 1.00	1/2
DK-1179	1 1/4	1/4	7/8	3/8	5/8	11/32	M8 x 1.25	33/64
DK-1180	1 3/4	1/4	1	1/2	13/16	7/16	M6 x 1.00	5/8
DK-1181	1 3/4	1/4	1	1/2	13/16	7/16	M8 x 1.25	5/8
DK-1182	1 3/4	1/4	1	1/2	13/16	7/16	M10 x 1.50	5/8

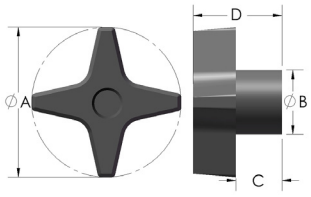
*Nylon

Reid Select
Black Polypropylene
Four Lobed
Steel Insert
Inch

NEW PRODUCT

Reid SELECT





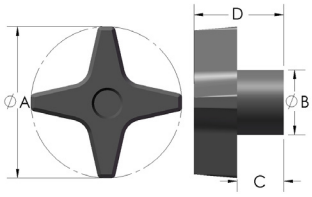
Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-130	1.750	.750	.520	1.020	Thru-Hole	Steel	1/4-20
ICK-135	1.750	.750	.520	1.020	Thru-Hole	Steel	5/16-18

Reid Select
Black Polypropylene
Four Lobed
Steel Insert
Inch

NEW PRODUCT

Reid SELECT





Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-150	2.500	.980	.480	1.130	Thru-Hole	Steel	1/4-20
ICK-155	2.500	.980	.480	1.130	Thru-Hole	Steel	3/8-16
ICK-160	2.500	.980	.480	1.130	Thru-Hole (Stop Nut)	Steel	3/8-16
ICK-165	2.500	.980	.480	1.130	Thru-Hole	Steel	1/2-13
ICK-170	2.500	.980	.480	1.130	Thru-Hole	Steel	5/16-18

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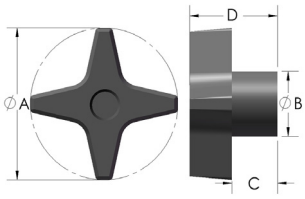
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Reid Select Black Polypropylene Four Lobed Steel Insert Inch

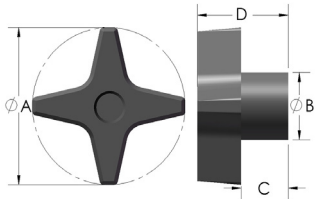




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-140	1.750	.750	.520	1.020	Blind Hole	Steel	1/4-20
ICK-145	1.750	.750	.520	1.020	Blind Hole	Steel	5/16-18

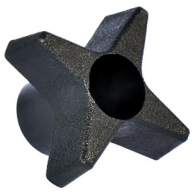
Reid Select Black Polypropylene Four Lobed Steel Insert Inch

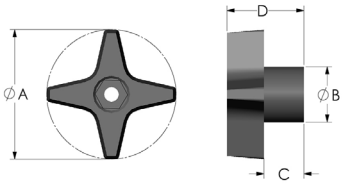




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-175	2.500	.980	.480	1.130	Blind Hole	Steel	1/4-20
ICK-180	2.500	.980	.480	1.130	Blind Hole	Steel	5/16-18
ICK-185	2.500	.980	.480	1.130	Blind Hole	Steel	3/8-16
ICK-190	2.500	.980	.480	1.130	Blind Hole	Steel	1/2-13

Reid Select Black Polypropylene Four Lobed Press Fit Inch or Metric

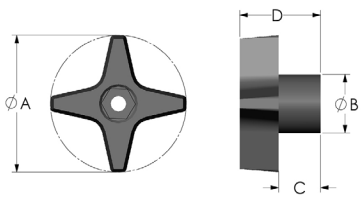




Item No.	A	B	C	D	Compatible Thread Sizes
ICK-2700	1.750	.750	.540	1.040	10-32;10-24
ICK-2705	1.750	.750	.540	1.040	1/4-20;1/4-28
ICK-2710	1.750	.750	.540	1.040	M6

Reid Select Black Polypropylene Four Lobed Press Fit Inch or Metric

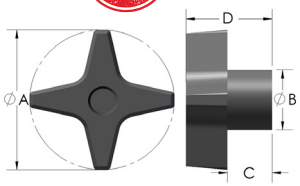




Item No.	A	B	C	D	Compatible Thread Size
ICK-2790	2.500	.980	.360	1.000	3/8-16;3/8-24
ICK-2795	2.500	.980	.360	1.000	M10
ICK-2800	2.500	.980	.360	1.000	1/2-13;1/2-20
ICK-2805	2.500	.980	.360	1.000	M12

Reid Select Black Polypropylene Four Lobed Steel Stud Inch

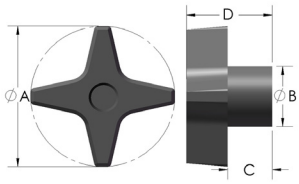




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-320	2.500	.980	.480	1.130	.500	Steel	1/4-20
ICK-325	2.500	.980	.480	1.130	1.000	Steel	1/4-20
ICK-330	2.500	.980	.480	1.130	1.000	Steel	5/16-18
ICK-335	2.500	.980	.480	1.130	.750	Steel	3/8-16
ICK-340	2.500	.980	.480	1.130	1.000	Steel	3/8-16
ICK-345	2.500	.980	.480	1.130	1.250	Steel	3/8-16
ICK-350	2.500	.980	.480	1.130	.500	Steel	5/16-18
ICK-355	2.500	.980	.480	1.130	1.500	Steel	3/8-16
ICK-360	2.500	.980	.480	1.130	2.500	Steel	3/8-16

Reid Select Black Polypropylene Four Lobed Steel Stud Inch

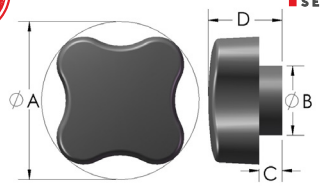




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-615	1.750	.750	.520	1.020	.750	Steel	5/16-18
ICK-620	1.750	.750	.520	1.020	1.000	Steel	5/16-18
ICK-625	1.750	.750	.520	1.020	2.500	Steel	5/16-18
ICK-630	1.750	.750	.520	1.020	3.000	Steel	3/8-16

Reid Select Black Soft Touch TPE (Overmold), Polypropylene (Base) Four Lobed Steel Stud Inch

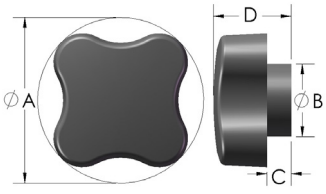




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-585	2.000	.750	.250	.820	1.500	Steel	1/4-20

Reid Select Black Polypropylene Four Lobed Steel Stud Inch



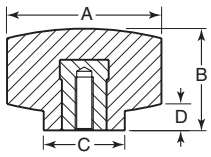


Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-365	1.730	.750	.250	.820	.500	Steel	1/4-20
ICK-370	1.730	.750	.250	.820	.500	Steel	5/16-18

LOBED / ARM / PRONG / STAR KNOBS

Reid Select Black Phenolic Four Lobed Brass Insert Inch

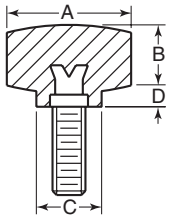




Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-75	.98	.75	.63	.16	¼-20	.39
RST-76	1.26	.87	.71	.16	¼-20	.39
RST-77	1.57	1.06	.83	.22	5⁄16-18	.55
RST-78	1.97	1.26	.91	.25	5⁄16-18	.55
RST-79	1.97	1.26	.91	.25	⅜-16	.55
RST-80	1.97	1.26	.91	.25	½-13	.75

Reid Select Black Phenolic Four Lobed Plated Steel Stud Inch

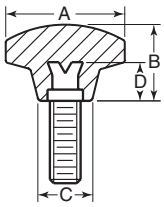




Item No.	A	B	C	D	Stud Thread	Stud Length
RST-81	.98	.75	.63	.16	¼-20	.75
RST-82	1.26	.87	.71	.16	¼-20	.75
RST-83	1.26	.87	.71	.16	¼-20	1.00
RST-85	1.57	1.06	.83	.22	5⁄16-18	1.00
RST-86	1.57	1.06	.83	.22	5⁄16-18	1.50
RST-87	1.97	1.26	.91	.25	⅜-16	1.50
RST-89	1.97	1.26	.91	.25	½-13	1.50
RST-90	1.97	1.26	.91	.25	½-13	2.00

Reid Select Black Phenolic Four Lobed Plated Steel Stud Inch

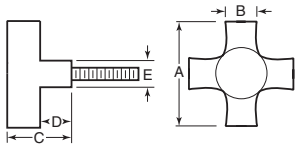




Item No.	A	B	C	D	Stud Thread	Stud Length
RST-98	.79	.55	.39	.28	10-24	.75
RST-99	1.26	.79	.55	.35	¼-20	1.00
RST-100	1.57	1.02	.71	.56	5⁄16-18	1.25
RST-101	1.57	1.02	.71	.56	¼-20	1.25
RST-102	1.97	1.26	.87	.73	⅜-16	1.50
RST-103	1.97	1.26	.87	.73	5⁄16-18	1.50
RST-104	2.48	1.50	1.02	.84	½-13	1.75
RST-105	2.48	1.50	1.02	.84	⅜-16	1.75
RST-106	3.15	1.97	1.26	1.20	½-13	2.00

Black Nylon Four Lobed Plated Steel Stud Inch





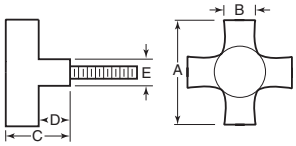
Excellent gripping action. Widely used for machines, components, clamping and consumer products.

Item No.	A	B	C	D	E	Stud Thread	Stud Length
DK-1197	1¾	¼	1	7⁄16	¾	¼-20	½
DK-1198	1¾	¼	1	7⁄16	¾	5⁄16-18	½
DK-1199	1¾	¼	1	7⁄16	¾	⅜-16	½
DK-1200	2¼	¼	1	7⁄16	1	5⁄16-18	½
DK-1201	2¼	¼	1	7⁄16	1	⅜-16	½
DK-1202	2¼	¼	1	7⁄16	1	⅜-16	1½

DimcoGray Black Phenolic Four Lobed Plated Steel or Stainless Stud Inch

STAINLESS STEEL OPTION AVAILABLE

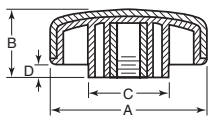




Steel Item No.	Stainless Item No.	A	B	C	D	E	Stud Thread	Stud Length
DK-665	—	1¼	¼	⅞	⅜	⅝	10-24	¾
DK-670	—	1¼	¼	⅞	⅜	⅝	10-32	¾
DK-85	DKS-85	1¼	¼	⅞	⅜	⅝	¼-20	1
DK-86	DKS-86	1¼	¼	⅞	⅜	⅝	5⁄16-18	1
DK-675	—	1¾	¼	1	½	13⁄16	¼-20	1
DK-680	—	1¾	¼	1	½	13⁄16	5⁄16-18	1
DK-685	—	1¾	¼	1	½	13⁄16	5⁄16-18	2
DK-690	—	1¾	¼	1	½	13⁄16	⅜-16	1
DK-695	—	1¾	¼	1	½	13⁄16	⅜-16	2
DK-96	DKS-96	2¼	5⁄16	1⅛	9⁄16	1	⅜-16	1
DK-97	DKS-97	2¼	5⁄16	1⅛	9⁄16	1	⅜-16	1½
DK-98	DKS-98	2¼	5⁄16	1⅛	9⁄16	1	⅜-16	2
DK-705	—	2¼	5⁄16	1⅛	9⁄16	1	⅜-16	2½
DK-139	—	2¼	5⁄16	1⅛	9⁄16	1	½-13	1
DK-710	—	2¼	5⁄16	1⅛	9⁄16	1	½-13	1½
DK-140	—	2¼	5⁄16	1⅛	9⁄16	1	½-13	2
DK-715	—	2¼	5⁄16	1⅛	9⁄16	1	½-13	2½

Black Thermoplastic Four Lobed Soft Touch Zinc Plated Brass Insert Inch

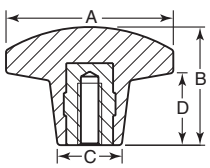




Item No.	A	B	C	D	Insert Thread	Insert Depth
RK-5	2.50	1.09	1.25	.18	¼-20	½
RK-15	2.50	1.09	1.25	.18	⅜-16	½
RK-20	2.50	1.09	1.25	.18	½-13	⅝
RK-30	3.00	1.31	1.50	.20	5⁄16-18	½
RK-35	3.00	1.31	1.50	.20	⅜-16	½
RK-40	3.00	1.31	1.50	.20	½-13	⅝

Reid Select Black Phenolic Four Lobed Brass Insert Inch





Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-91	.79	.55	.39	.28	8-32	.31
RST-92	.79	.55	.39	.28	10-24	.35
RST-93	1.26	.79	.55	.35	¼-20	.39
RST-94	1.57	1.02	.71	.56	5⁄16-18	.55
RST-95	1.97	1.26	.87	.73	⅜-16	.55
RST-96	2.48	1.50	1.02	.84	½-13	.75
RST-97	3.15	1.97	1.26	1.20	½-13	.75

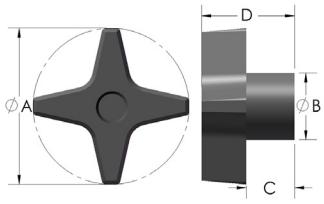
Reid Offers Many Tru Hole Knobs With Different Lobe Configurations

Customer Service: (800) 253-0421 • (231) 777-3951

LOBED / ARM / PRONG / STAR KNOBS

Reid Select
Black Polypropylene
Four Lobed
Steel or Brass Insert
Inch

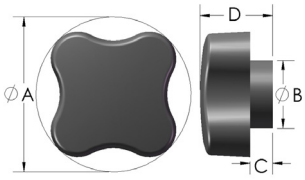




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-590	1.400	.550	.180	.640	Blind Hole	Steel	10-32
ICK-595	1.400	.550	.180	.640	Blind Hole	Brass	1/4-20
ICK-600	1.400	.550	.180	.640	Blind Hole	Steel	1/4-20
ICK-605	1.730	.750	.250	.820	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-610	1.730	.750	.250	.820	Blind Hole	Steel	5/16-18

Reid Select
Black Polypropylene
Four Lobed
Steel or Brass Stud
Inch

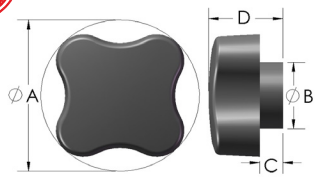




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-105	1.150	.500	.250	.650	3.250	Steel	10-24
ICK-110	1.150	.500	.250	.650	.620	Brass	1/4-20

Reid Select
Black Soft Touch TPE (Overmold), Polypropylene (Base)
Four Lobed
Steel Stud
Inch

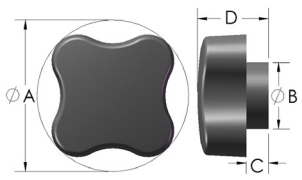




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-60	1.400	.550	.180	.640	.630	Steel	1/4-20
ICK-65	1.400	.550	.180	.640	.500	Steel	10-32
ICK-70	1.400	.550	.180	.640	.750	Steel	10-32
ICK-75	1.730	.750	.250	.820	.750	Steel	10-32
ICK-80	1.400	.550	.180	.640	.370	Steel	1/4-20
ICK-85	1.400	.550	.180	.640	1.250	Steel	1/4-20
ICK-90	1.730	.750	.250	.820	.500	Steel	5/16-18
ICK-95	1.730	.750	.250	.820	.750	Steel	5/16-18
ICK-100	1.730	.750	.250	.820	2.500	Steel	5/16-18

Reid Select
Black Polypropylene
Four Lobed
Steel Stud
Inch





Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-310	1.400	.550	.180	.640	.370	Steel	1/4-20
ICK-315	1.400	.550	.180	.640	2.000	Steel	5/16-18



Ask Us About Colors and Customizing

Customize your plastic knobs and molded parts to fit YOUR PROJECT NEEDS.

CALL OR EMAIL US FOR A QUOTE

- **Pad Printing**
- **Logo Printing**
- **Embedded Characters**
- **Raised Characters/Lettering**
- **Customize any Color in the PMS Chart**

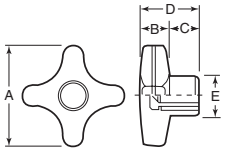
Ask Us About Heat Resistant Materials Available

LOBED / ARM / PRONG / STAR KNOBS

These knobs are made of thermoplastic with a black matte finish. There are no cavities. Recommended for use in the food processing industry, as no contaminants can collect. Knobs are durable. They will not chip or crack and are resistant to high temperatures making them an excellent choice for lighting equipment, machinery, etc.

Reid Select Black Thermoplastic Four Lobed Blind Hole Brass or Stainless Insert Inch

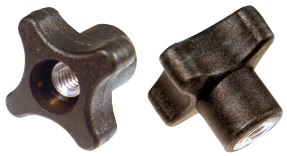


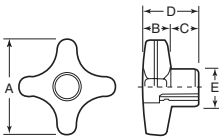


Brass Item No.	Stainless Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-101	—	1.26	.43	.47	.91	.59	10-24	.280
JCL-102	JCL-204	1.26	.43	.47	.91	.59	¼-20	.375
JCL-103	JCL-206	1.26	.43	.47	.91	.59	5/16-18	.469
JCL-104	JCL-207	1.58	.45	.49	.95	.63	¼-20	.375
JCL-106	JCL-208	1.58	.45	.49	.95	.63	5/16-18	.469
JCL-107	JCL-209	1.58	.45	.49	.95	.63	⅜-16	.563
JCL-108	JCL-211	1.97	.55	.57	1.12	.79	5/16-18	.469
JCL-109	JCL-212	1.97	.55	.57	1.12	.79	⅜-16	.563
JCL-111	JCL-213	1.97	.55	.57	1.12	.79	½-13	.750
JCL-112	JCL-214	2.36	.59	.71	1.30	.95	5/16-18	.469
JCL-113	JCL-216	2.36	.59	.71	1.30	.95	⅜-16	.563
JCL-114	JCL-217	2.36	.59	.71	1.30	.95	½-13	.750

Reid Select Black Thermoplastic Four Lobed Thru Hole Brass or Stainless Insert Inch

STAINLESS STEEL OPTION AVAILABLE



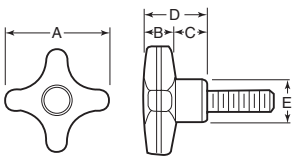


Brass Item No.	Stainless Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-116	JCL-218	1.26	.43	.47	.91	.59	¼-20	.375
JCL-117	JCL-219	1.58	.45	.49	.95	.63	¼-20	.375
JCL-118	JCL-221	1.58	.45	.49	.95	.63	5/16-18	.469
JCL-119	JCL-222	1.97	.55	.57	1.12	.79	5/16-18	.469
JCL-121	JCL-223	1.97	.55	.57	1.12	.79	⅜-16	.563
JCL-122	JCL-224	2.36	.59	.71	1.30	.95	⅜-16	.563
JCL-123	JCL-226	2.36	.59	.71	1.30	.95	½-13	.750

Reid Select Black Thermoplastic Four Lobed Plated Steel or Stainless Stud Inch

STAINLESS STEEL OPTION AVAILABLE

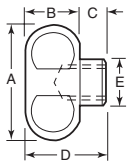




Steel Item No.	Stainless Item No.	A	B	C	D	E	Stud Thread	Stud Length
JCL-124	JCL-227	1.26	.43	.47	.91	.59	¼-20	.51
JCL-126	—	1.26	.43	.47	.91	.59	¼-20	.98
JCL-127	JCL-229	1.58	.45	.49	.95	.63	¼-20	.98
—	JCL-231	1.58	.45	.49	.95	.63	5/16-18	.75
JCL-128	—	1.58	.45	.49	.95	.63	5/16-18	.79
JCL-129	JCL-232	1.58	.45	.49	.95	.63	5/16-18	.98
JCL-131	JCL-233	1.97	.55	.57	1.12	.79	5/16-18	.98
JCL-132	—	1.97	.55	.57	1.12	.79	5/16-18	1.18
—	JCL-234	1.97	.55	.57	1.12	.79	5/16-18	1.25
JCL-133	JCL-236	1.97	.55	.57	1.12	.79	⅜-16	.98
JCL-134	—	1.97	.55	.57	1.12	.79	⅜-16	1.38
—	JCL-237	1.97	.55	.57	1.12	.79	⅜-16	1.50
JCL-136	JCL-238	2.36	.59	.71	1.30	.95	⅜-16	.98
JCL-137	—	2.36	.59	.71	1.30	.95	⅜-16	1.38
—	JCL-239	2.36	.59	.71	1.30	.95	⅜-16	1.50
JCL-138	JCL-241	2.36	.59	.71	1.30	.95	½-13	.98
JCL-139	—	2.36	.59	.71	1.30	.95	½-13	1.38
—	JCL-242	2.36	.59	.71	1.30	.95	½-13	1.50

Reid Select Black Thermoplastic Four Lobed Blind Hole Brass Insert Inch

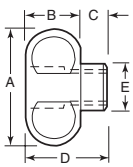




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-55	.79	.31	.20	.51	.43	10-24	.28
JCL-60	.79	.31	.20	.51	.43	10-32	.28
JCL-65	.79	.31	.20	.51	.43	¼-20	.38
JCL-70	.98	.35	.24	.59	.47	10-24	.28
JCL-80	.98	.35	.24	.59	.47	¼-20	.38
JCL-85	1.18	.55	.31	.87	.59	¼-20	.38
JCL-90	1.57	.75	.35	1.10	.63	¼-20	.38
JCL-95	1.57	.75	.35	1.10	.63	5/16-18	.47
JCL-100	1.97	.87	.39	1.26	.79	5/16-18	.47
JCL-105	1.97	.87	.39	1.26	.79	⅜-16	.56
JCL-110	2.36	.94	.55	1.50	.91	⅜-16	.56
JCL-115	2.36	.94	.55	1.50	.91	½-13	.75
JCL-125	3.15	.91	.71	1.61	1.22	⅝-11	.94
JCL-120	3.15	.91	.71	1.61	1.22	½-13	.75

Reid Select Black Thermoplastic Four Lobed Thru Hole Brass Insert Inch

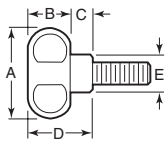




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-130	.79	.31	.20	.51	.43	10-24	.28
JCL-135	.79	.31	.20	.51	.43	10-32	.28
JCL-140	.79	.31	.20	.51	.43	¼-20	.38
JCL-145	.98	.35	.24	.59	.47	¼-20	.38
JCL-150	1.18	.55	.31	.87	.59	¼-20	.38
JCL-155	1.57	.75	.35	1.10	.63	5/16-18	.47
JCL-160	1.97	.87	.39	1.26	.79	5/16-18	.47
JCL-165	1.97	.87	.39	1.26	.79	⅜-16	.56
JCL-170	2.36	.94	.55	1.50	.91	⅜-16	.56
JCL-175	2.36	.94	.55	1.50	.91	½-13	.75
JCL-180	3.15	.91	.71	1.61	1.22	½-13	.75
JCL-185	3.15	.91	.71	1.61	1.22	⅝-11	.94

Reid Select Black Thermoplastic Four Lobed Plated Steel Stud Inch





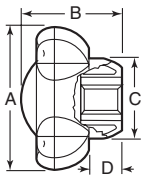
Item No.	A	B	C	D	E	Stud Thread	Stud Length
JCL-190	.79	.31	.20	.51	.43	¼-20	.51
JCL-195	.79	.31	.20	.51	.43	¼-20	.98
JCL-200	.98	.35	.24	.59	.47	¼-20	.51
JCL-205	.98	.35	.24	.59	.47	¼-20	.98
JCL-210	1.18	.55	.31	.87	.59	¼-20	.51
JCL-215	1.18	.55	.31	.87	.59	¼-20	.98
JCL-220	1.57	.75	.35	1.10	.63	¼-20	.98
JCL-225	1.57	.75	.35	1.10	.63	5/16-18	.98
JCL-230	1.97	.87	.39	1.26	.79	5/16-18	.98
JCL-235	1.97	.87	.39	1.26	.79	⅜-16	.98
JCL-240	2.36	.94	.55	1.50	.91	⅜-16	.98
JCL-245	2.36	.94	.55	1.50	.91	½-13	.98
JCL-250	3.15	.91	.71	1.61	1.22	⅜-16	.98
JCL-255	3.15	.91	.71	1.61	1.22	½-13	1.18
JCL-260	3.15	.90	.71	1.61	1.22	½-13	1.38
JCL-265	3.15	.90	.71	1.61	1.22	⅝-11	1.18
JCL-270	3.15	.90	.71	1.61	1.22	⅝-11	1.38

LOBED / ARM / PRONG / STAR KNOBS

KIPP
Black Thermoplastic
Five Lobed Novo-Grip®
Plated Steel or Stainless Insert
Inch

STAINLESS STEEL OPTION AVAILABLE



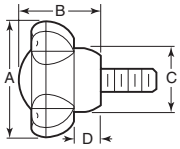


Steel Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
—	KBP-332	1.97	1.37	1.11	.45	5/16-18	.55
KBP-327	KBP-333	1.97	1.37	1.11	.45	3/8-16	.55
KBP-328	—	1.97	1.37	1.11	.45	1/2-13	.71
KBP-329	KBP-335	2.48	1.73	1.4	.57	3/8-16	.55
KBP-330	—	2.48	1.73	1.4	.57	1/2-13	.71
KBP-331	—	2.48	1.73	1.4	.57	5/8-11	.71

KIPP
Black Thermoplastic
Five Lobed Novo-Grip®
Plated Steel or Stainless Stud
Inch

STAINLESS STEEL OPTION AVAILABLE

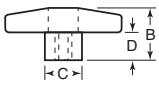


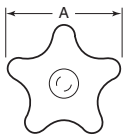


Steel Item No.	Stainless Item No.	A	B	C	D	Stud Thread	Stud Length
KBP-337	—	1.97	1.37	1.11	.45	3/8-16	.79
—	KBP-347	2.48	1.73	1.4	.57	3/8-16	.79
KBP-342	KBP-348	2.48	1.73	1.4	.57	3/8-16	1.57
KBP-343	—	2.48	1.73	1.4	.57	1/2-13	1.18
KBP-344	—	2.48	1.73	1.4	.57	1/2-13	2.36

Black Polypropylene
Five Lobed Thru Hole
Steel Insert with Knob-Lok
Inch





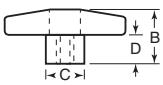


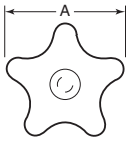
Unique Knob-Lok features a nylon locking element that resists vibration and prevents back off. It also allows for consistent installation torque and precise adjustments. No tools needed for safe and sure fastening.

Item No.	A	B	C	D	Insert Thread	Insert Depth
KLK-70	2¼	1	⅞	½	¼-20	.44
KLK-75	2¼	1	⅞	½	5/16-18	.47
KLK-80	2¼	1	⅞	½	⅜-16	.58

Black Polypropylene
Five Lobed Thru Hole
Zinc Plated Steel Hex Nut
Inch





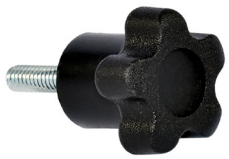


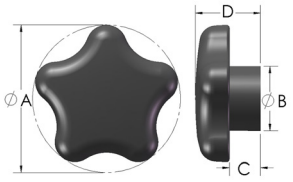
Item No.	A	B	C	D	Thread
DK-184	2¼	23/32	27/32	¼	¼-20
DK-185	2¼	23/32	27/32	¼	5/16-18
DK-186	2¼	23/32	27/32	¼	⅜-16

Ask Us About Bulk Pricing!

Reid Select
Black Polypropylene
Five Lobed
Steel Stud
Inch

NEW PRODUCT

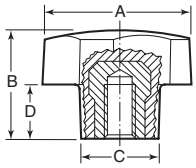




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-375	1.380	.860	.700	1.150	1.000	Steel	1/4-20
ICK-380	1.380	.860	.700	1.150	1.500	Steel	5/16-18
ICK-385	1.380	.860	.700	1.150	.500	Steel	1/4-20

KIPP
Black Phenolic
Five Lobed
Steel or Brass Insert
Metric



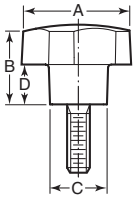


Item No.	A	B	C	D	Insert Thread	Insert Depth
KPB-1028*	32	22.4	16	11.2	M6 x 1.00	9
KPB-1029	40	28	20	14	M6 x 1.00	12
KPB-1030	40	28	20	14	M8 x 1.25	14
KPB-1031	40	28	20	14	M10 x 1.50	14
KPB-1032	50	35	25	17.5	M8 x 1.25	14
KPB-1033	50	35	25	17.5	M10 x 1.50	14

*Brass Insert

KIPP
Black Phenolic
Five Lobed
Steel Stud
Metric



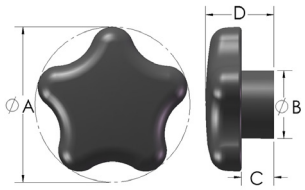


Item No.	A	B	C	D	Stud Thread	Stud Length
KPB-1034	32	22.4	16	11.2	M6 x 1.00	12
KPB-1035	32	22.4	16	11.2	M6 x 1.00	18
KPB-1036	32	22.4	16	11.2	M8 x 1.25	16
KPB-1038	32	22.4	16	11.2	M8 x 1.25	24
KPB-1040	40	28	20	14	M6 x 1.00	18
KPB-1041	40	28	20	14	M8 x 1.25	16
KPB-1042	40	28	20	14	M8 x 1.25	20
KPB-1043	40	28	20	14	M8 x 1.25	24
KPB-1046	50	35	25	17.5	M8 x 1.25	16
KPB-1047	50	35	25	17.5	M8 x 1.25	24
KPB-1049	50	35	25	17.5	M10 x 1.50	30

LOBED / ARM / PRONG / STAR KNOBS

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

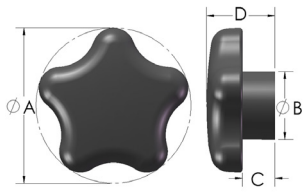




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-195	1.380	.860	.700	1.150	Thru-Hole	Steel	1/4-20
ICK-200	1.380	.860	.700	1.150	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-205	1.380	.860	.700	1.150	Thru-Hole (Stop Nut)	Steel	5/16-18

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

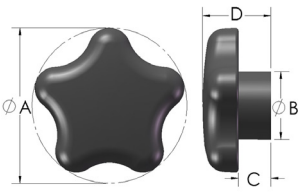




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-210	1.380	.860	.700	1.200	Blind Hole	Steel	1/4-20
ICK-215	1.380	.860	.700	1.200	Blind Hole	Steel	5/16-18

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

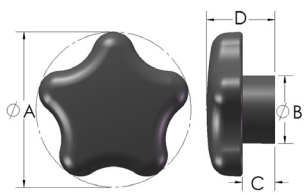




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-220	1.750	.880	.720	1.170	Thru-Hole	Steel	1/4-20
ICK-225	1.750	.880	.750	1.250	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-230	1.750	.880	.720	1.170	Thru-Hole	Steel	5/16-18
ICK-235	1.750	.880	.750	1.250	Thru-Hole (Stop Nut)	Steel	5/16-18

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

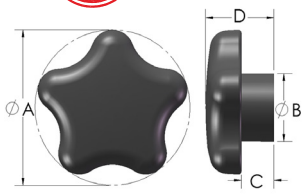




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-240	1.750	.880	.720	1.250	Blind Hole	Steel	1/4-20
ICK-245	1.750	.880	.750	1.250	Blind Hole	Steel	5/16-18

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

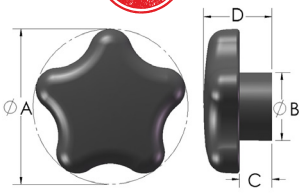




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-250	2.250	.980	.120	.610	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-255	2.250	.980	.120	.610	Thru-Hole	Steel	1/4-20

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

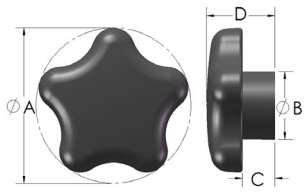




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-260	2.250	.980	.470	1.000	Thru-Hole	Steel	1/4-20
ICK-265	2.250	.980	.120	.610	Thru-Hole	Steel	5/16-18
ICK-270	2.250	.980	.470	1.000	Thru-Hole	Steel	5/16-18
ICK-275	2.250	.980	.560	1.060	Thru-Hole (Stop Nut)	Steel	5/16-18
ICK-280	2.250	.980	.120	.610	Thru-Hole	Steel	3/8-16
ICK-285	2.250	.980	.250	.730	Thru-Hole	Steel	3/8-16
ICK-290	2.250	.980	.470	1.000	Thru-Hole (Stop Nut)	Steel	3/8-16

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch

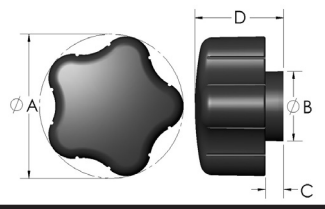




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-295	2.250	.980	.470	1.000	Blind Hole	Steel	1/4-20
ICK-300	2.250	.980	.470	1.000	Blind Hole	Steel	5/16-18
ICK-305	2.250	.980	.470	1.000	Blind Hole	Steel	3/8-16

Reid Select
Black Polypropylene
Five Lobed
Steel Insert
Inch



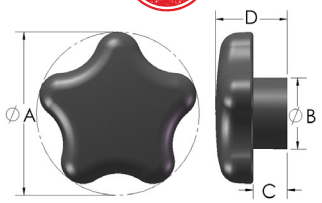


Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-790	1.570	.700	.250	1.130	Blind Hole	Steel	5/16-18
ICK-795	1.570	.700	.250	1.130	Blind Hole	Steel	3/8-16
ICK-800	1.890	.980	.250	1.220	Blind Hole	Steel	3/8-16
ICK-805	1.890	.980	.250	1.220	Blind Hole	Steel	1/2-13

LOBED / ARM / PRONG / STAR KNOBS

Reid Select Black Polypropylene Five Lobed Steel Stud Inch

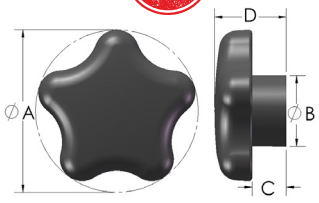




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-425	2.250	.980	.120	.610	1.000	Steel	1/4-20
ICK-430	2.250	.980	.120	.610	1.500	Steel	1/4-20
ICK-435	2.250	.980	.120	.610	1.750	Steel	1/4-20
ICK-440	2.250	.980	.120	.610	1.000	Steel	5/16-18
ICK-445	2.250	.980	.120	.610	1.500	Steel	5/16-18
ICK-450	2.250	.980	.120	.610	.620	Steel	1/4-20
ICK-455	2.250	.980	.120	.610	.750	Steel	5/16-18

Reid Select Black Polypropylene Five Lobed Steel Stud Inch

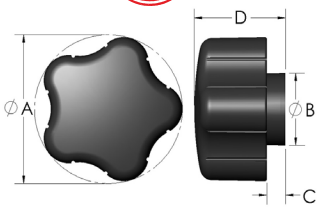




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-635	2.250	.980	.120	.610	1.000	Steel	3/8-16
ICK-640	2.250	.980	.470	1.000	1.000	Steel	3/8-16
ICK-645	2.250	.980	.120	.610	1.500	Steel	3/8-16
ICK-650	2.250	.980	.470	1.000	2.000	Steel	5/16-18
ICK-655	2.250	.980	.470	1.000	4.000	Steel	5/16-18
ICK-660	2.250	.980	.470	1.000	4.000	Steel	3/8-16
ICK-665	2.250	.980	.470	1.000	1.000	Steel	1/2-13
ICK-670	2.250	.980	.470	1.000	1.500	Steel	1/2-13
ICK-675	2.250	.980	.470	1.000	2.200	Steel	1/2-13

Reid Select Black Polypropylene Five Lobed Steel Insert Inch

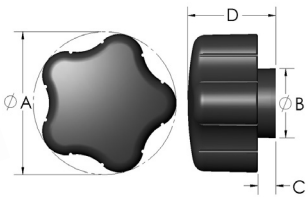




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-680	1.310	.700	.250	1.050	Thru-Hole	Steel	1/4-20

Reid Select Black Polypropylene Five Lobed Steel Insert Inch

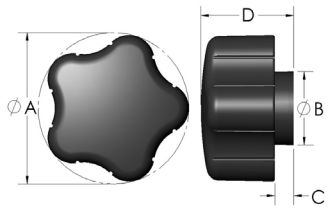




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-685	1.310	.700	.250	1.050	Blind Hole	Steel	1/4-20
ICK-690	1.310	.700	.250	1.050	Blind Hole	Steel	5/16-18

Reid Select Black Polypropylene Five Lobed Steel Insert Inch

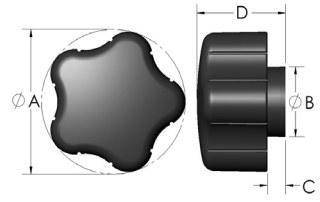




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-695	1.570	.740	.250	1.150	Blind Hole	Steel	1/4-20
ICK-700	1.570	.740	.250	1.150	Blind Hole	Steel	5/16-18
ICK-705	1.890	1.000	.180	1.170	Blind Hole	Steel	5/16-18
ICK-710	1.890	1.000	.180	1.170	Blind Hole	Steel	3/8-16
ICK-715	1.890	1.000	.180	1.170	Blind Hole	Steel	1/4-20

Reid Select Black Polypropylene Five Lobed Steel Stud Inch

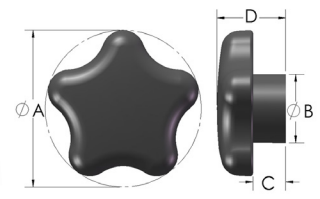




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-720	1.570	.740	.250	1.150	.750	Steel	1/4-20
ICK-725	1.570	.740	.250	1.150	1.000	Steel	1/4-20
ICK-730	1.890	1.000	.180	1.170	1.000	Steel	1/4-20
ICK-735	1.570	.740	.250	1.150	1.000	Steel	5/16-18
ICK-740	1.890	1.000	.180	1.170	1.000	Steel	5/16-18
ICK-745	1.890	1.000	.180	1.170	1.750	Steel	5/16-18
ICK-750	1.890	1.000	.180	1.170	2.250	Steel	3/8-16
ICK-755	1.570	.740	.250	1.150	.500	Steel	1/4-20
ICK-760	1.890	1.000	.180	1.170	1.250	Steel	5/16-18
ICK-765	1.890	1.000	.180	1.170	2.000	Steel	5/16-18
ICK-770	1.890	1.000	.180	1.170	2.250	Steel	5/16-18
ICK-775	1.890	1.000	.180	1.170	.750	Steel	3/8-16
ICK-780	1.890	1.000	.180	1.170	1.000	Steel	3/8-16
ICK-785	1.890	1.000	.180	1.170	1.250	Steel	3/8-16

Reid Select Black Polypropylene Five Lobed Steel Stud Inch

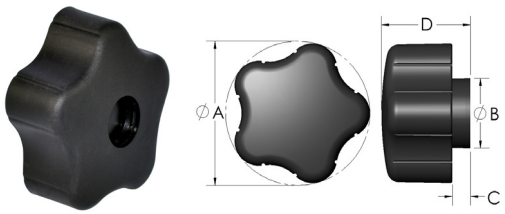




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-390	1.750	.880	.750	1.250	.750	Steel	1/4-20
ICK-395	1.750	.880	.750	1.250	1.000	Steel	1/4-20
ICK-400	1.750	.880	.750	1.250	1.500	Steel	1/4-20
ICK-405	1.750	.880	.750	1.250	2.000	Steel	5/16-18
ICK-410	1.750	.880	.750	1.250	.500	Steel	1/4-20
ICK-415	1.750	.880	.490	.990	1.000	Steel	5/16-18
ICK-420	1.750	.880	.750	1.250	2.500	Steel	5/16-18

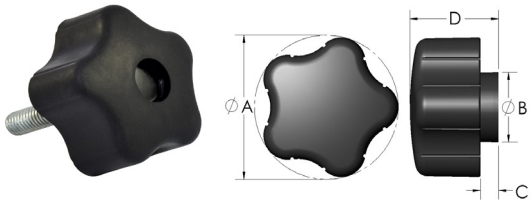
LOBED / ARM / PRONG / STAR KNOBS

Reid Select Black Polypropylene Five Lobed Steel Insert Inch



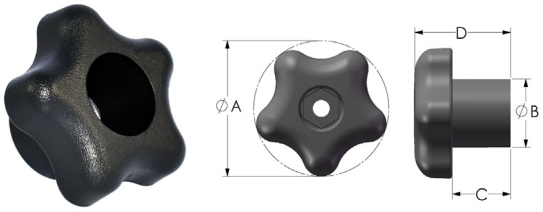
Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-810	2.420	1.000	.200	1.260	Blind Hole	Steel	3/8-16
ICK-815	2.420	1.000	.200	1.260	Blind Hole	Steel	1/2-13

Reid Select Black Polypropylene Five Lobed Steel Stud Inch



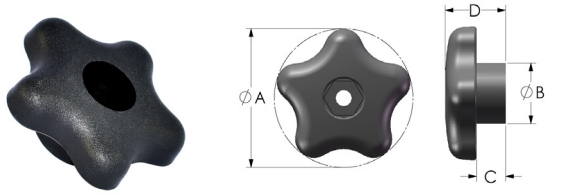
Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-820	2.420	1.000	.200	1.260	1.500	Steel	3/8-16
ICK-825	2.420	1.000	.180	1.260	1.250	Steel	1/2-13
ICK-830	2.420	1.000	.200	1.260	3.000	Steel	3/8-16
ICK-835	2.420	1.000	.200	1.260	1.500	Steel	3/8-16

Reid Select Black Polypropylene Five Lobed Press Fit Inch or Metric



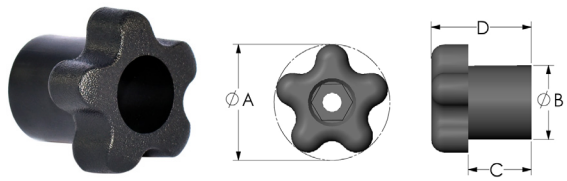
Item No.	A	B	C	D	Compatible Thread Size
ICK-2555	1.750	.880	.750	1.250	1/4-20;1/4-28
ICK-2560	1.750	.880	.750	1.250	5/16-18;5/16-24
ICK-2565	1.750	.880	.750	1.250	3/8-16 ;3/8-24
ICK-2570	1.750	.880	.750	1.250	M8
ICK-2575	1.750	.880	.750	1.250	M10
ICK-2580	1.750	.880	.750	1.250	M6

Reid Select Black Polypropylene Five Lobed Press Fit Inch or Metric



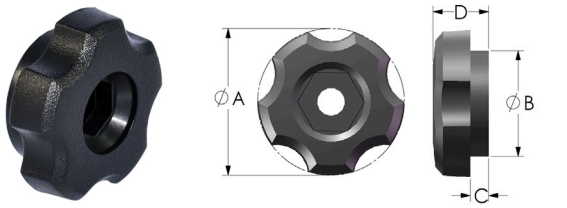
Item No.	A	B	C	D	Compatible Thread Size
ICK-2585	2.250	.990	.470	.980	1/4-20;1/4-28
ICK-2590	2.250	.990	.470	.980	5/16-18;5/16-24
ICK-2595	2.250	.990	.470	.980	3/8-16;3/8-24
ICK-2600	2.250	.990	.470	.980	M6
ICK-2605	2.250	.990	.470	.980	M8
ICK-2610	2.250	.990	.470	.980	M10

Reid Select Black Polypropylene Five Lobed Press Fit Inch or Metric



Item No.	A	B	C	D	Compatible Thread Size
ICK-2715	1.380	.850	.700	1.150	10-32;10-24
ICK-2720	1.380	.850	.700	1.150	1/4-20;1/4-28
ICK-2725	1.380	.850	.700	1.150	5/16-18;5/16-24
ICK-2730	1.380	.850	.700	1.150	M6
ICK-2735	1.380	.850	.700	1.150	M8

Reid Select Black Polypropylene Five Lobed Press Fit Inch or Metric



Item No.	A	B	C	D	Compatible Thread Size
ICK-2740	1.750	1.250	.280	.860	5/16-18;5/16-24
ICK-2745	1.750	1.250	.280	.860	3/8-16;3/8-24
ICK-2750	1.380	.980	.170	.590	M6
ICK-2755	1.750	1.250	.280	.860	M8
ICK-2760	1.750	1.250	.280	.860	M10
ICK-2765	1.380	.980	.170	.590	10-32;10-24
ICK-2770	1.380	.980	.170	.590	1/4-20;1/4-28

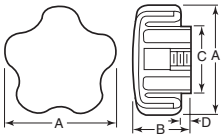
Ask Us About Bulk Pricing!

LOBED / ARM / PRONG / STAR KNOBS

These "soft touch" knobs offer unique styling and rugged construction along with a soft feel. They are molded with a soft thermoplastic rubber shell around a tough thermoplastic body. The soft feel of the knurling provides a sure grip and a rich, pleasant touch.

Black Thermoplastic
Five Lobed Blind Hole Soft Touch
Plated Brass Insert
Inch

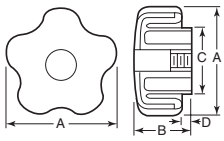




Item No.	A	B	C	D	Insert Thread	Insert Depth
RK-56	1.52	1.09	.69	.18	¼-20	.50
RK-57	1.52	1.09	.69	.18	5/16-18	.50
RK-58	1.52	1.09	.69	.18	⅜-16	.50
RK-59	1.91	1.09	.93	.17	¼-20	.50
RK-60	1.91	1.09	.93	.17	5/16-18	.50
RK-61	1.91	1.09	.93	.17	⅜-16	.50
RK-63	2.26	1.09	1.25	.16	¼-20	.50
RK-64	2.26	1.09	1.25	.16	5/16-18	.50
RK-65	2.26	1.09	1.25	.16	⅜-16	.50
RK-66	2.26	1.09	1.25	.16	½-13	.50

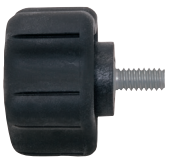
Black Thermoplastic
Five Lobed Thru Hole Soft Touch
Plated Brass Insert
Inch

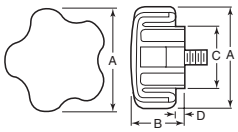




Item No.	A	B	C	D	Thread
RK-1	1.52	1.09	.69	.18	¼-20
RK-2	1.52	1.09	.69	.18	5/16-18
RK-3	1.52	1.09	.69	.18	⅜-16
RK-4	1.91	1.09	.93	.17	¼-20
RK-6	1.91	1.09	.93	.17	5/16-18
RK-7	1.91	1.09	.93	.17	⅜-16
RK-8	1.91	1.09	.93	.17	½-13
RK-9	2.26	1.09	1.25	.16	¼-20
RK-11	2.26	1.09	1.25	.16	5/16-18
RK-12	2.26	1.09	1.25	.16	⅜-16
RK-13	2.26	1.09	1.25	.16	½-13

Black Thermoplastic
Five Lobed Soft Touch
Plated Steel Stud
Inch



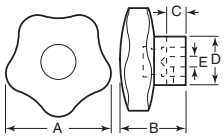


Item No.	A	B	C	D	Stud Thread	Stud Length
RK-67	1.52	1.09	.69	.18	¼-20	½
RK-68	1.52	1.09	.69	.18	¼-20	1
RK-69	1.52	1.09	.69	.18	5/16-18	1
RK-71	1.52	1.09	.69	.18	5/16-18	1½
RK-72	1.52	1.09	.69	.18	⅜-16	1
RK-73	1.52	1.09	.69	.18	⅜-16	1½
RK-74	1.91	1.09	.93	.17	¼-20	½
RK-75	1.91	1.09	.93	.17	¼-20	1
RK-76	1.91	1.09	.93	.17	5/16-18	1
RK-77	1.91	1.09	.93	.17	5/16-18	1½
RK-78	1.91	1.09	.93	.17	⅜-16	1
RK-79	1.91	1.09	.93	.17	⅜-16	1½
RK-80	2.25	1.09	1.25	.16	¼-20	½
RK-81	2.25	1.09	1.25	.16	¼-20	1
RK-82	2.25	1.09	1.25	.16	5/16-18	1
RK-84	2.25	1.09	1.25	.16	⅜-16	1
RK-85	2.25	1.09	1.25	.16	⅜-16	1½

Made of a high impact strength technopolymer. Black matte finish with a "soft-touch" feel.

ELESA
Black Plastic
Five Lobed Blind Hole Soft Touch
Brass Insert
Inch



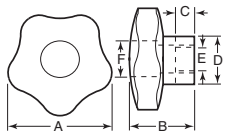


Item No.	A	B	C	D	E
KHY-100	.98	.75	.39	.51	10-32
KHY-105*	1.26	.91	.47	.59	¼
KHY-110	1.26	.91	.47	.59	¼-20
KHY-115*	1.57	1.06	.55	.67	¼
KHY-125	1.57	1.06	.71	.67	¼-20
KHY-130	1.57	1.06	.71	.67	5/16-18
KHY-140*	1.97	1.26	.63	.75	⅜
KHY-145	1.97	1.26	.79	.75	5/16-18
KHY-150	1.97	1.26	.79	.75	⅜-16
KHY-155*	2.48	1.46	.79	.87	⅜
KHY-160*	2.48	1.46	.79	.87	½
KHY-165	2.48	1.46	1.02	.87	⅜-16
KHY-170	2.48	1.46	1.02	.87	½-13

*Tapped for set screw

ELESA
Black Plastic
Five Lobed Thru Hole Soft Touch
Brass Insert
Inch

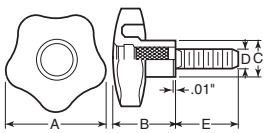




Item No.	A	B	C	D	E	F
KHY-175	1.26	.91	.47	.59	¼-20	.39
KHY-180	1.57	1.06	.71	.67	5/16-18	.47
KHY-185	1.97	1.26	.79	.75	⅜-16	.59
KHY-190	2.48	1.46	1.02	.87	⅜-16	.75
KHY-195	2.48	1.46	1.02	.87	½-13	.75

ELESA
Five Lobed Knobs
Black Plastic
Soft Touch
Plated Steel Stud
Inch





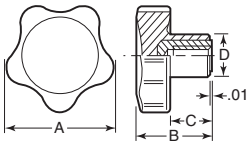
Item No.	A	B	C	D	E
KHY-200	.98	.75	.51	10-32	.50
KHY-205	.98	.75	.51	10-32	.75
KHY-210	1.26	.91	.59	¼-20	.50
KHY-215	1.26	.91	.59	¼-20	.75
KHY-220	1.26	.91	.59	¼-20	1.00
KHY-225	1.57	1.06	.67	¼-20	.50
KHY-230	1.57	1.06	.67	¼-20	1.00
KHY-235	1.57	1.06	.67	5/16-18	.75
KHY-240	1.57	1.06	.67	5/16-18	1.00
KHY-245	1.97	1.26	.75	5/16-18	1.00
KHY-250	1.97	1.26	.75	5/16-18	1.50
KHY-255	1.97	1.26	.75	⅜-16	1.00
KHY-260	1.97	1.26	.75	⅜-16	1.50
KHY-265	2.48	1.46	.87	⅜-16	1.25
KHY-270	2.48	1.46	.87	⅜-16	2.00
KHY-275	2.48	1.46	.87	½-13	1.50

LOBED / ARM / PRONG / STAR KNOBS

Made of special glass fiber reinforced technopolymer with matte finish. Solid design is for applications on machines and equipment that needs to be frequently cleaned.

ELESA
Black Plastic
Five Lobed
Brass Insert
Inch

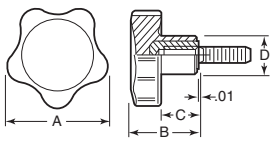




Item No.	A	B	C	D	Insert Thread	Insert Depth
KHY-520	1.26	.89	.49	.55	10-32	.39
KHY-525	1.26	.89	.49	.55	¼-20	.39
KHY-530	1.57	1.02	.55	.59	¼-20	.47
KHY-535	1.57	1.02	.55	.59	5/16-18	.47
KHY-540	1.97	1.22	.67	.70	5/16-18	.63
KHY-545	1.97	1.22	.67	.70	⅜-16	.63
KHY-550	2.36	1.46	.83	.83	½-13	.67

ELESA
Black Plastic
Five Lobed
Plated Steel Stud
Inch





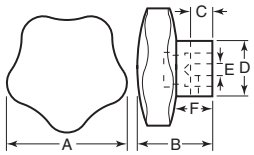
Item No.	A	B	C	D	Stud Thread	Stud Length
KHY-555	1.26	.89	.49	.55	¼-20	.75
KHY-560	1.26	.89	.49	.55	¼-20	1.00
KHY-565	1.57	1.02	.55	.59	5/16-18	.75
KHY-570	1.57	1.02	.55	.59	5/16-18	1.00
KHY-575	1.97	1.22	.67	.70	⅜-16	1.00
KHY-580	1.97	1.22	.67	.70	⅜-16	1.50
KHY-585	2.36	1.46	.83	.83	½-13	1.50

Made of tough, smooth plastic. This solid handle is highly polished with all parting lines removed. All inserts extend beyond the "B" dimension so any pressure is taken up by the insert and not the plastic surface.

ELESA
Black Phenolic
Five Lobed
Brass, Steel or Stainless Insert
Inch

STAINLESS STEEL OPTION AVAILABLE



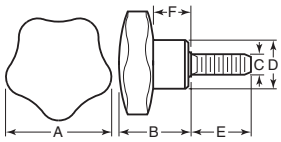


Item No.	A	B	C	D	E	F
Brass Insert						
KHY-5	1.26	.91	.39	.75	¼-20	.43
KHY-15	1.57	1.06	.47	.83	¼-20	.47
KHY-20	1.57	1.06	.51	.83	5/16-18	.47
KHY-25*	1.57	1.06	.55	.83	¼	.47
KHY-26*	1.57	1.06	.63	.83	5/16	.55
KHY-35	1.97	1.30	.71	.98	5/16-18	.55
KHY-40	1.97	1.30	.67	.98	⅜-16	.55
KHY-45*	1.97	1.30	.79	.98	5/16	.55
KHY-46*	1.97	1.30	.79	.98	⅜	.55
Steel Insert						
KHY-55	2.36	1.46	.67	1.06	⅜-16	.67
KHY-60	2.36	1.46	.79	1.06	½-13	.67
KHY-65*	2.36	1.46	.79	1.06	⅜	.67
KHY-70*	2.36	1.46	.99	1.06	½	.67
KHY-75	2.75	1.73	.79	1.18	½-13	.79
KHY-76*	2.75	1.73	.99	1.18	½	.79
KHY-85	3.34	2.16	.86	1.37	⅝-11	.118
Stainless Steel Insert						
KHY-350	1.26	.91	.39	.75	¼-20	.43
KHY-355	1.57	1.06	.51	.83	5/16-18	.47
KHY-360	1.97	1.30	.67	.98	⅜-16	.55

*Tapped for set screw

ELESA
Black Phenolic
Five Lobed
Stainless Steel Stud
Inch





Item No.	A	B	C	D	E	F
KHY-400	1.26	.91	¼-20	.75	.50	.43
KHY-405	1.26	.91	¼-20	.75	.75	.43
KHY-410	1.26	.91	¼-20	.75	1.00	.43
KHY-415	1.57	1.06	5/16-18	.83	.75	.47
KHY-420	1.57	1.06	5/16-18	.83	1.00	.47
KHY-425	1.57	1.06	5/16-18	.83	1.25	.47
KHY-430	1.97	1.30	⅜-16	.98	1.00	.55
KHY-435	1.97	1.30	⅜-16	.98	1.25	.55
KHY-440	1.97	1.30	⅜-16	.98	1.50	.55
KHY-445	1.97	1.30	⅜-16	.98	2.00	.55

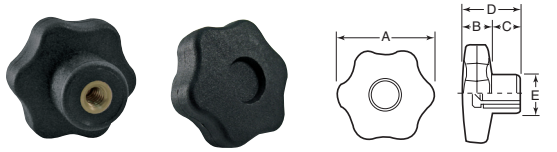
SAVE BIG STOCK UP!
Up To 75% Off
Discounted & Priced To Sell
CHECK OUT OUR CLEARANCE SECTION

LOBED / ARM / PRONG / STAR KNOBS

These knobs are made of thermoplastic with a black matte finish. There are no cavities. Recommended for use in the food processing industry, as no contaminants can collect. Knobs are durable. They will not chip or crack and are resistant to high temperatures making them an excellent choice for lighting equipment, machinery, etc.

Reid Supply Black Thermoplastic Six Lobed Brass or Stainless Steel Insert Inch

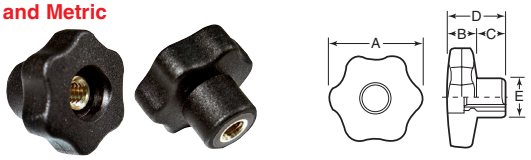
STAINLESS STEEL OPTION AVAILABLE



Brass Item No.	Stainless Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-61	—	1.18	.39	.39	.79	.59	10-24	.280
JCL-62	JCL-166	1.18	.39	.39	.79	.59	¼-20	.375
JCL-63	JCL-167	1.18	.39	.39	.79	.59	5/16-18	.469
JCL-64	JCL-168	1.58	.45	.49	.94	.67	¼-20	.375
JCL-66	JCL-169	1.58	.45	.49	.94	.67	5/16-18	.469
JCL-67	JCL-171	1.58	.45	.49	.94	.67	⅜-16	.563
JCL-68	JCL-172	1.97	.55	.57	1.12	.79	5/16-18	.469
JCL-69	JCL-173	1.97	.55	.57	1.12	.79	⅜-16	.563
JCL-71	JCL-174	1.97	.55	.57	1.12	.79	½-13	.750
JCL-72	JCL-176	2.36	.59	.71	1.30	.94	5/16-18	.469
JCL-73	JCL-177	2.36	.59	.71	1.30	.94	⅜-16	.563
JCL-74	JCL-178	2.36	.59	.71	1.30	.94	½-13	.750

Reid Supply Black Thermoplastic Six Lobed Brass or Stainless Steel Insert Inch and Metric

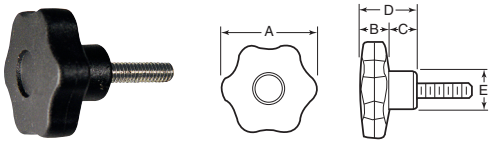
STAINLESS STEEL OPTION AVAILABLE



Brass Item No.	Stainless Item No.	A	B	C	D	E	Insert Thread	Insert Depth
Inch								
JCL-76	JCL-179	1.18	.39	.39	.79	.59	¼-20	.375
JCL-77	JCL-181	1.58	.45	.49	.94	.67	¼-20	.375
JCL-78	JCL-182	1.58	.45	.49	.94	.67	5/16-18	.469
JCL-79	JCL-183	1.97	.55	.57	1.12	.79	5/16-18	.469
JCL-81	JCL-184	1.97	.55	.57	1.12	.79	⅜-16	.563
JCL-82	JCL-186	2.36	.59	.71	1.30	.94	⅜-16	.563
JCL-83	JCL-187	2.36	.59	.71	1.30	.94	½-13	.750
Metric								
JCL-3505	JCL-3540	30	11	11.0	22.0	15	M6	18
JCL-3510	JCL-3545	40	12	12.5	24.5	17	M6	18
JCL-3515	JCL-3550	40	12	12.5	24.5	17	M8	18
JCL-3520	—	50	14	15.0	29.0	20	M8	18
JCL-3525	JCL-3560	50	14	15.0	29.0	20	M10	18
JCL-3535	—	60	16	18.0	34.0	24	M12	18

Reid Supply Black Thermoplastic Six Lobed Plated Steel or Stainless Steel Stud Inch

STAINLESS STEEL OPTION AVAILABLE



Steel Item No.	Stainless Item No.	A	B	C	D	E	Stud Thread	Stud Length
JCL-84	JCL-188	1.18	.39	.39	.79	.59	¼-20	.51
JCL-86	JCL-189	1.18	.39	.39	.79	.59	¼-20	.98
JCL-87	JCL-191	1.58	.45	.49	.94	.67	¼-20	.98
—	JCL-192	1.58	.45	.49	.94	.67	5/16-18	.75
JCL-88	—	1.58	.45	.49	.94	.67	5/16-18	.79
JCL-89	JCL-193	1.58	.45	.49	.94	.67	5/16-18	.98
JCL-91	JCL-194	1.97	.55	.57	1.12	.79	5/16-18	.98
JCL-92	—	1.97	.55	.57	1.12	.79	5/16-18	1.18
—	JCL-196	1.97	.55	.57	1.12	.79	5/16-18	1.25
JCL-93	JCL-197	1.97	.55	.57	1.12	.79	⅜-16	.98
—	JCL-198	1.97	.55	.57	1.12	.79	⅜-16	1.25
JCL-94	—	1.97	.55	.57	1.12	.79	⅜-16	1.38
JCL-96	JCL-199	2.36	.59	.71	1.10	.94	⅜-16	.98
—	JCL-201	2.36	.59	.71	1.10	.94	⅜-16	1.25
JCL-97	—	2.36	.59	.71	1.10	.94	⅜-16	1.38
JCL-98	JCL-202	2.36	.59	.71	1.10	.94	½-13	.98
—	JCL-203	2.36	.59	.71	1.10	.94	½-13	1.25
JCL-99	—	2.36	.59	.71	1.10	.94	½-13	1.38

Reid Supply Black Phenolic Six Lobed Brass Insert Inch



Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-51	.87	.75	.47	.39	¼-20	.39
RST-52	1.30	.91	.75	.39	5/16-18	.55
RST-53	1.30	.91	.75	.39	¼-20	.39
RST-54	1.73	1.06	.91	.39	5/16-18	.55
RST-55	1.73	1.06	.91	.39	⅜-16	.55
RST-56	2.17	1.30	.98	.43	⅜-16	.55
RST-57	2.17	1.30	.98	.43	½-13	.75
RST-58	2.60	1.65	1.18	.43	½-13	.75

Reid Supply Black Phenolic Six Lobed Plated Steel Stud Inch



Item No.	A	B	C	D	Stud Thread	Stud Length
RST-59	.87	.75	.47	.39	¼-20	.75
RST-60	1.30	.91	.75	.39	¼-20	.50
RST-61	1.30	.91	.75	.39	¼-20	.75
RST-62	1.30	.91	.75	.39	¼-20	1.00
RST-63	1.30	.91	.75	.39	5/16-18	.75
RST-64	1.30	.91	.75	.39	5/16-18	1.00
RST-65	1.30	.91	.75	.39	5/16-18	1.50
RST-66	1.73	1.06	.91	.39	⅜-16	1.00
RST-67	1.73	1.06	.91	.39	⅜-16	1.25
RST-68	1.73	1.06	.91	.39	⅜-16	1.75
RST-69	1.73	1.06	.91	.39	5/16-18	1.25
RST-70	2.17	1.30	.98	.43	½-13	1.50
RST-71	2.17	1.30	.98	.43	½-13	2.00
RST-72	2.17	1.30	.98	.43	⅜-16	1.50
RST-73	2.60	1.65	1.18	.63	½-13	1.50
RST-74	2.60	1.65	1.18	.63	½-13	2.00

Reid Supply Black Thermoplastic Six Lobed Brass Insert Inch



Item No.	A	B	C	D	Insert Thread	Insert Depth
RST-151	1.30	.87	.55	.43	¼-20	.39
RST-152	1.30	.87	.55	.43	5/16-18	.55

Reid Supply Black Thermoplastic Six Lobed Plated Steel Stud Inch

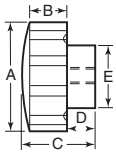


Item No.	A	B	C	D	Stud Thread	Stud Length
RST-153	1.30	.87	.55	.43	¼-20	1.25
RST-154	1.30	.87	.55	.43	5/16-18	1.75

LOBED / ARM / PRONG / STAR KNOBS

DimcoGray
Black Polypropylene
Six Lobed Blind Hole
Brass Insert
Inch

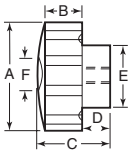




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-830	1½	½	1	⅜	¾	¼-20	⅝
DK-835	1½	½	1	⅜	¾	5/16-18	⅝
DK-840	1½	½	1	⅜	¾	⅜-16	⅝
DK-845	2 5/32	39/64	1⅛	⅜	¾	5/16-18	¾
DK-850	2 5/32	39/64	1⅛	⅜	¾	⅜-16	¾
DK-855	2 5/32	39/64	1⅛	⅜	¾	½-13	¾

DimcoGray
Black Polypropylene or Polyethylene
Six Lobed Thru Hole
Brass Insert
Inch



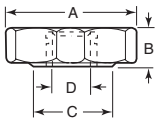


Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
DK-860	1½	½	1	⅜	¾	27/64	¼-20	⅝
DK-865	1½	½	1	⅜	¾	27/64	5/16-18	⅝
DK-870	1½	½	1	⅜	¾	27/64	⅜-16	⅝
DK-875*	2 5/32	19/32	1⅛	⅜	¾	27/64	¼-20	⅞
DK-880*	2 5/32	19/32	1⅛	⅜	¾	27/64	5/16-18	⅞
DK-885*	2 5/32	19/32	1⅛	⅜	¾	27/64	⅜-16	⅞

*Polyethylene

Reid Supply
Black Plastic
Six Lobed Thru Hole
Steel Insert
Inch

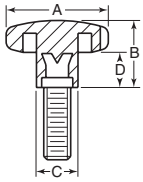




Item No.	A	B	C	D	Item No.	A	B	C	D
JCL-1380	1.57	.47	.91	¼-20	JCL-1400	1.97	.55	.98	¼-20
JCL-1385	1.57	.47	.91	5/16-18	JCL-1405	1.97	.55	.98	5/16-18
JCL-1390	1.57	.47	.91	⅜-16	JCL-1410	1.97	.55	.98	⅜-16
JCL-1395	1.57	.47	.91	½-13	JCL-1415	1.97	.55	.98	½-13

Reid Supply
Black Phenolic
Seven Lobed
Plated Steel Stud
Inch

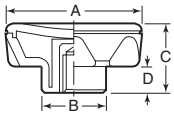




Item No.	A	B	C	D	Stud Thread	Stud Length
RST-47	1.26	.79	.51	.43	¼-20	1.25
RST-48	1.57	.98	.75	.55	5/16-18	1.50
RST-49	1.97	1.26	.79	.67	⅜-16	1.75
RST-50	2.48	1.57	.91	.98	½-13	2.00

ELESA
Black Technopolymer
Six Lobed Blind Hole
Tapped or Reamed
Brass Insert
Inch

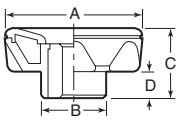




Item No.	A	B	C	D	Tapped or Reamed Hole Thread/Dia.	Tapped or Reamed Hole Depth
ESP-315	2.20	1.04	1.14	.43	5/16 Ream	.59
ESP-320	2.20	1.04	1.14	.43	5/16-18	.51
ESP-325	2.76	1.28	1.38	.51	⅜ Ream	.79
ESP-330	2.76	1.28	1.38	.51	⅜-16	.67

ELESA
Black Technopolymer
Six Lobed Thru Hole
Reamed
Steel Hub
Inch

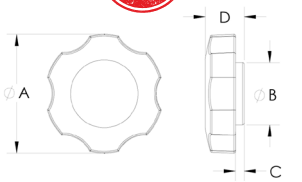




Item No.	A	B	C	D	Thru Hole Dia.	Thru Hole Depth
ESP-335	2.20	1.04	1.14	.43	.394	0.87
ESP-340	2.76	1.28	1.38	.51	.472	1.06

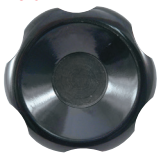
Reid Select
Black Acetal
Six Lobed
Press Fit
Inch or Metric



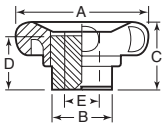


Item No.	A	B	C	D	Compatible Thread Size
ICK-2380	1.500	.780	.475	.375	1/4
ICK-2385	1.500	.780	.475	.375	5/16
ICK-2390	1.500	.780	.475	.375	3/8
ICK-2395	1.500	.780	.475	.375	M1
ICK-2400	1.500	.780	.475	.375	M6
ICK-2405	1.500	.780	.475	.375	M8

ELESA
Black Technopolymer or Phenolic
Six Lobed w/o Revolving Handle
Blank or Thru Hole
Steel Hub
Inch







Constructed from tough, smooth plastic. Highly polished with all parting lines removed. Molded in black oxide steel hub.

Item No.	A	B	C	D	E	No. of Lobes
Technopolymer						
KHN-30*	1.97	.79	1.14	.83	.312	6
KHN-10	2.72	1.18	1.30	.98	Blank	6
KHN-35*	2.72	1.18	1.30	.98	.375	6
KHN-105*	2.72	1.18	1.30	.98	⅜-16	6
KHN-15	3.15	1.38	1.57	1.18	Blank	6
Phenolic						
KHN-40*	3.15	1.38	1.57	1.18	.500	6
KHN-45	3.90	1.42	1.73	1.34	Blank	6
KHN-50*	3.90	1.42	1.73	1.34	.500	6
KHN-55**	5.07	1.57	1.85	1.34	Blank	8

*Thru hole
**8-Lobe

Jergens

Reid Supply is a Full-Line Supplier of Jergens Products

Jergens, founded in 1942, is one of the world's largest manufacturers of standardized tooling components, such as vises, handles, and other workholding equipment. Jergens is known for precision applications due to their consistent quality standards to help customers achieve more efficient manufacturing processes.

Crank Handles

Threaded Spring Locating Pins

Spring Stops

Rest Buttons

Fixture Jacks

Tooling Balls

Locating Pins







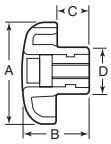




LOBED / ARM / PRONG / STAR KNOBS

KIPP
Black Thermoplastic
Seven Lobed Blind Hole
Plated Steel or Stainless Insert
Inch or Metric





STAINLESS STEEL OPTION AVAILABLE

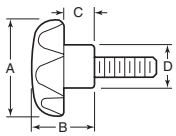
Steel Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch							
KBP-249	—	.98	.63	.31	.47	8-32	.39
KBP-250	KBP-282	.98	.63	.31	.47	10-32	.39
KBP-251	—	.98	.63	.31	.47	¼-20	.39
KBP-252	—	1.26	.79	.39	.55	10-32	.39
KBP-253	KBP-283	1.26	.79	.39	.55	¼-20	.39
KBP-254	KBP-284	1.57	.98	.51	.71	5/16-18	.55
KBP-255	—	1.57	.98	.51	.71	⅜-16	.55
KBP-256	—	1.97	1.26	.67	.87	5/16-18	.55
KBP-257	KBP-285	1.97	1.26	.67	.87	⅜-16	.55
KBP-258	—	1.97	1.26	.67	.87	½-13	.71
KBP-259	—	2.48	1.57	.83	1.02	⅜-16	.55
KBP-260	KBP-286	2.48	1.57	.83	1.02	½-13	.71
KBP-261	—	2.48	1.57	.83	1.02	⅝-11	.71

Steel Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
Metric							
KPB-1078	—	25	16	8	12	M4 x .70	10
KPB-1079	—	25	16	8	12	M5 x .80	10
KPB-1080	—	25	16	8	12	M6 x 1.00	10
KPB-1081	—	32	20	10	14	M5 x .80	10
KPB-1082	—	32	20	10	14	M6 x 1.00	10
KPB-1083	—	40	25	13	18	M8 x 1.25	14
KPB-1084	—	40	25	13	18	M10 x 1.50	14
KPB-1085	—	50	32	17	22	M8 x 1.25	14
KPB-1086	—	50	32	17	22	M10 x 1.50	14
KPB-1087	—	50	32	17	22	M12 x 1.75	18
KPB-1088	—	63	40	21	26	M10 x 1.50	14
KPB-1089	—	63	40	21	26	M12 x 1.75	18
KPB-1090	—	63	40	21	26	M16 x 2.00	18

KIPP
Black Thermoplastic
Seven Lobed
Plated Steel or Stainless Stud
Inch or Metric







STAINLESS STEEL OPTION AVAILABLE

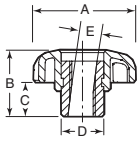
Steel Item No.	Stainless Item No.	A	B	C	D	Stud Thread	Stud Length
Inch							
KBP-262	KBP-287	.98	.63	.31	.47	10-32	.39
KBP-263	KBP-288	.98	.63	.31	.47	10-32	.79
KBP-264	—	.98	.63	.31	.47	¼-20	.79
KBP-265	—	.98	.63	.31	.47	¼-20	1.18
KBP-266	KBP-289	1.26	.79	.39	.55	¼-20	.79
KBP-267	KBP-290	1.26	.79	.39	.55	¼-20	1.18
KBP-268	—	1.26	.79	.39	.55	5/16-18	.79
KBP-269	—	1.26	.79	.39	.55	5/16-18	1.57
KBP-270	KBP-292	1.57	.98	.51	.71	5/16-18	.79
KBP-271	KBP-293	1.57	.98	.51	.71	5/16-18	1.57
KBP-272	—	1.57	.98	.51	.71	⅜-16	.79
KBP-273	—	1.57	.98	.51	.71	⅜-16	1.57
KBP-274	—	1.97	1.26	.67	.87	⅜-16	.79
KBP-275	KBP-294	1.97	1.26	.67	.87	⅜-16	1.57
KBP-276	—	1.97	1.26	.67	.87	½-13	1.18
KBP-277	—	1.97	1.26	.67	.87	½-13	2.36
KBP-278	—	2.48	1.57	.83	1.02	⅜-16	.79
KBP-279	—	2.48	1.57	.83	1.02	⅜-16	1.57
KBP-280	—	2.48	1.57	.83	1.02	½-13	1.18
KBP-281	—	2.48	1.57	.83	1.02	½-13	2.36
Metric							
KPB-1091	—	25	16	8	12	M5 x .80	10
KPB-1092	—	25	16	8	12	M5 x .80	20
KPB-1093	—	25	16	8	12	M5 x .80	30
KPB-1094	—	25	16	6	12	M6x1.00	10

Steel Item No.	Stainless Item No.	A	B	C	D	Stud Thread	Stud Length
Metric							
KPB-1095	—	25	16	8	12	M6x1.00	20
KPB-1096	—	25	16	8	12	M6 x 1.00	30
KPB-1097	—	32	20	10	14	M6 x 1.00	10
KPB-1098	—	32	20	10	14	M6 x 1.00	20
KPB-1099	—	32	20	10	14	M6 x 1.00	30
KPB-1108	—	40	25	13	18	M10 x 1.50	30
KPB-1109	—	50	32	17	22	M10 x 1.50	15
KPB-1100	—	32	20	10	14	M8 x 1.25	15
KPB-1101	—	32	20	10	14	M8 x 1.25	20
KPB-1102	—	32	20	10	14	M8 x 1.25	30
KPB-1103	—	40	25	13	18	M8 x 1.25	15
KPB-1104	—	40	25	13	18	M8 x 1.25	20
KPB-1105	—	40	25	13	18	M8 x 1.25	30
KPB-1106	—	40	25	13	18	M10 x 1.50	15
KPB-1107	—	40	25	13	18	M10 x 1.50	20
KPB-1110	—	50	32	17	22	M10 x 1.50	20
KPB-1111	—	50	32	17	22	M10 x 1.50	30
KPB-1112	—	50	32	17	22	M12 x 1.75	15
KPB-1113	—	50	32	17	22	M12 x 1.75	20
KPB-1114	—	50	32	17	22	M12 x 1.75	30
KPB-1115	—	63	40	21	26	M10 x 1.50	20
KPB-1116	—	63	40	21	26	M10 x 1.50	30
KPB-1117	—	63	40	21	26	M12 x 1.75	20
KPB-1118	—	63	40	21	26	M12 x 1.75	30
KPB-1119	—	63	40	21	26	M16 x 2.00	30

KIPP
Black Thermoplastic
Seven Lobed Quick Acting
Plated Steel Hub Insert
Metric







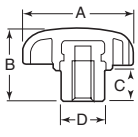
Item No.	A	B	C	D	E	Thread
KPB-1129	25	15.5	8	10	5.2	M5 x .80
KPB-1130	32	19.5	10	12	6.2	M6 x 1.00
KPB-1131	40	24.5	13	13.5	8.3	M8 x 1.25
KPB-1132	50	31	17	19	10.3	M10 x 1.50
KPB-1133	63	39.5	21	19	12.3	M12 x 1.75

ASK US ABOUT BULK PRICING

KIPP
Black Thermoplastic
Seven Lobed
Plated Steel Hub Insert
Inch or Metric







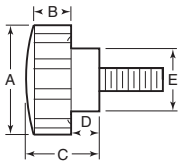
Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch						
KBP-295	.98	.63	.24	.39	10-32	.33
KBP-296	1.26	.79	.33	.47	¼-20	.47
KBP-297	1.57	.98	.39	.53	¼-20	.55
KBP-298	1.57	.98	.39	.53	5/16-18	.55
KBP-299	1.97	1.26	.47	.75	5/16-18	.71
KBP-300	1.97	1.26	.47	.75	⅜-16	.71
KBP-301	2.48	1.57	.59	.75	⅜-16	.87
KBP-302	2.48	1.57	.59	.75	½-13	.87
KBP-303	2.48	1.57	.59	.91	⅝-11	.87
Metric						
KPB-1120	25	16	6	10	M5	9.5
KPB-1121	32	20	8.5	12	M6	12
KPB-1122	40	25	10	13.5	M6	14
KPB-1123	40	25	10	13.5	M8	14
KPB-1124	50	32	12	19	M8	18
KPB-1125	50	32	12	19	M10	18
KPB-1126	63	40	15	19	M10	22
KPB-1127	63	40	15	19	M12	22
KPB-1128	63	40	15	23	M16	22

LOBED / ARM / PRONG / STAR KNOBS

DimcoGray
Black Phenolic or Thermoplastic
Eight Lobed
Plated Steel and Stainless Stud
Inch

STAINLESS STEEL OPTION AVAILABLE

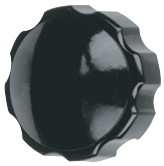


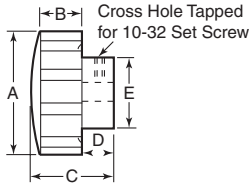


Steel Item No.	Stainless Item No.	A	B	C	D	E	Stud Thread	Stud Length
Phenolic								
DK-71	DKS-71	1⅜	23/64	27/32	25/64	27/32	¼-20	½
DK-72	DKS-72	1⅜	23/64	27/32	25/64	27/32	¼-20	1
DK-73	DKS-73	1⅜	23/64	27/32	25/64	27/32	5/16-18	½
DK-74	DKS-74	1⅜	23/64	27/32	25/64	27/32	5/16-18	1
DK-26	DKS-26	1¾	7/16	1 1/16	½	1 1/16	5/16-18	¾
DK-27	DKS-27	1¾	7/16	1 1/16	½	1 1/16	5/16-18	1½
DK-28	DKS-28	1¾	7/16	1 1/16	½	1 1/16	⅜-16	¾
DK-29	DKS-29	1¾	7/16	1 1/16	½	1 1/16	⅜-16	1½
DK-5	DKS-5	2⅜	½	1 5/16	⅝	1¼	⅜-16	1
DK-6	DKS-6	2⅜	½	1 5/16	⅝	1¼	⅜-16	2
DK-7	DKS-7	2⅜	½	1 5/16	⅝	1¼	½-13	1
DK-8	DKS-8	2⅜	½	1 5/16	⅝	1¼	½-13	2
Thermoplastic								
DK-169	—	3¼	⅝	1⅝	¾	2	5/16-18	¾
DK-170	—	3¼	⅝	1⅝	¾	2	5/16-18	1

DimcoGray
Black Phenolic
Eight Lobed
Brass Bushing
Inch

STAINLESS STEEL OPTION AVAILABLE

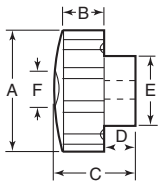




Item No.	A	B	C	D	E	Bushing Dia.	Bushing Depth
DK-23	1¾	7/16	1 1/16	½	1 1/16	⅜	½
DK-1	2⅜	½	1 5/16	⅝	1¼	⅜	½
DK-2	2⅜	½	1 5/16	⅝	1¼	½	⅝

DimcoGray
Black Phenolic
Eight Lobed Thru Hole
Brass Insert
Inch

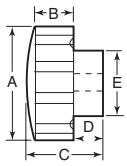




Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
DK-570	1¾	29/64	61/64	½	1 1/16	⅝	¼-20	⅝
DK-575	1¾	29/64	61/64	½	1 1/16	⅝	5/16-18	⅝
DK-580	1¾	29/64	61/64	½	1 1/16	⅝	⅜-16	⅝
DK-585	1¾	29/64	61/64	½	1 1/16	⅝	½-13	⅝
DK-120	2⅜	½	1 9/32	⅝	1¼	¾	5/16-18	⅝
DK-121	2⅜	½	1 9/32	⅝	1¼	¾	⅜-16	⅝
DK-122	2⅜	½	1 9/32	⅝	1¼	¾	½-13	⅝

DimcoGray
Black Phenolic or Thermoplastic
Eight Lobed
Brass Insert
Inch or Metric

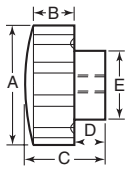




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
Phenolic - Inch							
DK-555	1⅜	23/64	27/32	25/64	27/32	10-32	5/16
DK-69	1⅜	23/64	27/32	25/64	27/32	¼-20	7/16
DK-70	1⅜	23/64	27/32	25/64	27/32	5/16-18	7/16
DK-590	1¾	7/16	1 1/16	—	¾	¼-20	⅜
DK-595	1¾	7/16	1 1/16	—	¾	5/16-18	⅜
DK-615	1¾	7/16	1 1/16	—	¾	⅜-16	⅜
DK-620	1¾	7/16	1 1/16	—	¾	½-13	7/16
DK-560	1¾	7/16	1 1/16	½	1 1/16	¼-20	7/16
DK-24	1¾	7/16	1 1/16	½	1 1/16	5/16-18	7/16
DK-25	1¾	7/16	1 1/16	½	1 1/16	⅜-16	½
DK-625	2⅜	½	1 3/16	—	¾	¼-20	7/16
DK-630	2⅜	½	1 3/16	—	¾	5/16-18	7/16
DK-635	2⅜	½	1 3/16	—	¾	⅜-16	½
DK-640	2⅜	½	1 3/16	—	¾	½-13	⅝
DK-3	2⅜	½	1 5/16	⅝	1¼	⅜-16	½
DK-4	2⅜	½	1 5/16	⅝	1¼	½-13	⅝
DK-37	3¼	⅝	1 25/32	⅞	2	⅜-16	½
DK-38	3¼	⅝	1 25/32	⅞	2	½-13	⅝
DK-565	3¼	⅝	1 25/32	⅞	2	⅝-11	¾
DK-39	3¼	⅝	1 25/32	⅞	2	⅝-18	¾
Phenolic - Metric							
DK-1160	1¾	7/16	1 1/16	½	1 1/16	M6 x 1.0	7/16
DK-1161	1¾	7/16	1 1/16	½	1 1/16	M8 x 1.25	7/16
DK-1162	1¾	7/16	1 1/16	½	1 1/16	M10 x 1.50	½
DK-1163	2⅜	½	1 5/16	⅝	1¼	M8 x 1.25	7/16
DK-1164	2⅜	½	1 5/16	⅝	1¼	M10 x 1.50	½
DK-1165	2⅜	½	1 5/16	⅝	1¼	M12 x 1.75	19/32
Thermoplastic - Inch							
DK-177	3¼	⅝	1⅝	¾	2	⅜-16	.885
DK-197	3¼	⅝	1⅝	¾	2	¼-20	⅝

Black Phenolic
Ribbed Fingertip Grip
Brass or Steel Insert
Inch

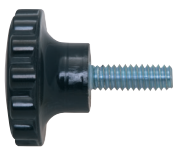


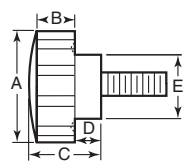


Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-158	⅞	⅜	½	⅛	⅝	10-32	5/16
DK-159	1¼	⅜	¾	⅜	⅝	¼-20	⅜
DK-160	1½	⅜	¾	⅜	1 1/16	¼-20	⅜
DK-163*	3	21/32	1⅜	23/32	1¼	⅜-16	½
DK-164*	3	25/32	1½	23/32	1¼	½-13	⅝

*Steel insert

Black Phenolic
Ribbed Fingertip Grip
Plated Steel Stud
Inch





Item No.	A	B	C	D	E	Stud Thread	Stud Length
DK-145	⅞	⅜	¾	⅜	⅝	10-32	¾
DK-146	⅞	⅜	½	⅛	⅝	10-32	1
DK-147	⅞	⅜	½	⅛	⅝	¼-20	9/16
DK-148	1¼	⅜	¾	⅜	⅝	¼-20	¾
DK-149	1¼	⅜	¾	⅜	⅝	¼-20	1
DK-150	1½	⅜	¾	⅜	1 1/16	¼-20	9/16
DK-151	1½	⅜	¾	⅜	1 1/16	5/16-18	½
DK-152	2	1 1/16	1 1/16	—	⅝	¼-20	1
DK-153	2	1 1/16	1 1/16	—	⅝	5/16-18	1
DK-154	2	1 1/16	1 1/16	—	⅝	⅜-16	1
DK-155	2½	1 1/16	1 5/16	⅝	1¼	⅜-16	1
DK-156	2½	1 1/16	1 5/16	⅝	1¼	½-13	1
DK-157	3	21/32	1¼	19/32	1¼	⅜-16	1

CLAMPING INTENSIFIERS

KIPP
Clamping Intensifiers
Threaded Hole - Star Grip

Item No.	Diameter	Material	Thread Size
KCFI-2405	32 mm	THERMOPLASTIC	M6
KCFI-2410	40 mm	THERMOPLASTIC	M8
KCFI-2415	50 mm	THERMOPLASTIC	M10
KCFI-2420	63 mm	THERMOPLASTIC	M12
KCFI-2425	32 mm	THERMOPLASTIC	M6
KCFI-2430	40 mm	THERMOPLASTIC	M8
KCFI-2435	50 mm	THERMOPLASTIC	M10
KCFI-2440	63 mm	THERMOPLASTIC	M12

Clamping force can be doubled vs. standard clamping knobs



Star grips with integrated clamping force intensifier can achieve double the clamping force compared to standard star grips.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the star grip.

KIPP
Clamping Intensifiers
Threaded Stud - Star Grip

Item No.	Diameter	Knob Height	Material	Thread Size
KCFI-2445	32 mm	31 mm	THERMOPLASTIC	M6 X 10 mm
KCFI-2450	32 mm	31 mm	THERMOPLASTIC	M6 X 20 mm
KCFI-2455	40 mm	35 mm	THERMOPLASTIC	M8 X 15 mm
KCFI-2460	40 mm	35 mm	THERMOPLASTIC	M8 X 30 mm
KCFI-2465	50 mm	42 mm	THERMOPLASTIC	M10 X 20 mm
KCFI-2470	50 mm	42 mm	THERMOPLASTIC	M10 X 30 mm
KCFI-2475	63 mm	47 mm	THERMOPLASTIC	M12 X 20 mm
KCFI-2480	63 mm	47 mm	THERMOPLASTIC	M12 X 30 mm
KCFI-2485	32 mm	31 mm	THERMOPLASTIC	M6 X 10 mm
KCFI-2490	32 mm	31 mm	THERMOPLASTIC	M6 X 20 mm
KCFI-2495	40 mm	35 mm	THERMOPLASTIC	M8 X 15 mm
KCFI-2500	40 mm	35 mm	THERMOPLASTIC	M8 X 30 mm
KCFI-2505	50 mm	42 mm	THERMOPLASTIC	M10 X 20 mm
KCFI-2510	50 mm	42 mm	THERMOPLASTIC	M10 X 30 mm
KCFI-2515	63 mm	47 mm	THERMOPLASTIC	M12 X 20 mm
KCFI-2520	63 mm	47 mm	THERMOPLASTIC	M12 X 30 mm



Clamping force can be doubled vs. standard clamping knobs



Ask Us About Colors and Customizing

Customize your plastic knobs and molded parts to fit YOUR PROJECT NEEDS.

CALL OR EMAIL US FOR A QUOTE

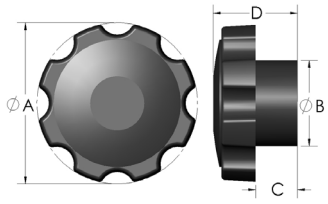
- **Pad Printing**
- **Logo Printing**
- **Embedded Characters**
- **Raised Characters/Lettering**
- **Customize any Color in the PMS Chart**

Ask Us About Heat Resistant Materials Available

LOBED / ARM / PRONG / STAR KNOBS

Reid Select Black Polypropylene Eight Lobed Steel or Poly Insert Inch

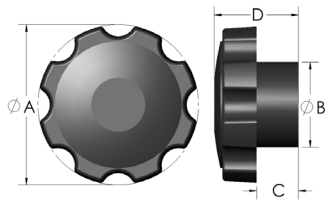




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-955	1.375	.980	.170	.530	Thru-Hole (Stop Nut)	Steel	10-24
ICK-960	1.375	.980	.170	.530	Thru-Hole	Steel	1/4-20
ICK-965	1.375	.980	.170	.530	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-970	1.750	1.230	.280	.860	Thru-Hole	Steel	1/4-20
ICK-975	2.380	1.250	.620	1.230	Thru-Hole	Polypropylene	1/4-20
ICK-980	2.380	1.250	.620	1.230	Thru-Hole (Stop Nut)	Polypropylene	1/4-20
ICK-985	1.375	.980	.170	.530	Thru-Hole	Polypropylene	5/16-18
ICK-990	1.750	1.230	.280	.860	Thru-Hole	Polypropylene	5/16-18
ICK-995	1.750	1.230	.280	.860	Thru-Hole (Stop Nut)	Polypropylene	5/16-18
ICK-1000	2.380	1.250	.620	1.230	Thru-Hole	Polypropylene	5/16-18
ICK-1005	2.380	1.250	.620	1.230	Thru-Hole (Stop Nut)	Polypropylene	5/16-18
ICK-1010	2.500	1.250	.570	1.290	Thru-Hole	Polypropylene	5/16-18
ICK-1015	1.750	1.230	.280	.860	Thru-Hole	Polypropylene	3/8-16
ICK-1020	2.380	1.250	.620	1.230	Thru-Hole	Polypropylene	3/8-16
ICK-1025	2.500	1.250	.570	1.290	Thru-Hole	Polypropylene	3/8-16
ICK-1030	2.380	1.250	.620	1.230	Thru-Hole	Polypropylene	1/2-13
ICK-1035	2.380	1.250	.620	1.230	Thru-Hole (Stop Nut)	Polypropylene	1/2-13
ICK-1040	2.500	1.250	.570	1.290	Thru-Hole	Polypropylene	1/2-13
ICK-1045	2.500	1.250	.570	1.290	Thru-Hole (Stop Nut)	Polypropylene	1/2-13

Reid Select Black Polypropylene Eight Lobed Steel Insert Inch





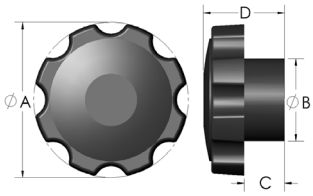
Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1050	1.375	.980	.170	.530	Blind Hole	Steel	1/4-20
ICK-1055	1.750	1.230	.280	.860	Blind Hole	Steel	1/4-20
ICK-1060	2.380	1.250	.620	1.230	Blind Hole	Steel	1/4-20
ICK-1065	1.750	1.230	.280	.860	Blind Hole	Steel	5/16-18
ICK-1070	2.380	1.250	.620	1.230	Blind Hole	Steel	5/16-18
ICK-1075	2.500	1.250	.570	1.290	Blind Hole	Steel	5/16-18
ICK-1080	2.500	1.250	.570	1.290	Blind Hole	Steel	5/16-18
ICK-1085	2.380	1.250	.620	1.230	Blind Hole	Steel	3/8-16
ICK-1090	2.500	1.250	.570	1.290	Blind Hole	Steel	3/8-16
ICK-1095	2.380	1.250	.620	1.230	Blind Hole	Steel	1/2-13
ICK-1100	1.375	.980	.170	.530	Blind Hole	Steel	5/16-18

NEED HELP?

CALL 1.800.253.0421 OR
EMAIL US sales@reidsupply.com
FOR A QUOTE OR QUESTIONS
OUR TEAM IS HERE AND READY TO HELP

Reid Select Black Polypropylene Eight Lobed Steel Stud Inch

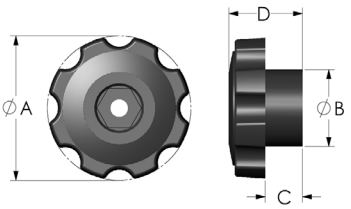




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-1105	1.375	.980	.170	.530	1.000	Steel	10-24
ICK-1110	1.375	.980	.170	.530	.625	Steel	1/4-20
ICK-1115	1.750	1.230	.280	.860	1.000	Steel	1/4-20
ICK-1120	2.380	1.250	.620	1.230	1.000	Steel	1/4-20
ICK-1125	1.750	1.230	.280	.860	1.750	Steel	1/4-20
ICK-1130	2.380	1.250	.620	1.230	1.750	Steel	1/4-20
ICK-1135	2.380	1.250	.620	1.230	.500	Steel	5/16-18
ICK-1140	1.375	.980	.170	.530	.750	Steel	5/16-18
ICK-1145	1.750	1.230	.280	.860	1.000	Steel	5/16-18
ICK-1150	2.380	1.250	.620	1.230	1.000	Steel	5/16-18
ICK-1155	1.750	1.230	.280	.860	1.750	Steel	5/16-18
ICK-1160	2.380	1.250	.620	1.230	1.750	Steel	5/16-18
ICK-1165	2.500	1.250	.570	1.290	1.750	Steel	5/16-18
ICK-1170	2.500	1.250	.570	1.290	2.000	Steel	5/16-18
ICK-1175	1.750	1.230	.280	.860	.750	Steel	3/8-16
ICK-1180	1.750	1.230	.280	.860	1.000	Steel	3/8-16
ICK-1185	2.380	1.250	.620	1.230	1.000	Steel	3/8-16
ICK-1190	1.750	1.230	.280	.860	1.500	Steel	3/8-16
ICK-1195	2.380	1.250	.620	1.230	1.500	Steel	3/8-16
ICK-1200	2.500	1.250	.570	1.290	2.000	Steel	3/8-16
ICK-1205	2.380	1.250	.620	1.230	2.250	Steel	3/8-16
ICK-1210	2.380	1.250	.620	1.230	1.250	Steel	1/2-13
ICK-1215	2.500	1.250	.570	1.290	1.500	Steel	1/2-13
ICK-1220	2.380	1.250	.620	1.230	2.000	Steel	1/2-13
ICK-1225	1.375	.980	.170	.530	.500	Steel	1/4-20
ICK-1230	1.375	.980	.170	.530	.750	Steel	1/4-20
ICK-1235	1.750	1.230	.280	.860	.750	Steel	1/4-20
ICK-1240	1.750	1.230	.280	.860	.750	Steel	1/4-20
ICK-1245	1.375	.980	.170	.530	1.000	Steel	1/4-20
ICK-1250	1.375	.980	.170	.530	2.000	Steel	1/4-20
ICK-1255	1.750	1.230	.280	.860	2.000	Steel	1/4-20
ICK-1260	1.375	.980	.170	.530	4.250	Steel	1/4-20
ICK-1265	1.750	1.230	.280	.860	.750	Steel	5/16-18
ICK-1270	2.380	1.250	.620	1.230	.750	Steel	5/16-18
ICK-1275	1.750	1.230	.280	.860	1.250	Steel	5/16-18
ICK-1280	1.750	1.230	.280	.860	1.500	Steel	5/16-18
ICK-1285	1.750	1.230	.280	.860	2.000	Steel	5/16-18
ICK-1290	1.375	.980	.170	.530	4.750	Steel	5/16-18
ICK-1295	1.750	1.230	.280	.860	.500	Steel	3/8-16
ICK-1300	2.380	1.250	.620	1.230	.500	Steel	3/8-16
ICK-1305	1.375	.980	.170	.530	.875	Steel	3/8-16
ICK-1310	1.750	1.230	.280	.860	1.250	Steel	3/8-16
ICK-1315	2.500	1.250	.570	1.290	1.500	Steel	3/8-16
ICK-1320	2.380	1.250	.620	1.230	2.000	Steel	3/8-16
ICK-1325	1.750	1.230	.280	.860	2.250	Steel	3/8-16
ICK-1330	1.750	1.230	.280	.860	2.500	Steel	3/8-16
ICK-1335	2.380	1.250	.620	1.230	2.500	Steel	3/8-16
ICK-1340	1.750	1.230	.280	.860	2.870	Steel	3/8-16
ICK-1345	2.380	1.250	.620	1.230	.500	Steel	1/2-13
ICK-1350	2.500	1.250	.570	1.290	1.000	Steel	1/2-13
ICK-1355	2.380	1.250	.620	1.230	1.500	Steel	1/2-13
ICK-1360	2.380	1.250	.620	1.230	4.000	Steel	1/2-13

Reid Select Black Polypropylene Eight Lobed Press Fit Inch or Metric



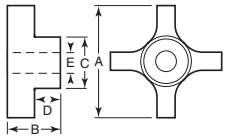


Item No.	A	B	C	D	Compatible Thread Size
ICK-2615	2.380	1.250	.620	1.230	1/4-20;1/4-28
ICK-2620	2.380	1.250	.620	1.230	5/16-18;5/16-24
ICK-2625	2.380	1.250	.620	1.230	3/8-16;3/8-24
ICK-2630	2.380	1.250	.620	1.230	M6
ICK-2635	2.380	1.250	.620	1.230	M8
ICK-2640	2.380	1.250	.620	1.230	M10
ICK-2645	2.380	1.250	.620	1.230	1/2-13;1/2-20
ICK-2650	2.380	1.250	.620	1.230	M12

METAL LOBED KNOBS

Extruded Aluminum Luster Finish Four Lobed Blank, Reamed or Tapped Inch



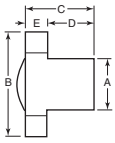


Item No.	A	B	C	D	E
STT-1	1	7/8	1/2	1/2	Blank
STT-2T	1	7/8	1/2	1/2	1/4-20
STT-3R	1	7/8	1/2	1/2	1/4 Ream
STT-4	1 1/2	7/8	5/8	3/8	Blank
STT-5T	1 1/2	7/8	5/8	3/8	5/16-18
STT-6R	1 1/2	7/8	5/8	3/8	5/16 Ream
STT-7	2	1	13/16	1/2	Blank
STT-8T	2	1	13/16	1/2	3/8-16
STT-9R	2	1	13/16	1/2	3/8 Ream
STT-10	2 1/2	1 1/8	1	9/16	Blank
STT-11T	2 1/2	1 1/8	1	9/16	1/2-13
STT-12R	2 1/2	1 1/8	1	9/16	1/2 Ream
STT-13	3	1 1/4	1 1/4	5/8	Blank
STT-14T	3	1 1/4	1 1/4	5/8	5/8-13
STT-15R	3	1 1/4	1 1/4	5/8	5/8 Ream

NOTE: Dimension E reamed hole size +.000/-.002

Cast Iron Four or Five Lobed Blank Inch



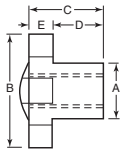


Item No.	A	B	C	D	E
KP-2	9/16	1 1/8	3/4	3/8	3/8
KP-3	5/8	1 1/2	7/8	1/2	3/8
KP-4	3/4	2	7/8	1/2	3/8
KP-5	1	2 1/2	2 1/4	1 3/4	1/2
KP-6	1 1/8	2 1/2	1 1/2	1	1/2
KP-7*	1 1/2	3	1 3/4	1 1/4	1/2
KP-8	1 3/8	2 3/4	1 3/4	1 1/4	1/2

*Five Lobes

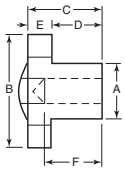
Cast Iron Four or Five Lobed Tapped or Reamed Inch





Tapped





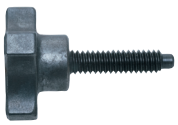
Reamed

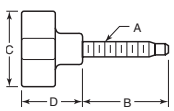
Tapped entire length of knob. Reamed hole depth is "F" dimension. Reamed hole is +.000/-.002". Bottom end of knob faced square with hole.

Tapped		Reamed							
Item No.	Thread	Item No.	Ream	A	B	C	D	E	F
TP-2A	1/4-20	RP-2A	1/4	9/16	1 1/8	11/16	5/16	3/8	3/8
TP-3A	1/4-20	RP-3A	1/4	5/8	1 1/2	13/16	7/16	3/8	1/2
TP-4A	5/16-18	RP-4A	5/16	3/4	2	13/16	7/16	3/8	1/2
TP-5A	3/8-16	RP-5A	3/8	1	2 1/2	2 3/16	1 11/16	1/2	1 3/4
TP-6A	3/8-16	RP-6A	3/8	1 1/8	2 1/2	1 7/16	15/16	1/2	1
TP-6B	1/2-13	RP-6B	1/2	1 1/8	2 1/2	1 7/16	15/16	1/2	1
TP-7A*	1/2-13	RP-7A*	1/2	1 1/2	3	1 11/16	1 3/16	1/2	1 1/4
TP-7B*	5/8-11	RP-7B*	5/8	1 1/2	3	1 11/16	1 3/16	1/2	1 1/4
TP-8A	1/2-13	RP-8A	1/2	1 3/8	2 3/4	1 11/16	1 3/16	1/2	1 1/4
TP-8B	5/8-11	RP-8B	5/8	1 3/8	2 3/4	1 11/16	1 3/16	1/2	1 1/4

*Five Lobes

Cast Iron Four Lobed Steel Stud Dog Point Inch

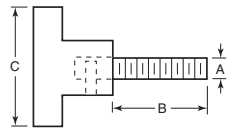




Powdered steel knob with black finish. Stud is heat treated with black oxide finish.

Extruded Aluminum Luster Finish Four Lobed Assemblies Black Oxide Stud Inch



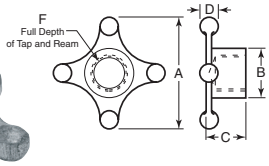


Item No.	A	B	C	Knob Used
AKA-1	1/4-20	1 3/4	1 1/2	STT-4
AKA-2	1/4-20	3	1 1/2	STT-4
AKA-3	5/16-18	1 3/4	2	STT-7
AKA-4	5/16-18	3	2	STT-7
AKA-5	3/8-16	1 3/4	2 1/2	STT-10
AKA-6	3/8-16	3	2 1/2	STT-10
AKA-7	1/2-13	1 3/4	2 1/2	STT-10
AKA-8	1/2-13	3	2 1/2	STT-10
AKA-9	5/8-11	1 3/4	3	STT-13
AKA-10	5/8-11	3	3	STT-13

Aluminum Four Lobed Blank, Tapped or Reamed Inch



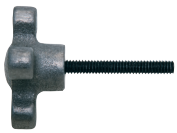


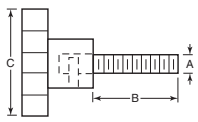


Made from 319 aluminum alloy. Thread is 2B-UNC. Reamed holes are +.002/-.000".

Item No.	A	B	C	D	Hole Type	F
JAC-101	1 1/4	9/16	3/4	5/16	Blank	—
JAC-102	1 1/4	9/16	3/4	5/16	1/4 Ream	1/2
JAC-104	1 1/4	9/16	3/4	5/16	1/4-20	1/2
JAC-105	1 1/4	9/16	3/4	5/16	5/16-18	1/2
JAC-106	1 1/2	11/16	7/8	3/8	Blank	—
JAC-108	1 1/2	11/16	7/8	3/8	3/8 Ream	5/8
JAC-109	1 1/2	11/16	7/8	3/8	5/16-18	5/8
JAC-110	1 1/2	11/16	7/8	3/8	3/8-16	5/8
JAC-111	2 1/8	7/8	1 1/4	1/2	Blank	—
JAC-112	2 1/8	7/8	1 1/4	1/2	3/8 Ream	7/8
JAC-113	2 1/8	7/8	1 1/4	1/2	1/2 Ream	7/8
JAC-114	2 1/8	7/8	1 1/4	1/2	3/8-16	7/8
JAC-115	2 1/8	7/8	1 1/4	1/2	1/2-13	7/8
JAC-116	3	1 3/8	1 3/4	11/16	Blank	—
JAC-118	3	1 3/8	1 3/4	11/16	5/8 Ream	1 1/4
JAC-119	3	1 3/8	1 3/4	11/16	3/4 Ream	1 1/4
JAC-120	3	1 3/8	1 3/4	11/16	1/2-13	1 1/4
JAC-121	3	1 3/8	1 3/4	11/16	5/8-11	1 1/4
JAC-122	3	1 3/8	1 3/4	11/16	3/4-10	1 1/4

Cast Iron Four Lobed Steel Stud Flat Point Inch





Cast iron knob with black oxide stud. Stud assembled to knob and held in place with spring pin. Suitable for many clamping applications.

Item No.	A	B	C	Knob Used
KA-1	1/4-20	1 3/4	2	KP-4
KA-2	1/4-20	3	2	KP-4
KA-3	5/16-18	1 3/4	2	KP-4
KA-4	5/16-18	3	2	KP-4
KA-5	3/8-16	1 3/4	2 1/2	KP-6
KA-6	3/8-16	3	2 1/2	KP-6
KA-7	1/2-13	1 3/4	2 1/2	KP-6
KA-8	1/2-13	3	2 1/2	KP-6
KA-9	5/8-11	1 3/4	2 3/4	KP-8
KA-10	5/8-11	3	2 3/4	KP-8

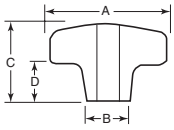
Item No.	A	B	C	D
KA-201	1/4-20	1	1 1/8	5/8
KA-202	1/4-20	1 1/2	1 1/8	5/8
KA-203	5/16-18	1 3/4	1 1/2	7/8
KA-204	5/16-18	2 1/2	1 1/2	7/8
KA-205	3/8-16	1 1/2	2	1 1/8
KA-206	3/8-16	2	2	1 1/8
KA-207	3/8-16	2 1/2	2	1 1/8
KA-208	1/2-13	1 1/2	2 1/2	1 1/2
KA-210	1/2-13	2 1/2	2 1/2	1 1/2
KA-211	1/2-13	3	2 1/2	1 1/2
KA-213	5/8-11	3	2 1/2	1 1/2

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

METAL LOBED KNOBS

KIPP
Stainless Steel Type 303
Four Lobed
Reamed or Tapped
Inch





Reamed Thru | Reamed | Tapped Thru | Tapped

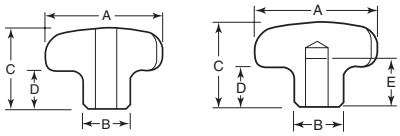
STAINLESS STEEL OPTION AVAILABLE

Reamed Thru Item No.	Ream	Reamed Item No.	E	A	B	C	D
KHJ-150	¼	KHJ-158	.47	1.25	.47	.79	.39
KHJ-152	5/16	KHJ-160	.59	1.57	.55	.98	.51
KHJ-154	⅜	KHJ-162	.71	1.96	.71	1.26	.67
KHJ-156	½	KHJ-164	.87	2.48	.79	1.57	.85

Tapped Thru Item No.	Thread	Tapped Item No.	E	A	B	C	D
KHJ-216	¼-20	KHJ-224	.47	1.25	.47	.82	.39
KHJ-218	5/16-18	KHJ-226	.59	1.57	.55	1.02	.51
KHJ-220	⅜-16	KHJ-228	.71	1.96	.71	1.33	.66
KHJ-222	½-13	KHJ-230	.86	2.48	.78	1.65	.82

KIPP
Stainless Steel Type 303
Seven Lobed
Reamed or Tapped
Inch





Reamed Thru | Reamed | Tapped Thru | Tapped

STAINLESS STEEL OPTION AVAILABLE

Reamed Thru Item No.	Ream	Reamed Item No.	E	A	B	C	D
KHJ-200	¼	KHJ-208	.47	1.25	.47	.82	.39
KHJ-202	5/16	KHJ-210	.59	1.57	.55	1.02	.51
KHJ-204	⅜	KHJ-212	.71	1.96	.71	1.33	.66
KHJ-206	½	KHJ-214	.86	2.48	.78	1.65	.82

Tapped Thru Item No.	Thread	Tapped Item No.	E	A	B	C	D
KHJ-166	¼-20	KHJ-174	.47	1.25	.47	.79	.39
KHJ-168	5/16-18	KHJ-176	.59	1.57	.55	.98	.51
KHJ-170	⅜-16	KHJ-178	.71	1.96	.71	1.26	.67
KHJ-172	½-13	KHJ-180	.87	2.48	.79	1.57	.85

Aluminum
Six or Eight Lobed
Blank, Reamed or Tapped
Inch





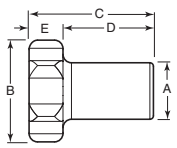
Made from 319 aluminum alloy with a tumbled finish. Available with blank, reamed or tapped hole. Reamed hole is +.002/-.000".

Item No.	A	B	C	D	F	Hole Type
JAP-901	1½	¾	⅞	1⅜	—	Blank
JAP-902	1½	¾	⅞	1 5/16	¾	¼
JAP-903	1½	¾	⅞	1 5/16	¾	¼-20
JAP-904	2	1	⅞	1 19/32	—	Blank
JAP-905	2	1	⅞	1½	¾	⅜
JAP-906	2	1	⅞	1½	¾	⅜-16
JAP-907	2¾	1 3/16	1⅛	1 31/32	—	Blank
JAP-908	2¾	1 3/16	1⅛	1⅞	1¼	½
JAP-909	2¾	1 3/16	1⅛	1⅞	1¼	½-13
JAP-910*	3½	1¼	1	1 13/16	—	Blank
JAP-911*	3½	1¼	1	1¾	1¼	½
JAP-912*	3½	1¼	1	1¾	1¼	½-13

*Eight lobed

Cast Iron
Six Lobed
Long Shank
Blank
Inch

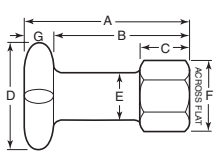




Item No.	A	B	C	D	E
KC-0	⅝	1⅛	1⅜	1	⅜
KC-1	⅞	1½	2	1½	½
KC-2	⅞	2	2	1½	½
KC-3	1¼	2¾	1¼	¾	½
KC-4	1¼	2¾	2	1½	½
KC-5	1⅜	3½	1½	⅞	⅝

Cast Iron
Six Lobed
Long Shank
Blank
Inch



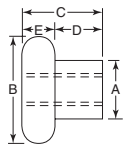


Knob with wrench hexagon.

Item No.	A	B	C	D	E	F	G
KL-1	3	2½	⅞	2	⅞	1 3/32	½
KL-2	3½	2⅞	1	2½	1	1 9/32	⅝
KL-3	4	3⅜	1⅛	3	1¼	1 15/32	⅝

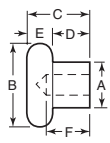
Cast Iron
Six Lobed
Short Shank
Reamed or Tapped
Inch





Tapped





Reamed

Tapped entire length of knob. Reamed hole depth is "F" dimension. Reamed hole is +.000/-.002". Bottom end of knob faced square with hole.

Reamed Item No.	Ream	Tapped Item No.	Thread	A	B	C	D	E	F
RC-0A	¼	TC-0A	¼-20	⅝	1⅛	1 5/16	15/16	⅜	1
RC-1A	⅜	TC-1A	⅜-16	⅞	1½	1 15/16	1 7/16	½	1½
RC-2A	⅜	TC-2A	⅜-16	⅞	2	1 15/16	1 7/16	½	1½
RC-3A	½	TC-3A	½-13	1¼	2¾	1 3/16	1 1/16	½	¾
RC-4A	½	TC-4A	½-13	1¼	2¾	1 15/16	1 7/16	½	1½
RC-5A	⅝	TC-5A	⅝-11	1⅝	3½	1 7/16	1 3/16	⅝	⅞

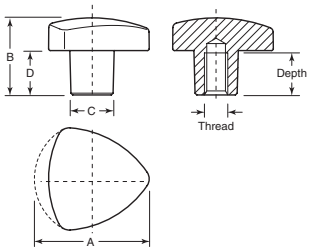
METAL LOBED KNOBS

JW Winco
Stainless Steel Type 304
Triangular
Threaded Blind Bore
Inch and Metric

JW WINCO A Ganter Company

STAINLESS STEEL OPTION AVAILABLE





The triangular knob is specially designed for use on machinery in the food industry. The design complies with the requirements of hygiene standards. These knobs can withstand a relatively high torque.

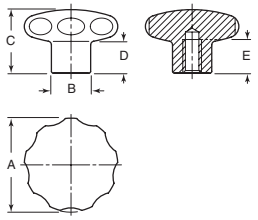
Item No.	A	B	C	D	Insert Thread	Insert Range of Depth
Inch						
WTH-5	1.26	.83	.47	.47	10-32	.39 - .47
WTH-10	1.26	.83	.47	.47	¼-20	.39 - .47
WTH-15	1.57	1.02	.55	.55	¼-20	.47 - .59
WTH-20	1.57	1.02	.55	.55	5/16-18	.47 - .59
WTH-25	1.97	1.30	.71	.75	5/16-18	.59 - .63
WTH-30	1.97	1.30	.71	.75	⅜-16	.59 - .63
WTH-35	2.37	1.61	.79	.91	⅜-16	.71 - .87
WTH-40	2.37	1.61	.79	.91	½-13	.71 - .87
Metric						
WTH-45	32	21	12	12	M5 x .80	10 - 12
WTH-50	32	21	12	12	M6 x 1.00	10 - 12
WTH-55	40	26	14	14	M6 x 1.00	12 - 15
WTH-60	40	26	14	14	M8 x 1.25	12 - 15
WTH-65	50	33	18	19	M8 x 1.25	15 - 16
WTH-70	50	33	18	19	M10 x 1.50	15 - 16
WTH-75	60	41	20	23	M10 x 1.50	18 - 22
WTH-80	60	41	20	23	M12 x 1.75	18 - 22

JW Winco
Stainless Steel Type 303
Nine Lobed
Tapped or Blank
Inch and Metric

JW WINCO A Ganter Company

STAINLESS STEEL OPTION AVAILABLE





Made from solid stainless steel bar stock. These decorative hand knobs are manufactured primarily for the food processing machinery industry, but there are numerous other fastening or clamping applications in non-corrosive environments for which these knobs can be used.

Tapped

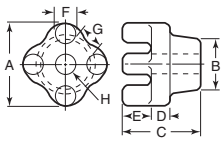
Item No.	A	Thread	B	C	D	E
Inch						
WPK-5	1.57	¼-20	.71	1.20	.59	.47
WPK-10	1.57	5/16-18	.71	1.20	.59	.47
WPK-15	1.97	5/16-18	.83	1.34	.67	.59
WPK-20	1.97	⅜-16	.83	1.34	.67	.59
WPK-25	2.36	⅜-16	.98	1.54	.71	.71
WPK-30	2.36	½-13	.98	1.54	.71	.71
Metric						
WPK-35	40	M6 x 1.00	18	30.5	15	12
WPK-40	40	M8 x 1.25	18	30.5	15	12
WPK-45	50	M8 x 1.25	21	34.0	17	15
WPK-50	50	M10 x 1.50	21	34.0	17	15
WPK-55	60	M10 x 1.50	25	39.0	18	18
WPK-60	60	M12 x 1.75	25	39.0	18	18

Blank

Item No.	A	B	C	D
Metric				
WPK-65	40	18	30.5	15
WPK-70	50	21	34.0	17
WPK-75	60	25	39.0	18

Bar Knob
Malleable Iron
Four Pronged
Blank, Reamed or Tapped
Inch





Used in heavy clamping applications by inserting a bar between the prongs for leverage. Available as blanks or with reamed or tapped holes.

Item No.	A	B	C	D	E	F	G	Hole H
ABK-725	2	1⅛	2⅛	½	¾	½	7/16	Blank
ABK-727	2	1⅛	2⅛	½	¾	½	7/16	⅜-16
ABK-732	2	1⅛	2⅛	½	¾	½	7/16	½-13
ABK-737	2	1⅛	2⅛	½	¾	½	7/16	5/8-11
ABK-750	2½	1½	2⅜	9/16	⅞	5/8	5/8	Blank
ABK-755	2½	1½	2⅜	9/16	⅞	5/8	5/8	½-13
ABK-765	2½	1½	2⅜	9/16	⅞	5/8	5/8	5/8-11
ABK-775	2½	1½	2⅜	9/16	⅞	5/8	5/8	¾-10

You May Also Need

MACHINE HAND WHEELS



Customer Service: (800) 253-0421 • (231) 777-3951

Reid SUPPLY AN ESSENTRA COMPANY

JW WINCO®
A Ganter Company

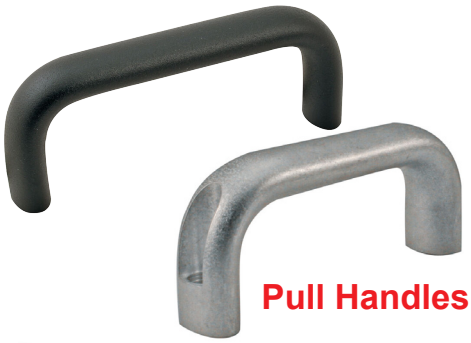
Reid Supply offers an extensive line of
JW Winco products that provide a wide selection
of operating parts for any manufacturing application.



T-Handle Knobs



Crank Handles



Pull Handles



Adjustable Tension Levers



Gear Levers



Eye Bolts



Index Plungers



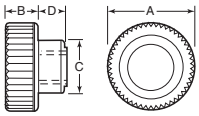
Handwheels



Hand and Star Knobs

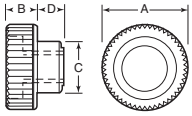
KNURLED KNOBS

Reid Select
Black Thermoplastic
Blind Hole
Brass Insert
Inch and Metric

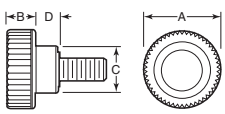
Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch						
JCL-550	.83	.33	.51	.26	¼-20	.38
JCL-555	1.02	.37	.63	.33	¼-20	.38
JCL-560	1.30	.49	.79	.41	¼-20	.38
JCL-565	1.30	.49	.79	.41	5/16-18	.47
Metric						
JCL-2635	21	6.5	13	8.5	M6	7
JCL-2640	26	8.5	16	9.5	M6	9

Reid Supply
Black Thermoplastic
Thru Hole
Brass Insert
Inch and Metric

Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch						
JCL-460	.59	.22	.39	.18	10-24	.28
JCL-465	.59	.22	.39	.18	10-32	.28
JCL-470	.83	.33	.51	.26	¼-20	.38
JCL-475	1.02	.37	.63	.33	¼-20	.38
JCL-480	1.02	.37	.63	.33	5/16-18	.47
JCL-485	1.30	.49	.79	.41	5/16-18	.47
JCL-490	1.30	.49	.79	.41	⅜-16	.56
Metric						
JCL-2650	15	6	10	4.5	M5	8.5
JCL-2655	21	8.5	13	6.5	M6	12.5
JCL-2665	26	9.5	16	8.5	M8	15
JCL-2675	32	12.5	20	1.5	M10	18

Reid Supply
Black Thermoplastic
Plated Steel Stud
Inch and Metric

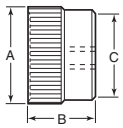



Item No.	A	B	C	D	Stud Thread	Stud Length
Inch						
JCL-495	.59	.22	.39	.18	10-24	.51
JCL-500	.59	.22	.39	.18	10-32	.51
JCL-505	.59	.22	.39	.18	10-24	.98
JCL-510	.59	.22	.39	.18	10-32	.98
JCL-515	.83	.33	.51	.26	¼-20	.39
JCL-520	.83	.33	.51	.26	¼-20	.51
JCL-525	1.02	.37	.63	.33	¼-20	.51
JCL-530	1.02	.37	.63	.33	¼-20	.98
JCL-535	1.30	.49	.79	.41	¼-20	.51
JCL-540	1.30	.49	.79	.41	¼-20	.98
JCL-545	1.30	.49	.79	.41	5/16-18	.98
Metric						
JCL-2680	15	6	10	4.5	M5	16
JCL-2685	15	6	10	4.5	M5	20
JCL-2690	21	8.5	13	6.5	M6	20
JCL-2695	26	9.5	16	8.5	M6	20
JCL-2700	32	10.5	20	10.5	M8	20

Ask Us About Bulk Pricing!

DimcoGray
Black Phenolic
Blind Hole
Brass Insert
Inch and Metric



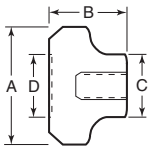


Widely used as terminal nuts for batteries and transformers. Other applications include thumb screw and thumb nuts for light clamping and adjusting devices. All have brass inserts.

Item No.	A	B	C	Insert Thread	Insert Depth
Inch					
DK-132	¾	15/32	⅝	6-32	5/16
DK-40	¾	15/32	⅝	8-32	5/16
DK-133	¾	15/32	⅝	10-24	5/16
DK-41	¾	15/32	⅝	10-32	5/16
DK-42	¾	15/32	⅝	¼-20	5/16
DK-134	¾	15/32	⅝	5/16-18	5/16
Metric					
DK-1167	¾	15/32	⅝	M4 x .70	5/16
DK-1169	¾	15/32	⅝	M6 x 1.0	5/16

Black Thermoplastic
Blind Hole
Brass or Steel Insert
Inch

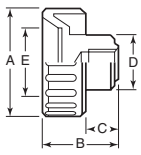




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-500	¾	⅝	½	23/64	8-32	⅜
DK-505	1	⅞	¾	½	¼-20	⅜
DK-510	1 3/16	¾	13/16	41/64	¼-20	⅜
DK-515	1 3/16	¾	13/16	41/64	5/16-18	½
DK-520	1⅝	⅞	1 5/32	49/64	5/16-18	½
DK-525	1⅝	⅞	1 5/32	49/64	⅜-16	½
DK-530	2½	1½	1¼	1¼	⅜-16	½
DK-535*	2½	1½	1¼	1¼	½-13	⅝

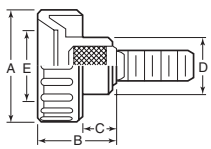
*Steel insert

ELESA
Black Plastic
Blind Hole
Brass Insert
Inch

Item No.	A	B	C	D	E	Insert Thread	Insert Depth
KHU-300	.79	.63	.24	.47	.43	8-32	.24
KHU-305	.79	.63	.24	.47	.43	10-32	.24
KHU-310	.98	.75	.31	.63	.59	10-32	.39
KHU-315	.98	.75	.31	.63	.59	¼-20	.39
KHU-320	1.26	.87	.35	.67	.83	¼-20	.39
KHU-325	1.26	.87	.35	.67	.83	5/16-18	.39

ELESA
Black Plastic
Plated Steel Stud
Inch

Constructed of high strength technopolymer in a black matte finish. Fluted for easy gripping.

Item No.	A	B	C	D	E	Stud Thread	Stud Length
KHU-330	.63	.51	.20	.43	.35	8-32	⅜
KHU-335	.63	.51	.20	.43	.35	8-32	½
KHU-340	.79	.63	.24	.47	.43	8-32	½
KHU-345	.79	.63	.24	.47	.43	8-32	¾
KHU-350	.79	.63	.24	.47	.43	10-32	½
KHU-355	.79	.63	.24	.47	.43	10-32	¾
KHU-360	.98	.75	.31	.63	.59	¼-20	½
KHU-365	.98	.75	.31	.63	.59	¼-20	¾
KHU-370	.98	.75	.31	.63	.59	¼-20	1
KHU-380	1.26	.87	.35	.67	.83	5/16-18	1

KNURLED KNOBS

Constructed of high strength impact resistant technopolymer in a black matte finish. The knob has a blunted diamond knurl, which provides an excellent gripping surface yet is comfortable.

ELESA
Black Plastic
Blind Hole
Brass Insert
Inch



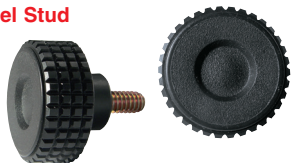
Item No.	A	B	C	D	Insert Thread	Insert Depth
KHU-105	1.22	.87	.35	.59	¼-20	.47
KHU-110	1.57	.94	.43	.67	¼-20	.47
KHU-115	1.57	.94	.43	.67	5/16-18	.51
KHU-120	1.97	1.18	.53	.79	5/16-18	.70
KHU-125	1.97	1.18	.53	.79	⅜-16	.67
KHU-130	2.36	1.38	.59	.91	⅜-16	.79
KHU-135	2.36	1.38	.59	.91	½-13	.79

ELESA
Black Plastic
Blind Hole
Brass Bushing
Inch



Item No.	A	B	C	D	Bushing Dia.	Bushing Depth	Screw Size
KHU-205	1.57	.94	.43	.67	¼	.55	10-32
KHU-210	1.97	1.18	.53	.79	⅜	.79	10-32
KHU-215	2.36	1.38	.59	.91	⅜	.79	¼-20

ELESA
Black Plastic
Plated Steel Stud
Inch



Item No.	A	B	C	D	Stud Thread	Stud Length
KHU-5	1.22	.87	.35	.59	¼-20	.50
KHU-500	1.22	.87	.35	.59	¼-20	.75
KHU-505	1.57	.94	.43	.67	¼-20	.75
KHU-20	1.57	.94	.43	.67	¼-20	1.00
KHU-30	1.57	.94	.43	.67	5/16-18	1.00
KHU-35	1.97	1.18	.53	.79	⅜-16	1.00
KHU-515	1.97	1.18	.53	.79	⅜-16	1.25
KHU-45	2.36	1.38	.59	.91	⅜-16	1.00
KHU-520	2.36	1.38	.59	.91	⅜-16	1.25

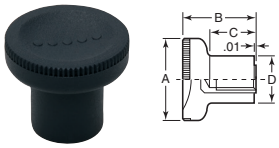
KIPP
Black Thermoplastic
Novo-Grip®
Plated Steel or Stainless Insert
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE



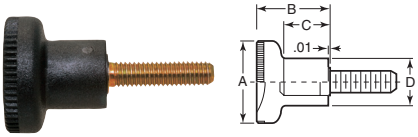
Steel Item No.	Stainless Item No.	A	B	D		Insert Thread	Insert Depth
Inch							
KBP-357	—	1.57	1.22	.51	#10	10-32	.39
KBP-358	KBP-379	1.57	1.22	.51	¼	¼-20	.39
—	KBP-380	1.57	1.22	.51	5/16	5/16-18	.55
—	KBP-381	1.97	1.42	.59	5/16	5/16-18	.55
KBP-361	—	1.97	1.42	.59	⅜	⅜-16	.55
KBP-362	KBP-383	2.48	1.61	.67	⅜	⅜-16	.55
KBP-363	—	2.48	1.61	.67	½	½-13	.71
Metric							
KPB-1540	—	40	31	13	M5	M5 x .80	10
KPB-1543	—	50	36	15	M8	M8 x 1.25	14
KPB-1544	—	50	36	15	M9	M10 x 1.50	14

ELESA
Black Plastic
Brass Insert
Inch



Item No.	A	B	C	D	Insert Thread	Insert Depth
ESP-280	.83	.71	.41	.49	10-32	.39
ESP-285	.98	.89	.55	.57	¼-20	.47
ESP-290	1.22	1.06	.67	.73	5/16-18	.63

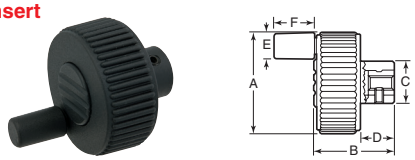
ELESA
Black Plastic
Plated Steel Stud
Inch



Constructed of high strength impact resistant black plastic in a matte finish.

Item No.	A	B	C	D	Stud Thread	Stud Length
ESP-295	.83	.71	.41	.49	10-32	.75
ESP-300	.98	.89	.55	.59	¼-20	.75
ESP-305	1.22	1.06	.67	.73	5/16-18	.75

KIPP
Black Thermoplastic
Novo-Grip® Positioning
Plated Steel Insert
Inch



Item No.	A	B	C	D	E	F	Bore Dia.	Bore Depth	Cross Hole
KBP-397	1.57	1.22	.65	.51	.39	.63	¼	.39	M4
KBP-398	1.97	1.42	.71	.59	.39	.63	¼	.39	M4
KBP-399	2.48	1.61	.87	.67	.39	.63	5/16	.55	M4

KIPP
Black Thermoplastic
Novo-Grip™
Plated Steel or Stainless Stud
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

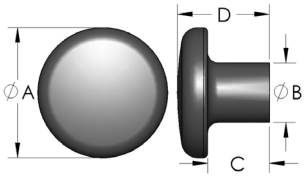


Steel Item No.	Stainless Item No.	A	B	D		Stud Thread	Stud Length
Inch							
—	KBP-385	1.57	1.22	.51	#10	10-32	.39
KBP-365	KBP-386	1.57	1.22	.51	#10	10-32	.79
KBP-366	KBP-387	1.57	1.22	.51	¼	¼-20	.79
KBP-367	—	1.57	1.22	.51	¼	¼-20	1.18
—	KBP-389	1.57	1.22	.51	5/16	5/16-18	.79
KBP-369	KBP-390	1.57	1.22	.51	5/16	5/16-18	1.57
—	KBP-391	1.97	1.42	.59	5/16	5/16-18	.79
KBP-372	—	1.97	1.42	.59	⅜	⅜-16	.79
—	KBP-394	1.97	1.42	.59	⅜	⅜-16	1.57
Metric							
KPB-1548	—	40	31	13	M5	M5 x .80	20
KPB-1549	—	40	31	13	M6	M6 x 1.00	10
KPB-1550	—	40	31	13	M6	M6 x 1.00	20
KPB-1552	—	40	31	13	M8	M8 x 1.25	30
KPB-1556	—	50	36	15	M10	M10 x 1.50	30
KPB-1557	—	63	41	17	M10	M10 x 1.50	20

KNURLED KNOBS

Reid Select
Black Polypropylene
Knurled
Steel Insert
Inch

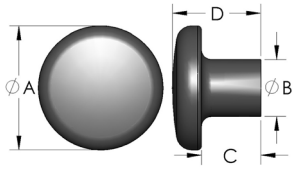




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-880	1.000	.530	.680	.930	Blind Hole	Steel	10-24
ICK-885	1.000	.530	.680	.930	Blind Hole	Steel	1/4-20

Reid Select
Black Polypropylene
Smooth
Steel Insert
Inch

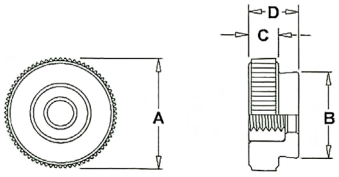




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-910	1.600	.750	.780	1.160	Blind Hole	Steel	1/4-20
ICK-915	1.600	.750	.780	1.160	Blind Hole	Steel	5/16-18
ICK-920	1.600	.750	.780	1.160	Blind Hole	Steel	3/8-16

Reid Select
Black Polypropylene
Knurled
Aluminium Insert
Inch or Metric

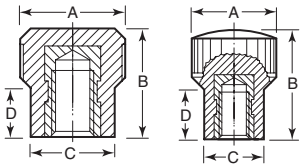




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2075	.625	.420	.170	.250	Thru-Hole	Aluminium	10-24
ICK-2080	.313	.280	.090	.190	Thru-Hole	Aluminium	4-40
ICK-2085	.750	.500	.190	.310	Thru-Hole	Aluminium	1/4-20
ICK-2090	1.000	.590	.180	.410	Thru-Hole	Aluminium	1/4-20
ICK-2095	1.000	.590	.180	.410	Thru-Hole	Aluminium	5/16-18
ICK-2100	.375	.360	.130	.230	Thru-Hole	Aluminium	6-32
ICK-2105	.500	.410	.160	.250	Thru-Hole	Aluminium	8-32
ICK-2110	.375	.360	.130	.230	Thru-Hole	Aluminium	M3
ICK-2115	.500	.410	.160	.250	Thru-Hole	Aluminium	M4
ICK-2120	.625	.420	.170	.250	Thru-Hole	Aluminium	M5
ICK-2125	.750	.500	.190	.310	Thru-Hole	Aluminium	M6
ICK-2130	1.000	.590	.180	.410	Thru-Hole	Aluminium	M8

KIPP
Black Phenolic
Brass Insert
Metric





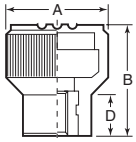
Item No.	Style	A	B	C	D	Insert Thread	Insert Depth
KPB-1010	A	12	13.5	10	6	M3 x .50	6.5
KPB-1011	A	12	13.5	10	6	M4 x .70	10
KPB-1012	A	15	15.5	12	7	M4 x .70	10
KPB-1013	A	15	15.5	12	7	M5 x .80	10
KPB-1014	B	15	15.5	12	7	M6 x 1.0	9

KIPP
Black Thermoplastic
Novo-Grip®
Steel or Stainless Insert
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE



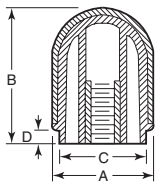




Steel Item No.	Stainless Item No.	A	B	D		Insert Thread	Insert Depth
Inch							
GK-110	GK-140	.83	.87	.32	#10	10-32	.39
GK-115	GK-145	.83	.87	.32	¼	¼-20	.39
GK-120	—	1.02	1.02	.37	5/16	5/16-18	.55
GK-130	GK-160	1.34	1.41	.51	⅜	⅜-16	.55
Metric							
—	GK-195	.83	.87	.32	M4	M4 x .70	.39
GK-175	—	.83	.87	.32	M6	M6 x 1.00	.39
GK-185	—	1.34	1.41	.51	M8	M8 x 1.25	.55

Black Thermoplastic
Soft-Touch Oval and Tapered
Zinc Plated Brass Insert
Inch



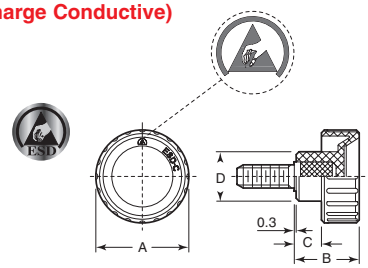


These "soft touch" knobs offer unique styling, rugged construction along, with a soft feel. They are molded with a soft thermoplastic rubber shell around a tough thermoplastic body. The soft feel of the knurling provides a sure grip and a rich, pleasant touch.

Item No.	A	B	C	D	Insert Thread	Insert Depth
RK-105	1.68	2.19	1.34	.19	¼-20	½
RK-115	1.68	2.19	1.34	.19	⅜-16	½
RK-130	1.88	2.45	1.50	.22	5/16-18	½
RK-135	1.88	2.45	1.50	.22	⅜-16	½
RK-140	1.88	2.45	1.50	.22	½-13	⅝

ELESA
Black Plastic
ESD-C (Electrostatic Discharge Conductive)
Steel Stud
Metric



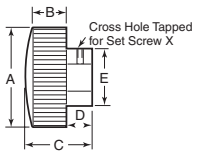


Item No.	A	B	C	D	Insert Thread	Insert Depth
ESP-745	16	13	5	11	M5	10
ESP-746	16	13	5	11	M5	16
ESP-747	20	16	6	11.5	M6	10
ESP-748	20	16	6	11.5	M6	16
ESP-749	20	16	6	11.5	M6	25
ESP-750	25	19	8	16	M8	16
ESP-751	25	19	8	16	M8	25
ESP-752	32	22	9	17	M10	20
ESP-753	32	22	9	17	M10	30

KNURLED KNOBS

DimcoGray Black Phenolic Brass Bushing Inch

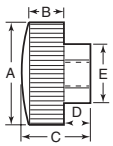




Item No.	A	B	C	D	E	X	Bushing Dia.	Bushing Depth
DK-30	1	1/4	21/32	5/16	5/8	8-32	1/4	3/8
DK-15	1 3/8	9/32	25/32	3/8	3/4	8-32	1/4	3/8
DK-16	1 3/8	9/32	25/32	3/8	3/4	8-32	5/16	1/2
DK-9	1 7/8	5/16	1	1/2	1	10-32	3/8	1/2

DimcoGray Black Phenolic Brass Insert Inch and Metric

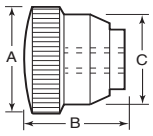




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
Inch							
DK-31	1	1/4	21/32	5/16	5/8	10-32	5/16
DK-32	1	1/4	21/32	5/16	5/8	1/4-20	3/8
DK-130	1	1/4	21/32	5/16	5/8	5/16-18	3/8
DK-17	1 3/8	9/32	25/32	3/8	3/4	1/4-20	7/16
DK-18	1 3/8	9/32	25/32	3/8	3/4	5/16-18	7/16
DK-131	1 7/8	5/16	1	1/2	1	5/16-18	7/16
DK-10	1 7/8	5/16	1	1/2	1	3/8-16	1/2
Metric							
DK-1170	1	1/4	21/32	5/16	5/8	M5 x .80	5/16
DK-1171	1	1/4	21/32	5/16	5/8	M6 x 1.0	3/8
DK-1172	1	1/4	21/32	5/16	5/8	M8 x 1.25	3/8
DK-1173	1 3/8	9/32	25/32	3/8	3/4	M6 x 1.0	7/16
DK-1174	1 3/8	9/32	25/32	3/8	3/4	M8 x 1.25	7/16
DK-1175	1 7/8	5/16	1	1/2	1	M8 x 1.25	7/16
DK-1176	1 7/8	5/16	1	1/2	1	M10 x 1.50	1/2

DimcoGray Black Thermoplastic Brass Insert Inch

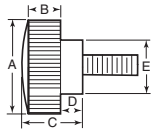




Item No.	A	B	C	Insert Thread	Insert Depth
DK-275	3/4	17/32	5/8	6-32	5/16
DK-280	3/4	17/32	5/8	8-32	5/16
DK-285	3/4	17/32	5/8	10-32	5/16
DK-290	3/4	17/32	5/8	10-24	5/16
DK-295	3/4	17/32	5/8	1/4-20	5/16

DimcoGray Black Phenolic Plated Steel or Stainless Stud Inch

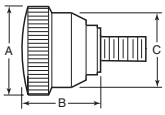




STAINLESS STEEL OPTION AVAILABLE

Steel Item No.	Stainless Item No.	A	B	C	D	E	Stud Thread	Stud Length
DK-540	—	1	13/32	13/32	—	1/2	6-32	3/4
DK-545	—	1	13/32	13/32	—	1/2	1/4-20	3/4
DK-33	DKS-33	1	1/4	21/32	5/16	5/8	10-32	1/2
DK-34	DKS-34	1	1/4	21/32	5/16	5/8	10-32	1
DK-35	DKS-35	1	1/4	21/32	5/16	5/8	1/4-20	1/2
DK-36	DKS-36	1	1/4	21/32	5/16	5/8	1/4-20	1
DK-19	DKS-19	1 3/8	9/32	25/32	3/8	3/4	1/4-20	1/2
DK-20	DKS-20	1 3/8	9/32	25/32	3/8	3/4	1/4-20	1 1/4
DK-21	DKS-21	1 3/8	9/32	25/32	3/8	3/4	5/16-18	3/4
DK-22	DKS-22	1 3/8	9/32	25/32	3/8	3/4	5/16-18	1 1/2
DK-11	DKS-11	1 7/8	5/16	1	1/2	1	5/16-18	1
DK-12	DKS-12	1 7/8	5/16	1	1/2	1	5/16-18	2
DK-13	DKS-13	1 7/8	5/16	1	1/2	1	3/8-16	1
DK-14	DKS-14	1 7/8	5/16	1	1/2	1	3/8-16	2
DK-550	—	1 7/8	1/2	3/4	1/4	1	3/8-16	1

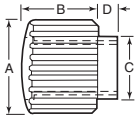
DimcoGray Black Phenolic Plated Steel or Stainless Stud Inch

STAINLESS STEEL OPTION AVAILABLE

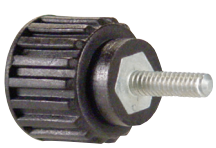
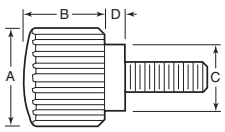
Steel Item No.	Stainless Item No.	A	B	C	Stud Thread	Stud Length
DK-450	—	3/4	17/32	5/8	8-32	1/2
DK-455	—	3/4	17/32	5/8	8-32	1
DK-460	—	3/4	17/32	5/8	10-24	1/2
DK-465	—	3/4	17/32	5/8	10-24	1
DK-43	DKS-43	3/4	17/32	5/8	10-32	1/2
DK-44	DKS-44	3/4	17/32	5/8	10-32	1
DK-45	DKS-45	3/4	17/32	5/8	1/4-20	1/2
DK-46	DKS-46	3/4	17/32	5/8	1/4-20	1

Reid Select Black Thermoplastic Thru Hole Brass Insert Inch

Item No.	A	B	C	D	Insert Thread	Insert Depth
JCL-690	.69	.51	.47	.16	6-32	.21
JCL-695	.69	.51	.47	.16	8-32	.25
JCL-700	.69	.51	.47	.16	10-32	.28

Reid Supply Black Thermoplastic Plated Steel Stud Inch and Metric

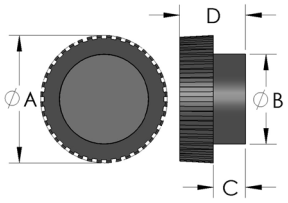



Item No.	A	B	C	D	Stud Thread	Stud Length
Inch						
JCL-675	.69	.51	.47	.16	6-32	.51
JCL-680	.69	.51	.47	.16	8-32	.51
JCL-685	.69	.51	.47	.16	10-32	.51
Metric						
JCL-2585	17.5	13.5	12	4	M4	10
JCL-2590	17.5	13.5	12	4	M4	16
JCL-2595	17.5	13.5	12	4	M4	25

KNURLED KNOBS

Reid Select Black Nylon Knurled Steel Insert Inch

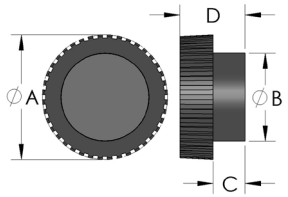




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2175	.750	.500	.170	.480	Blind Hole (Stop Nut)	Steel	10-24
ICK-2180	.750	.500	.170	.480	Blind Hole (Stop Nut)	Steel	10-32

Reid Select Black Nylon Knurled Steel Stud Inch

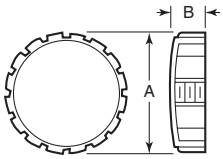




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-2195	.750	.500	.170	.480	.625	Steel	8-32
ICK-2200	.750	.500	.170	.480	.625	Steel	10-24
ICK-2205	.750	.500	.170	.480	.500	Steel	1/4-20
ICK-2210	.750	.500	.170	.480	1.000	Steel	1/4-20
ICK-2215	.750	.500	.170	.480	1.620	Steel	1/4-20

Black Thermoplastic Soft Touch Plated Brass Insert Inch



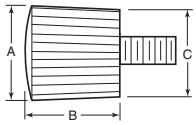


Item No.	A	B	Insert Thread	Insert Depth
RK-14	2.26	.67	10-32	.50
RK-16	2.26	.67	¼-20	.50
RK-18	2.26	.67	⅜-16	.50

DimcoGray Black Phenolic Plated Steel Stud Inch





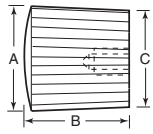


Item No.	A	B	C	Stud Thread	Stud Length
DK-200	⅝	9/16	½	6-32	½
DK-205	⅝	9/16	½	6-32	1
DK-210	⅝	9/16	½	8-32	½
DK-215	⅝	9/16	½	8-32	1
DK-220	⅝	9/16	½	10-32	½
DK-225	⅝	9/16	½	10-32	1
DK-230	⅝	9/16	½	10-24	½
DK-235	⅝	9/16	½	10-24	1

DimcoGray Black Thermoplastic Brass Insert Inch





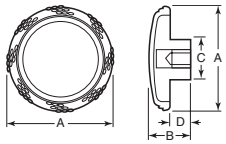


Item No.	A	B	C	Insert Thread	Insert Depth
DK-250	⅝	9/16	½	6-32	5/16
DK-255	⅝	9/16	½	8-32	5/16
DK-260	⅝	9/16	½	10-32	5/16

These "soft touch" knobs offer unique styling and rugged construction along with a soft feel. They are molded with a soft thermoplastic rubber shell around a tough thermoplastic body. The soft feel of the knurling provides a sure grip and a rich, pleasant touch.

Black Thermoplastic Soft Touch Plated Brass Insert Inch

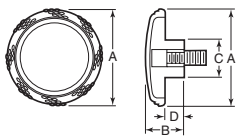




Item No.	A	B	C	D	Insert Thread	Insert Depth
RK-19	.98	.675	.50	.42	10-32	.50
RK-21	.98	.675	.50	.42	¼-20	.50
RK-26	1.57	.655	.75	.32	¼-20	.50
RK-27	1.57	.655	.75	.32	5/16-18	.50
RK-28	1.57	.655	.75	.32	⅜-16	.50
RK-29	1.97	.650	.77	.21	¼-20	.50
RK-31	1.97	.650	.77	.21	5/16-18	.50
RK-32	1.97	.650	.77	.21	⅜-16	.50

Black Thermoplastic Soft Touch Plated Steel Stud Inch



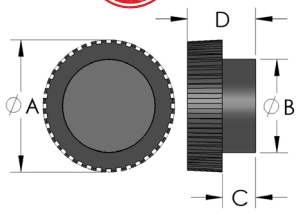


Item No.	A	B	C	D	Stud Thread	Stud Length
RK-33	.98	.675	.50	.42	10-32	½
RK-34	.98	.675	.50	.42	10-32	1
RK-36	.98	.675	.50	.42	¼-20	½
RK-37	.98	.675	.50	.42	¼-20	1
RK-46	1.57	.655	.75	.32	5/16-18	1
RK-47	1.57	.655	.75	.32	5/16-18	1½
RK-48	1.57	.655	.75	.32	⅜-16	1
RK-50	1.97	.650	.77	.21	¼-20	½
RK-51	1.97	.650	.77	.21	¼-20	1
RK-52	1.97	.650	.77	.21	5/16-18	1
RK-53	1.97	.650	.77	.21	5/16-18	1½
RK-54	1.97	.650	.77	.21	⅜-16	1
RK-55	1.97	.650	.77	.21	⅜-16	1½

KNURLED KNOBS

Reid Select Black Nylon Knurled Steel or Nylon Insert Inch

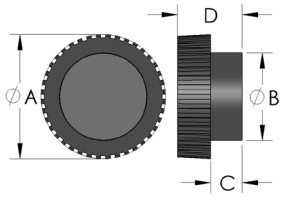




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2220	1.000	.630	.170	.580	Blind Hole	Steel	10-32
ICK-2225	1.000	.630	.170	.580	Blind Hole	Steel	10-24
ICK-2230	1.000	.630	.170	.580	Blind Hole	Steel	1/4-20
ICK-2235	1.000	.630	.170	.580	Blind Hole (Molded)	Nylon	1/4-20
ICK-2240	1.000	.630	.170	.580	Blind Hole (Stop Nut)	Steel	5/16-18
ICK-2245	1.000	.630	.170	.580	Blind Hole	Steel	8-32

Reid Select Black Nylon Knurled Steel Insert Inch

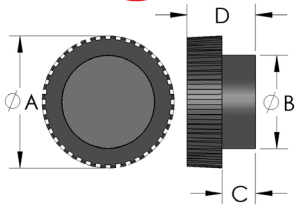




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2250	.750	.500	.280	.500	Blind Hole (Stop Nut)	Steel	10-24
ICK-2255	.750	.500	.280	.500	Blind Hole	Steel	10-24
ICK-2260	.750	.500	.280	.500	Blind Hole (Stop Nut)	Steel	10-32

Reid Select Black Polypropylene Knurled Steel Stud Inch

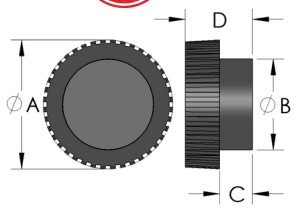




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-2265	1.000	.630	.090	.500	.500	Steel	10-32
ICK-2270	1.000	.630	.090	.500	.750	Steel	10-32
ICK-2275	1.000	.630	.400	.810	.750	Steel	10-32
ICK-2280	1.000	.630	.170	.580	1.250	Steel	10-32
ICK-2285	1.000	.630	.090	.500	.750	Steel	10-24
ICK-2290	1.000	.630	.090	.500	.370	Steel	1/4-20
ICK-2295	1.000	.630	.090	.500	.500	Steel	1/4-20
ICK-2300	1.000	.630	.170	.580	.500	Steel	1/4-20
ICK-2305	1.000	.630	.090	.500	.625	Steel	1/4-20
ICK-2310	1.000	.630	.090	.500	.750	Steel	1/4-20
ICK-2315	1.000	.630	.170	.580	1.000	Steel	1/4-20
ICK-2320	1.000	.630	.090	.500	1.500	Steel	1/4-20
ICK-2325	1.000	.630	.090	.500	2.125	Steel	1/4-20
ICK-2330	1.000	.630	.170	.580	.500	Steel	5/16-18
ICK-2335	1.000	.630	.400	.810	.620	Steel	5/16-18
ICK-2340	1.000	.630	.170	.580	.750	Steel	5/16-18
ICK-2345	1.000	.630	.170	.580	.875	Steel	5/16-18
ICK-2350	1.000	.630	.170	.580	1.500	Steel	5/16-18

Reid Select Black Nylon Knurled Steel Insert Inch

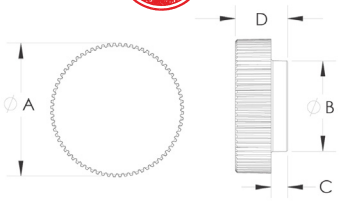




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-2355	.750	.500	.280	.500	.250	Steel	8-32
ICK-2360	.750	.500	.280	.500	.500	Steel	10-24
ICK-2365	.750	.500	.280	.500	.375	Steel	1/4-20
ICK-2370	.750	.500	.280	.500	.500	Steel	1/4-20

Reid Select Black Acetal Knurled Press Fit Inch or Metric

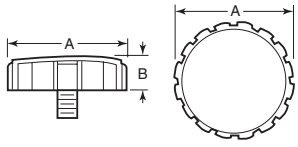




Item No.	A	B	C	D	Compatible Thread Size
ICK-2455	.750	.500	.170	.310	1/4
ICK-2460	1.000	.590	.270	.410	1/4
ICK-2465	1.000	.590	.270	.410	5/16
ICK-2470	.375	.360	.170	.230	M3
ICK-2475	.500	.410	.180	.250	M4
ICK-2480	.625	.420	.170	.250	M5
ICK-2485	1.000	.590	.270	.410	M5
ICK-2490	.750	.500	.170	.310	M6
ICK-2495	1.000	.590	.270	.410	M6
ICK-2500	1.000	.590	.270	.410	M8
ICK-2505	.313	.280	.130	.190	#4
ICK-2510	.313	.280	.130	.190	#6
ICK-2515	.375	.360	.170	.230	#6
ICK-2520	.375	.360	.170	.230	#8
ICK-2525	.500	.410	.180	.250	#10
ICK-2530	.500	.410	.180	.250	#8
ICK-2535	.625	.420	.170	.250	#11
ICK-2540	.625	.420	.170	.250	#8
ICK-2545	.750	.500	.170	.310	#12
ICK-2550	1.000	.590	.270	.410	#13

Black Thermoplastic Soft Touch Plated Steel Stud Inch





Item No.	A	B	Stud Thread	Stud Length
RK-197	2.26	.67	10-32	½
RK-88	2.26	.67	¼-20	½
RK-89	2.26	.67	¼-20	1
RK-91	2.26	.67	5/16-18	1
RK-93	2.26	.67	⅜-16	1
RK-94	2.26	.67	⅜-16	1½

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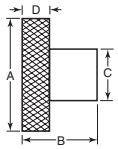
METAL KNURLED KNOBS

Reid Select
Steel or Stainless Steel
Blind or Thru Hole
Tapped, Blind or Reamed
Inch

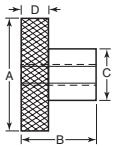
STAINLESS STEEL OPTION AVAILABLE



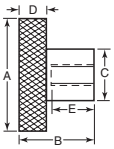




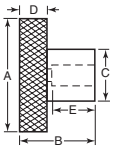
Blank



Tapped Thru



Tapped



Reamed

Designed for applications where plastic or aluminum won't hold up, yet appearance is important. Steel knobs are 12L14 steel with black oxide finish. Stainless knobs are Type 303.

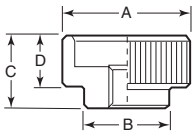
Blank Steel				
Item No.	A	B	C	D
KKB-1	¾	⅝	½	¼
KKB-2	1	¾	⅝	¼
KKB-3	1½	1	¾	5/16
KKB-4	2	1⅛	1	⅜

Tapped Thru Hole		Blind Tapped Hole				Blind Reamed Hole								
Steel		Steel		Stainless		Steel		Stainless						
Item No.	Thread	Item No.	Thread	Item No.	Thread	Item No.	Thread	Item No.	Thread	A	B	C	D	Min. Depth E
KKT-10A	10-32	KKT-0A	10-32	SKKT-0A	10-32	—	—	—	—	¾	⅝	½	¼	⅜
KKT-11A	10-24	KKT-1A	10-24	SKKT-1A	10-24	KKR-1A	3/16	SKKR-1A	3/16	¾	⅝	½	¼	⅜
KKT-11B	¼-20	KKT-1B	¼-20	SKKT-1B	¼-20	KKR-1B	¼	SKKR-1B	¼	¾	⅝	½	¼	⅜
KKT-12A	¼-20	KKT-2A	¼-20	SKKT-2A	¼-20	KKR-2A	¼	SKKR-2A	¼	1	¾	⅝	¼	½
KKT-12B	5/16-18	KKT-2B	5/16-18	SKKT-2B	5/16-18	KKR-2B	5/16	SKKR-2B	5/16	1	¾	⅝	¼	½
KKT-13A	5/16-18	KKT-3A	5/16-18	SKKT-3A	5/16-18	KKR-3A	5/16	SKKR-3A	5/16	1½	1	¾	5/16	⅝
KKT-13B	⅜-16	KKT-3B	⅜-16	SKKT-3B	⅜-16	KKR-3B	⅜	SKKR-3B	⅜	1½	1	¾	5/16	⅝
KKT-14A	⅜-16	KKT-4A	⅜-16	SKKT-4A	⅜-16	KKR-4A	⅜	SKKR-4A	⅜	2	1⅛	1	⅜	⅝
KKT-14B	½-13	KKT-4B	½-13	SKKT-4B	½-13	KKR-4B	½	SKKR-4B	½	2	1⅛	1	⅜	⅝
KKT-15A	½-13	KKT-5A	½-13	—	—	KKR-5A	½	—	—	2½	1½	1½	9/16	¾
KKT-15B	⅝-11	KKT-5B	⅝-11	—	—	KKR-5B	⅝	—	—	2½	1½	1½	9/16	¾
KKT-16A	⅝-11	KKT-6A	⅝-11	—	—	KKR-6A	⅝	—	—	3	1¾	1¾	⅝	1
KKT-16B	¾-10	KKT-6B	¾-10	—	—	KKR-6B	¾	—	—	3	1¾	1¾	⅝	1

KIPP
Stainless Steel Type 303
Thru Hole
Inch

STAINLESS STEEL OPTION AVAILABLE

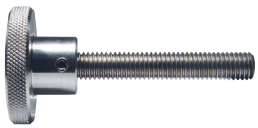


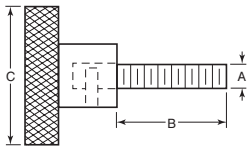


Item No.	A	B	C	D	Thread
KHJ-116	.787	.55	.47	.32	10-24
KHJ-118	.944	.63	.55	.39	¼-20
KHJ-120	1.180	.78	.67	.47	5/16-18
KHJ-122	1.420	1.10	.79	.55	⅜-16
KHJ-124	1.570	1.26	.94	.63	½-13

Reid Select
Steel or Stainless Steel Assemblies
Steel or Stainless Steel Stud
Inch

STAINLESS STEEL OPTION AVAILABLE





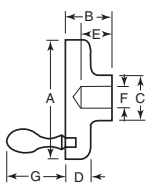
Assembly consists of knurled knob, listed above, with threaded stud. Stud assembled to knob with light press fit and held in place with spring pin. Steel knobs are 12L14 with black oxide finish. Stainless knobs are Type 303 with a 420 stainless steel spring pin and 18-8 stainless stud.

Steel		Stainless				
Item No.	Knob Used	Item No.	Knob Used	A	B	C
SKA-00	KKR-1A	SSKA-00	SKKR-1A	10-32	½	¾
SKA-0	KKR-1A	SSKA-0	SKKR-1A	10-32	1	¾
SKA-1	KKR-1A	SSKA-1	SKKR-1A	10-24	½	¾
SKA-2	KKR-1A	SSKA-2	SKKR-1A	10-24	1	¾
SKA-3	KKR-1B	SSKA-3	SKKR-1B	¼-20	¾	¾
SKA-4	KKR-1B	SSKA-4	SKKR-1B	¼-20	1¼	¾
SKA-5	KKR-2A	SSKA-5	SKKR-2A	¼-20	1¾	1
SKA-6	KKR-2A	SSKA-6	SKKR-2A	¼-20	3	1
SKA-7	KKR-2B	SSKA-7	SKKR-2B	5/16-18	1¾	1
SKA-8	KKR-2B	SSKA-8	SKKR-2B	5/16-18	3	1
SKA-9	KKR-3A	SSKA-9	SKKR-3A	5/16-18	1¾	1½
SKA-10	KKR-3A	SSKA-10	SKKR-3A	5/16-18	3	1½
SKA-11	KKR-3B	SSKA-11	SKKR-3B	⅜-16	1¾	1½
SKA-12	KKR-3B	SSKA-12	SKKR-3B	⅜-16	3	1½
SKA-13	KKR-4A	SSKA-13	SKKR-4A	⅜-16	1¾	2
SKA-14	KKR-4A	SSKA-14	SKKR-4A	⅜-16	3	2
SKA-15	KKR-4B	SSKA-15	SKKR-4B	½-13	1¾	2
SKA-16	KKR-4B	SSKA-16	SKKR-4B	½-13	3	2
SKA-17	KKR-5A	—	—	½-13	1¾	2½
SKA-18	KKR-5A	—	—	½-13	3	2½
SKA-19	KKR-5B	—	—	⅝-11	1¾	2½
SKA-20	KKR-5B	—	—	⅝-11	3	2½
SKA-24	KKR-6B	—	—	¾-10	3	3

Aluminum
w/ Handle
Inch



Diamond Knurled w/ Handle



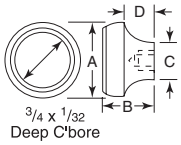
Item No.	A	B	C	D	E	F	G
GH-1N	2	1.125	.813	.563	.875	.375	1.281

PUSH-PULL KNOBS

Push-pull knobs feature tapered shanks and enlarged heads to provide good finger clearance and excellent grasp for pulling or lifting. Top surfaces make them equally good for pushing functions. Popular applications include push-pull rods, palm switch knobs, lid knobs, palm grasp knobs for portable power tools, push buttons and drawer pulls.

DimcoGray Black ABS Brass Insert Inch

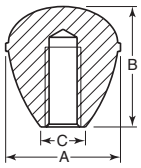




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-77	1	11/16	1/2	7/16	8-32	5/16
DK-78	1	11/16	1/2	7/16	10-24	5/16
DK-79	1	11/16	1/2	7/16	10-32	5/16
DK-80	1	11/16	1/2	7/16	1/4-20	5/16

Reid Select Black Phenolic Molded Thread Insert Inch

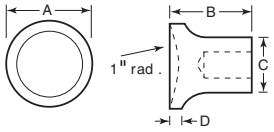




Item No.	A	B	C	Insert Thread	Insert Depth
RST-31	.75	.71	.35	10-24	.31
RST-32	.91	.91	.43	1/4-20	.39
RST-33	1.02	.98	.47	1/4-20	.39
RST-34	1.22	1.14	.55	5/16-18	.55
RST-35	1.38	1.38	.63	3/8-16	.55

DimcoGray Black ABS Brass Insert Inch

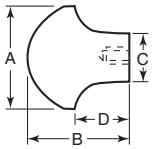




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-99	3/4	3/4	1/2	3/32	6-32	5/16
DK-100	3/4	3/4	1/2	3/32	8-32	5/16
DK-101	3/4	3/4	1/2	3/32	10-24	5/16
DK-102	3/4	3/4	1/2	3/32	10-32	5/16
DK-103	3/4	3/4	1/2	3/32	1/4-20	5/16

DimcoGray Black Phenolic Brass Insert Inch

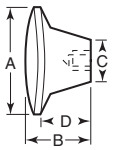




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-485	1	13/16	9/16	11/16	10-32	5/16
DK-490	1	13/16	9/16	11/16	1/4-20	5/16

DimcoGray Black Phenolic Brass Insert Inch

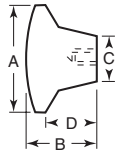




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-470	1 13/16	1 3/16	5/8	7/8	1/4-20	7/16
DK-480	1 13/16	1 3/16	5/8	7/8	3/8-16	1/2
DK-47	1 3/8	7/8	5/8	5/8	8-32	5/16
DK-48	1 3/8	7/8	5/8	5/8	10-32	5/16
DK-49	1 3/8	7/8	5/8	5/8	1/4-20	7/16
DK-492	1 3/8	7/8	5/8	5/8	3/8-16	1/2

DimcoGray Black Phenolic Brass Insert Inch

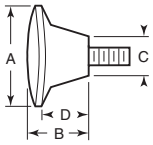




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-800	1	27/32	9/16	11/16	8-32	3/8
DK-805	1	27/32	9/16	11/16	10-24	5/16
DK-810	1	27/32	9/16	11/16	10-32	5/16
DK-815	1	27/32	9/16	11/16	1/4-20	7/16
DK-820	1	27/32	9/16	11/16	5/16-18	7/16

DimcoGray Black Phenolic Plated Steel Stud Inch



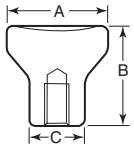


Item No.	A	B	C	D	Stud Thread	Stud Length
DK-50	1 3/8	7/8	5/8	5/8	1/4-20	1/2
DK-51	1 3/8	7/8	5/8	5/8	1/4-20	1
DK-52	1 3/8	7/8	5/8	5/8	5/16-18	3/4
DK-53	1 3/8	7/8	5/8	5/8	5/16-18	1 1/4

KIPP Stainless Steel Type 303 Tapped Inch

STAINLESS STEEL OPTION AVAILABLE





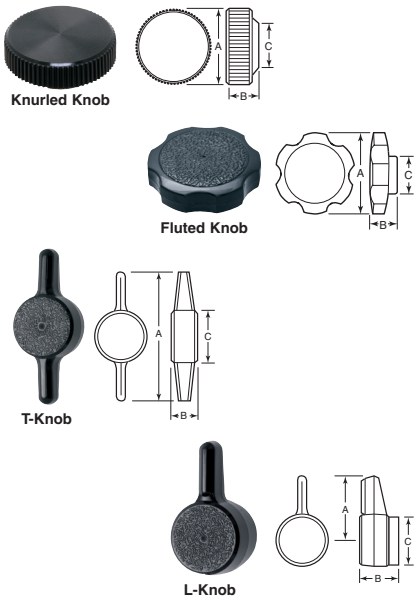
Item No.	A	B	C	Thread	Depth
KHJ-108	.827	.827	.47	8-32	.39
KHJ-110	.827	.827	.47	10-24	.39
KHJ-112	.984	.984	.55	1/4-20	.39
KHJ-114	1.300	1.300	.71	5/16-18	.55

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THUMB SCREW & CONTROL KNOBS

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Delrin 500 Acetal Resin
Individual
Inch and Metric



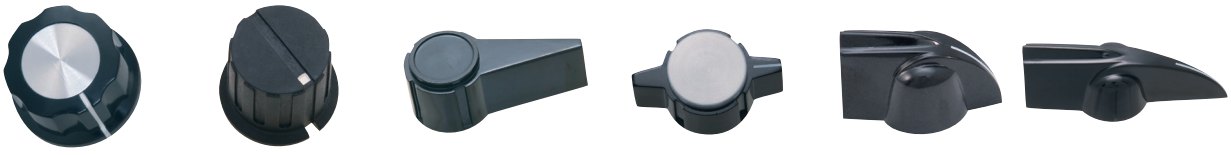
Black Item No.	Red Item No.	Grey Item No.	Yellow Item No.	Fits Screw	A	B	C
Knurled - Inch							
SLK-1	SLK-1R	—	—	# 4	5/16	11/64	9/32
SLK-2	SLK-2R	—	—	# 6	3/8	3/16	21/64
SLK-3	SLK-3R	—	—	# 8	1/2	7/32	3/8
SLK-4	SLK-4R	SLK-4G	SLK-4Y	#10	5/8	1/4	27/64
SLK-5	SLK-5R	SLK-5G	SLK-5Y	1/4	3/4	5/16	1/2
SLK-6	SLK-6R	—	SLK-6Y	1/4	1	5/16	1/2
SLK-7	SLK-7R	—	—	5/16	1	13/32	19/32
Knurled - Metric							
SLK-200	—	—	—	M3	9.6	4.4	8.3
SLK-300	—	—	—	M4	13	5.5	9.8
SLK-400	—	—	—	M5	16	6.5	11.5
SLK-500	SLK-500R	SLK-500G	—	M6	19	7.6	13.0
SLK-600	—	SLK-600G	—	M6	26	7.8	13.0
SLK-700	SLK-700R	—	—	M8	26	9.8	16.0
Fluted - Inch							
SLK-1000	—	—	—	M10	38	12.5	19.5
SLK-8	SLK-8R	—	—	1/4	1 1/2	15/32	17/32
SLK-9	—	—	—	5/16	1 1/2	13/32	37/64
SLK-10	SLK-10R	SLK-10G	SLK-10Y	3/8	1 1/2	15/32	45/64
Fluted - Metric							
SLK-800	—	—	—	M6	38	12.2	14.1
SLK-900	—	—	—	M8	38	10.0	16.0
T - Inch							
SLK-11	SLK-11R	—	—	#10	1	1/4	7/16
SLK-12	SLK-12R	—	SLK-12Y	1/4	1 1/4	5/16	33/64
SLK-13	—	—	—	5/16	1 1/2	13/32	5/8
T - Metric							
SLK-1100	—	—	—	M5	26	6.6	12.0
SLK-1200	—	—	—	M6	30	7.8	13.5
SLK-1300	—	—	—	M8	38	10.0	16.5
L - Inch							
SLK-15	—	—	—	#10	9/16	11/32	29/64
SLK-16	SLK-16R	—	—	1/4	11/16	7/16	33/64

Delrin 500 Acetal Resin
Assortments
Inch and Metric

Item No.	Description
SLK-280	280 Pcs. Inch Asst. - Black 20 Ea. of SLK-1 thru SLK-16
SLK-622	340 Pcs. Inch Asst. SLK-1 thru SLK-16 - 10 Black, 5 Red, 5 Grey
SLK-260	260 Pcs. Metric Asst. - Black 20 Ea. of SLK-200 thru SLK-1300
SLK-621	260 Pc. Metric Asst. SLK-200 thru SLK-1300 - 10 Black, 5 Red, 5 Grey



Black Plastic
Inch



All control knobs have a 1/4" brass bushing and set screw, except for DK-1102, DK-1103 and DK-1104, which have a plain hole.

Item No.	Style	Height	Width	Item No.	Style	Height	Width
DK-1100	A	15/32	23/32	DK-1150	B	25/32	15/16
DK-1105	A	39/64	1	DK-1155	B	23/32	1 3/8
DK-1110	A	21/32	1 9/32	DK-1101	C	5/8	1 5/8
DK-1120	A	51/64	1 47/64	DK-1102*	D	5/8	1 1/4
DK-1140	B	9/16	19/32	DK-1103*	E	5/8	1 1/4
DK-1145	B	39/64	25/32	DK-1104*	F	5/8	2

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

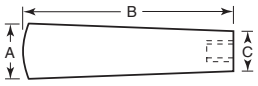
TAPERED & HANDLE STYLE KNOBS

The larger sizes are suitable for shift levers, control levers and push-pull rods on machine tools, lawn and garden equipment, jigs and fixtures, etc. The smaller sizes are ideal for fingertip levers and push-pull or lid knobs.

DimcoGray Black Phenolic Tapered Brass Insert or Counterbored Inch

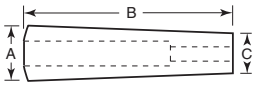


Brass Insert





Counterbored

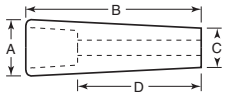


Item No.	A	B	C	Insert Thread	Insert Depth
BTH-21	1	1¼	½	¼-20	7/16
BTH-22	1	1¼	½	5/16-18	7/16
BTH-10	1	2⅝	⅝	¼-20	7/16
BTH-11	1	2⅝	⅝	5/16-18	7/16
BTH-12	1	2⅝	⅝	⅜-16	½
BTH-1*	1⅛	3⅜	¾	—	—
BTH-13	1⅛	3⅜	¾	¼-20	½
BTH-14	1⅛	3⅜	¾	5/16-18	⅝
BTH-2	1⅛	3⅜	¾	⅜-16	⅝
BTH-3	1⅛	3⅜	¾	⅜-24	⅝
BTH-4	1⅛	3⅜	¾	7/16-20	⅝
BTH-5	1⅛	3⅜	¾	⅜-16	2
BTH-6	1⅛	3⅜	¾	⅜-24	2
BTH-7	1⅛	3⅜	¾	7/16-20	2

*BTH-1 has 17/64" cored hole 1" deep from small end and ½" diameter counterbore extending from large end to meet small hole. Used for revolving handle.

DimcoGray Black Phenolic Tapered Thru Hole Inch



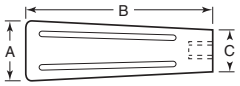


Use with socket head cap screws.

Item No.	A	B	C	D	Thru Hole Actual	Thru Hole Nominal
BTH-16	1	2 9/16	⅝	⅝	.251/.256	¼
BTH-17	1⅛	3 11/16	¾	2⅝	.380/.385	⅜
BTH-18	1⅛	3 11/16	¾	2⅝	.505/.515	½
BTH-19	1⅜	4 3/32	1	2⅝	.380/.390	⅜
BTH-20	1⅜	4 3/32	1	2⅝	.500/.510	½

Black Phenolic Tapered Ribbed Brass Insert Inch





Item No.	A	B	C	Insert Thread	Insert Depth
BTH-168	1⅜	4⅜	1	⅜-16	¾
BTH-169	1⅜	4⅜	1	½-13	1

These press-on knobs hold securely without threads or set screws. Knob is held in place with a ribbed insert that squeezes onto the shaft. Simply pound or press onto the shaft. Eliminates machining costs. Knobs won't come off under normal use, however, they can be removed by pounding on the underside with a hammer. Shaft diameter should be +.000/-.003 of size for best fit.

Black Phenolic Press-on Tapered Inch



Item No.	Dia.	Length	Shaft Dia.	Bore Depth
POK-110	⅞	1⅛	¼	⅝
POK-115	1⅛	1⅜	5/16	9/16
POK-120	1⅜	1⅝	⅜	¾
POK-125	1⅜	1⅝	½	¾

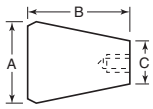
Black Phenolic Press-on Handle Inch



Item No.	Dia.	Length	Shaft Dia.	Bore Depth
POH-20	1.18	4.33	⅝	3¾

DimcoGray Black Phenolic Tapered Brass Insert Inch

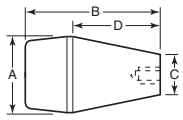




Item No.	A	B	C	Insert Thread	Insert Depth
BD-60	¾	⅞	⅜	6-32	5/16
BD-65	¾	⅞	⅜	8-32	5/16
BD-70	¾	⅞	⅜	10-24	5/16
BD-75	¾	⅞	⅜	10-32	5/16

DimcoGray Black Thermoplastic Tapered Soft Touch Brass Insert Inch





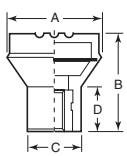
Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-180	1½	2½	15/16	1½	¼-20	⅝
DK-181	1½	2½	15/16	1½	5/16-18	¾
DK-182	1½	2½	15/16	1½	⅜-16	⅝
DK-183	1½	2½	15/16	1½	½-13	⅝

KIPP Black Thermoplastic Mushroom Novo-Grip™ Steel or Stainless Insert Inch and Metric

STAINLESS STEEL OPTION AVAILABLE







Steel Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch							
GK-305	—	.83	.83	.47	.39	8-32	.39
GK-315	—	.98	.98	.55	.47	¼-20	.39
Metric							
GK-355	GK-375	.98	.98	.55	.47	M6 x 1.00	.39
—	GK-380	1.30	1.30	.71	.59	M8 x 1.25	.55

Customer Service: (800) 253-0421 • (231) 777-3951

Reid SUPPLY AN ESSENTRA COMPANY

TAPERED KNOBS - METAL AND VISUAL DETECTABLE

ELESA
Metal Detectable Technopolymer
Stainless Steel / Metric
Tapered Handles



This cylindrical handle contains iron oxide powder for the detectability of the plastic material by means of a metal detector. M10 thread. Threaded blind hole.

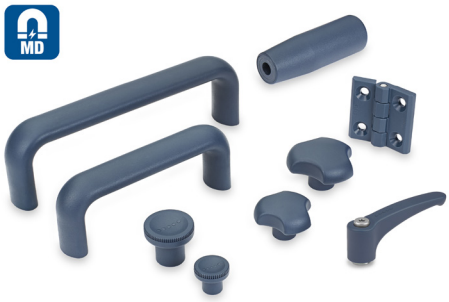
Standard components are crafted using specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts and are suitable for contact with food (FDA CFR.21 and EU 10/2011). A special additive used in manufacturing the plastic allows for the detection of cubic particles measuring 5 mm by means of a metal detector. The specific and unique quality of the blue color used is naturally absent in the environment in which these components are applied, allowing for easy visual detection of contaminant parts. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

Ideal for Food and Pharmaceutical Equipment

Metal Detectable
Specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts

Part #	Description
EHP-55MD	CYLINDRICAL HANDLE M10 METAL DETECTABLE

SEE ALSO MD HANDLES, KNOBS & HINGES



ELESA
Visual Detectable Technopolymer
Tapered Handles



Standard components are made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts. This shade of blue is easily detectable and recognizable to the human eye thanks to the specified nature of the color and the fact that it is naturally absent in the environment in which these components are used. The material is suitable for contact with food (FDA CFR.21 and EU 10/2011) and is in full compliance with international regulations, contributing to increased levels of safety in food production processes wherever applied. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

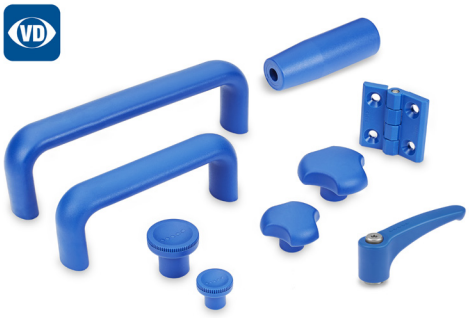
This tapered handle shade of blue is easily recognizable to the human eye. Plastic material is suitable for contact with food and is ideal for food and pharmaceutical equipment.

Ideal for Food and Pharmaceutical Equipment

Visual Detectable
Made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts.

Part #	
EHP-55VD	CYLINDRICAL HANDLE M10 VISUAL DETECTABLE

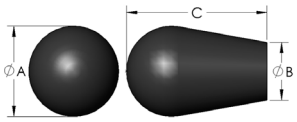
SEE ALSO VD HANDLES, KNOBS & HINGES



TAPERED & HANDLE STYLE KNOBS

Reid Select Black Polypropylene Tapered Steel or Poly Insert Inch

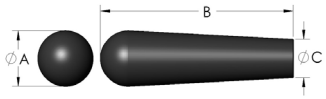




Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-840	1.380	.920	2.000	Blind Hole (Stop Nut)	Steel	10-32
ICK-845	1.380	.920	2.000	Blind Hole	Steel	1/4-20
ICK-850	1.380	.920	2.000	Blind Hole	Steel	5/16-18
ICK-855	1.380	.920	2.000	Blind Hole (Stop Nut)	Steel	3/8-16
ICK-860	1.630	1.000	2.420	Blind Hole	Polypropylene	1/2-13
ICK-865	1.380	.920	2.000	Blind Hole	Polypropylene	3/8-16
ICK-870	1.630	1.000	2.420	Blind Hole	Polypropylene	3/8-16
ICK-875	1.380	.920	2.000	Blind Hole (Stop Nut)	Polypropylene	1/2-13

Reid Select Black Polypropylene Tapered Steel Insert Inch

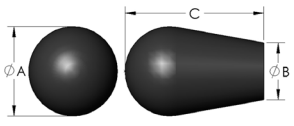


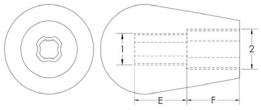


Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-890	1.110	.760	3.850	Blind Hole	Steel	1/4-20
ICK-895	1.110	.760	3.850	Blind Hole	Steel	5/16-18
ICK-900	1.110	.760	3.850	Blind Hole	Steel	3/8-16
ICK-905	1.110	.760	3.850	Blind Hole	Steel	1/2-13

Reid Select Black Polypropylene Tapered Self Tapping Inch or Metric



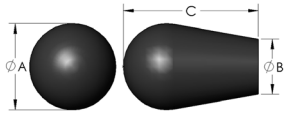




Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-925	1.380	.920	2.000	Blind Hole (Self Tapping)	Polypropylene	1/4, M6
ICK-930	1.380	.920	2.000	Blind Hole (Self Tapping)	Polypropylene	3/8, M10
ICK-935	1.380	.920	2.000	Blind Hole (Self Tapping)	Polypropylene	3/8, M10
ICK-940	1.630	1.000	2.420	Blind Hole (Self Tapping)	Polypropylene	3/8, M10
ICK-945	1.380	.920	2.000	Blind Hole (Self Tapping)	Polypropylene	1/4, M6
ICK-950	1.630	1.000	2.420	Blind Hole (Self Tapping)	Polypropylene	3/8, M10

Reid Select Black Polypropylene Tapered Steel Insert Inch

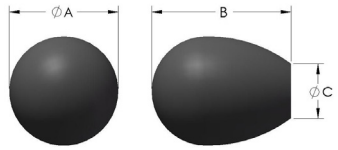




Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-1365	1.380	.920	2.000	Blind Hole	Steel	1/4-20
ICK-1370	1.380	.920	2.000	Blind Hole	Steel	5/16-18
ICK-1375	1.630	1.000	2.420	Blind Hole	Steel	3/8-16
ICK-1380	1.630	1.000	2.420	Blind Hole (Stop Nut)	Steel	1/2-13

Reid Select Black Polypropylene Tapered Steel Insert Inch

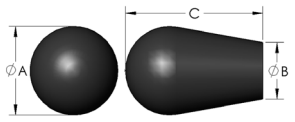




Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-1385	1.125	.560	1.440	Blind Hole	Steel	3/8-16

Black Polypropylene Tapered Steel Insert Press Fit

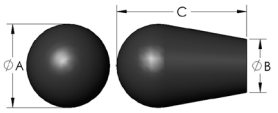




Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-1390	1.380	.920	2.000	Blind Hole	Steel	3/8 Press-Fit Shaft
ICK-1395	1.630	1.000	2.420	Blind Hole	Steel	3/8 Press-Fit Shaft
ICK-1400	1.630	1.000	2.420	Blind Hole	Steel	1/2 Press-Fit Shaft

Reid Select Black Polypropylene Tapered Polypropylene Press Fit



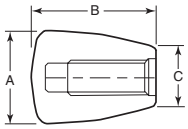


Item No.	A	B	C	Insert Type	Thread Material	Thread Size
ICK-2165	1.630	1.000	2.420	Blind Hole (Molded)	Polypropylene	3/8-16
ICK-2170	1.380	.920	2.000	Blind Hole (Molded)	Polypropylene	3/8-16

TAPERED & HANDLE STYLE KNOBS

Reid Select
Black Thermoplastic
Tapered
Molded Thread
Inch and Metric

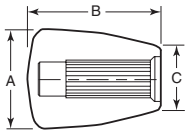




Item No.	A	B	C	Hole Thread	Hole Thread Depth
Inch					
JCL-48	.98	1.34	.63	¼-20	.87
JCL-49	.98	1.34	.63	5/16-18	.87
JCL-51	1.26	1.69	.79	5/16-18	1.10
JCL-52	1.26	1.69	.79	⅜-16	1.10
Metric					
JCL-4370	25	34	17	M6	27
JCL-4375	25	34	17	M8	28
JCL-4380	32	43	21	M8	34
JCL-4385	32	43	21	M10	33

Reid Select
Black Thermoplastic
Tapered Press On
Inch

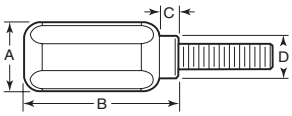




Item No.	A	B	C	Bore Size	Bore Depth
JCL-53	.98	1.34	.63	¼	.87
JCL-54	.98	1.34	.63	5/16	.87
JCL-56	.98	1.34	.63	⅜	.87
JCL-57	1.26	1.69	.79	5/16	1.10
JCL-58	1.26	1.69	.79	⅜	1.10
JCL-59	1.26	1.69	.79	½	1.10

Reid Select
Black Thermoplastic
Plated Steel Stud
Inch

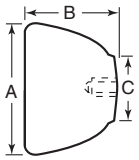




Item No.	A	B	C	D	Stud Thread	Stud Length
JCL-745	1.44	3.23	.35	.87	⅜-16	.98
JCL-750	1.44	3.23	.35	.87	½-13	.98

Black Phenolic
Tapered
Brass Insert or Molded Thread
Inch

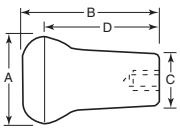




Item No.	A	B	C	Thread
DK-300	1½	1	15/16	¼-20 x ⅜ Brass
DK-310	1½	1	15/16	¼-20 x ⅜ Molded
DK-315	1½	1	15/16	5/16-18 x ⅜ Molded
DK-320	1⅞	1 9/32	⅞	¼-20 x ⅜ Brass
DK-325	1⅞	1 9/32	⅞	5/16-18 x ½ Brass
DK-330	1⅞	1 9/32	⅞	⅜-16 x ⅝ Molded
DK-335	1⅞	1 9/32	⅞	½-13 x ⅞ Molded

DimcoGray
Black Polypropylene
Tapered
Brass Insert
Inch



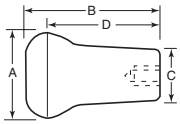


Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-890	1⅜	2⅛	13/16	1¾	¼-20	7/16
DK-891	1⅜	2⅛	13/16	1¾	5/16-18	⅝
DK-892	1⅜	2⅛	13/16	1¾	⅜-16	⅝
DK-893	1⅜	2⅛	13/16	1¾	½-13	⅝
DK-894	1⅝	2½	⅞	2⅛	¼-20	⅝

These plastic knobs are molded of Deltaflex which is a durable plastic, yet feels soft to the touch. Deltaflex is highly resistant to chemicals. Both styles available with brass insert or cored holes. Cored holes push fit over the shaft diameter indicated. Saves installation time.

DimcoGray
Black Deltaflex
Soft Touch Oval and Tapered
Brass Insert
Inch

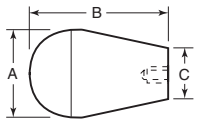




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-895	1⅝	2½	⅞	2⅛	5/16-18	⅝
DK-896	1⅝	2½	⅞	2⅛	⅜-16	⅝
DK-897	1⅝	2½	⅞	2⅛	½-13	⅝
DK-913	1½	4⅜	⅞	4	¼-20	7/16
DK-915	1½	4⅜	⅞	4	⅜-16	½

DimcoGray
Black Deltaflex
Soft-Touch Oval and Tapered
Brass Insert
Inch

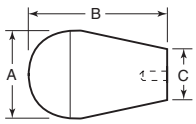




Item No.	A	B	C	Insert Thread	Insert Depth
DK-907	1⅝	2½	⅞	5/16-18	⅝
DK-908	1⅝	2½	⅞	⅜-16	⅝

DimcoGray
Black Deltaflex
Soft-Touch Oval and Tapered
Core Hole
Inch



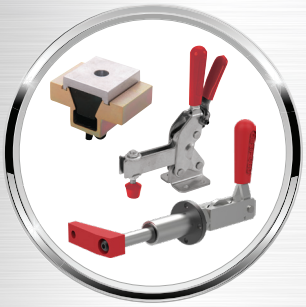


Item No.	A	B	C	For Shaft Dia.	Cored Hole Dia.	Cored Hole Depth
DK-912	1⅝	2½	⅞	½	.420/.437	1

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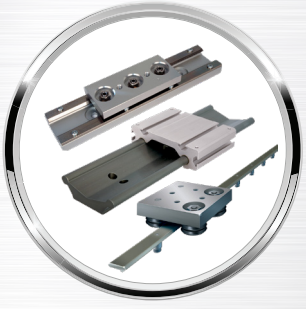
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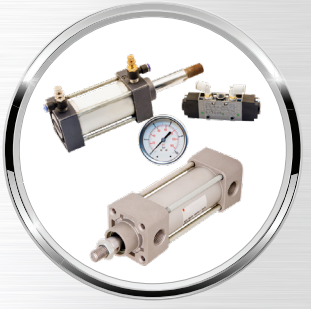
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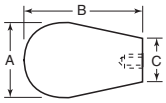
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DimcoGray Black Phenolic Oval Tapered Brass Insert Inch

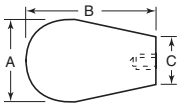




Item No.	A	B	C	Insert Thread	Insert Depth
BD-0	3/4	1 1/4	3/8	6-32	5/16
BD-1	3/4	1 1/4	3/8	8-32	5/16
BD-2	3/4	1 1/4	3/8	10-32	5/16
BD-6	1	1 5/8	1/2	1/4-20	7/16
BD-7	1	1 5/8	1/2	5/16-18	7/16
BD-8	1	1 5/8	1/2	3/8-16	1/2
BD-10	1 3/16	1 7/8	9/16	10-32	5/16
BD-5	1 3/16	1 7/8	9/16	10-24	5/16
BD-15	1 3/16	1 7/8	9/16	1/4-20	7/16
BD-20	1 5/8	2 1/2	7/8	1/4-20	7/16
BD-25	1 5/8	2 1/2	7/8	5/16-18	7/16
BD-30	1 5/8	2 1/2	7/8	3/8-16	1/2
BD-35	1 5/8	2 1/2	7/8	1/2-13	5/8

DimcoGray Oval Tapered Knobs Black Phenolic Brass Insert or Molded Thread Inch



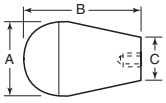


Item No.	A	B	C	Insert Length	Insert Depth
OA-4	1 1/8	1 7/16	1/2	1/4-20	7/16
OA-3	1 1/8	1 7/16	1/2	5/16-18	7/16
OA-1	1 1/8	1 7/16	1/2	5/16-24	7/16
OA-2	1 1/8	1 7/16	1/2	3/8-16	1/2
OA-5	1 1/8	1 7/16	1/2	3/8-24	1/2

*Plastic Molded thread

DimcoGray Black Polypropylene Oval Tapered Brass Insert Inch

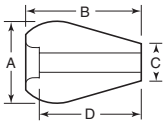




Item No.	A	B	C	Insert Thread	Insert Depth
DK-201	1 5/8	2 1/2	7/8	1/4-20	5/8
DK-202	1 5/8	2 1/2	7/8	5/16-18	5/8
DK-203	1 5/8	2 1/2	7/8	3/8-16	5/8
DK-204	1 5/8	2 1/2	7/8	1/2-13	5/8

DimcoGray Black Phenolic Oval Tapered Thru Hole Inch

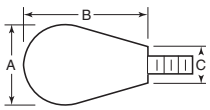




Item No.	A	B	C	D	Thru Hole
BD-50	1 3/16	1 3/4	9/16	1 7/16	3/8

DimcoGray Black Phenolic Oval Tapered Plated Steel Stud Inch

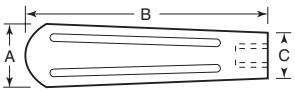




Item No.	A	B	C	Stud Thread	Stud Depth
BD-40	1 5/8	2 1/2	7/8	5/16-18	1/2

Black Phenolic Tapered and Ribbed Brass Insert Inch

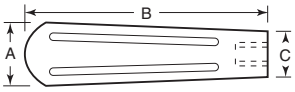




Item No.	A	B	C	Insert Thread	Insert Depth
BTH-170	1 1/8	3 7/8	25/32	1/4-20	1/2
BTH-171	1 3/8	4 61/64	1	3/8-16	3/4
BTH-172	1 3/8	4 61/64	1	1/2-13	1

DimcoGray Black Phenolic Tapered and Ribbed Brass Insert Inch

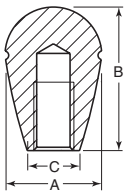




Item No.	A	B	C	Insert Thread	Insert Depth
BTH-15	1 3/8	4 1/2	1	5/16-18	5/8
BTH-8	1 3/8	4 1/2	1	3/8-16	2
BTH-9	1 3/8	4 1/2	1	1/2-13	2

Reid Select Black Phenolic Oval Tapered Molded Thread Inch

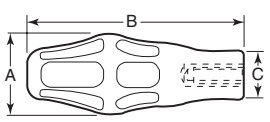




Item No.	A	B	C	Thread	Thread Depth
RST-36	.75	1.18	.39	10-24	.31
RST-37	.87	1.34	.51	1/4-20	.39
RST-38	1.14	1.73	.59	5/16-18	.55
RST-39	1.38	2.01	.63	3/8-16	.55
RST-40	1.46	2.28	.67	3/8-16	.55

DimcoGray Black Polypropylene Tapered Ergonomic Brass Insert Inch



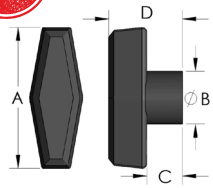


Item No.	A	B	C	Insert Thread	Insert Depth
DK-236	1 27/64	3 3/4	57/64	1/4-20	7/8
DK-237	1 27/64	3 3/4	57/64	5/16-18	5/8
DK-238	1 27/64	3 3/4	57/64	3/8-16	5/8

T-HANDLES

Reid Select Black Polypropylene T handle Steel Stud Inch

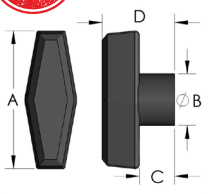




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-1780	1.120	.500	.390	.940	.500	Steel	10-24
ICK-1785	1.120	.500	.390	.940	.750	Steel	10-24
ICK-1790	1.120	.500	.390	.940	.500	Steel	1/4-20
ICK-1795	1.120	.500	.390	.940	.750	Steel	1/4-20
ICK-1800	1.120	.500	.390	.940	.500	Steel	10-32
ICK-1805	1.120	.500	.120	.670	.500	Steel	1/4-20
ICK-1810	1.120	.500	.390	.940	1.000	Steel	1/4-20

Reid Select Black Polypropylene T handle Steel or Plastic Insert Inch

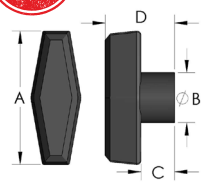




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1815	1.160	.500	.390	.940	Thru-Hole	Steel	10-24
ICK-1820	1.160	.500	.390	.940	Thru-Hole	Steel	1/4-20
ICK-1825	1.160	.500	.120	.670	Thru-Hole	Steel	1/4-20
ICK-1830	1.160	.480	.420	.980	Thru-Hole	Molded Plastic Thread	1/4-20
ICK-1835	1.160	.500	.390	.940	Thru-Hole	Steel	5/16-18
ICK-1840	1.160	.500	.390	.940	Thru-Hole (Stop Nut)	Steel	5/16-18

Reid Select Black Polypropylene T handle Steel Insert Inch

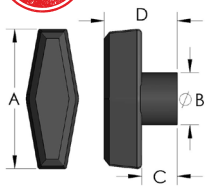




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1845	1.160	.500	.120	.670	Blind Hole	Steel	10-24
ICK-1850	1.160	.500	.120	.670	Blind Hole	Steel	1/4-20
ICK-1855	1.160	.500	.390	.940	Blind Hole	Steel	1/4-20

Black Polypropylene T handle Steel Stud Inch

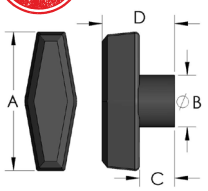




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-1935	2.500	.750	.460	1.110	2.000	Steel	5/16-18
ICK-1940	2.500	.750	.460	1.110	.750	Steel	3/8-16
ICK-1945	2.000	.750	.490	1.040	1.250	Steel	5/16-18

Reid Select Black Polypropylene T handle Steel or Poly Insert Inch

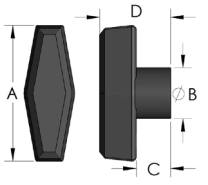




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1890	2.000	.750	.490	1.040	Blind Hole	Steel	1/4-20
ICK-1895	2.000	.750	.490	1.040	Blind Hole	Polypropylene	5/16-18
ICK-1900	2.000	.750	.490	1.040	Blind Hole	Polypropylene	3/8-16

Reid Select Black Polypropylene T handle Steel Insert Inch

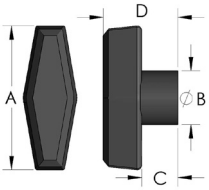




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1905	2.500	.750	.460	1.110	Thru-Hole	Steel	1/4-20
ICK-1910	2.500	.750	.460	1.110	Thru-Hole	Steel	5/16-18
ICK-1915	2.500	.750	.460	1.110	Thru-Hole (Stop Nut)	Steel	5/16-18
ICK-1920	2.500	.750	.460	1.110	Thru-Hole	Steel	3/8-16

Reid Select Black Polypropylene T handle Steel Insert Inch

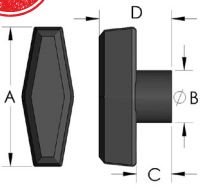




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1925	2.500	.750	.460	1.110	Blind Hole	Steel	5/16-18
ICK-1930	2.500	.750	.460	1.110	Blind Hole	Steel	3/8-16

Reid Select Black Nylon T handle Steel Insert Inch



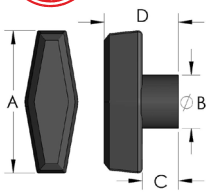


Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1860	2.000	.750	.490	2.000	Thru-Hole	Steel	1/4-20
ICK-1865	2.000	.750	.490	2.000	Thru-Hole (Stop Nut)	Steel	1/4-20
ICK-1870	2.000	.750	.490	2.000	Thru-Hole	Steel	5/16-18
ICK-1875	2.000	.750	.490	2.000	Thru-Hole (Stop Nut)	Steel	5/16-18
ICK-1880	2.000	.750	.490	2.000	Thru-Hole	Steel	3/8-16
ICK-1885	2.000	.750	.490	2.000	Thru-Hole (Stop Nut)	Steel	3/8-16

T-HANDLES

Reid Select
Black Polypropylene
T handle
Steel Insert
Inch

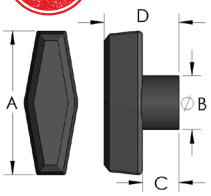




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-1950	3.500	.970	.270	1.130	Blind Hole	Steel	3/8-16
ICK-1955	3.500	.970	.270	1.130	Blind Hole	Steel	1/2-13

Reid Select
Black Polypropylene
T handle
Steel Insert
Inch



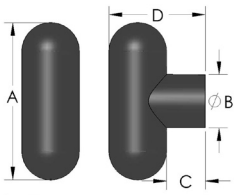


Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-1960	2.000	.750	.490	1.040	.750	Steel	1/4-20
ICK-1965	2.000	.750	.490	1.040	1.000	Steel	1/4-20
ICK-1970	2.000	.750	.490	1.040	1.500	Steel	1/4-20
ICK-1975	2.000	.750	.490	1.040	2.000	Steel	1/4-20
ICK-1980	2.000	.750	.490	1.040	1.500	Steel	5/16-18
ICK-1985	2.000	.750	.490	1.040	1.000	Steel	3/8-16
ICK-1990	2.000	.750	.490	1.040	1.500	Steel	3/8-16
ICK-1995	2.000	.750	.490	1.040	.750	Steel	5/16-18
ICK-2000	2.000	.750	.490	1.040	1.000	Steel	5/16-18
ICK-2005	2.000	.750	.490	1.040	2.000	Steel	5/16-18

Reid Offers Many Tru Hole Knobs With Different Lobe Configurations

Reid Select
Black Polypropylene
T handle
Steel Insert
Inch

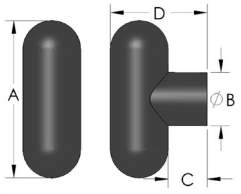




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2020	2.250	.770	.570	1.410	Blind Hole	Steel	1/4-20
ICK-2025	2.250	.770	.570	1.410	Blind Hole	Steel	5/16-18
ICK-2030	2.250	.770	.570	1.410	Blind Hole	Steel	3/8-16

Reid Select
Black Polypropylene
T handle
Steel Stud
Inch

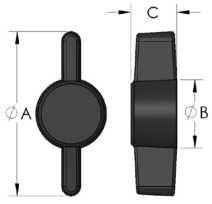




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-2035	2.250	.770	.570	1.410	.750	Steel	5/16-18
ICK-2040	2.250	.770	.570	1.410	1.000	Steel	3/8-16
ICK-2045	2.250	.770	.570	1.410	.500	Steel	3/8-16

Reid Select
Black Polypropylene
T handle
Steel Stud
Inch





Item No.	A	B	C	Stud Length	Thread Material	Thread Size
ICK-2010	1.250	.540	.350	.870	Steel	10-32
ICK-2015	1.250	.540	.350	1.120	Steel	10-32

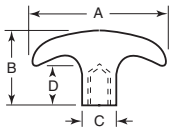
STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

T-HANDLES

DimcoGray
Black Phenolic
Brass Insert
Inch

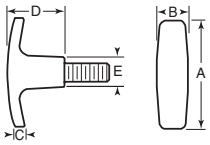




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-75	2¼	1¼	9/16	11/16	¼-20	½
DK-495	2¼	1¼	9/16	11/16	¼-28	7/16
DK-76	2¼	1¼	9/16	11/16	5/16-18	½

Reid Select
Black Thermoplastic
Plated Steel Stud
Inch

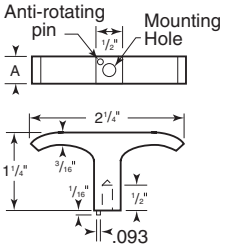




Item No.	A	B	C	D	E	Stud Thread	Stud Length
JCL-30	1.97	.59	.20	.94	.55	¼-20	.51
JCL-35	1.97	.59	.20	.94	.55	¼-20	.98
JCL-40	2.36	.67	.24	1.26	.63	5/16-18	.98
JCL-45	2.83	.75	.35	1.30	.71	⅜-16	.98
JCL-50	2.83	.75	.35	1.30	.71	⅜-16	1.38

Aluminum
Black Anodized Finish
Tapped
Inch



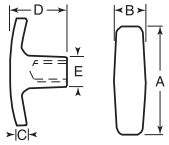


Made from extruded aluminum. Anti-rotating pin on VPH-1209 and VPH-1210 only. VPH-1209 also has a 8-32 set screw.

Item No.	A	Insert Thread
VPH-1220	⅜	8-32
VPH-1221	½	10-24
VPH-1210	½	10-24
VPH-1209	½	¼-Ream

Reid Select
Black Thermoplastic
Brass Insert
Inch

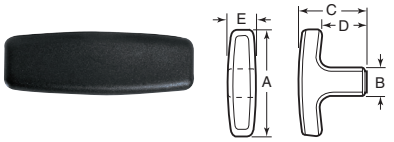




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
JCL-5	1.97	.59	.20	.94	.55	¼-20	.375
JCL-10	2.36	.67	.24	1.26	.63	¼-20	.375
JCL-15	2.36	.67	.24	1.26	.63	5/16-18	.469
JCL-20	2.83	.75	.35	1.30	.71	5/16-18	.469
JCL-25	2.83	.75	.35	1.30	.71	⅜-16	.562

ELESA
Black Thermoplastic
Brass Insert
Inch

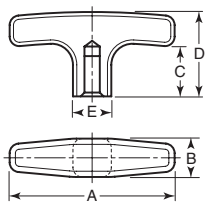




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
KHY-500	1.57	.51	1.18	.79	.51	¼-20	.63
KHY-505	2.17	.55	1.30	.87	.55	¼-20	.71
KHY-510	2.64	.63	1.46	.98	.63	5/16-18	.79
KHY-515	3.15	.79	1.61	1.02	.79	⅜-16	.79

Aluminum
Black Powder Coated or Plain Finish
Tapped
Metric





Handles can be used either as operating handles or for clamping purposes, providing high clamping force. Produced using a stamping process that yields a high density product with high strength and a smooth surface.

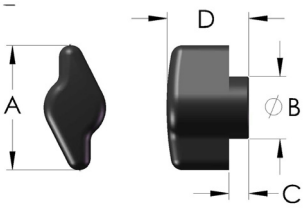
Black Item No.	Plain Item No.	A	B	C	D	E	Insert Thread	Insert Depth
WPH-200	WPH-215	55	14	22	33	14	M6 x 1.00	12
WPH-205	WPH-220	67	16	25	37	16	M8 x 1.25	16
WPH-210	WPH-225	80	20	26	41	20	M10 x 1.50	16

Ask Us About Bulk Pricing!

WING KNOBS

Reid Select Black Polypropylene Wing Knob Steel Stud Inch

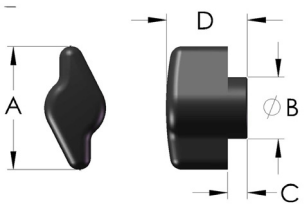




Item No.	A	B	C	D	Stud Length	Thread Material	Thread Size
ICK-2050	1.260	.630	.200	.830	2.000	Steel	10-24
ICK-2055	1.260	.630	.200	.830	1.250	Steel	1/4-20

Reid Select Black Polypropylene Wing Knob Steel Insert Inch

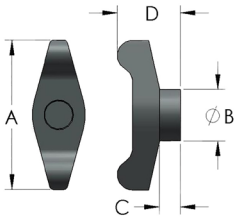




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2060	1.260	.630	.200	.830	Blind Hole	Steel	5/16-18

Reid Select Black Polypropylene Wing Knob Steel Insert Inch

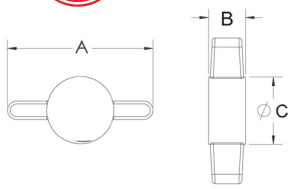




Item No.	A	B	C	D	Insert Type	Thread Material	Thread Size
ICK-2065	2.500	.860	.370	1.100	Thru-Hole	Steel	5/16-18
ICK-2070	2.500	.860	.370	1.100	Thru-Hole (Stop Nut)	Steel	5/16-18

Reid Select Black Acetal Wing Knob Press Fit Inch or Metric

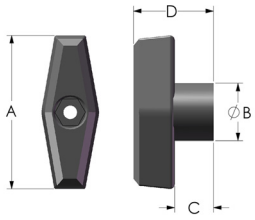




Item No.	A	B	C	D	Compatible Thread Size
ICK-2410	1.500	.000	.410	.630	1/4
ICK-2415	1.500	.000	.410	.630	5/16
ICK-2420	1.750	.000	.500	.800	3/8
ICK-2425	1.750	.000	.500	.800	M1
ICK-2430	1.500	.000	.410	.630	M6
ICK-2435	1.500	.000	.410	.630	M8
ICK-2440	1.020	.000	.260	.480	#10
ICK-2445	1.020	.000	.260	.480	#8
ICK-2450	1.250	.000	.350	.240	#10

Reid Select Black Acetal Wing Knob Press Fit Inch or Metric

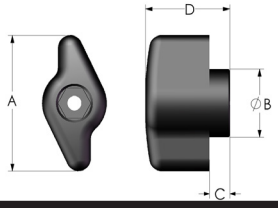




Item No.	A	B	C	D	Compatible Thread Size
ICK-2675	2.000	.750	.490	1.060	1/4-20;1/4-28
ICK-2680	2.000	.750	.490	1.060	M6

Reid Select Black Polypropylene Wing Knob Press Fit Inch or Metric





Item No.	A	B	C	D	Compatible Thread Size
ICK-2775	1.250	.630	.200	.830	10-32;10-24
ICK-2780	1.250	.630	.200	.830	M6
ICK-2785	1.250	.630	.200	.830	1/4-20;1/4-28

Reid Offers Many Tru Hole Knobs With Different Lobe Configurations

NOBODY WILL SERVE THE **CUSTOMER BETTER.**



Ask Us About Colors and Customizing

Customize your plastic knobs and molded parts to fit YOUR PROJECT NEEDS.

- **Pad Printing**
- **Logo Printing**
- **Embedded Characters**
- **Raised Characters/Lettering**
- **Customize any Color in the PMS Chart**

Ask Us About Heat Resistant Materials Available

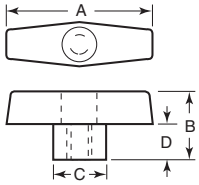


ASK US ABOUT BULK PRICING

WING KNOBS

Black Polypropylene Textured Finish
Thru Hole
Steel Insert w/ Knob-Lok
Inch



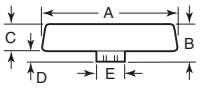


Unique Knob-Lok features a nylon locking element that resists vibration and prevents back off. It also allows for consistent installation torque and precise adjustments. No tools needed for safe and sure fastening.

Item No.	A	B	C	D	Insert Thread	Insert Depth
KLK-25	2½	1⅓	¾	½	¼-20	.44
KLK-30	2½	1⅓	¾	½	5/16-18	.47
KLK-35	2½	1⅓	¾	½	⅜-16	.58

Black Thermoplastic Textured Finish
Brass or Steel Insert
Inch



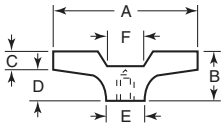


Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-420	2½	1⅛	⅝	½	¾	¼-20	½
DK-425	2½	1⅛	⅝	½	¾	5/16-18	½
DK-430	2½	1⅛	⅝	½	¾	⅜-16	½
DK-435	3½	1⅛	⅞	¼	15/16	5/16-18	½
DK-440	3½	1⅛	⅞	¼	15/16	⅜-16	½
DK-445*	3½	1⅛	⅞	¼	15/16	½-13	⅞

*Steel insert

Black Polypropylene Textured Finish
Brass Insert
Inch

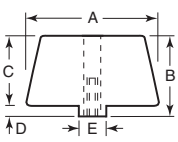




Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
DK-740	3	1 1/16	⅜	½	25/32	45/64	¼-20	½
DK-745	3	1 1/16	⅜	½	25/32	45/64	5/16-18	½
DK-750	3	1 1/16	⅜	½	25/32	45/64	⅜-16	½

Black Phenolic
Thru Hole
Brass Insert
Inch

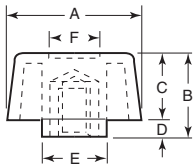




Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-165	1⅛	¾	⅝	⅛	½	¼-20	Thru
DK-700	1⅛	¾	⅝	⅛	½	¼-20	⅜

DimcoGray
Black Polypropylene
Blind Hole
Brass Insert
Inch

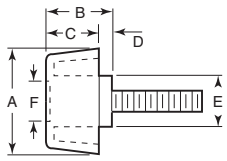




Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
DK-223	1	⅝	½	⅛	½	⅜	¼-20	⅜
DK-224	1	⅝	½	⅛	½	⅜	¼-28	7/16
DK-228	1	⅞	½	⅜	½	⅜	¼-20	7/16

DimcoGray
Black Polypropylene
Plated Steel Stud
Inch

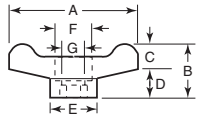




Item No.	A	B	C	D	E	F	Stud Thread	Stud Length
DK-233	1	⅝	½	⅛	½	⅜	¼-20	½
DK-234	1	⅝	½	⅛	½	⅜	¼-20	¾

DimcoGray
Polypropylene
Thru Hole
Brass Insert
Inch

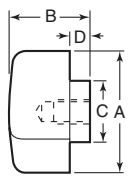




Item No.	A	B	C	D	E	F	G	Color	Insert Thread	Insert Depth
DK-221	2½	1	½	½	.86	.70	.45	Black	5/16-18	⅝
DK-222	2½	1	½	½	.86	.70	.45	Black	¼-20	⅝
DK-239	2½	1	½	½	.86	.70	.45	Red	5/16-18	⅝

Black Thermoplastic
Brass Insert
Inch



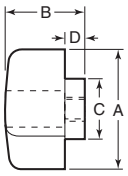


Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-123	1.26	.83	.63	.20	¼-20	⅜
DK-124	1.26	.83	.63	.20	5/16-18	½

WING KNOBS

Black Thermoplastic
Thru Hole
Brass Insert
Inch

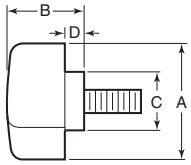




Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-125	1.26	.83	.63	.20	¼-20	⅜
DK-126	1.26	.83	.63	.20	5/16-18	½

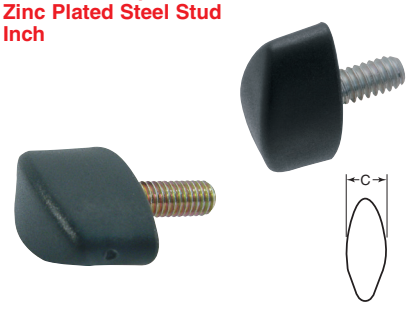
Black Thermoplastic
Steel Stud
Inch

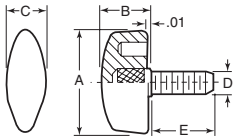




Item No.	A	B	C	D	Stud Thread	Stud Length
DK-127	1.26	.83	.63	.20	¼-20	½
DK-128	1.26	.83	.63	.20	¼-20	1

ELESA
Black Thermoplastic
Zinc Plated Steel Stud
Inch





Made from glass fiber reinforced plastic. Resistant to solvents, oils, grease, etc. Black matte finish.

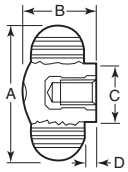
Item No.	A	B	C	D	E
KHY-300	1.02	.51	.43	10-32	.50
KHY-305	1.02	.51	.43	10-32	.75
KHY-310	1.26	.59	.51	¼-20	.50
KHY-315	1.26	.59	.51	¼-20	.75
KHY-320	1.26	.59	.51	¼-20	1.00
KHY-325	1.57	.67	.61	5/16-18	.75
KHY-330	1.57	.67	.61	5/16-18	1.00

KIPP
Black Thermoplastic
Novo-Grip®
Brass or Stainless Steel Insert
Inch

STAINLESS STEEL OPTION AVAILABLE





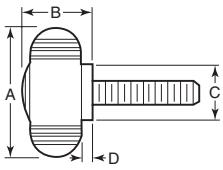


Brass Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
KBP-304	KBP-307	1.10	.59	.47	.09	8-32	.24
KBP-305	KBP-308	1.10	.59	.47	.09	10-32	.30
KBP-306	KBP-309	1.10	.59	.47	.09	¼-20	.35

KIPP
Black Thermoplastic
Novo-Grip®
Plated Steel or Stainless Stud
Inch

STAINLESS STEEL OPTION AVAILABLE

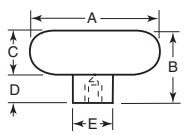




Steel Item No.	Stainless Item No.	A	B	C	D	Stud Thread	Stud Length
KBP-310	KBP-318	1.10	.59	.47	.09	8-32	.39
KBP-311	KBP-319	1.10	.59	.47	.09	8-32	.79
KBP-312	KBP-320	1.10	.59	.47	.09	10-32	.39
KBP-313	KBP-321	1.10	.59	.47	.09	10-32	.79
KBP-314	KBP-322	1.10	.59	.47	.09	¼-20	.79
KBP-315	KBP-323	1.10	.59	.47	.09	¼-20	1.18
KBP-316	KBP-324	1.10	.59	.47	.09	5/16-18	.79
KBP-317	KBP-325	1.10	.59	.47	.09	5/16-18	1.57

Black Polypropylene Textured Finish
Brass Insert
Inch





Item No.	A	B	C	D	E	Insert Thread	Insert Depth
DK-405	2¼	1⅜	¾	⅝	¾	¼-20	½
DK-410	2¼	1⅜	¾	⅝	¾	5/16-18	½
DK-415	2¼	1⅜	¾	⅝	¾	⅜-16	½

STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

WING KNOBS

KIPP
Black Thermoplastic
Novo-Grip®
Steel and Stainless Insert
Inch and Metric

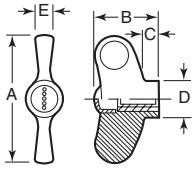
STAINLESS STEEL OPTION AVAILABLE



Steel Item No.	Stainless Item No.	A	B	C	D	Insert Thread	Insert Depth
Inch							
GK-5	GK-25	1.97	.94	.55	.45	10-32	.39
GK-10	GK-30	1.97	.94	.55	.45	¼-20	.39
GK-15	—	2.95	1.38	.83	.65	5/16-18	.55
GK-20	GK-40	2.95	1.38	.83	.65	⅜-16	.55
Inch (Metric Thread)							
GK-50	GK-70	1.97	.94	.55	.45	M6 x 1.00	.39
GK-55	GK-75	2.95	1.38	.83	.65	M8 x 1.25	.55
GK-60	—	2.95	1.38	.83	.65	M10 x 1.50	.55

ELESA
Black Plastic
Brass Insert
Inch





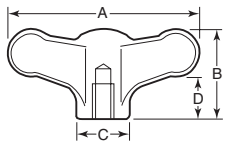
Made of glass fiber reinforced black plastic with black matte finish. Comes with black plastic hub.

Item No.	A	B	C	D	E	Insert Thread	Insert Depth
ESP-600	1.85	.94	.21	.53	.28	¼-20	.47
ESP-602	2.17	1.10	.26	.63	.31	¼-20	.71
ESP-604	2.17	1.10	.26	.63	.31	5/16-18	.71
ESP-606	2.76	1.42	.31	.79	.39	5/16-18	.79
ESP-608	2.76	1.42	.31	.79	.39	⅜-16	.79

KIPP
Stainless Steel Type 303
Tapped
Inch

STAINLESS STEEL OPTION AVAILABLE

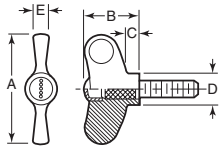




Item No.	A	B	C	D	Insert Thread
KHJ-100	1.97	.94	.55	.45	10-24
KHJ-102	1.97	.94	.55	.45	¼-20
KHJ-104	2.95	1.38	.82	.65	5/16-18
KHJ-106	2.95	1.38	.82	.65	⅜-16

ELESA
Black Plastic
Plated Steel Stud
Inch





Made of glass fiber reinforced black plastic with black matte finish. Comes with black plastic hub.

Item No.	A	B	C	D	E	Stud Thread	Stud Length
ESP-610	1.85	.94	.21	.53	.28	¼-20	.75
ESP-612	1.85	.94	.21	.53	.28	¼-20	1.00
ESP-614	2.17	1.10	.26	.63	.31	5/16-18	1.00
ESP-616	2.17	1.10	.26	.63	.31	5/16-18	1.50
ESP-618	2.76	1.42	.31	.79	.39	⅜-16	1.00
ESP-620	2.76	1.42	.31	.79	.39	⅜-16	1.50

elesa®

HANDLES, KNOBS & MORE

Corrosion resistant, ergonomic, compact shapes, in choice materials with easy-clean finishes

Available in Inch and Metric sizes.

Available in Inch and Metric Sizes













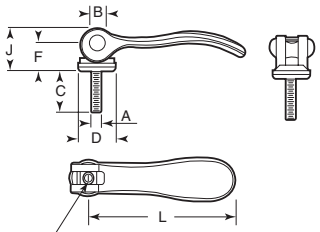
Reid Supply is a full-line distributor of ELESA products

ADJUSTABLE CAM LEVERS

Adjustable cam lever handles are just like the original cam lever except that the threaded stud can be adjusted with a flat head screwdriver. This allows the handle to be in the optimum position at all times.

KIPP
Aluminum
External Thread
Inch and Metric



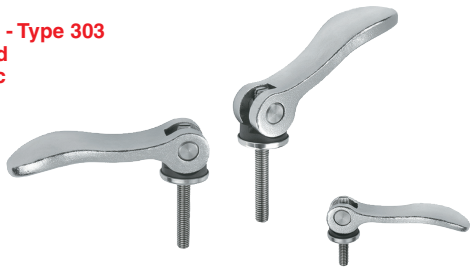


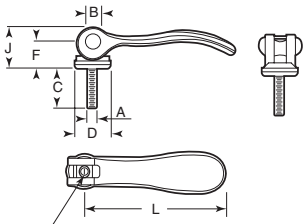
STAINLESS STEEL OPTION AVAILABLE

Component Material									Component Material								
Steel Item No.	Stainless Item No.	A	B	C	D	F	J	L	Steel Item No.	Stainless Item No.	A	B	C	D	F	J	L
Inch									**Metric**								
KCL-166	KCL-198	10-32	.35	.79	.71	.57	.87	2.77	KCL-230	KCL-262	M5 x .80	9	20	18	14.5	22	70.4
KCL-168	KCL-200	10-32	.35	1.18	.71	.57	.87	2.77	KCL-232	KCL-264	M5 x .80	9	30	18	14.5	22	70.4
KCL-170	KCL-202	10-32	.35	1.57	.71	.57	.87	2.77	KCL-234	KCL-266	M5 x .80	9	40	18	14.5	22	70.4
KCL-172	KCL-204	10-32	.35	1.97	.71	.57	.87	2.77	KCL-236	KCL-268	M5 x .80	9	50	18	14.5	22	70.4
KCL-174	KCL-206	¼-20	.35	.79	.71	.57	.87	2.77	KCL-238	KCL-270	M6 x 1.00	9	20	18	14.5	22	70.4
KCL-176	KCL-208	¼-20	.35	1.18	.71	.57	.87	2.77	KCL-240	KCL-272	M6 x 1.00	9	30	18	14.5	22	70.4
KCL-178	KCL-210	¼-20	.35	1.57	.71	.57	.87	2.77	KCL-242	KCL-274	M6 x 1.00	9	40	18	14.5	22	70.4
KCL-180	KCL-212	¼-20	.35	1.97	.71	.57	.87	2.77	KCL-244	KCL-276	M6 x 1.00	9	50	18	14.5	22	70.4
KCL-182	KCL-214	5⁄16-18	.43	.98	1.06	.71	1.12	3.78	KCL-246	KCL-278	M8 x 1.25	11	25	27	18	28.5	96
KCL-184	KCL-216	5⁄16-18	.43	1.18	1.06	.71	1.12	3.78	KCL-248	KCL-280	M8 x 1.25	11	30	27	18	28.5	96
KCL-186	KCL-218	5⁄16-18	.43	1.57	1.06	.71	1.12	3.78	KCL-250	KCL-282	M8 x 1.25	11	40	27	18	28.5	96
KCL-188	KCL-220	5⁄16-18	.43	1.97	1.06	.71	1.12	3.78	KCL-252	KCL-284	M8 x 1.25	11	50	27	18	28.5	96
KCL-190	KCL-222	⅜-16	.43	.98	1.06	.71	1.12	3.78	KCL-254	KCL-286	M10 x 1.50	11	25	27	18	28.5	96
KCL-192	KCL-224	⅜-16	.43	1.18	1.06	.71	1.12	3.78	KCL-256	KCL-288	M10 x 1.50	11	30	27	18	28.5	96
KCL-194	KCL-226	⅜-16	.43	1.57	1.06	.71	1.12	3.78	KCL-258	KCL-290	M10 x 1.50	11	40	27	18	28.5	96
KCL-196	KCL-228	⅜-16	.43	1.97	1.06	.71	1.12	3.78	KCL-260	KCL-292	M10 x 1.50	11	50	27	18	28.5	96

Note: Adjustable threaded stud.

KIPP
Stainless Steel - Type 303
External Thread
Inch and Metric





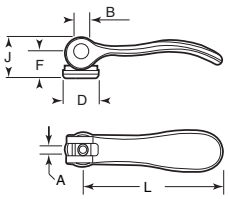
STAINLESS STEEL OPTION AVAILABLE

Item No.	A	B	C	D	F	J	L
Inch							
KCL-294	10-32	.35	.79	.71	.57	.87	2.77
KCL-296	10-32	.35	1.18	.71	.57	.87	2.77
KCL-298	10-32	.35	1.57	.71	.57	.87	2.77
KCL-300	10-32	.35	1.97	.71	.57	.87	2.77
KCL-302	¼-20	.35	.79	.71	.57	.87	2.77
KCL-304	¼-20	.35	1.18	.71	.57	.87	2.77
KCL-306	¼-20	.35	1.57	.71	.57	.87	2.77
KCL-308	¼-20	.35	1.97	.71	.57	.87	2.77
KCL-310	5⁄16-18	.43	.98	1.06	.71	1.12	3.78
KCL-312	5⁄16-18	.43	1.18	1.06	.71	1.12	3.78
KCL-314	5⁄16-18	.43	1.57	1.06	.71	1.12	3.78
KCL-316	5⁄16-18	.43	1.97	1.06	.71	1.12	3.78
KCL-318	⅜-16	.43	.98	1.06	.71	1.12	3.78
KCL-320	⅜-16	.43	1.18	1.06	.71	1.12	3.78
KCL-322	⅜-16	.43	1.57	1.06	.71	1.12	3.78
KCL-324	⅜-16	.43	1.97	1.06	.71	1.12	3.78

Item No.	A	B	C	D	F	J	L
Metric							
KCL-326	M5 x .80	9	20	18	14.5	22	70.4
KCL-328	M5 x .80	9	30	18	14.5	22	70.4
KCL-330	M5 x .80	9	40	18	14.5	22	70.4
KCL-332	M5 x .80	9	50	18	14.5	22	70.4
KCL-334	M6 x 1.00	9	20	18	14.5	22	70.4
KCL-336	M6 x 1.00	9	30	18	14.5	22	70.4
KCL-338	M6 x 1.00	9	40	18	14.5	22	70.4
KCL-340	M6 x 1.00	9	50	18	14.5	22	70.4
KCL-342	M8 x 1.25	11	25	27	18	28.5	96
KCL-344	M8 x 1.25	11	30	27	18	28.5	96
KCL-346	M8 x 1.25	11	40	27	18	28.5	96
KCL-348	M8 x 1.25	11	50	27	18	28.5	96
KCL-350	M10 x 1.50	11	25	27	18	28.5	96
KCL-352	M10 x 1.50	11	30	27	18	28.5	96
KCL-354	M10 x 1.50	11	40	27	18	28.5	96
KCL-356	M10 x 1.50	11	50	27	18	28.5	96

KIPP
Aluminum
Internal Thread
Inch and Metric





STAINLESS STEEL OPTION AVAILABLE

Component Material							
Steel Item No.	Stainless Item No.	A	B	D	F	J	L
Inch							
KCL-2	KCL-8	10-32	.354	.71	.57	.87	2.77
KCL-4	KCL-10	¼-20	.354	.71	.57	.87	2.77
KCL-6	KCL-12	5⁄16-18	.433	1.06	.71	1.12	3.78
Metric							
KCL-14	KCL-20	M5 x .80	9	18	14.5	22	70.4
KCL-16	KCL-22	M6 x 1.00	9	18	14.5	22	70.4
KCL-18	KCL-24	M8 x 1.25	11	27	18	28.5	96

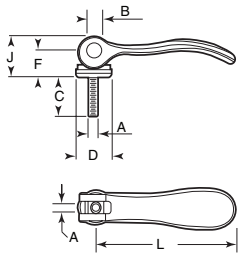
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ADJUSTABLE CAM LEVERS

Cam lever handles allow for quick fastening and unfastening without the use of tools. They thread in like a regular fastener but for the final clamp action the cam handle is simply pushed downward. They are constructed of cast aluminum and the washer is fiberglass reinforced plastic.

KIPP
Aluminum
External Thread
Inch and Metric





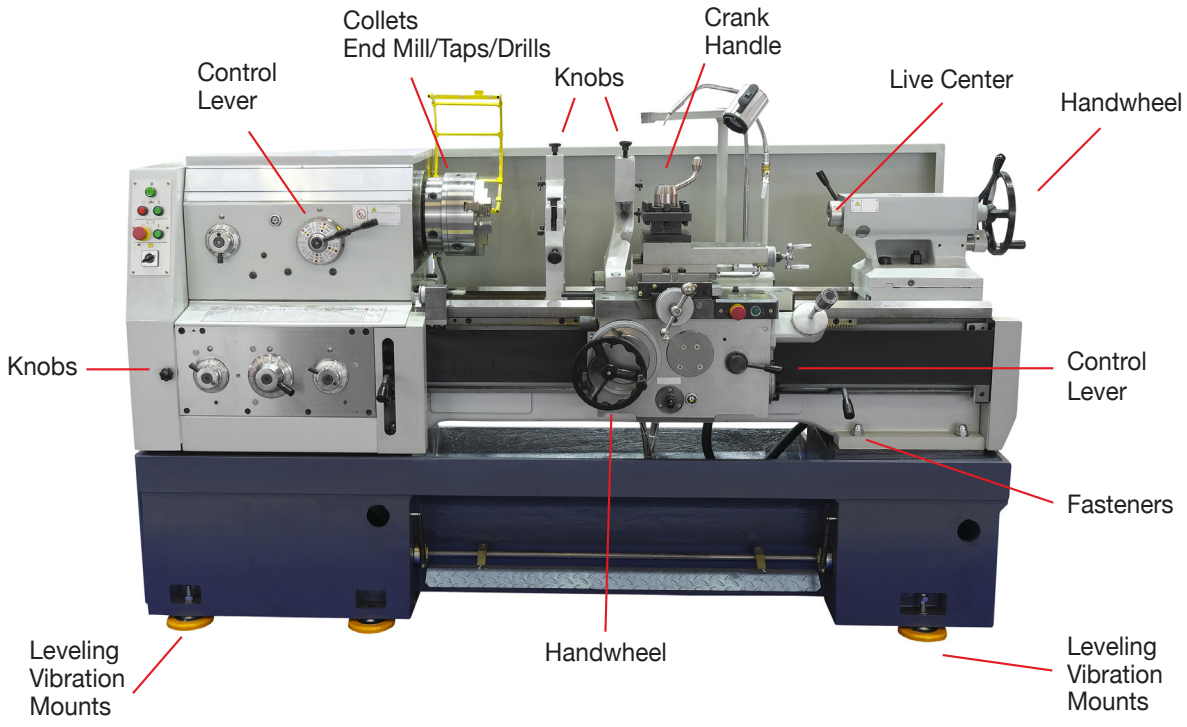
STAINLESS STEEL OPTION AVAILABLE

Component Material								
Steel Item No.	Stainless Item No.	A	B	C	D	F	J	L
Inch								
KCL-26	KCL-58	10-32	.354	.79	.71	.57	.87	2.77
KCL-28	KCL-60	10-32	.354	1.18	.71	.57	.87	2.77
KCL-30	KCL-62	10-32	.354	1.57	.71	.57	.87	2.77
KCL-32	KCL-64	10-32	.354	1.97	.71	.57	.87	2.77
KCL-34	KCL-66	¼-20	.354	.79	.71	.57	.87	2.77
KCL-36	KCL-68	¼-20	.354	1.18	.71	.57	.87	2.77
KCL-38	KCL-70	¼-20	.354	1.57	.71	.57	.87	2.77
KCL-40	KCL-72	¼-20	.354	1.97	.71	.57	.87	2.77
KCL-42	KCL-74	5⁄16-18	.433	.98	1.06	.71	1.12	3.78
KCL-44	KCL-76	5⁄16-18	.433	1.18	1.06	.71	1.12	3.78
KCL-46	KCL-78	5⁄16-18	.433	1.57	1.06	.71	1.12	3.78
KCL-48	KCL-80	5⁄16-18	.433	1.97	1.06	.71	1.12	3.78
KCL-50	KCL-82	⅜-16	.433	.98	1.06	.71	1.12	3.78
KCL-52	KCL-84	⅜-16	.433	1.18	1.06	.71	1.12	3.78
KCL-54	KCL-86	⅜-16	.433	1.57	1.06	.71	1.12	3.78
KCL-56	KCL-88	⅜-16	.433	1.97	1.06	.71	1.12	3.78

Component Material								
Steel Item No.	Stainless Item No.	A	B	C	D	F	J	L
Metric								
KCL-90	KCL-122	M5 x .80	9	20	18	14.5	22	70.4
KCL-92	KCL-124	M5 x .80	9	30	18	14.5	22	70.4
KCL-94	KCL-126	M5 x .80	9	40	18	14.5	22	70.4
KCL-96	KCL-128	M5 x .80	9	50	18	14.5	22	70.4
KCL-98	KCL-130	M6 x 1.00	9	20	18	14.5	22	70.4
KCL-100	KCL-132	M6 x 1.00	9	30	18	14.5	22	70.4
KCL-102	KCL-134	M6 x 1.00	9	40	18	14.5	22	70.4
KCL-104	KCL-136	M6 x 1.00	9	50	18	14.5	22	70.4
KCL-106	KCL-138	M8 x 1.25	11	25	27	18	28.5	96
KCL-108	KCL-140	M8 x 1.25	11	30	27	18	28.5	96
KCL-110	KCL-142	M8 x 1.25	11	40	27	18	28.5	96
KCL-112	KCL-144	M8 x 1.25	11	50	27	18	28.5	96
KCL-114	KCL-146	M10 x 1.50	11	25	27	18	28.5	96
KCL-116	KCL-148	M10 x 1.50	11	30	27	18	28.5	96
KCL-118	KCL-150	M10 x 1.50	11	40	27	18	28.5	96
KCL-120	KCL-152	M10 x 1.50	11	50	27	18	28.5	96

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ADJUSTABLE HANDLES / METAL & VISUAL DETECTABLE

ELESA
Metal Detectable Technopolymer Stainless Steel / Metric Adjustable Handles



This adjustable handle contains iron oxide powder for the detectability of the plastic material by means of a metal detector.

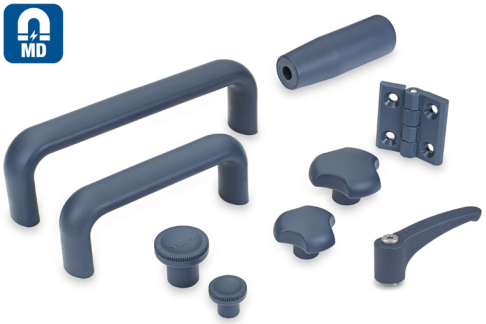
Standard components are crafted using specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts and are suitable for contact with food (FDA CFR.21 and EU 10/2011). A special additive used in manufacturing the plastic allows for the detection of cubic particles measuring 5 mm by means of a metal detector. The specific and unique quality of the blue color used is naturally absent in the environment in which these components are applied, allowing for easy visual detection of contaminant parts. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

Ideal for Food and Pharmaceutical Equipment

Metal Detectable
Specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts

Part #	
EHP-60MD	M6 X 38.5 mm thread. 303 stainless steel threaded hole.
EHP-65MD	M8 X 45 mm thread. 303 stainless steel threaded hole.
EHP-70MD	M6 X 16 mm thread. 303 stainless steel threaded stud.
EHP-75MD	M6 X 25 mm thread. 303 stainless steel threaded stud.
EHP-80MD	M8 X 20 mm thread. 303 stainless steel threaded stud.
EHP-85MD	M8 X 40 mm thread. 303 stainless steel threaded stud.

SEE ALSO MD HANDLES, KNOBS & HINGES



ELESA
Visual Detectable Technopolymer Adjustable Handles



Standard components are made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts. This shade of blue is easily detectable and recognizable to the human eye thanks to the specified nature of the color and the fact that it is naturally absent in the environment in which these components are used. The material is suitable for contact with food (FDA CFR.21 and EU 10/2011) and is in full compliance with international regulations, contributing to increased levels of safety in food production processes wherever applied. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

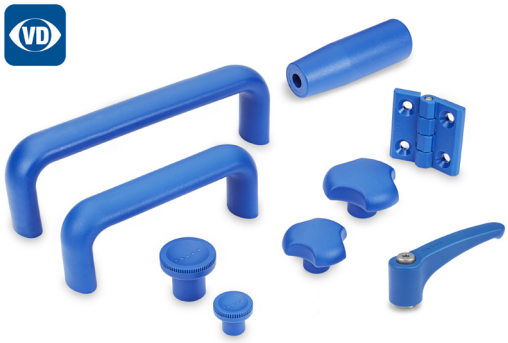
This adjustable handle shade of blue is easily recognizable to the human eye. Plastic material is suitable for contact with food and is ideal for food and pharmaceutical equipme

Ideal for Food and Pharmaceutical Equipment

Visual Detectable
Made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts.

Part #	
EHP-60VD	M6 X 38.5 mm thread. 303 stainless steel threaded hole.
EHP-65VD	M8 X 45 mm thread. 303 stainless steel threaded hole.
EHP-70VD	M6 X 16 mm thread. 303 stainless steel threaded stud.
EHP-75VD	M6 X 25 mm thread. 303 stainless steel threaded stud.
EHP-80VD	M8 X 20 mm thread. 303 stainless steel threaded stud.
EHP-85VD	M8 X 40 mm thread. 303 stainless steel threaded stud.

SEE ALSO VD HANDLES, KNOBS & HINGES



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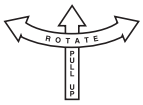
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ADJUSTABLE HANDLES

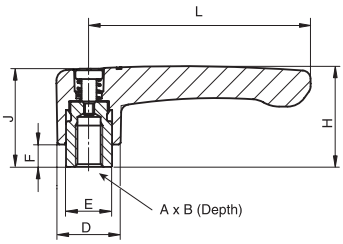
KIPP
Powder Coated Steel
Straight Adjustable Handle
Steel Insert
Inch and Metric



These adjustable handles act as a standard lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way.

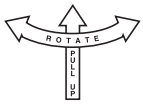




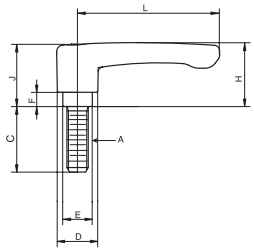


Black Item No.	Orange Item No.	A	B	D	E	F	H	J	L
1290434	1290442	¼-20	.47	.73	.53	.26	1.15	1.12	2.56
1290435	1290443	5/16-18	.47	.73	.53	.26	1.15	1.12	2.56
1290436	1290444	5/16-18	.55	.83	.63	.39	1.50	1.46	3.15
1290437	1290445	⅜-16	.55	.83	.63	.39	1.50	1.46	3.15
1290438	1290446	M6 x 1.00	12.0	18.5	13.5	6.5	29.2	28.5	65.0
1290439	1290447	M8 x 1.25	12.0	18.5	13.5	6.5	29.2	28.5	65.0
1290440	1290448	M8 x 1.25	14.0	21.2	16.0	10.0	38.0	37.0	80.0
1290441	1290449	M10 x 1.50	14.0	21.2	16.0	10.0	38.0	37.0	80.0

KIPP
Powder Coated Steel
Straight Adjustable Handle
Steel Stud
Inch and Metric



These adjustable handles act as a standard lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way.







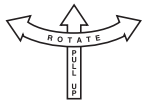
Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
1290466	1290566	¼-20	.59	.73	.53	.26	1.15	1.12	2.56
1290467	1290567	¼-20	.79	.73	.53	.26	1.15	1.12	2.56
1290468	1290568	¼-20	.98	.73	.53	.26	1.15	1.12	2.56
1290469	1290569	¼-20	1.18	.73	.53	.26	1.15	1.12	2.56
1290470	1290570	¼-20	1.38	.73	.53	.26	1.15	1.12	2.56
1290471	1290571	¼-20	1.58	.73	.53	.26	1.15	1.12	2.56
1290472	1290572	¼-20	1.77	.73	.53	.26	1.15	1.12	2.56
1290473	1290573	¼-20	1.97	.73	.53	.26	1.15	1.12	2.56
1290474	1290574	¼-20	2.17	.73	.53	.26	1.15	1.12	2.56
1290475	1290575	¼-20	2.36	.73	.53	.26	1.15	1.12	2.56
1290476	1290576	5/16-18	.59	.73	.53	.26	1.15	1.12	2.56
1290477	1290577	5/16-18	.79	.73	.53	.26	1.15	1.12	2.56
1290478	1290578	5/16-18	.98	.73	.53	.26	1.15	1.12	2.56
1290479	1290579	5/16-18	1.18	.73	.53	.26	1.15	1.12	2.56
1290480	1290580	5/16-18	1.38	.73	.53	.26	1.15	1.12	2.56
1290481	1290581	5/16-18	1.58	.73	.53	.26	1.15	1.12	2.56
1290482	1290582	5/16-18	1.77	.73	.53	.26	1.15	1.12	2.56
1290483	1290583	5/16-18	1.97	.73	.53	.26	1.15	1.12	2.56
1290484	1290584	5/16-18	2.17	.73	.53	.26	1.15	1.12	2.56
1290485	1290585	5/16-18	2.36	.73	.53	.26	1.15	1.12	2.56
1290486	1290586	⅜-16	.59	.73	.53	.26	1.15	1.12	2.56
1290487	1290587	⅜-16	.79	.73	.53	.26	1.15	1.12	2.56
1290488	1290588	⅜-16	.98	.73	.53	.26	1.15	1.12	2.56
1290489	1290589	⅜-16	1.18	.73	.53	.26	1.15	1.12	2.56
1290490	1290590	⅜-16	1.38	.73	.53	.26	1.15	1.12	2.56
1290491	1290591	⅜-16	1.58	.73	.53	.26	1.15	1.12	2.56
1290492	1290592	⅜-16	1.77	.73	.53	.26	1.15	1.12	2.56
1290493	1290593	⅜-16	1.97	.73	.53	.26	1.15	1.12	2.56
1290494	1290594	⅜-16	2.17	.73	.53	.26	1.15	1.12	2.56
1290495	1290595	⅜-16	2.36	.73	.53	.26	1.15	1.12	2.56
1290496	1290596	5/16-18	.59	.84	.63	.39	1.50	1.46	3.15
1290497	1290597	5/16-18	.79	.84	.63	.39	1.50	1.46	3.15
1290498	1290598	5/16-18	.98	.84	.63	.39	1.50	1.46	3.15
1290499	1290599	5/16-18	1.18	.84	.63	.39	1.50	1.46	3.15
1290500	1290600	5/16-18	1.38	.84	.63	.39	1.50	1.46	3.15
1290501	1290601	5/16-18	1.58	.84	.63	.39	1.50	1.46	3.15
1290502	1290602	5/16-18	1.77	.84	.63	.39	1.50	1.46	3.15
1290503	1290603	5/16-18	1.97	.84	.63	.39	1.50	1.46	3.15
1290504	1290604	5/16-18	2.17	.84	.63	.39	1.50	1.46	3.15
1290505	1290605	5/16-18	2.36	.84	.63	.39	1.50	1.46	3.15
1290506	1290606	⅜-16	.59	.84	.63	.39	1.50	1.46	3.15
1290507	1290607	⅜-16	.79	.84	.63	.39	1.50	1.46	3.15
1290508	1290608	⅜-16	.98	.84	.63	.39	1.50	1.46	3.15
1290509	1290609	⅜-16	1.18	.84	.63	.39	1.50	1.46	3.15
1290510	1290610	⅜-16	1.38	.84	.63	.39	1.50	1.46	3.15
1290511	1290611	⅜-16	1.58	.84	.63	.39	1.50	1.46	3.15
1290512	1290612	⅜-16	1.77	.84	.63	.39	1.50	1.46	3.15
1290513	1290613	⅜-16	1.97	.84	.63	.39	1.50	1.46	3.15
1290514	1290614	⅜-16	2.17	.84	.63	.39	1.50	1.46	3.15
1290515	1290615	⅜-16	2.36	.84	.63	.39	1.50	1.46	3.15

Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
1290516	1290616	M6 x 1.00	15.0	18.5	13.5	6.5	29.2	28.5	65.0
1290517	1290617	M6 x 1.00	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290518	1290618	M6 x 1.00	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290519	1290619	M6 x 1.00	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290520	1290620	M6 x 1.00	35.0	18.5	13.5	6.5	29.2	28.5	65.0
1290521	1290621	M6 x 1.00	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290522	1290622	M6 x 1.00	45.0	18.5	13.5	6.5	29.2	28.5	65.0
1290523	1290623	M6 x 1.00	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290524	1290624	M6 x 1.00	55.0	18.5	13.5	6.5	29.2	28.5	65.0
1290525	1290625	M6 x 1.00	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290526	1290626	M8 x 1.25	15.0	18.5	13.5	6.5	29.2	28.5	65.0
1290527	1290627	M8 x 1.25	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290528	1290628	M8 x 1.25	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290529	1290629	M8 x 1.25	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290530	1290630	M8 x 1.25	35.0	18.5	13.5	6.5	29.2	28.5	65.0
1290531	1290631	M8 x 1.25	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290532	1290632	M8 x 1.25	45.0	18.5	13.5	6.5	29.2	28.5	65.0
1290533	1290633	M8 x 1.25	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290534	1290634	M8 x 1.25	55.0	18.5	13.5	6.5	29.2	28.5	65.0
1290535	1290635	M8 x 1.25	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290536	1290636	M10 x 1.50	15.0	18.5	13.5	6.5	29.2	28.5	65.0
1290537	1290637	M10 x 1.50	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290538	1290638	M10 x 1.50	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290539	1290639	M10 x 1.50	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290540	1290640	M10 x 1.50	35.0	18.5	13.5	6.5	29.2	28.5	65.0
1290541	1290641	M10 x 1.50	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290542	1290642	M10 x 1.50	45.0	18.5	13.5	6.5	29.2	28.5	65.0
1290543	1290643	M10 x 1.50	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290544	1290644	M10 x 1.50	55.0	18.5	13.5	6.5	29.2	28.5	65.0
1290545	1290645	M10 x 1.50	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290546	1290646	M8 x 1.25	15.0	21.2	16.0	10.0	38.0	37.0	80.0
1290547	1290647	M8 x 1.25	20.0	21.2	16.0	10.0	38.0	37.0	80.0
1290548	1290648	M8 x 1.25	25.0	21.2	16.0	10.0	38.0	37.0	80.0
1290549	1290649	M8 x 1.25	30.0	21.2	16.0	10.0	38.0	37.0	80.0
1290550	1290650	M8 x 1.25	35.0	21.2	16.0	10.0	38.0	37.0	80.0
1290551	1290651	M8 x 1.25	40.0	21.2	16.0	10.0	38.0	37.0	80.0
1290552	1290652	M8 x 1.25	45.0	21.2	16.0	10.0	38.0	37.0	80.0
1290553	1290653	M8 x 1.25	50.0	21.2	16.0	10.0	38.0	37.0	80.0
1290554	1290654	M8 x 1.25	55.0	21.2	16.0	10.0	38.0	37.0	80.0
1290555	1290655	M8 x 1.25	60.0	21.2	16.0	10.0	38.0	37.0	80.0
1290556	1290656	M10 x 1.50	15.0	21.2	16.0	10.0	38.0	37.0	80.0
1290557	1290657	M10 x 1.50	20.0	21.2	16.0	10.0	38.0	37.0	80.0
1290558	1290658	M10 x 1.50	25.0	21.2	16.0	10.0	38.0	37.0	80.0
1290559	1290659	M10 x 1.50	30.0	21.2	16.0	10.0	38.0	37.0	80.0
1290560	1290660	M10 x 1.50	35.0	21.2	16.0	10.0	38.0	37.0	80.0
1290561	1290661	M10 x 1.50	40.0	21.2	16.0	10.0	38.0	37.0	80.0
1290562	1290662	M10 x 1.50	45.0	21.2	16.0	10.0	38.0	37.0	80.0
1290563	1290663	M10 x 1.50	50.0	21.2	16.0	10.0	38.0	37.0	80.0
1290564	1290664	M10 x 1.50	55.0	21.2	16.0	10.0	38.0	37.0	80.0
1290565	1290665	M10 x 1.50	60.0	21.2	16.0	10.0	38.0	37.0	80.0

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Reid SUPPLY AN ESSENTRA COMPANY

ADJUSTABLE HANDLES

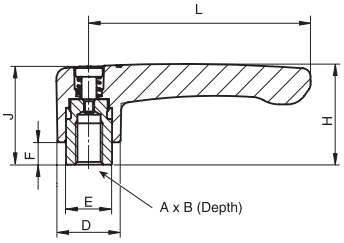
KIPP
Powder Coated Steel
Straight Adjustable Handle
Stainless Steel Insert
Inch and Metric



These adjustable handles act as a standard lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way.

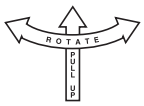




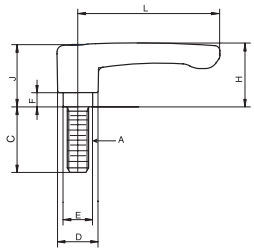


Black Item No.	Orange Item No.	A	B	D	E	F	H	J	L
1290450	1290458	¼-20	.47	.73	.53	.26	1.15	1.12	2.56
1290451	1290459	5/16-18	.47	.73	.53	.26	1.15	1.12	2.56
1290452	1290460	5/16-18	.55	.83	.63	.39	1.50	1.46	3.15
1290453	1290461	⅜-16	.55	.83	.63	.39	1.50	1.46	3.15
1290454	1290462	M6 x 1.00	12.0	18.5	13.5	6.5	29.2	28.5	65.0
1290455	1290463	M8 x 1.25	12.0	18.5	13.5	6.5	29.2	28.5	65.0
1290456	1290464	M8 x 1.25	14.0	21.2	16.0	10.0	38.0	37.0	80.0
1290457	1290465	M10 x 1.50	14.0	21.2	16.0	10.0	38.0	37.0	80.0

KIPP
Powder Coated Steel
Straight Adjustable Handle
Stainless Steel Stud
Inch and Metric



These adjustable handles act as a standard lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way.







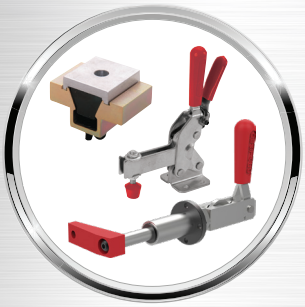
Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
1290666	1290766	¼-20	.59	.73	.53	.26	1.15	1.12	2.56
1290667	1290767	¼-20	.79	.73	.53	.26	1.15	1.12	2.56
1290668	1290768	¼-20	.98	.73	.53	.26	1.15	1.12	2.56
1290669	1290769	¼-20	1.18	.73	.53	.26	1.15	1.12	2.56
1290671	1290771	¼-20	1.58	.73	.53	.26	1.15	1.12	2.56
1290673	1290773	¼-20	1.97	.73	.53	.26	1.15	1.12	2.56
1290675	1290775	¼-20	2.36	.73	.53	.26	1.15	1.12	2.56
1290676	1290776	5/16-18	.59	.73	.53	.26	1.15	1.12	2.56
1290677	1290777	5/16-18	.79	.73	.53	.26	1.15	1.12	2.56
1290678	1290778	5/16-18	.98	.73	.53	.26	1.15	1.12	2.56
1290679	1290779	5/16-18	1.18	.73	.53	.26	1.15	1.12	2.56
1290681	1290781	5/16-18	1.58	.73	.53	.26	1.15	1.12	2.56
1290683	1290783	5/16-18	1.97	.73	.53	.26	1.15	1.12	2.56
1290685	1290785	5/16-18	2.36	.73	.53	.26	1.15	1.12	2.56
1290687	1290787	⅜-16	.79	.73	.53	.26	1.15	1.12	2.56
1290688	1290788	⅜-16	.98	.73	.53	.26	1.15	1.12	2.56
1290689	1290789	⅜-16	1.18	.73	.53	.26	1.15	1.12	2.56
1290691	1290791	⅜-16	1.58	.73	.53	.26	1.15	1.12	2.56
1290693	1290793	⅜-16	1.97	.73	.53	.26	1.15	1.12	2.56
1290695	1290795	⅜-16	2.36	.73	.53	.26	1.15	1.12	2.56
1290697	1290797	5/16-18	.79	.84	.63	.39	1.50	1.46	3.15
1290698	1290798	5/16-18	.98	.84	.63	.39	1.50	1.46	3.15
1290699	1290799	5/16-18	1.18	.84	.63	.39	1.50	1.46	3.15
1290701	1290801	5/16-18	1.58	.84	.63	.39	1.50	1.46	3.15
1290703	1290803	5/16-18	1.97	.84	.63	.39	1.50	1.46	3.15
1290705	1290805	5/16-18	2.36	.84	.63	.39	1.50	1.46	3.15
1290707	1290807	⅜-16	.79	.84	.63	.39	1.50	1.46	3.15
1290708	1290808	⅜-16	.98	.84	.63	.39	1.50	1.46	3.15
1290709	1290809	⅜-16	1.18	.84	.63	.39	1.50	1.46	3.15
1290711	1290811	⅜-16	1.58	.84	.63	.39	1.50	1.46	3.15
1290713	1290813	⅜-16	1.97	.84	.63	.39	1.50	1.46	3.15
1290715	1290815	⅜-16	2.36	.84	.63	.39	1.50	1.46	3.15

Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
1290716	1290816	M6 x 1.00	15.0	18.5	13.5	6.5	29.2	28.5	65.0
1290717	1290817	M6 x 1.00	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290718	1290818	M6 x 1.00	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290719	1290819	M6 x 1.00	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290721	1290821	M6 x 1.00	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290723	1290823	M6 x 1.00	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290725	1290825	M6 x 1.00	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290726	1290826	M8 x 1.25	15.0	18.5	13.5	6.5	29.2	28.5	65.0
1290727	1290827	M8 x 1.25	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290728	1290828	M8 x 1.25	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290729	1290829	M8 x 1.25	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290731	1290831	M8 x 1.25	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290733	1290833	M8 x 1.25	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290735	1290835	M8 x 1.25	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290737	1290837	M10 x 1.50	20.0	18.5	13.5	6.5	29.2	28.5	65.0
1290738	1290838	M10 x 1.50	25.0	18.5	13.5	6.5	29.2	28.5	65.0
1290739	1290839	M10 x 1.50	30.0	18.5	13.5	6.5	29.2	28.5	65.0
1290741	1290841	M10 x 1.50	40.0	18.5	13.5	6.5	29.2	28.5	65.0
1290743	1290843	M10 x 1.50	50.0	18.5	13.5	6.5	29.2	28.5	65.0
1290745	1290845	M10 x 1.50	60.0	18.5	13.5	6.5	29.2	28.5	65.0
1290747	1290847	M8 x 1.25	20.0	21.2	16.0	10.0	38.0	37.0	80.0
1290748	1290848	M8 x 1.25	25.0	21.2	16.0	10.0	38.0	37.0	80.0
1290749	1290849	M8 x 1.25	30.0	21.2	16.0	10.0	38.0	37.0	80.0
1290751	1290851	M8 x 1.25	40.0	21.2	16.0	10.0	38.0	37.0	80.0
1290753	1290853	M8 x 1.25	50.0	21.2	16.0	10.0	38.0	37.0	80.0
1290755	1290855	M8 x 1.25	60.0	21.2	16.0	10.0	38.0	37.0	80.0
1290757	1290857	M10 x 1.50	20.0	21.2	16.0	10.0	38.0	37.0	80.0
1290758	1290858	M10 x 1.50	25.0	21.2	16.0	10.0	38.0	37.0	80.0
1290759	1290859	M10 x 1.50	30.0	21.2	16.0	10.0	38.0	37.0	80.0
1290761	1290861	M10 x 1.50	40.0	21.2	16.0	10.0	38.0	37.0	80.0
1290763	1290863	M10 x 1.50	50.0	21.2	16.0	10.0	38.0	37.0	80.0
1290765	1290865	M10 x 1.50	60.0	21.2	16.0	10.0	38.0	37.0	80.0

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ADJUSTABLE HANDLES



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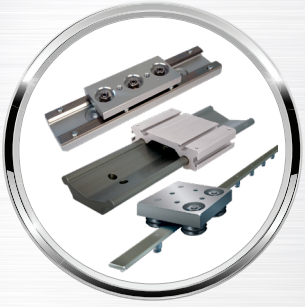
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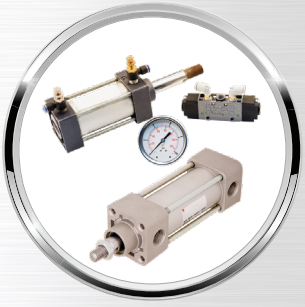
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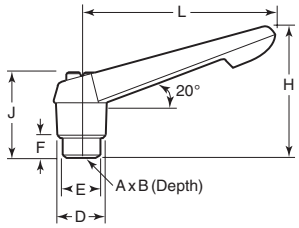
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ADJUSTABLE HANDLES

These adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.



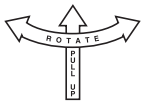
Zinc

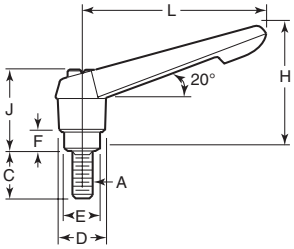


Blank, Tapped or Reamed Type



Zinc





Stud Type

KIPP
Black Plastic - Steel Components
Blank, Tapped or Reamed Hole
Inch

Plastic Item No.	Zinc Item No.	A	B	D	E	F	H	J	L
KHA-4	KHA-46	10-32	.35	.53	.39	.15	1.22	.95	1.57
KHA-6	—	10-24	.35	.53	.39	.15	1.22	.95	1.57
KHA-8	KHA-50	¼-20	.35	.53	.39	.15	1.22	.95	1.57
KHA-14	KHA-56	¼-20	.47	.71	.53	.25	1.69	1.14	2.56
KHA-16	KHA-58	5/16-18	.47	.71	.53	.25	1.69	1.14	2.56
KHA-24	KHA-66	5/16-18	.55	.84	.62	.39	2.16	1.47	3.15
KHA-26	KHA-68	⅜-16	.55	.84	.62	.39	2.16	1.47	3.15
KHA-36	KHA-78	⅜-16	.67	1.00	.75	.39	2.52	1.68	3.74
KHA-38	KHA-80	½-13	.67	1.00	.75	.39	2.52	1.68	3.74
—	KHA-88	½-13	.90	1.20	.90	.47	2.95	2.00	4.33

KIPP
Black Plastic or Powder Coated Zinc - Steel Components
Steel Stud
Inch

Plastic Item No.	Zinc Item No.	A	C	D	E	F	H	J	L
KHA-96	KHA-176	10-32	.39	.53	.39	.15	1.22	.95	1.57
KHA-310	KHA-510	10-24	.39	.53	.39	.15	1.22	.95	1.57
KHA-98	KHA-178	10-32	.59	.53	.39	.15	1.22	.95	1.57
KHA-104	KHA-184	10-24	.59	.53	.39	.15	1.22	.95	1.57
KHA-100	KHA-180	10-32	.78	.53	.39	.15	1.22	.95	1.57
KHA-320	KHA-520	10-24	.78	.53	.39	.15	1.22	.95	1.57
KHA-102	KHA-182	10-32	1.18	.53	.39	.15	1.22	.95	1.57
KHA-330	KHA-530	10-24	1.18	.53	.39	.15	1.22	.95	1.57
KHA-106	KHA-186	¼-20	.39	.53	.39	.15	1.22	.95	1.57
KHA-108	KHA-188	¼-20	.59	.53	.39	.15	1.22	.95	1.57
KHA-110	KHA-190	¼-20	.78	.53	.39	.15	1.22	.95	1.57
KHA-112	KHA-192	¼-20	1.18	.53	.39	.15	1.22	.95	1.57
KHA-114	KHA-194	¼-20	1.57	.53	.39	.15	1.22	.95	1.57
KHA-116	KHA-196	¼-20	1.77	.53	.39	.15	1.22	.95	1.57
KHA-118	KHA-198	5/16-18	.59	.71	.53	.25	1.69	1.14	2.56
KHA-120	KHA-200	5/16-18	.78	.71	.53	.25	1.69	1.14	2.56
KHA-122	KHA-202	5/16-18	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-124	KHA-204	5/16-18	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-126	KHA-206	5/16-18	1.77	.71	.53	.25	1.69	1.14	2.56
KHA-340	KHA-540	5/16-18	1.96	.71	.53	.25	1.69	1.14	2.56
KHA-128	KHA-208	5/16-18	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-130	KHA-210	⅜-16	.59	.71	.53	.25	1.69	1.14	2.56
KHA-132	KHA-212	⅜-16	.78	.71	.53	.25	1.69	1.14	2.56
KHA-134	KHA-214	⅜-16	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-136	KHA-216	⅜-16	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-138	KHA-218	⅜-16	1.77	.71	.53	.25	1.69	1.14	2.56
KHA-350	KHA-550	⅜-16	1.96	.71	.53	.25	1.69	1.14	2.56
KHA-140	KHA-220	⅜-16	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-142	KHA-222	⅜-16	.59	.84	.62	.39	2.16	1.47	3.15
KHA-144	KHA-224	⅜-16	.78	.84	.62	.39	2.16	1.47	3.15
KHA-146	KHA-226	⅜-16	1.18	.84	.62	.39	2.16	1.47	3.15
KHA-148	KHA-228	⅜-16	1.57	.84	.62	.39	2.16	1.47	3.15
KHA-150	KHA-230	⅜-16	1.77	.84	.62	.39	2.16	1.47	3.15
KHA-360	KHA-560	⅜-16	1.96	.84	.62	.39	2.16	1.47	3.15
KHA-152	KHA-232	⅜-16	2.36	.84	.62	.39	2.16	1.47	3.15
KHA-380	KHA-580	⅜-16	.78	1.00	.75	.39	2.52	1.68	3.74
KHA-154	KHA-234	⅜-16	1.18	1.00	.75	.39	2.52	1.68	3.74
KHA-156	KHA-236	⅜-16	1.57	1.00	.75	.39	2.52	1.68	3.74
KHA-158	KHA-238	⅜-16	1.77	1.00	.75	.39	2.52	1.68	3.74
KHA-160	KHA-240	⅜-16	1.96	1.00	.75	.39	2.52	1.68	3.74
KHA-162	KHA-242	⅜-16	2.36	1.00	.75	.39	2.52	1.68	3.74
—	KHA-590	½-13	.59	1.00	.75	.39	2.52	1.68	3.74
KHA-400	KHA-600	½-13	.78	1.00	.75	.39	2.52	1.68	3.74
KHA-164	KHA-244	½-13	1.18	1.00	.75	.39	2.52	1.68	3.74
KHA-166	KHA-246	½-13	1.38	1.00	.75	.39	2.52	1.68	3.74
KHA-168	KHA-610	½-13	1.57	1.00	.75	.39	2.52	1.68	3.74
KHA-170	KHA-250	½-13	1.77	1.00	.75	.39	2.52	1.68	3.74
KHA-172	KHA-252	½-13	1.96	1.00	.75	.39	2.52	1.68	3.74
KHA-174	KHA-254	½-13	2.36	1.00	.75	.39	2.52	1.68	3.74
—	KHA-620	½-13	.98	1.20	.90	.47	2.95	2.00	4.33
—	KHA-256	½-13	1.57	1.20	.90	.47	2.95	2.00	4.33
—	KHA-625	½-13	1.96	1.20	.90	.47	2.95	2.00	4.33
—	KHA-258	½-13	2.36	1.20	.90	.47	2.95	2.00	4.33
—	KHA-260	⅝-11	1.57	1.20	.90	.47	2.95	2.00	4.33
—	KHA-262	⅝-11	2.36	1.20	.90	.47	2.95	2.00	4.33

MOST PRODUCTS SHIP SAME DAY

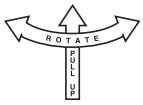
STANDARD QUOTES IN 4 HOURS OR LESS

ADJUSTABLE HANDLES

These adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

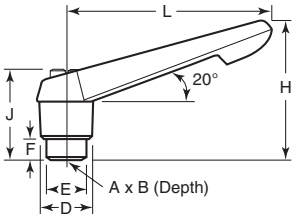




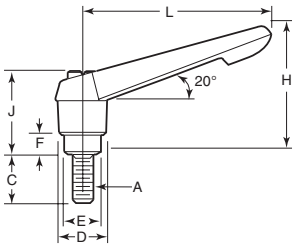








Tapped or Reamed Type



Stud Type

KIPP
Black Plastic or Powder Coated Zinc - Steel Components
Novo-Grip®
Tapped or Reamed Hole
Metric

Plastic Item No.	Zinc Item No.	A	B mm	D mm	E mm	F mm	H mm	J mm	L mm	Plastic Item No.	Zinc Item No.	A	B mm	D mm	E mm	F mm	H mm	J mm	L mm
KHD-201	—	M4 x .70	9	13.5	10	4	31	24	40	KHD-216	KHD-16	M10 x 1.50	14	21.5	16	10	55	37.5	80
KHD-202	KHD-2	M5 x .80	9	13.5	10	4	31	24	40	KHD-220	KHD-20	M10 x 1.50	17	25.5	19	10	64	42.5	95
KHD-204	KHD-4	M6 x 1.00	9	13.5	10	4	31	24	40	KHD-222	KHD-22	M12 x 1.75	17	25.5	19	10	64	42.5	95
KHD-208	KHD-8	M6 x 1.00	12	18	13.5	6.5	43	29	65	KHD-223	KHD-26	M12 x 1.75	23	30.5	23	12	75	51	110
KHD-210	KHD-10	M8 x 1.25	12	18	13.5	6.5	43	29	65	KHD-225	KHD-28	M16 x 2.00	23	30.5	23	12	75	51	110
KHD-214	KHD-14	M8 x 1.25	14	21.5	16	10	55	37.5	80										

KIPP
Black Plastic or Powder Coated Zinc - Steel Components
Novo-Grip®
Steel Stud
Metric

Plastic Item No.	Zinc Item No.	A	C mm	D mm	E mm	F mm	H mm	J mm	L mm	Plastic Item No.	Zinc Item No.	A	C mm	D mm	E mm	F mm	H mm	J mm	L mm
KHD-303	—	M5 x .80	10	13.5	10	4	31	24	40	KHD-323	—	M8 x 1.25	20	21.5	16	10	55	37.5	80
KHD-302	KHD-102	M5 x .80	15	13.5	10	4	31	24	40	KHD-325	—	M8 x 1.25	30	21.5	16	10	55	37.5	80
KHD-304	KHD-104	M5 x .80	20	13.5	10	4	31	24	40	—	KHD-134	M10 x 1.50	15	21.5	16	10	55	37.5	80
KHD-306	KHD-106	M5 x .80	25	13.5	10	4	31	24	40	—	KHD-58	M10 x 1.50	20	21.5	16	10	55	37.5	80
KHD-305	—	M5 x .80	30	13.5	10	4	31	24	40	KHD-260	KHD-60	M10 x 1.50	25	21.5	16	10	55	37.5	80
KHD-308	KHD-108	M6 x 1.00	10	13.5	10	4	31	24	40	KHD-262	KHD-62	M10 x 1.50	30	21.5	16	10	55	37.5	80
KHD-310	KHD-110	M6 x 1.00	15	13.5	10	4	31	24	40	KHD-264	KHD-64	M10 x 1.50	35	21.5	16	10	55	37.5	80
KHD-232	KHD-32	M6 x 1.00	20	13.5	10	4	31	24	40	KHD-266	KHD-66	M10 x 1.50	40	21.5	16	10	55	37.5	80
KHD-234	KHD-34	M6 x 1.00	25	13.5	10	4	31	24	40	—	KHD-68	M10 x 1.50	45	21.5	16	10	55	37.5	80
KHD-236	KHD-36	M6 x 1.00	30	13.5	10	4	31	24	40	KHD-270	KHD-70	M10 x 1.50	50	21.5	16	10	55	37.5	80
KHD-238	KHD-38	M6 x 1.00	35	13.5	10	4	31	24	40	KHD-272	KHD-72	M10 x 1.50	60	21.5	16	10	55	37.5	80
KHD-240	KHD-40	M6 x 1.00	40	13.5	10	4	31	24	40	KHD-336	—	M10 x 1.50	20	25.5	19	10	64	42.5	95
KHD-242	KHD-42	M6 x 1.00	45	13.5	10	4	31	24	40	—	KHD-138	M10 x 1.50	25	25.5	19	10	64	42.5	95
KHD-237	—	M6 x 1.00	20	18	13.5	6.5	43	29	65	KHD-337	KHD-74	M10 x 1.50	30	25.5	19	10	64	42.5	95
KHD-239	—	M6 x 1.00	30	18	13.5	6.5	43	29	65	KHD-340	KHD-140	M10 x 1.50	35	25.5	19	10	64	42.5	95
KHD-312	KHD-112	M8 x 1.25	15	18	13.5	6.5	43	29	65	KHD-276	KHD-76	M10 x 1.50	40	25.5	19	10	64	42.5	95
KHD-244	KHD-44	M8 x 1.25	20	18	13.5	6.5	43	29	65	KHD-278	KHD-78	M10 x 1.50	50	25.5	19	10	64	42.5	95
KHD-246	KHD-46	M8 x 1.25	25	18	13.5	6.5	43	29	65	KHD-280	KHD-80	M10 x 1.50	60	25.5	19	10	64	42.5	95
KHD-248	KHD-48	M8 x 1.25	30	18	13.5	6.5	43	29	65	KHD-344	KHD-144	M12 x 1.75	20	25.5	19	10	64	42.5	95
KHD-250	KHD-50	M8 x 1.25	35	18	13.5	6.5	43	29	65	KHD-346	KHD-146	M12 x 1.75	25	25.5	19	10	64	42.5	95
KHD-252	KHD-52	M8 x 1.25	40	18	13.5	6.5	43	29	65	KHD-282	KHD-82	M12 x 1.75	30	25.5	19	10	64	42.5	95
KHD-254	KHD-54	M8 x 1.25	45	18	13.5	6.5	43	29	65	—	KHD-148	M12 x 1.75	35	25.5	19	10	64	42.5	95
KHD-314	KHD-114	M8 x 1.25	50	18	13.5	6.5	43	29	65	KHD-284	KHD-84	M12 x 1.75	40	25.5	19	10	64	42.5	95
KHD-256	KHD-56	M8 x 1.25	60	18	13.5	6.5	43	29	65	—	KHD-150	M12 x 1.75	45	25.5	19	10	64	42.5	95
KHD-318	KHD-118	M10 x 1.50	20	18	13.5	6.5	43	29	65	KHD-286	KHD-86	M12 x 1.75	50	25.5	19	10	64	42.5	95
KHD-320	—	M10 x 1.50	25	18	13.5	6.5	43	29	65	KHD-288	KHD-88	M12 x 1.75	60	25.5	19	10	64	42.5	95
KHD-322	KHD-122	M10 x 1.50	30	18	13.5	6.5	43	29	65	KHD-283	—	M12 x 1.75	30	30.5	23	12	75	51	110
KHD-324	KHD-124	M10 x 1.50	35	18	13.5	6.5	43	29	65	—	KHD-90	M12 x 1.75	40	30.5	23	12	75	51	110
KHD-326	KHD-126	M10 x 1.50	40	18	13.5	6.5	43	29	65	—	KHD-92	M12 x 1.75	60	30.5	23	12	75	51	110
—	KHD-128	M10 x 1.50	45	18	13.5	6.5	43	29	65	KHD-285	—	M16 x 2.00	30	30.5	23	12	75	51	110
KHD-330	KHD-130	M10 x 1.50	50	18	13.5	6.5	43	29	65	—	KHD-94	M16 x 2.00	50	30.5	23	12	75	51	110
KHD-332	KHD-132	M10 x 1.50	60	18	13.5	6.5	43	29	65	—	KHD-96	M16 x 2.00	60	30.5	23	12	75	51	110

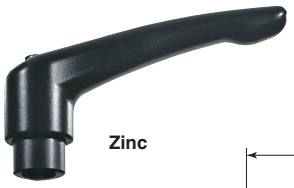
Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

ADJUSTABLE HANDLES

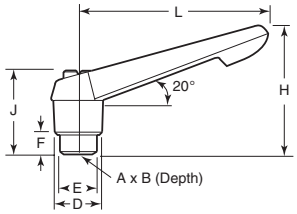
These adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made from Type 303 stainless steel. Zinc lever is finished in a tough chip and peel resistant powder coating for use in food industry or where corrosion is a problem.



Plastic



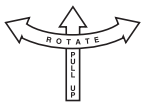
Zinc



Tapped or Reamed Type

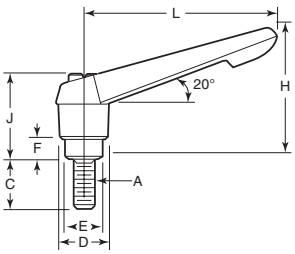


Plastic





Zinc



Stud Type

KIPP
Black Plastic or Powder Coated Zinc - Stainless Steel Components - Type 303
Tapped or Reamed Hole
Inch and Metric

Plastic Item No.	Zinc Item No.	A	B	D	E	F	H	J	L
Inch									
KHF-2	KHF-30	10-32	.35	.53	.39	.15	1.22	.95	1.57
KHF-4	KHF-32	¼-20	.35	.53	.39	.15	1.22	.95	1.57
KHF-8	KHF-36	¼-20	.47	.71	.53	.25	1.69	1.14	2.56
KHF-10	KHF-38	5⁄16-18	.47	.71	.53	.25	1.69	1.14	2.56
KHF-16	KHF-44	5⁄16-18	.55	.84	.62	.39	2.16	1.47	3.15
KHF-18	KHF-46	⅜-16	.55	.84	.62	.39	2.16	1.47	3.15
KHF-24	KHF-52	⅜-16	.67	1.00	.75	.39	2.52	1.68	3.74
KHF-26	KHF-54	½-13	.67	1.00	.75	.39	2.52	1.68	3.74

Plastic Item No.	Zinc Item No.	A	B	D	E	F	H	J	L
Metric									
KHF-220	KHF-320	M6 x 1.00	9	13.5	10	4	31	24	40
KHF-235	KHF-335	M8 x 1.25	12	18	13.5	6.5	43	29	65
KHF-240	KHF-340	M8 x 1.25	14	21.5	16	10	55	37.5	80
—	KHF-350	M10 x 1.50	14	21.5	16	10	55	37.5	80
KHF-255	KHF-355	M10 x 1.50	17	25.5	19	10	64	42.5	95

KIPP
Black Plastic or Powder Coated Zinc - Stainless Steel Components - Type 303
Steel Stud
Inch and Metric

Plastic Item No.	Zinc Item No.	A	C	D	E	F	H	J	L
Inch									
KHF-60	KHF-114	10-32	.59	.53	.39	.15	1.22	.95	1.57
KHF-62	KHF-116	10-32	.78	.53	.39	.15	1.22	.95	1.57
—	KHF-118	10-32	1.18	.53	.39	.15	1.22	.95	1.57
—	KHF-910	10-24	.39	.53	.39	.15	1.22	.95	1.57
KHF-820	KHF-920	10-24	.59	.53	.39	.15	1.22	.95	1.57
—	KHF-930	10-24	.78	.53	.39	.15	1.22	.95	1.57
KHF-840	—	10-24	1.18	.53	.39	.15	1.22	.95	1.57
KHF-66	KHF-120	¼-20	.39	.53	.39	.15	1.22	.95	1.57
KHF-68	KHF-122	¼-20	.59	.53	.39	.15	1.22	.95	1.57
KHF-70	KHF-124	¼-20	.78	.53	.39	.15	1.22	.95	1.57
KHF-72	KHF-126	¼-20	1.18	.53	.39	.15	1.22	.95	1.57
KHF-74	KHF-128	¼-20	1.57	.53	.39	.15	1.22	.95	1.57
KHF-76	KHF-130	¼-20	1.77	.53	.39	.15	1.22	.95	1.57
KHF-78	KHF-132	5⁄16-18	.59	.71	.53	.25	1.69	1.14	2.56
KHF-80	KHF-134	5⁄16-18	.78	.71	.53	.25	1.69	1.14	2.56
KHF-82	KHF-136	5⁄16-18	1.18	.71	.53	.25	1.69	1.14	2.56
KHF-84	KHF-138	5⁄16-18	1.57	.71	.53	.25	1.69	1.14	2.56
KHF-86	KHF-140	5⁄16-18	1.77	.71	.53	.25	1.69	1.14	2.56
KHF-850	KHF-950	5⁄16-18	1.96	.71	.53	.25	1.69	1.14	2.56
KHF-88	KHF-142	5⁄16-18	2.36	.71	.53	.25	1.69	1.14	2.56
KHF-90	KHF-144	⅜-16	.59	.84	.62	.39	2.16	1.47	3.15
KHF-92	KHF-146	⅜-16	.78	.84	.62	.39	2.16	1.47	3.15
KHF-94	KHF-148	⅜-16	1.18	.84	.62	.39	2.16	1.47	3.15
KHF-96	KHF-150	⅜-16	1.57	.84	.62	.39	2.16	1.47	3.15
KHF-98	KHF-152	⅜-16	1.77	.84	.62	.39	2.16	1.47	3.15
KHF-860	KHF-960	⅜-16	1.96	.84	.62	.39	2.16	1.47	3.15
KHF-100	KHF-154	⅜-16	2.36	.84	.62	.39	2.16	1.47	3.15
KHF-102	KHF-156	½-13	1.18	1.00	.75	.39	2.52	1.68	3.74
KHF-104	KHF-158	½-13	1.38	1.00	.75	.39	2.52	1.68	3.74
KHF-890	KHF-990	½-13	1.57	1.00	.75	.39	2.52	1.68	3.74
KHF-106	KHF-160	½-13	1.77	1.00	.75	.39	2.52	1.68	3.74
KHF-108	KHF-162	½-13	1.96	1.00	.75	.39	2.52	1.68	3.74
KHF-110	KHF-164	½-13	2.36	1.00	.75	.39	2.52	1.68	3.74

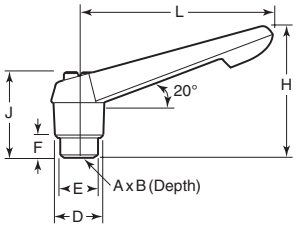
Plastic Item No.	Zinc Item No.	A	C	D	E	F	H	J	L
Metric									
KHF-410	KHF-610	M5	15	13	10	4	30	24.5	40
—	KHF-615	M5 x .80	20	13.5	10	4	31	24	40
KHF-420	—	M5 x .80	25	13.5	10	4	31	24	40
KHF-425	—	M6 x 1.00	10	13.5	10	4	31	24	40
KHF-430	KHF-630	M6 x 1.00	15	13.5	10	4	31	24	40
KHF-435	KHF-635	M6 x 1.00	20	13.5	10	4	31	24	40
KHF-440	KHF-640	M6 x 1.00	25	13.5	10	4	31	24	40
KHF-445	KHF-645	M6 x 1.00	30	13.5	10	4	31	24	40
KHF-450	—	M6 x 1.00	35	13.5	10	4	31	24	40
KHF-455	KHF-655	M6 x 1.00	40	13.5	10	4	31	24	40
KHF-460	KHF-660	M6 x 1.00	45	13.5	10	4	31	24	40
KHF-465	KHF-665	M8 x 1.25	15	18	13.5	6.5	43	29	65
KHF-470	KHF-670	M8 x 1.25	20	18	13.5	6.5	43	29	65
KHF-475	KHF-675	M8 x 1.25	25	18	13.5	6.5	43	29	65
KHF-480	KHF-680	M8 x 1.25	30	18	13.5	6.5	43	29	65
KHF-485	KHF-685	M8 x 1.25	35	18	13.5	6.5	43	29	65
KHF-490	KHF-690	M8 x 1.25	40	18	13.5	6.5	43	29	65
KHF-495	KHF-695	M8 x 1.25	45	18	13.5	6.5	43	29	65
KHF-500	KHF-700	M8 x 1.25	50	18	13.5	6.5	43	29	65
KHF-505	KHF-705	M8 x 1.25	60	18	13.5	6.5	43	29	65
—	KHF-710	M10 x 1.50	20	21.5	16	10	55	37.5	80
—	KHF-715	M10 x 1.50	25	21.5	16	10	55	37.5	80
KHF-520	KHF-720	M10 x 1.50	30	21.5	16	10	55	37.5	80
—	KHF-725	M10 x 1.50	35	21.5	16	10	55	37.5	80
KHF-530	KHF-730	M10 x 1.50	40	21.5	16	10	55	37.5	80
KHF-535	—	M10 x 1.50	45	21.5	16	10	55	37.5	80
KHF-540	KHF-740	M10 x 1.50	50	21.5	16	10	55	37.5	80
KHF-545	KHF-745	M10 x 1.50	60	21.5	16	10	55	37.5	80
—	KHF-750	M12 x 1.75	25	25.5	19	10	64	42.5	95
KHF-555	KHF-755	M12	30	25.5	19	10	61	43	95
—	KHF-760	M12 x 1.75	40	25.5	19	10	64	42.5	95
KHF-565	KHF-765	M12 x 1.75	50	25.5	19	10	64	42.5	95
KHF-570	KHF-770	M12 x 1.75	60	25.5	19	10	64	42.5	95

ADJUSTABLE HANDLES

KIPP Stainless Steel Adjustable Internal Thread Inch

Stainless Steel Available





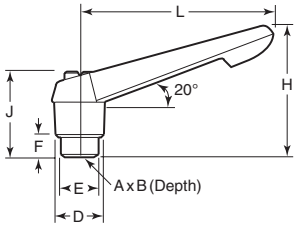
Blank, Tapped or Reamed Type

Item No.	A	B	D	E	F	H	J	L
KHA-700	10-24	9	13	10	4	31	24.5	40
KHA-702		9	13	10	4	31	24.5	40
KHA-704		9	13	10	4	31	24.5	40
KHA-706		12	18.5	13.5	6.5	42.5	28.5	65
KHA-708		12	18.5	13.5	6.5	42.5	28.5	65
KHA-710		14	21	16	10	54.5	37	80
KHA-712		14	21	16	10	54.5	37	80
KHA-714	3/8-16	17	27	19	10	63	43	95
KHA-716	1/2-13	17	27	19	10	63	43	95

KIPP Stainless Steel Adjustable Internal Thread Metric

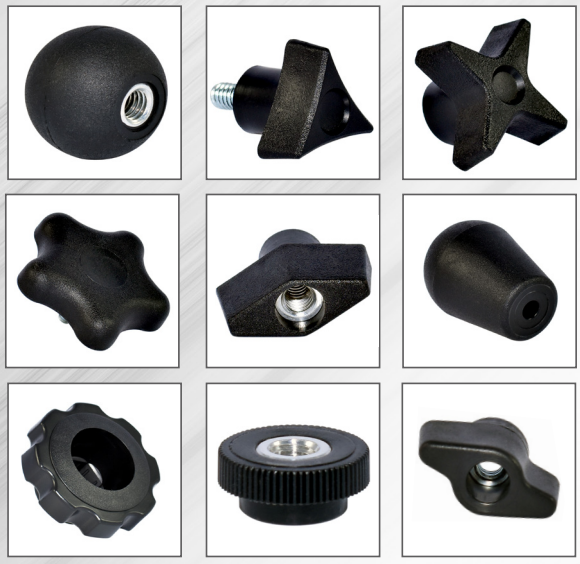
Stainless Steel Available

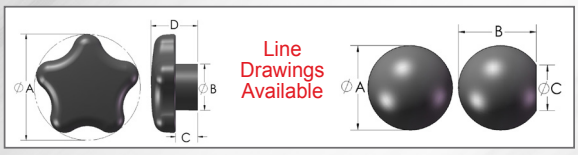




Blank, Tapped or Reamed Type

Item No.	A	B	D	E	F	H	J	L
KHA-718	M4	9	13	10	4	31	24.5	40
KHA-720	M5	9	13	10	4	31	24.5	40
KHA-722	M6	9	13	10	4	31	24.5	40
KHA-724	M6	12	18.5	13.5	6.5	42.5	28.5	65
KHA-726	M8	12	18.5	13.5	6.5	42.5	28.5	65
KHA-728	M8	14	21	16	10	54.5	37	80
KHA-730	M10	14	21	16	10	54.5	37	80
KHA-732	M10	17	27	19	10	63	43	95
KHA-734	M12	17	27	19	10	63	43	95





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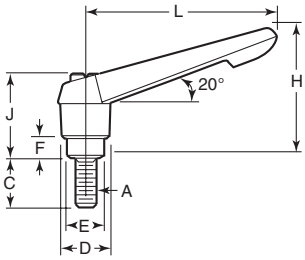
SHOP NOW

ADJUSTABLE HANDLES

KIPP
Stainless Steel
External Thread
Adjustable
Inch

Stainless Steel Available



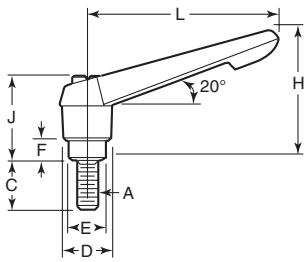


Item No.	A	C	D	E	F	H	J	L
KHA-736	10-24	10	13	10	4	31	24.5	40
KHA-738	10-24	15	13	10	4	31	24.5	40
KHA-740	10-24	20	13	10	4	31	24.5	40
KHA-742	10-24	25	13	10	4	31	24.5	40
KHA-744	10-32	10	13	10	4	31	24.5	40
KHA-746	10-32	15	13	10	4	31	24.5	40
KHA-748	10-32	20	13	10	4	31	24.5	40
KHA-750	10-32	25	13	10	4	31	24.5	40
KHA-752	1/4-20	10	13	10	4	31	24.5	40
KHA-754	1/4-20	15	13	10	4	31	24.5	40
KHA-756	1/4-20	20	13	10	4	31	24.5	40
KHA-758	1/4-20	25	13	10	4	31	24.5	40
KHA-760	1/4-20	30	13	10	4	31	24.5	40
KHA-762	1/4-20	40	13	10	4	31	24.5	40
KHA-764	1/4-20	50	13	10	4	31	24.5	40
KHA-766	1/4-20	15	18.5	13.5	6.5	42.5	28.5	65
KHA-768	1/4-20	20	18.5	13.5	6.5	42.5	28.5	65
KHA-770	1/4-20	25	18.5	13.5	6.5	42.5	28.5	65
KHA-772	1/4-20	30	18.5	13.5	6.5	42.5	28.5	65
KHA-774	1/4-20	40	18.5	13.5	6.5	42.5	28.5	65
KHA-776	1/4-20	50	18.5	13.5	6.5	42.5	28.5	65
KHA-778	1/4-20	60	18.5	13.5	6.5	42.5	28.5	65
KHA-780	5/16-18	15	18.5	13.5	6.5	42.5	28.5	65
KHA-782	5/16-18	20	18.5	13.5	6.5	42.5	28.5	65
KHA-784	5/16-18	25	18.5	13.5	6.5	42.5	28.5	65
KHA-786	5/16-18	30	18.5	13.5	6.5	42.5	28.5	65
KHA-788	5/16-18	40	18.5	13.5	6.5	42.5	28.5	65
KHA-790	5/16-18	50	18.5	13.5	6.5	42.5	28.5	65
KHA-792	5/16-18	60	18.5	13.5	6.5	42.5	28.5	65
KHA-794	3/8-16	20	18.5	13.5	6.5	42.5	28.5	65
KHA-796	3/8-16	25	18.5	13.5	6.5	42.5	28.5	65
KHA-798	3/8-16	30	18.5	13.5	6.5	42.5	28.5	65
KHA-800	3/8-16	40	18.5	13.5	6.5	42.5	28.5	65
KHA-802	3/8-16	50	18.5	13.5	6.5	42.5	28.5	65
KHA-804	3/8-16	60	18.5	13.5	6.5	42.5	28.5	65
KHA-806	5/16-18	20	21	16	10	54.5	37	80
KHA-808	5/16-18	25	21	16	10	54.5	37	80
KHA-810	5/16-18	30	21	16	10	54.5	37	80
KHA-812	5/16-18	40	21	16	10	54.5	37	80
KHA-814	5/16-18	50	21	16	10	54.5	37	80
KHA-816	5/16-18	60	21	16	10	54.5	37	80
KHA-818	3/8-16	20	21	16	10	54.5	37	80
KHA-820	3/8-16	25	21	16	10	54.5	37	80
KHA-822	3/8-16	30	21	16	10	54.5	37	80
KHA-824	3/8-16	40	21	16	10	54.5	37	80
KHA-826	3/8-16	50	21	16	10	54.5	37	80
KHA-828	3/8-16	60	21	16	10	54.5	37	80
KHA-830	1/2-13	25	27	19	10	63	43	95
KHA-832	1/2-13	30	27	19	10	63	43	95
KHA-834	1/2-13	40	27	19	10	63	43	95
KHA-836	1/2-13	50	27	19	10	63	43	95
KHA-838	1/2-13	60	27	19	10	63	43	95

KIPP
Stainless Steel
External Thread
Adjustable
Inch

Stainless Steel Available





Item No.	A	C	D	E	F	H	J	L
KHA-840	M5	10	13	10	4	31	24.5	40
KHA-842	M5	15	13	10	4	31	24.5	40
KHA-844	M5	20	13	10	4	31	24.5	40
KHA-846	M5	25	13	10	4	31	24.5	40
KHA-848	M6	10	13	10	4	31	24.5	40
KHA-850	M6	15	13	10	4	31	24.5	40
KHA-852	M6	20	13	10	4	31	24.5	40
KHA-854	M6	25	13	10	4	31	24.5	40
KHA-856	M6	30	13	10	4	31	24.5	40
KHA-858	M6	40	13	10	4	31	24.5	40
KHA-860	M6	50	13	10	4	31	24.5	40
KHA-862	M6	15	18.5	13.5	6.5	42.5	28.5	65
KHA-864	M6	20	18.5	13.5	6.5	42.5	28.5	65
KHA-866	M6	25	18.5	13.5	6.5	42.5	28.5	65
KHA-868	M6	30	18.5	13.5	6.5	42.5	28.5	65
KHA-870	M6	40	18.5	13.5	6.5	42.5	28.5	65
KHA-872	M6	50	18.5	13.5	6.5	42.5	28.5	65
KHA-874	M6	60	18.5	13.5	6.5	42.5	28.5	65
KHA-876	M8	15	18.5	13.5	6.5	42.5	28.5	65
KHA-878	M8	20	18.5	13.5	6.5	42.5	28.5	65
KHA-880	M8	25	18.5	13.5	6.5	42.5	28.5	65
KHA-882	M8	30	18.5	13.5	6.5	42.5	28.5	65
KHA-884	M8	40	18.5	13.5	6.5	42.5	28.5	65
KHA-886	M8	50	18.5	13.5	6.5	42.5	28.5	65
KHA-888	M8	60	18.5	13.5	6.5	42.5	28.5	65
KHA-890	M10	20	18.5	13.5	6.5	42.5	28.5	65
KHA-892	M10	25	18.5	13.5	6.5	42.5	28.5	65
KHA-894	M10	30	18.5	13.5	6.5	42.5	28.5	65
KHA-896	M10	40	18.5	13.5	6.5	42.5	28.5	65
KHA-898	M10	50	18.5	13.5	6.5	42.5	28.5	65
KHA-900	M10	60	18.5	13.5	6.5	42.5	28.5	65
KHA-902	M8	20	21	16	10	54.5	37	80
KHA-904	M8	25	21	16	10	54.5	37	80
KHA-906	M8	30	21	16	10	54.5	37	80
KHA-908	M8	40	21	16	10	54.5	37	80
KHA-910	M8	50	21	16	10	54.5	37	80
KHA-912	M8	60	21	16	10	54.5	37	80
KHA-914	M10	20	21	16	10	54.5	37	80
KHA-916	M10	25	21	16	10	54.5	37	80
KHA-918	M10	30	21	16	10	54.5	37	80
KHA-920	M10	40	21	16	10	54.5	37	80
KHA-922	M10	50	21	16	10	54.5	37	80
KHA-924	M10	60	21	16	10	54.5	37	80
KHA-926	M12	25	27	19	10	63	43	95
KHA-928	M12	30	27	19	10	63	43	95
KHA-930	M12	40	27	19	10	63	43	95
KHA-932	M12	50	27	19	10	63	43	95
KHA-934	M12	60	27	19	10	63	43	95

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

ADJUSTABLE HANDLES

Size 0 adjustable handles are the smallest adjustable handles on the market. These are perfect for clamping in tight or restricted areas. Available in black or orange handles with steel or stainless steel components.



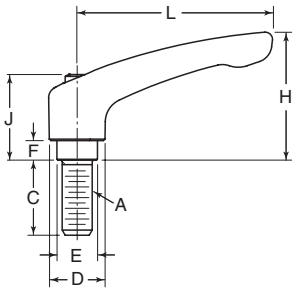


KIPP
Powder Coated Zinc - Steel Components
Internal Thread
Inch and Metric

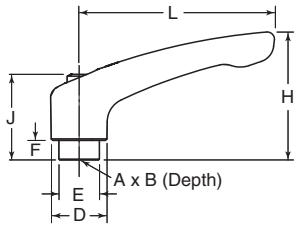
Black Item No.	Orange Item No.	A	B	D	E	F	H	J	L
Inch									
KHA-1259	KHA-1264	6-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1260	KHA-1265	8-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1261	KHA-1266	10-24	.35	.51	.39	.16	1.18	.96	1.18
KHA-1262	KHA-1267	10-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1263	KHA-1268	¼-20	.35	.51	.39	.16	1.18	.96	1.18
Metric									
KHA-1269	KHA-1272	M3	9	13	10	4	30	24.5	30
KHA-1270	KHA-1273	M4	9	13	10	4	30	24.5	30
KHA-1271	KHA-1274	M5	9	13	10	4	30	24.5	30

KIPP
Powder Coated Zinc - Steel Components
External Thread
Inch and Metric

Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
Inch									
KHA-936	KHA-1008	8-32	.39	.51	.39	.15	1.18	.96	1.18
KHA-938	KHA-1010	8-32	.59	.51	.39	.15	1.18	.96	1.18
KHA-940	KHA-1012	8-32	.79	.51	.39	.15	1.18	.96	1.18
KHA-942	KHA-1014	8-32	.98	.51	.39	.15	1.18	.96	1.18
KHA-944	KHA-1016	8-32	1.18	.51	.39	.15	1.18	.96	1.18
KHA-946	KHA-1018	8-32	1.37	.51	.39	.15	1.18	.96	1.18
KHA-948	KHA-1020	8-32	1.57	.51	.39	.15	1.18	.96	1.18
KHA-950	KHA-1022	8-32	1.77	.51	.39	.15	1.18	.96	1.18
KHA-952	KHA-1024	8-32	1.97	.51	.39	.15	1.18	.96	1.18
KHA-954	KHA-1026	10-24	.39	.51	.39	.15	1.18	.96	1.18
KHA-956	KHA-1028	10-24	.59	.51	.39	.15	1.18	.96	1.18
KHA-958	KHA-1030	10-24	.78	.51	.39	.15	1.18	.96	1.18
KHA-960	KHA-1032	10-24	.98	.51	.39	.15	1.18	.96	1.18
KHA-962	KHA-1034	10-24	1.18	.51	.39	.15	1.18	.96	1.18
KHA-964	KHA-1036	10-24	1.38	.51	.39	.15	1.18	.96	1.18
KHA-966	KHA-1038	10-24	1.57	.51	.39	.15	1.18	.96	1.18
KHA-968	KHA-1040	10-24	1.77	.51	.39	.15	1.18	.96	1.18
KHA-970	KHA-1042	10-24	1.97	.51	.39	.15	1.18	.96	1.18
KHA-972	KHA-1044	10-32	.39	.51	.39	.15	1.18	.96	1.18
KHA-974	KHA-1046	10-32	.59	.51	.39	.15	1.18	.96	1.18
KHA-976	KHA-1048	10-32	.79	.51	.39	.15	1.18	.96	1.18
KHA-978	KHA-1050	10-32	.98	.51	.39	.15	1.18	.96	1.18
KHA-980	KHA-1052	10-32	1.18	.51	.39	.15	1.18	.96	1.18
KHA-982	KHA-1054	10-32	1.38	.51	.39	.15	1.18	.96	1.18
KHA-984	KHA-1056	10-32	1.57	.51	.39	.15	1.18	.96	1.18
KHA-986	KHA-1058	10-32	1.77	.51	.39	.15	1.18	.96	1.18
KHA-988	KHA-1060	10-32	1.97	.51	.39	.15	1.18	.96	1.18
KHA-990	KHA-1062	¼-20	.39	.51	.39	.15	1.18	.96	1.18
KHA-992	KHA-1064	¼-20	.59	.51	.39	.15	1.18	.96	1.18
KHA-994	KHA-1066	¼-20	.79	.51	.39	.15	1.18	.96	1.18
KHA-996	KHA-1068	¼-20	.98	.51	.39	.15	1.18	.96	1.18
KHA-998	KHA-1070	¼-20	1.18	.51	.39	.15	1.18	.96	1.18
KHA-1000	KHA-1072	¼-20	1.38	.51	.39	.15	1.18	.96	1.18
KHA-1002	KHA-1074	¼-20	1.57	.51	.39	.15	1.18	.96	1.18
KHA-1004	KHA-1076	¼-20	1.77	.51	.39	.15	1.18	.96	1.18
KHA-1006	KHA-1078	¼-20	1.97	.51	.39	.15	1.18	.96	1.18
Metric									
KHA-1080	KHA-1116	M4 x .70	10	13	10	4	30	24.5	30
KHA-1082	KHA-1118	M4 x .70	15	13	10	4	30	24.5	30
KHA-1084	KHA-1120	M4 x .70	20	13	10	4	30	24.5	30
KHA-1086	KHA-1122	M4 x .70	25	13	10	4	30	24.5	30
KHA-1088	KHA-1124	M4 x .70	30	13	10	4	30	24.5	30
KHA-1090	KHA-1126	M4 x .70	35	13	10	4	30	24.5	30
KHA-1092	KHA-1128	M4 x .70	40	13	10	4	30	24.5	30
KHA-1094	KHA-1130	M4 x .70	45	13	10	4	30	24.5	30
KHA-1096	KHA-1132	M4 x .70	50	13	10	4	30	24.5	30
KHA-1098	KHA-1134	M5 x .80	10	13	10	4	30	24.5	30
KHA-1100	KHA-1136	M5 x .80	15	13	10	4	30	24.5	30
KHA-1102	KHA-1138	M5 x .80	20	13	10	4	30	24.5	30
KHA-1104	KHA-1140	M5 x .80	25	13	10	4	30	24.5	30
KHA-1106	KHA-1142	M5 x .80	30	13	10	4	30	24.5	30
KHA-1108	KHA-1144	M5 x .80	35	13	10	4	30	24.5	30
KHA-1110	KHA-1146	M5 x .80	40	13	10	4	30	24.5	30
KHA-1112	KHA-1148	M5 x .80	45	13	10	4	30	24.5	30
KHA-1114	KHA-1150	M5 x .80	50	13	10	4	30	24.5	30



External Threads



Internal Threads

KIPP
Powder Coated Zinc - Stainless Steel Components
Internal Thread
Inch and Metric

Black Item No.	Orange Item No.	A	B	D	E	F	H	J	L
Inch									
KHA-1275	KHA-1280	6-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1276	KHA-1281	8-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1277	KHA-1282	10-24	.35	.51	.39	.16	1.18	.96	1.18
KHA-1278	KHA-1283	10-32	.35	.51	.39	.16	1.18	.96	1.18
KHA-1279	KHA-1284	¼-20	.35	.51	.39	.16	1.18	.96	1.18
Metric									
KHA-1285	KHA-1288	M3	.35	13	10	4	30	24.5	30
KHA-1286	KHA-1289	M4	.35	13	10	4	30	24.5	30
KHA-1287	KHA-1290	M5	.35	13	10	4	30	24.5	30

KIPP
Powder Coated Zinc - Stainless Steel Components
External Thread
Inch and Metric

Black Item No.	Orange Item No.	A	C	D	E	F	H	J	L
Inch									
KHA-1152	KHA-1190	8-32	.39	.51	.39	.15	1.18	.96	1.18
KHA-1154	KHA-1192	8-32	.59	.51	.39	.15	1.18	.96	1.18
KHA-1156	KHA-1194	8-32	.78	.51	.39	.15	1.18	.96	1.18
KHA-1158	KHA-1196	8-32	.98	.51	.39	.15	1.18	.96	1.18
KHA-1160	KHA-1198	10-24	.39	.51	.39	.15	1.18	.96	1.18
KHA-1162	KHA-1200	10-24	.59	.51	.39	.15	1.18	.96	1.18
KHA-1164	KHA-1202	10-24	.78	.51	.39	.15	1.18	.96	1.18
KHA-1166	KHA-1204	10-24	.98	.51	.39	.15	1.18	.96	1.18
KHA-1168	KHA-1206	10-32	.39	.51	.39	.15	1.18	.96	1.18
KHA-1170	KHA-1208	10-32	.59	.51	.39	.15	1.18	.96	1.18
KHA-1172	KHA-1210	10-32	.78	.51	.39	.15	1.18	.96	1.18
KHA-1174	KHA-1212	10-32	.98	.51	.39	.15	1.18	.96	1.18
KHA-1176	KHA-1214	¼-20	.39	.51	.39	.15	1.18	.96	1.18
KHA-1178	KHA-1216	¼-20	.59	.51	.39	.15	1.18	.96	1.18
KHA-1180	KHA-1218	¼-20	.78	.51	.39	.15	1.18	.96	1.18
KHA-1182	KHA-1220	¼-20	.98	.51	.39	.15	1.18	.96	1.18
KHA-1184	KHA-1222	¼-20	1.18	.51	.39	.15	1.18	.96	1.18
KHA-1186	KHA-1224	¼-20	1.57	.51	.39	.15	1.18	.96	1.18
KHA-1188	KHA-1226	¼-20	1.96	.51	.39	.15	1.18	.96	1.18
Metric									
KHA-1228	KHA-1244	M4 x .70	10	13	10	4	30	24.5	30
KHA-1230	KHA-1246	M4 x .70	15	13	10	4	30	24.5	30
KHA-1232	KHA-1248	M4 x .70	20	13	10	4	30	24.5	30
KHA-1234	KHA-1250	M4 x .70	25	13	10	4	30	24.5	30
KHA-1236	KHA-1252	M5 x .80	10	13	10	4	30	24.5	30
KHA-1238	KHA-1254	M5 x .80	15	13	10	4	30	24.5	30
KHA-1240	KHA-1256	M5 x .80	20	13	10	4	30	24.5	30
KHA-1242	KHA-1258	M5 x .80	25	13	10	4	30	24.5	30

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

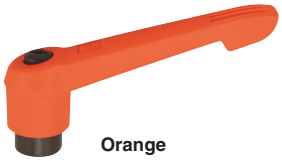
ADJUSTABLE HANDLES

Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

KIPP
Plastic and Powder Coated Zinc- Steel Components
Adjustable Handle
Steel Insert
Inch



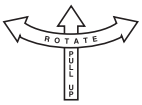
Blue



Orange

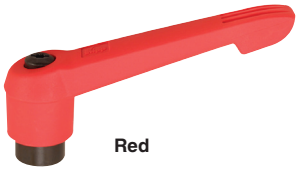


Yellow

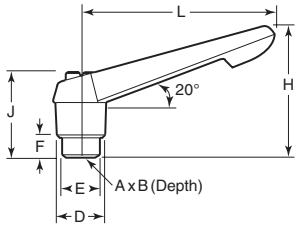




Green



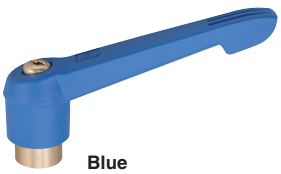
Red



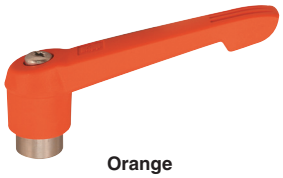
Blank, Tapped or Reamed Type

Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	B	D	E	F	H	J	L
KHA-3409	KHA-3478	KHA-3547	KHA-3616	KHA-3685	8-32	.35	.55	.39	.16	1.22	.96	1.57
KHA-3400	KHA-3469	KHA-3538	KHA-3607	KHA-3676	10-24	.35	.55	.39	.16	1.22	.96	1.57
KHA-3403	KHA-3472	KHA-3541	KHA-3610	KHA-3679	10-32	.35	.55	.39	.16	1.22	.96	1.57
KHA-3406	KHA-3475	KHA-3544	KHA-3613	KHA-3682	¼-20	.35	.55	.39	.16	1.22	.96	1.57
KHA-3412	KHA-3481	KHA-3550	KHA-3619	KHA-3688	¼-20	.47	.73	.53	.26	1.67	1.12	2.65
KHA-3415	KHA-3484	KHA-3553	KHA-3622	KHA-3691	5⁄16-18	.47	.73	.53	.26	1.67	1.12	2.65
KHA-3418	KHA-3487	KHA-3556	KHA-3625	KHA-3694	5⁄16-18	.55	.83	.63	.39	2.15	1.46	3.15
KHA-3421	KHA-3490	KHA-3559	KHA-3628	KHA-3697	⅜-16	.55	.83	.63	.39	2.15	1.46	3.15
KHA-3424	KHA-3493	KHA-3562	KHA-3631	KHA-3700	⅜-16	.67	1.06	.75	.39	2.48	1.69	3.74
KHA-3427	KHA-3496	KHA-3565	KHA-3634	KHA-3703	½-13	.67	1.06	.75	.39	2.48	1.69	3.74
KHA-3430	KHA-3499	KHA-3568	KHA-3637	KHA-3706	½-13	.91	1.18	.91	.47	2.83	1.93	4.33
KHA-3433	KHA-3502	KHA-3571	KHA-3640	KHA-3709	5⁄8-11	.91	1.18	.91	.47	2.83	1.93	4.33

KIPP
Plastic and Powder Coated Zinc- Stainless Steel Components
Adjustable Handle
Stainless Steel Insert
Inch



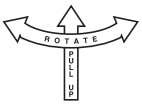
Blue

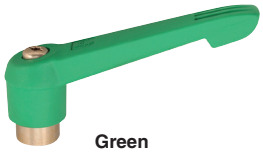


Orange

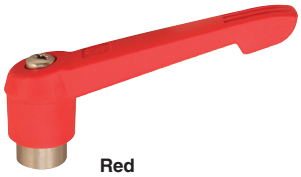


Yellow

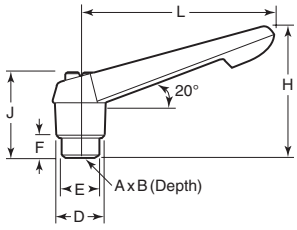




Green



Red



Blank, Tapped or Reamed Type

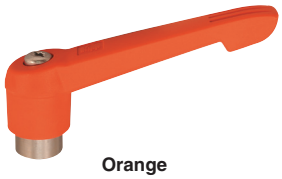
Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	B	D	E	F	H	J	L
KHA-3000	KHA-3063	KHA-3126	KHA-3192	KHA-3255	8-32	.35	.55	.39	.16	1.22	.96	1.57
KHA-3003	KHA-3066	KHA-3129	KHA-3195	KHA-3258	10-24	.35	.55	.39	.16	1.22	.96	1.57
KHA-3006	KHA-3069	KHA-3132	KHA-3198	KHA-3261	10-32	.35	.55	.39	.16	1.22	.96	1.57
KHA-3009	KHA-3072	KHA-3135	KHA-3201	KHA-3264	¼-20	.35	.55	.39	.16	1.22	.96	1.57
KHA-3012	KHA-3075	KHA-3138	KHA-3204	KHA-3267	¼-20	.47	.73	.53	.26	1.67	1.12	2.65
KHA-3015	KHA-3078	KHA-3141	KHA-3207	KHA-3270	5⁄16-18	.47	.73	.53	.26	1.67	1.12	2.65
KHA-3018	KHA-3081	KHA-3144	KHA-3210	KHA-3273	5⁄16-18	.55	.83	.63	.39	2.15	1.46	3.15
KHA-3021	KHA-3084	KHA-3147	KHA-3213	KHA-3276	⅜-16	.55	.83	.63	.39	2.15	1.46	3.15
KHA-3024	KHA-3087	KHA-3150	KHA-3216	KHA-3279	⅜-16	.67	1.06	.75	.39	2.48	1.69	3.74
KHA-3027	KHA-3090	KHA-3153	KHA-3219	KHA-3282	½-13	.67	1.06	.75	.39	2.48	1.69	3.74
—	—	KHA-3156	—	KHA-3285	½-13	.91	1.18	.91	.47	2.83	1.93	4.33

ADJUSTABLE HANDLES

KIPP
Plastic Handle
Adjustable
Stainless Steel Inset
Metric



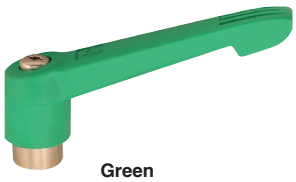
Blue



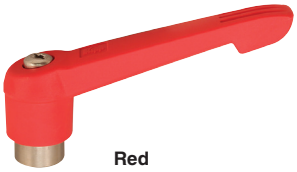
Orange



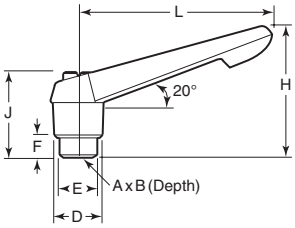
Yellow



Green



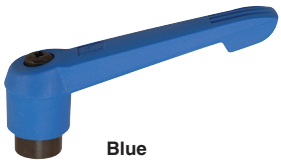
Red



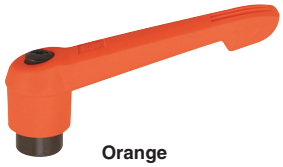
Blank, Tapped or Reamed Type

Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	B	D	E	F	H	J	L
KHA-3060	KHA-3123	KHA-3189	KHA-3252	KHA-3318	M4	9	13	10	4	30	24.5	40
KHA-3054	KHA-3117	KHA-3183	KHA-3246	KHA-3312	M5	9	13	10	4	30	24.5	40
KHA-3057	KHA-3120	KHA-3186	KHA-3249	KHA-3315	M6	9	13	10	4	30	24.5	40
KHA-3030	KHA-3093	KHA-3159	KHA-3222	KHA-3288	M6	12	18	13.5	6.5	41.5	28.5	65
KHA-3033	KHA-3096	KHA-3162	KHA-3225	KHA-3291	M8	12	18	13.5	6.5	41.5	28.5	65
KHA-3036	KHA-3099	KHA-3165	KHA-3228	KHA-3294	M8	14	21.5	16	10	53.5	37	80
KHA-3039	KHA-3102	KHA-3168	KHA-3231	KHA-3297	M10	14	21.5	16	10	53.5	37	80
KHA-3042	KHA-3105	KHA-3171	KHA-3234	KHA-3300	M10	17	25.5	19	10	61	43	95
KHA-3045	KHA-3108	KHA-3174	KHA-3237	KHA-3303	M12	17	25.5	19	10	61	43	95
KHA-3051	KHA-3114	KHA-3177	KHA-3240	KHA-3306	M12	23	30	23	12	72	49	110
KHA-3048	KHA-3111	KHA-3180	KHA-3243	KHA-3309	M16	23	30	23	12	72	49	110

KIPP
Plastic Handle
Adjustable
Steel Insert
Metric



Blue



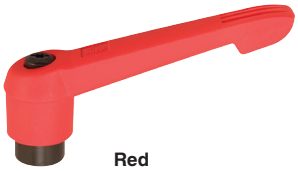
Orange



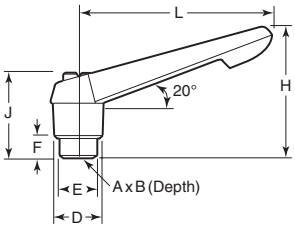
Yellow



Green



Red



Blank, Tapped or Reamed Type

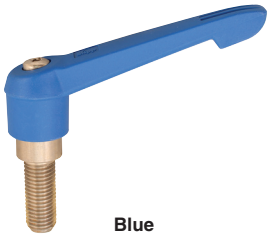
Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	B	D	E	F	H	J	L
KHA-3460	KHA-3529	KHA-3598	KHA-3667	KHA-3736	M4	9	13	10	4	30	24.5	40
KHA-3463	KHA-3532	KHA-3601	KHA-3670	KHA-3739	M5	9	13	10	4	30	24.5	40
KHA-3466	KHA-3535	KHA-3604	KHA-3673	KHA-3742	M6	9	13	10	4	30	24.5	40
KHA-3436	KHA-3505	KHA-3574	KHA-3643	KHA-3712	M6	12	18	13.5	6.5	41.5	28.5	65
KHA-3439	KHA-3508	KHA-3577	KHA-3646	KHA-3715	M8	12	18	13.5	6.5	41.5	28.5	65
KHA-3442	KHA-3511	KHA-3580	KHA-3649	KHA-3718	M8	14	21.5	16	10	53.5	37	80
KHA-3445	KHA-3514	KHA-3583	KHA-3652	KHA-3721	M10	14	21.5	16	10	53.5	37	80
KHA-3448	KHA-3517	KHA-3586	KHA-3655	KHA-3724	M10	17	25.5	19	10	61	43	95
KHA-3451	KHA-3520	KHA-3589	KHA-3658	KHA-3727	M12	17	25.5	19	10	61	43	95
KHA-3454	KHA-3523	KHA-3592	KHA-3661	KHA-3730	M12	23	30	23	12	72	49	110
KHA-3457	KHA-3526	KHA-3595	KHA-3664	KHA-3733	M16	23	30	23	12	72	49	110

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Reid SUPPLY AN ESSENTRA COMPANY

ADJUSTABLE HANDLES

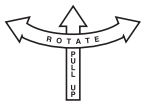
Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of stainless steel.

KIPP
Plastic and Powder Coated Zinc- Stainless Steel Components
Adjustable Handle
Stainless Steel Stud
Inch

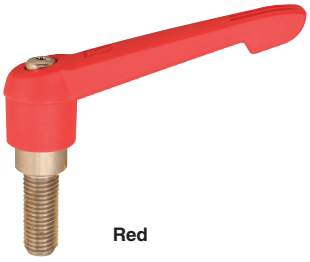

Blue

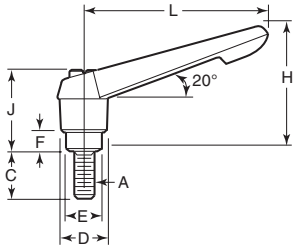

Orange


Yellow




Green


Red



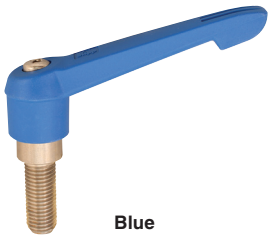
Stud Type

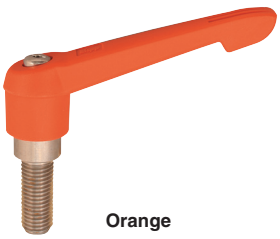
Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-3803	KHA-4121	KHA-4439	KHA-4757	KHA-5075	#10	.59	.53	.39	.15	1.22	.95	1.57
KHA-3806	KHA-4124	KHA-4442	KHA-4760	KHA-5078	#10	.59	.53	.39	.15	1.22	.95	1.57
KHA-3818	KHA-4136	KHA-4454	KHA-4772	KHA-5090	#10	.79	.53	.39	.15	1.22	.95	1.57
KHA-3821	KHA-4139	KHA-4457	KHA-4775	KHA-5093	#10	.79	.53	.39	.15	1.22	.95	1.57
KHA-3842	KHA-4160	KHA-4478	KHA-4796	KHA-5114	#10	.98	.53	.39	.15	1.22	.95	1.57
KHA-3845	KHA-4163	KHA-4481	KHA-4799	KHA-5117	#10	.98	.53	.39	.15	1.22	.95	1.57
KHA-3800	KHA-4118	KHA-4436	KHA-4754	KHA-5072	¼-20	.39	.53	.39	.15	1.22	.95	1.57
KHA-3809	KHA-4127	KHA-4445	KHA-4763	KHA-5081	¼-20	.59	.53	.39	.15	1.22	.95	1.57
KHA-3824	KHA-4142	KHA-4460	KHA-4778	KHA-5096	¼-20	.79	.53	.39	.15	1.22	.95	1.57
KHA-3848	KHA-4166	KHA-4484	KHA-4802	KHA-5120	¼-20	.98	.53	.39	.15	1.22	.95	1.57
KHA-3869	KHA-4187	KHA-4505	KHA-4823	KHA-5141	¼-20	1.18	.53	.39	.15	1.22	.95	1.57
KHA-3893	KHA-4211	KHA-4529	KHA-4847	KHA-5165	¼-20	1.57	.53	.39	.15	1.22	.95	1.57
KHA-3917	KHA-4235	KHA-4553	KHA-4871	KHA-5189	¼-20	1.97	.53	.39	.15	1.22	.95	1.57
KHA-3812	KHA-4130	KHA-4448	KHA-4766	KHA-5084	¼-20	.59	.71	.53	.25	1.69	1.14	2.56
KHA-3827	KHA-4145	KHA-4463	KHA-4781	KHA-5099	¼-20	.79	.71	.53	.25	1.69	1.14	2.56
KHA-3851	KHA-4169	KHA-4487	KHA-4805	KHA-5123	¼-20	.98	.71	.53	.25	1.69	1.14	2.56
KHA-3872	KHA-4190	KHA-4508	KHA-4826	KHA-5144	¼-20	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-3896	KHA-4214	KHA-4532	KHA-4850	KHA-5168	¼-20	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-3920	KHA-4238	KHA-4556	KHA-4874	KHA-5192	¼-20	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-3941	KHA-4259	KHA-4577	KHA-4895	KHA-5213	¼-20	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-3815	KHA-4133	KHA-4451	KHA-4769	KHA-5087	5/16-18	.59	.71	.53	.25	1.69	1.14	2.56
KHA-3830	KHA-4148	KHA-4466	KHA-4784	KHA-5102	5/16-18	.79	.71	.53	.25	1.69	1.14	2.56
KHA-3854	KHA-4172	KHA-4490	KHA-4808	KHA-5126	5/16-18	.98	.71	.53	.25	1.69	1.14	2.56
KHA-3875	KHA-4193	KHA-4511	KHA-4829	KHA-5147	5/16-18	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-3899	KHA-4217	KHA-4535	KHA-4853	KHA-5171	5/16-18	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-3923	KHA-4241	KHA-4559	KHA-4877	KHA-5195	5/16-18	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-3944	KHA-4262	KHA-4580	KHA-4898	KHA-5216	5/16-18	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-3836	KHA-4154	KHA-4472	KHA-4790	KHA-5108	5/16-18	.79	.84	.62	.39	2.16	1.47	3.15
KHA-3860	KHA-4178	KHA-4496	KHA-4814	KHA-5132	5/16-18	.98	.84	.62	.39	2.16	1.47	3.15
KHA-3881	KHA-4199	KHA-4517	KHA-4835	KHA-5153	5/16-18	1.18	.84	.62	.39	2.16	1.47	3.15
KHA-3905	KHA-4223	KHA-4541	KHA-4859	KHA-5177	5/16-18	1.57	.84	.62	.39	2.16	1.47	3.15
KHA-3929	KHA-4247	KHA-4565	KHA-4883	KHA-5201	5/16-18	1.97	.84	.62	.39	2.16	1.47	3.15
KHA-3950	KHA-4268	KHA-4586	KHA-4904	KHA-5222	5/16-18	2.36	.84	.62	.39	2.16	1.47	3.15
KHA-3833	KHA-4151	KHA-4469	KHA-4787	KHA-5105	3/8-16	.79	.71	.53	.25	1.69	1.14	2.56
KHA-3857	KHA-4175	KHA-4493	KHA-4811	KHA-5129	3/8-16	.98	.71	.53	.25	1.69	1.14	2.56
KHA-3878	KHA-4196	KHA-4514	KHA-4832	KHA-5150	3/8-16	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-3902	KHA-4220	KHA-4538	KHA-4856	KHA-5174	3/8-16	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-3926	KHA-4244	KHA-4562	KHA-4880	KHA-5198	3/8-16	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-3947	KHA-4265	KHA-4583	KHA-4901	KHA-5219	3/8-16	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-3839	KHA-4157	KHA-4475	KHA-4793	KHA-5111	3/8-16	.79	.84	.62	.39	2.16	1.47	3.15
KHA-3863	KHA-4181	KHA-4499	KHA-4817	KHA-5135	3/8-16	.98	.84	.62	.39	2.16	1.47	3.15
KHA-3884	KHA-4202	KHA-4520	KHA-4838	KHA-5156	3/8-16	1.18	.84	.62	.39	2.16	1.47	3.15
KHA-3908	KHA-4226	KHA-4544	KHA-4862	KHA-5180	3/8-16	1.57	.84	.62	.39	2.16	1.47	3.15
KHA-3932	KHA-4250	KHA-4568	KHA-4886	KHA-5204	3/8-16	1.97	.84	.62	.39	2.16	1.47	3.15
KHA-3953	KHA-4271	KHA-4589	KHA-4907	KHA-5225	3/8-16	2.36	.84	.62	.39	2.16	1.47	3.15
KHA-3866	KHA-4184	KHA-4502	KHA-4820	KHA-5138	½-13	.98	1	.75	.39	2.52	1.68	3.74
KHA-3887	KHA-4205	KHA-4523	KHA-4841	KHA-5159	½-13	1.18	1	.75	.39	2.52	1.68	3.74
KHA-3911	KHA-4229	KHA-4547	KHA-4865	KHA-5183	½-13	1.57	1	.75	.39	2.52	1.68	3.74
KHA-3935	KHA-4253	KHA-4571	KHA-4889	KHA-5207	½-13	1.97	1	.75	.39	2.52	1.68	3.74
KHA-3956	KHA-4274	KHA-4592	KHA-4910	KHA-5228	½-13	2.36	1	.75	.39	2.52	1.68	3.74
KHA-3890	KHA-4208	KHA-4526	KHA-4844	KHA-5162	5/8-11	1.18	1.18	.91	.49	2.83	1.93	4.33
KHA-3914	KHA-4232	KHA-4550	KHA-4868	KHA-5186	5/8-11	1.57	1.18	.91	.49	2.83	1.93	4.33
KHA-3938	KHA-4256	KHA-4574	KHA-4892	KHA-5210	5/8-11	1.97	1.18	.91	.49	2.83	1.93	4.33
KHA-3959	KHA-4277	KHA-4595	KHA-4913	KHA-5231	5/8-11	2.36	1.18	.91	.49	2.83	1.93	4.33

ADJUSTABLE HANDLES

Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of stainless steel.

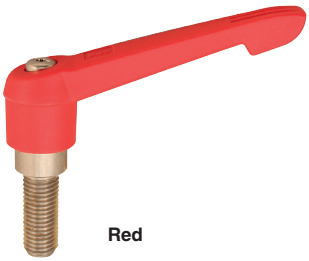
KIPP
Plastic and Powder Coated Zinc- Stainless Steel Components
Adjustable Handle
Stainless Steel Stud
Metric

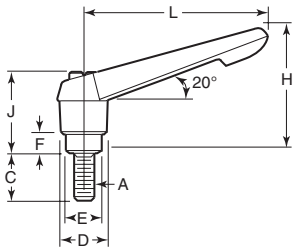

Blue


Orange


Yellow


Green


Red



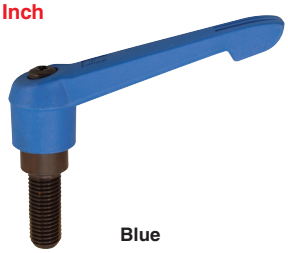
Stud Type

Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-3965	KHA-4283	KHA-4601	KHA-4919	KHA-5237	M5 x 0.8	10	13	10	4	30	24.5	40
KHA-3968	KHA-4286	KHA-4604	KHA-4922	KHA-5240	M5 x 0.8	15	13	10	4	30	24.5	40
KHA-3980	KHA-4298	KHA-4616	KHA-4934	KHA-5252	M5 x 0.8	20	13	10	4	30	24.5	40
KHA-4001	KHA-4319	KHA-4637	KHA-4955	KHA-5273	M5 x 0.8	25	13	10	4	30	24.5	40
KHA-3962	KHA-4280	KHA-4598	KHA-4916	KHA-5234	M6 x 1.0	10	13	10	4	30	24.5	40
KHA-3971	KHA-4289	KHA-4607	KHA-4925	KHA-5243	M6 x 1.0	15	13	10	4	30	24.5	40
KHA-3983	KHA-4301	KHA-4619	KHA-4937	KHA-5255	M6 x 1.0	20	13	10	4	30	24.5	40
KHA-4004	KHA-4322	KHA-4640	KHA-4958	KHA-5276	M6 x 1.0	25	13	10	4	30	24.5	40
KHA-4025	KHA-4343	KHA-4661	KHA-4979	KHA-5297	M6 x 1.0	30	13	10	4	30	24.5	40
KHA-4049	KHA-4367	KHA-4685	KHA-5003	KHA-5321	M6 x 1.0	40	13	10	4	30	24.5	40
KHA-4073	KHA-4391	KHA-4709	KHA-5027	KHA-5345	M6 x 1.0	50	13	10	4	30	24.5	40
KHA-3974	KHA-4292	KHA-4610	KHA-4928	KHA-5246	M6 x 1.0	15	18	13.5	6.5	41.5	28.5	65
KHA-3986	KHA-4304	KHA-4622	KHA-4940	KHA-5258	M6 x 1.0	20	18	13.5	6.5	41.5	28.5	65
KHA-4007	KHA-4325	KHA-4643	KHA-4961	KHA-5279	M6 x 1.0	25	18	13.5	6.5	41.5	28.5	65
KHA-4028	KHA-4346	KHA-4664	KHA-4982	KHA-5300	M6 x 1.0	30	18	13.5	6.5	41.5	28.5	65
KHA-4052	KHA-4370	KHA-4688	KHA-5006	KHA-5324	M6 x 1.0	40	18	13.5	6.5	41.5	28.5	65
KHA-4076	KHA-4394	KHA-4712	KHA-5030	KHA-5348	M6 x 1.0	50	18	13.5	6.5	41.5	28.5	65
KHA-4097	KHA-4415	KHA-4733	KHA-5051	KHA-5369	M6 x 1.0	60	18	13.5	6.5	41.5	28.5	65
KHA-3977	KHA-4295	KHA-4613	KHA-4931	KHA-5249	M8 x 1.25	15	18	13.5	6.5	41.5	28.5	65
KHA-3989	KHA-4307	KHA-4625	KHA-4943	KHA-5261	M8 x 1.25	20	18	13.5	6.5	41.5	28.5	65
KHA-4010	KHA-4328	KHA-4646	KHA-4964	KHA-5282	M8 x 1.25	25	18	13.5	6.5	41.5	28.5	65
KHA-4031	KHA-4349	KHA-4667	KHA-4985	KHA-5303	M8 x 1.25	30	18	13.5	6.5	41.5	28.5	65
KHA-4055	KHA-4373	KHA-4691	KHA-5009	KHA-5327	M8 x 1.25	40	18	13.5	6.5	41.5	28.5	65
KHA-4079	KHA-4397	KHA-4715	KHA-5033	KHA-5351	M8 x 1.25	50	18	13.5	6.5	41.5	28.5	65
KHA-4100	KHA-4418	KHA-4736	KHA-5054	KHA-5372	M8 x 1.25	60	18	13.5	6.5	41.5	28.5	65
KHA-3995	KHA-4313	KHA-4631	KHA-4949	KHA-5267	M8 x 1.25	20	21.5	16	10	53.5	37	80
KHA-4016	KHA-4334	KHA-4652	KHA-4970	KHA-5288	M8 x 1.25	25	21.5	16	10	53.5	37	80
KHA-4037	KHA-4355	KHA-4673	KHA-4991	KHA-5309	M8 x 1.25	30	21.5	16	10	53.5	37	80
KHA-4061	KHA-4379	KHA-4697	KHA-5015	KHA-5333	M8 x 1.25	40	21.5	16	10	53.5	37	80
KHA-4085	KHA-4403	KHA-4721	KHA-5039	KHA-5357	M8 x 1.25	50	21.5	16	10	53.5	37	80
KHA-4106	KHA-4424	KHA-4742	KHA-5060	KHA-5378	M8 x 1.25	60	21.5	16	10	53.5	37	80
KHA-3992	KHA-4310	KHA-4628	KHA-4946	KHA-5264	M10 x 1.5	20	18	13.5	6.5	41.5	28.5	65
KHA-4013	KHA-4331	KHA-4649	KHA-4967	KHA-5285	M10 x 1.5	25	18	13.5	6.5	41.5	28.5	65
KHA-4034	KHA-4352	KHA-4670	KHA-4988	KHA-5306	M10 x 1.5	30	18	13.5	6.5	41.5	28.5	65
KHA-4058	KHA-4376	KHA-4694	KHA-5012	KHA-5330	M10 x 1.5	40	18	13.5	6.5	41.5	28.5	65
KHA-4082	KHA-4400	KHA-4718	KHA-5036	KHA-5354	M10 x 1.5	50	18	13.5	6.5	41.5	28.5	65
KHA-4103	KHA-4421	KHA-4739	KHA-5057	KHA-5375	M10 x 1.5	60	18	13.5	6.5	41.5	28.5	65
KHA-3998	KHA-4316	KHA-4634	KHA-4952	KHA-5270	M10 x 1.5	20	21.5	16	10	53.5	37	80
KHA-4019	KHA-4337	KHA-4655	KHA-4973	KHA-5291	M10 x 1.5	25	21.5	16	10	53.5	37	80
KHA-4040	KHA-4358	KHA-4676	KHA-4994	KHA-5312	M10 x 1.5	30	21.5	16	10	53.5	37	80
KHA-4064	KHA-4382	KHA-4700	KHA-5018	KHA-5336	M10 x 1.5	40	21.5	16	10	53.5	37	80
KHA-4088	KHA-4406	KHA-4724	KHA-5042	KHA-5360	M10 x 1.5	50	21.5	16	10	53.5	37	80
KHA-4109	KHA-4427	KHA-4745	KHA-5063	KHA-5381	M10 x 1.5	60	21.5	16	10	53.5	37	80
KHA-4022	KHA-4340	KHA-4658	KHA-4976	KHA-5294	M12 x 1.75	25	25.5	19	10	61	43	95
KHA-4043	KHA-4361	KHA-4679	KHA-4997	KHA-5315	M12 x 1.75	30	25.5	19	10	61	43	95
KHA-4067	KHA-4385	KHA-4703	KHA-5021	KHA-5339	M12 x 1.75	40	25.5	19	10	61	43	95
KHA-4091	KHA-4409	KHA-4727	KHA-5045	KHA-5363	M12 x 1.75	50	25.5	19	10	61	43	95
KHA-4112	KHA-4430	KHA-4748	KHA-5066	KHA-5384	M12 x 1.75	60	25.5	19	10	61	43	95
KHA-4046	KHA-4364	KHA-4682	KHA-5000	KHA-5318	M16 x 2.00	30	30	23	12	72	49	110
KHA-4070	KHA-4388	KHA-4706	KHA-5024	KHA-5342	M16 x 2.00	40	30	23	12	72	49	110
KHA-4094	KHA-4412	KHA-4730	KHA-5048	KHA-5366	M16 x 2.00	50	30	23	12	72	49	110
KHA-4115	KHA-4433	KHA-4751	KHA-5069	KHA-5387	M16 x 2.00	60	30	23	12	72	49	110

ADJUSTABLE HANDLES

Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

KIPP
Plastic and Powder Coated Zinc- Steel Components
Adjustable Handle
Steel Stud
Inch

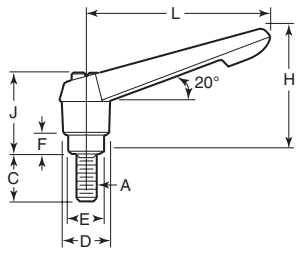

Blue


Orange


Yellow


Green


Red



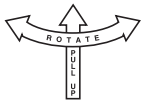
Stud Type

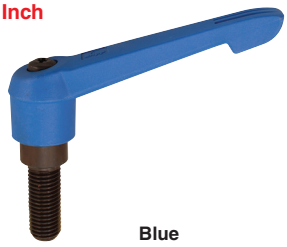
Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-5400	KHA-6111	KHA-6822	KHA-7533	KHA-8244	#10	.39	.53	.39	.15	1.22	.95	1.57
KHA-5403	KHA-6114	KHA-6825	KHA-7536	KHA-8247	#10	.39	.53	.39	.15	1.22	.95	1.57
KHA-5409	KHA-6120	KHA-6831	KHA-7542	KHA-8253	#10	.59	.53	.39	.15	1.22	.95	1.57
KHA-5412	KHA-6123	KHA-6834	KHA-7545	KHA-8256	#10	.59	.53	.39	.15	1.22	.95	1.57
KHA-5433	KHA-6144	KHA-6855	KHA-7566	KHA-8277	#10	.79	.53	.39	.15	1.22	.95	1.57
KHA-5436	KHA-6147	KHA-6858	KHA-7569	KHA-8280	#10	.79	.53	.39	.15	1.22	.95	1.57
KHA-5463	KHA-6174	KHA-6885	KHA-7596	KHA-8307	#10	.98	.53	.39	.15	1.22	.95	1.57
KHA-5466	KHA-6177	KHA-6888	KHA-7599	KHA-8310	#10	.98	.53	.39	.15	1.22	.95	1.57
KHA-5499	KHA-6210	KHA-6921	KHA-7632	KHA-8343	#10	1.18	.53	.39	.15	1.22	.95	1.57
KHA-5502	KHA-6213	KHA-6924	KHA-7635	KHA-8346	#10	1.18	.53	.39	.15	1.22	.95	1.57
KHA-5535	KHA-6246	KHA-6957	KHA-7668	KHA-8379	#10	1.38	.53	.39	.15	1.22	.95	1.57
KHA-5538	KHA-6249	KHA-6960	KHA-7671	KHA-8382	#10	1.38	.53	.39	.15	1.22	.95	1.57
KHA-5571	KHA-6282	KHA-6993	KHA-7704	KHA-8415	#10	1.57	.53	.39	.15	1.22	.95	1.57
KHA-5574	KHA-6285	KHA-6996	KHA-7707	KHA-8418	#10	1.57	.53	.39	.15	1.22	.95	1.57
KHA-5607	KHA-6318	KHA-7029	KHA-7740	KHA-8451	#10	1.77	.53	.39	.15	1.22	.95	1.57
KHA-5610	KHA-6321	KHA-7032	KHA-7743	KHA-8454	#10	1.77	.53	.39	.15	1.22	.95	1.57
KHA-5643	KHA-6354	KHA-7065	KHA-7776	KHA-8487	#10	1.97	.53	.39	.15	1.22	.95	1.57
KHA-5646	KHA-6357	KHA-7068	KHA-7779	KHA-8490	#10	1.97	.53	.39	.15	1.22	.95	1.57
KHA-5406	KHA-6117	KHA-6828	KHA-7539	KHA-8250	¼-20	.39	.53	.39	.15	1.22	.95	1.57
KHA-5415	KHA-6126	KHA-6837	KHA-7548	KHA-8259	¼-20	.59	.53	.39	.15	1.22	.95	1.57
KHA-5439	KHA-6150	KHA-6861	KHA-7572	KHA-8283	¼-20	.79	.53	.39	.15	1.22	.95	1.57
KHA-5469	KHA-6180	KHA-6891	KHA-7602	KHA-8313	¼-20	.98	.53	.39	.15	1.22	.95	1.57
KHA-5505	KHA-6216	KHA-6927	KHA-7638	KHA-8349	¼-20	1.18	.53	.39	.15	1.22	.95	1.57
KHA-5541	KHA-6252	KHA-6963	KHA-7674	KHA-8385	¼-20	1.38	.53	.39	.15	1.22	.95	1.57
KHA-5577	KHA-6288	KHA-6999	KHA-7710	KHA-8421	¼-20	1.57	.53	.39	.15	1.22	.95	1.57
KHA-5613	KHA-6324	KHA-7035	KHA-7746	KHA-8457	¼-20	1.77	.53	.39	.15	1.22	.95	1.57
KHA-5649	KHA-6360	KHA-7071	KHA-7782	KHA-8493	¼-20	1.97	.53	.39	.15	1.22	.95	1.57
KHA-5418	KHA-6129	KHA-6840	KHA-7551	KHA-8262	¼-20	.59	.71	.53	.25	1.69	1.14	2.56
KHA-5442	KHA-6153	KHA-6864	KHA-7575	KHA-8286	¼-20	.79	.71	.53	.25	1.69	1.14	2.56
KHA-5472	KHA-6183	KHA-6894	KHA-7605	KHA-8316	¼-20	.98	.71	.53	.25	1.69	1.14	2.56
KHA-5508	KHA-6219	KHA-6930	KHA-7641	KHA-8352	¼-20	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-5544	KHA-6255	KHA-6966	KHA-7677	KHA-8388	¼-20	1.38	.71	.53	.25	1.69	1.14	2.56
KHA-5580	KHA-6291	KHA-7002	KHA-7713	KHA-8424	¼-20	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-5616	KHA-6327	KHA-7038	KHA-7749	KHA-8460	¼-20	1.77	.71	.53	.25	1.69	1.14	2.56
KHA-5652	KHA-6363	KHA-7074	KHA-7785	KHA-8496	¼-20	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-5679	KHA-6390	KHA-7101	KHA-7812	KHA-8523	¼-20	2.17	.71	.53	.25	1.69	1.14	2.56
KHA-5706	KHA-6417	KHA-7128	KHA-7839	KHA-8550	¼-20	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-5421	KHA-6132	KHA-6843	KHA-7554	KHA-8265	5⁄16-18	.59	.71	.53	.25	1.69	1.14	2.56
KHA-5445	KHA-6156	KHA-6867	KHA-7578	KHA-8289	5⁄16-18	.79	.71	.53	.25	1.69	1.14	2.56
KHA-5475	KHA-6186	KHA-6897	KHA-7608	KHA-8319	5⁄16-18	.98	.71	.53	.25	1.69	1.14	2.56
KHA-5511	KHA-6222	KHA-6933	KHA-7644	KHA-8355	5⁄16-18	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-5547	KHA-6258	KHA-6969	KHA-7680	KHA-8391	5⁄16-18	1.38	.71	.53	.25	1.69	1.14	2.56
KHA-5583	KHA-6294	KHA-7005	KHA-7716	KHA-8427	5⁄16-18	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-5619	KHA-6330	KHA-7041	KHA-7752	KHA-8463	5⁄16-18	1.77	.71	.53	.25	1.69	1.14	2.56
KHA-5655	KHA-6366	KHA-7077	KHA-7788	KHA-8499	5⁄16-18	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-5682	KHA-6393	KHA-7104	KHA-7815	KHA-8526	5⁄16-18	2.17	.71	.53	.25	1.69	1.14	2.56
KHA-5709	KHA-6420	KHA-7131	KHA-7842	KHA-8553	5⁄16-18	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-5427	KHA-6138	KHA-6849	KHA-7560	KHA-8271	5⁄16-18	.59	.84	.62	.39	2.16	1.47	3.15
KHA-5451	KHA-6162	KHA-6873	KHA-7584	KHA-8295	5⁄16-18	.79	.84	.62	.39	2.16	1.47	3.15
KHA-5481	KHA-6192	KHA-6903	KHA-7614	KHA-8325	5⁄16-18	.98	.84	.62	.39	2.16	1.47	3.15
KHA-5517	KHA-6228	KHA-6939	KHA-7650	KHA-8361	5⁄16-18	1.18	.84	.62	.39	2.16	1.47	3.15
KHA-5553	KHA-6264	KHA-6975	KHA-7686	KHA-8397	5⁄16-18	1.38	.84	.62	.39	2.16	1.47	3.15
KHA-5589	—	KHA-7011	KHA-7722	KHA-8433	5⁄16-18	1.57	.84	.62	.39	2.16	1.47	3.15
KHA-5625	KHA-6336	KHA-7047	KHA-7758	KHA-8469	5⁄16-18	1.77	.84	.62	.39	2.16	1.47	3.15
KHA-5661	KHA-6372	KHA-7083	KHA-7794	KHA-8505	5⁄16-18	1.97	.84	.62	.39	2.16	1.47	3.15
KHA-5688	KHA-6399	KHA-7110	KHA-7821	KHA-8532	5⁄16-18	2.17	.84	.62	.39	2.16	1.47	3.15
KHA-5715	KHA-6426	KHA-7137	KHA-7848	KHA-8559	5⁄16-18	2.36	.84	.62	.39	2.16	1.47	3.15
KHA-5424	KHA-6135	KHA-6846	KHA-7557	KHA-8268	⅜-16	.59	.71	.53	.25	1.69	1.14	2.56
KHA-5448	KHA-6159	KHA-6870	KHA-7581	KHA-8292	⅜-16	.79	.71	.53	.25	1.69	1.14	2.56
KHA-5478	KHA-6189	KHA-6900	KHA-7611	KHA-8322	⅜-16	.98	.71	.53	.25	1.69	1.14	2.56
KHA-5514	KHA-6225	KHA-6936	KHA-7647	KHA-8358	⅜-16	1.18	.71	.53	.25	1.69	1.14	2.56
KHA-5550	KHA-6261	KHA-6972	KHA-7683	KHA-8394	⅜-16	1.38	.71	.53	.25	1.69	1.14	2.56

ADJUSTABLE HANDLES

Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

KIPP
Plastic and Powder Coated Zinc- Steel Components
Adjustable Handle
Steel Stud
Inch



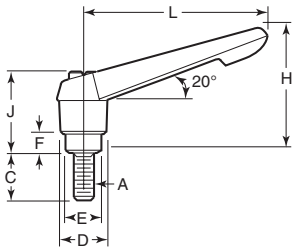

Blue


Orange


Yellow


Green


Red



Stud Type

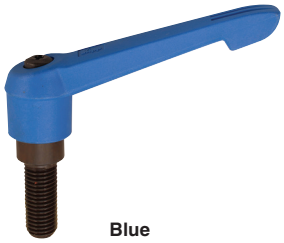
Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-5586	KHA-6297	KHA-7008	KHA-7719	KHA-8430	3/8-16	1.57	.71	.53	.25	1.69	1.14	2.56
KHA-5622	KHA-6333	KHA-7044	KHA-7755	KHA-8466	3/8-16	1.77	.71	.53	.25	1.69	1.14	2.56
KHA-5658	KHA-6369	KHA-7080	KHA-7791	KHA-8502	3/8-16	1.97	.71	.53	.25	1.69	1.14	2.56
KHA-5685	KHA-6396	KHA-7107	KHA-7818	KHA-8529	3/8-16	2.17	.71	.53	.25	1.69	1.14	2.56
KHA-5712	KHA-6423	KHA-7134	KHA-7845	KHA-8556	3/8-16	2.36	.71	.53	.25	1.69	1.14	2.56
KHA-5430	KHA-6141	KHA-6852	KHA-7563	KHA-8274	3/8-16	.59	.84	.62	.39	2.16	1.47	3.15
KHA-5454	KHA-6165	KHA-6876	KHA-7587	KHA-8298	3/8-16	.79	.84	.62	.39	2.16	1.47	3.15
KHA-5484	KHA-6195	KHA-6906	KHA-7617	KHA-8328	3/8-16	.98	.84	.62	.39	2.16	1.47	3.15
KHA-5520	KHA-6231	KHA-6942	KHA-7653	KHA-8364	3/8-16	1.18	.84	.62	.39	2.16	1.47	3.15
KHA-5556	KHA-6267	KHA-6978	KHA-7689	KHA-8400	3/8-16	1.38	.84	.62	.39	2.16	1.47	3.15
KHA-5592	KHA-6303	KHA-7014	KHA-7725	KHA-8436	3/8-16	1.57	.84	.62	.39	2.16	1.47	3.15
KHA-5628	KHA-6339	KHA-7050	KHA-7761	KHA-8472	3/8-16	1.77	.84	.62	.39	2.16	1.47	3.15
KHA-5664	KHA-6375	KHA-7086	KHA-7797	KHA-8508	3/8-16	1.97	.84	.62	.39	2.16	1.47	3.15
KHA-5691	KHA-6402	KHA-7113	KHA-7824	KHA-8535	3/8-16	2.17	.84	.62	.39	2.16	1.47	3.15
KHA-5718	KHA-6429	KHA-7140	KHA-7851	KHA-8562	3/8-16	2.36	.84	.62	.39	2.16	1.47	3.15
KHA-5457	KHA-6168	KHA-6879	KHA-7590	KHA-8301	3/8-16	.79	1	.75	.39	2.52	1.68	3.74
KHA-5487	KHA-6198	KHA-6909	KHA-7620	KHA-8331	3/8-16	.98	1	.75	.39	2.52	1.68	3.74
KHA-5523	KHA-6234	KHA-6945	KHA-7656	KHA-8367	3/8-16	1.18	1	.75	.39	2.52	1.68	3.74
KHA-5559	KHA-6270	KHA-6981	KHA-7692	KHA-8403	3/8-16	1.38	1	.75	.39	2.52	1.68	3.74
KHA-5595	KHA-6306	KHA-7017	KHA-7728	KHA-8439	3/8-16	1.57	1	.75	.39	2.52	1.68	3.74
KHA-5631	KHA-6342	KHA-7053	KHA-7764	KHA-8475	3/8-16	1.77	1	.75	.39	2.52	1.68	3.74
KHA-5667	KHA-6378	KHA-7089	KHA-7800	KHA-8511	3/8-16	1.97	1	.75	.39	2.52	1.68	3.74
KHA-5694	KHA-6405	KHA-7116	KHA-7827	KHA-8538	3/8-16	2.17	1	.75	.39	2.52	1.68	3.74
KHA-5721	KHA-6432	KHA-7143	KHA-7854	KHA-8565	3/8-16	2.36	1	.75	.39	2.52	1.68	3.74
KHA-5733	KHA-6444	KHA-7155	KHA-7866	KHA-8577	5/8-16	2.76	1	.75	.39	2.52	1.68	3.74
KHA-5745	KHA-6456	KHA-7167	KHA-7878	KHA-8589	5/8-16	3.15	1	.75	.39	2.52	1.68	3.74
KHA-5757	KHA-6468	KHA-7179	KHA-7890	KHA-8601	5/8-16	3.54	1	.75	.39	2.52	1.68	3.74
KHA-5460	KHA-6171	KHA-6882	KHA-7593	KHA-8304	1/2-13	.79	1	.75	.39	2.52	1.68	3.74
KHA-5490	KHA-6201	KHA-6912	KHA-7623	KHA-8334	1/2-13	.98	1	.75	.39	2.52	1.68	3.74
KHA-5526	KHA-6237	KHA-6948	KHA-7659	KHA-8370	1/2-13	1.18	1	.75	.39	2.52	1.68	3.74
KHA-5562	KHA-6273	KHA-6984	KHA-7695	KHA-8406	1/2-13	1.38	1	.75	.39	2.52	1.68	3.74
KHA-5598	KHA-6309	KHA-7020	KHA-7731	KHA-8442	1/2-13	1.57	1	.75	.39	2.52	1.68	3.74
KHA-5634	KHA-6345	KHA-7056	KHA-7767	KHA-8478	1/2-13	1.77	1	.75	.39	2.52	1.68	3.74
KHA-5670	KHA-6381	KHA-7092	KHA-7803	KHA-8514	1/2-13	1.97	1	.75	.39	2.52	1.68	3.74
KHA-5697	KHA-6408	KHA-7119	KHA-7830	KHA-8541	1/2-13	2.17	1	.75	.39	2.52	1.68	3.74
KHA-5724	KHA-6435	KHA-7146	KHA-7857	KHA-8568	1/2-13	2.36	1	.75	.39	2.52	1.68	3.74
KHA-5736	KHA-6447	KHA-7158	KHA-7869	KHA-8580	1/2-13	2.76	1	.75	.39	2.52	1.68	3.74
KHA-5748	KHA-6459	KHA-7170	KHA-7881	KHA-8592	1/2-13	3.15	1	.75	.39	2.52	1.68	3.74
KHA-5760	KHA-6471	KHA-7182	KHA-7893	KHA-8604	1/2-13	3.54	1	.75	.39	2.52	1.68	3.74
KHA-5493	KHA-6204	KHA-6915	KHA-7626	KHA-8337	1/2-13	.98	1.18	.91	.49	2.83	1.93	4.33
KHA-5529	KHA-6240	KHA-6951	KHA-7662	KHA-8373	1/2-13	1.18	1.18	.91	.49	2.83	1.93	4.33
KHA-5565	KHA-6276	KHA-6987	KHA-7698	KHA-8409	1/2-13	1.38	1.18	.91	.49	2.83	1.93	4.33
KHA-5601	KHA-6312	KHA-7023	KHA-7734	KHA-8445	1/2-13	1.57	1.18	.91	.49	2.83	1.93	4.33
KHA-5637	KHA-6348	KHA-7059	KHA-7770	KHA-8481	1/2-13	1.77	1.18	.91	.49	2.83	1.93	4.33
KHA-5673	KHA-6384	KHA-7095	KHA-7806	KHA-8517	1/2-13	1.97	1.18	.91	.49	2.83	1.93	4.33
KHA-5700	KHA-6411	KHA-7122	KHA-7833	KHA-8544	1/2-13	2.17	1.18	.91	.49	2.83	1.93	4.33
KHA-5727	KHA-6438	KHA-7149	KHA-7860	KHA-8571	1/2-13	2.36	1.18	.91	.49	2.83	1.93	4.33
KHA-5739	KHA-6450	KHA-7161	KHA-7872	KHA-8583	1/2-13	2.76	1.18	.91	.49	2.83	1.93	4.33
KHA-5751	KHA-6462	KHA-7173	KHA-7884	KHA-8595	1/2-13	3.15	1.18	.91	.49	2.83	1.93	4.33
KHA-5766	KHA-6474	KHA-7185	KHA-7896	KHA-8607	1/2-13	3.54	1.18	.91	.49	2.83	1.93	4.33
KHA-5496	KHA-6207	KHA-6918	KHA-7629	KHA-8340	5/8-11	.98	1.18	.91	.49	2.83	1.93	4.33
KHA-5532	KHA-6243	KHA-6954	KHA-7665	KHA-8376	5/8-11	1.18	1.18	.91	.49	2.83	1.93	4.33
KHA-5568	KHA-6279	KHA-6990	KHA-7701	KHA-8412	5/8-11	1.38	1.18	.91	.49	2.83	1.93	4.33
KHA-5604	KHA-6315	KHA-7026	KHA-7737	KHA-8448	5/8-11	1.57	1.18	.91	.49	2.83	1.93	4.33
KHA-5640	KHA-6351	KHA-7062	KHA-7773	KHA-8484	5/8-11	1.77	1.18	.91	.49	2.83	1.93	4.33
KHA-5676	KHA-6387	KHA-7098	KHA-7809	KHA-8520	5/8-11	1.97	1.18	.91	.49	2.83	1.93	4.33
KHA-5703	KHA-6414	KHA-7125	KHA-7836	KHA-8547	5/8-11	2.17	1.18	.91	.49	2.83	1.93	4.33
KHA-5730	KHA-6441	KHA-7152	KHA-7863	KHA-8574	5/8-11	2.36	1.18	.91	.49	2.83	1.93	4.33
KHA-5742	KHA-6453	KHA-7164	KHA-7875	KHA-8586	5/8-11	2.76	1.18	.91	.49	2.83	1.93	4.33
KHA-5754	KHA-6465	KHA-7176	KHA-7887	KHA-8598	5/8-11	3.15	1.18	.91	.49	2.83	1.93	4.33
KHA-5763	KHA-6477	KHA-7188	KHA-7899	KHA-8610	5/8-11	3.54	1.18	.91	.49	2.83	1.93	4.33

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ADJUSTABLE HANDLES

Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

KIPP
Plastic and Powder Coated Zinc- Steel Components
Adjustable Handle
Steel Stud
Metric

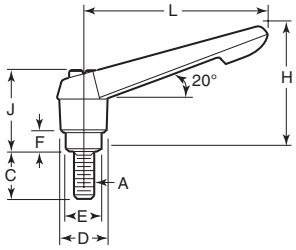

Blue


Orange


Yellow


Green


Red



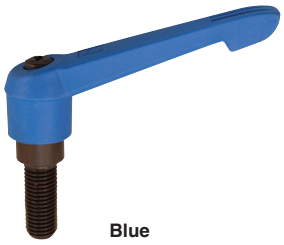
Stud Type

Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-5769	KHA-6480	KHA-7191	KHA-7902	—	M5 x 0.8	10	13	10	4	30	24.5	40
KHA-5775	KHA-6486	KHA-7197	KHA-7908	KHA-8619	M5 x 0.8	15	13	10	4	30	24.5	40
KHA-5796	KHA-6507	KHA-7218	KHA-7929	KHA-8640	M5 x 0.8	20	13	10	4	30	24.5	40
KHA-5823	KHA-6534	KHA-7245	KHA-7956	—	M5 x 0.8	15	13	10	4	30	24.5	40
KHA-5856	KHA-6567	KHA-7278	KHA-7989	KHA-8700	M5 x 0.8	30	13	10	4	30	24.5	40
KHA-5889	KHA-6600	KHA-7311	KHA-8022	KHA-8733	M5 x 0.8	35	13	10	4	30	24.5	40
KHA-5922	KHA-6633	KHA-7344	KHA-8055	KHA-8766	M5 x 0.8	40	13	10	4	30	24.5	40
KHA-5955	KHA-6666	KHA-7377	KHA-8088	KHA-8799	M5 x 0.8	45	13	10	4	30	24.5	40
KHA-5988	KHA-6699	KHA-7410	KHA-8121	KHA-8832	M5 x 0.8	50	13	10	4	30	24.5	40
KHA-5772	KHA-6483	KHA-7194	KHA-7905	KHA-8616	M6 x 1.0	10	13	10	4	30	24.5	40
KHA-5778	KHA-6489	KHA-7200	KHA-7911	KHA-8622	M6 x 1.0	15	13	10	4	30	24.5	40
KHA-5799	KHA-6510	KHA-7221	KHA-7932	KHA-8643	M6 x 1.0	20	13	10	4	30	24.5	40
KHA-5826	KHA-6537	KHA-7248	KHA-7959	KHA-8670	M6 x 1.0	25	13	10	4	30	24.5	40
KHA-5859	KHA-6570	KHA-7281	KHA-7992	KHA-8703	M6 x 1.0	30	13	10	4	30	24.5	40
KHA-5892	KHA-6603	KHA-7314	KHA-8025	KHA-8736	M6 x 1.0	35	13	10	4	30	24.5	40
KHA-5925	KHA-6636	KHA-7347	KHA-8058	KHA-8769	M6 x 1.0	40	13	10	4	30	24.5	40
KHA-5958	KHA-6669	KHA-7380	KHA-8091	KHA-8802	M6 x 1.0	45	13	10	4	30	24.5	40
KHA-5991	KHA-6702	KHA-7413	KHA-8124	KHA-8835	M6 x 1.0	50	13	10	4	30	24.5	40
KHA-5781	KHA-6492	KHA-7203	KHA-7914	KHA-8625	M6 x 1.0	15	18	13.5	6.5	41.5	28.5	65
KHA-5802	KHA-6513	KHA-7224	KHA-7935	KHA-8646	M6 x 1.0	20	18	13.5	6.5	41.5	28.5	65
KHA-5829	KHA-6540	KHA-7251	KHA-7962	KHA-8673	M6 x 1.0	25	18	13.5	6.5	41.5	28.5	65
KHA-5862	KHA-6573	KHA-7284	KHA-7995	KHA-8706	M6 x 1.0	30	18	13.5	6.5	41.5	28.5	65
KHA-5895	KHA-6606	KHA-7317	KHA-8028	KHA-8739	M6 x 1.0	35	18	13.5	6.5	41.5	28.5	65
KHA-5928	KHA-6639	KHA-7350	KHA-8061	KHA-8772	M6 x 1.0	40	18	13.5	6.5	41.5	28.5	65
KHA-5961	KHA-6672	KHA-7383	KHA-8094	KHA-8805	M6 x 1.0	45	18	13.5	6.5	41.5	28.5	65
KHA-5994	KHA-6705	KHA-7416	KHA-8127	KHA-8838	M6 x 1.0	50	18	13.5	6.5	41.5	28.5	65
KHA-6021	KHA-6732	KHA-7443	KHA-8154	KHA-8865	M6 x 1.0	55	18	13.5	6.5	41.5	28.5	65
KHA-6048	KHA-6759	KHA-7470	KHA-8181	KHA-8892	M6 x 1.0	60	18	13.5	6.5	41.5	28.5	65
KHA-5784	KHA-6495	KHA-7206	KHA-7917	KHA-8628	M8 x 1.25	15	18	13.5	6.5	41.5	28.5	65
KHA-5805	KHA-6516	KHA-7227	KHA-7938	KHA-8649	M8 x 1.25	20	18	13.5	6.5	41.5	28.5	65
KHA-5832	KHA-6543	KHA-7254	KHA-7965	KHA-8676	M8 x 1.25	25	18	13.5	6.5	41.5	28.5	65
KHA-5865	KHA-6576	KHA-7287	KHA-7998	KHA-8709	M8 x 1.25	30	18	13.5	6.5	41.5	28.5	65
KHA-5898	KHA-6609	KHA-7320	KHA-8031	KHA-8742	M8 x 1.25	35	18	13.5	6.5	41.5	28.5	65
KHA-5931	KHA-6642	KHA-7353	KHA-8064	KHA-8775	M8 x 1.25	40	18	13.5	6.5	41.5	28.5	65
KHA-5964	KHA-6675	KHA-7386	KHA-8097	KHA-8808	M8 x 1.25	45	18	13.5	6.5	41.5	28.5	65
KHA-5997	KHA-6708	KHA-7419	KHA-8130	KHA-8841	M8 x 1.25	50	18	13.5	6.5	41.5	28.5	65
KHA-6024	KHA-6735	KHA-7446	KHA-8157	KHA-8868	M8 x 1.25	55	18	13.5	6.5	41.5	28.5	65
KHA-6051	KHA-6762	KHA-7473	KHA-8184	KHA-8895	M8 x 1.25	60	18	13.5	6.5	41.5	28.5	65
KHA-5790	KHA-6501	KHA-7212	KHA-7923	KHA-8634	M8 x 1.25	15	21.5	16	10	53.5	37	80
KHA-5811	KHA-6522	KHA-7233	KHA-7944	KHA-8655	M8 x 1.25	20	21.5	16	10	53.5	37	80
KHA-5838	KHA-6549	KHA-7260	KHA-7971	KHA-8682	M8 x 1.25	25	21.5	16	10	53.5	37	80
KHA-5871	KHA-6582	KHA-7293	KHA-8004	KHA-8715	M8 x 1.25	30	21.5	16	10	53.5	37	80
KHA-5904	KHA-6615	KHA-7326	KHA-8037	KHA-8748	M8 x 1.25	35	21.5	16	10	53.5	37	80
KHA-5937	KHA-6648	KHA-7359	KHA-8070	KHA-8781	M8 x 1.25	40	21.5	16	10	53.5	37	80
KHA-5970	KHA-6681	KHA-7392	KHA-8103	KHA-8814	M8 x 1.25	45	21.5	16	10	53.5	37	80
KHA-6003	KHA-6714	KHA-7425	KHA-8136	KHA-8847	M8 x 1.25	50	21.5	16	10	53.5	37	80
KHA-6030	KHA-6741	KHA-7452	KHA-8163	KHA-8874	M8 x 1.25	55	21.5	16	10	53.5	37	80
KHA-6057	KHA-6768	KHA-7479	KHA-8190	KHA-8901	M8 x 1.25	60	21.5	16	10	53.5	37	80
KHA-5787	KHA-6498	KHA-7209	KHA-7920	KHA-8631	M10 x 1.5	15	18	13.5	6.5	41.5	28.5	65
KHA-5808	KHA-6519	KHA-7230	KHA-7941	KHA-8652	M10 x 1.5	20	18	13.5	6.5	41.5	28.5	65
KHA-5835	KHA-6546	KHA-7257	KHA-7968	KHA-8679	M10 x 1.5	25	18	13.5	6.5	41.5	28.5	65
KHA-5868	KHA-6579	KHA-7290	KHA-8001	KHA-8712	M10 x 1.5	30	18	13.5	6.5	41.5	28.5	65
KHA-5901	KHA-6612	KHA-7323	KHA-8034	KHA-8745	M10 x 1.5	35	18	13.5	6.5	41.5	28.5	65
KHA-5934	KHA-6645	KHA-7356	KHA-8067	KHA-8778	M10 x 1.5	40	18	13.5	6.5	41.5	28.5	65
KHA-5967	KHA-6678	KHA-7389	KHA-8100	KHA-8811	M10 x 1.5	45	18	13.5	6.5	41.5	28.5	65
KHA-6000	KHA-6711	KHA-7422	KHA-8133	KHA-8844	M10 x 1.5	50	18	13.5	6.5	41.5	28.5	65
KHA-6027	KHA-6738	KHA-7449	KHA-8160	KHA-8871	M10 x 1.5	55	18	13.5	6.5	41.5	28.5	65

ADJUSTABLE HANDLES

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KIPP
Plastic and Powder Coated Zinc- Steel Components
Adjustable Handle
Steel Stud
Metric

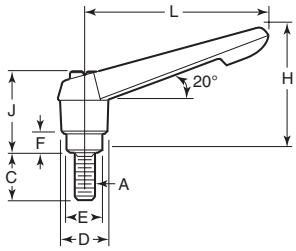

Blue


Orange


Yellow


Green


Red

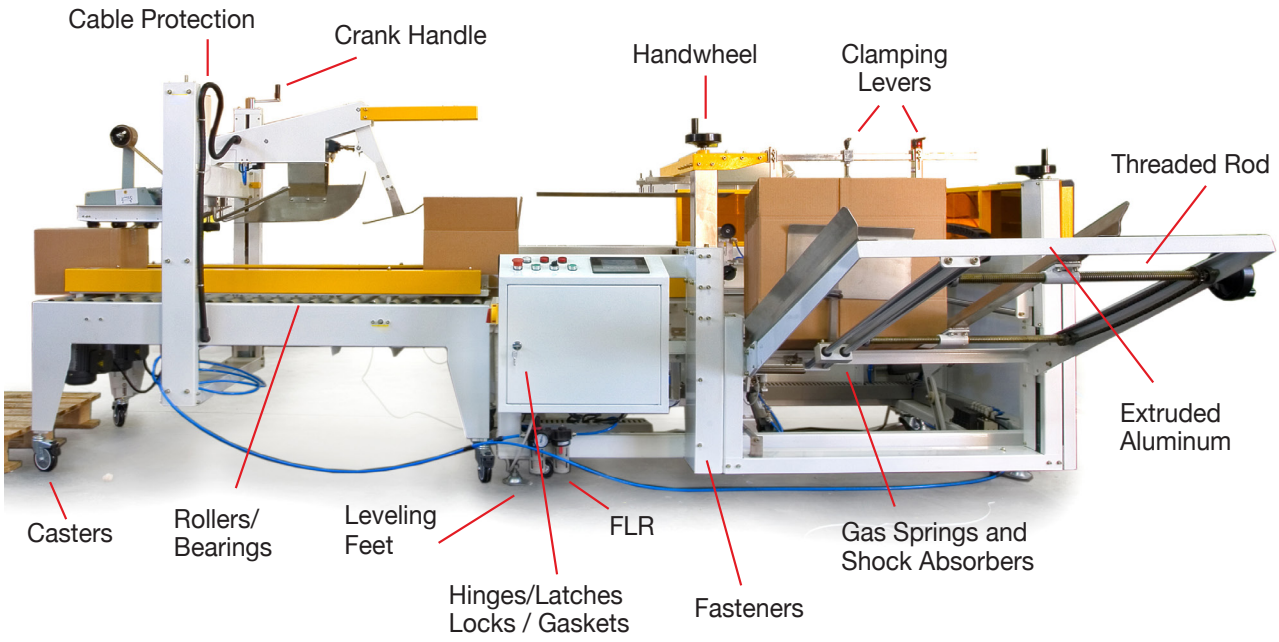


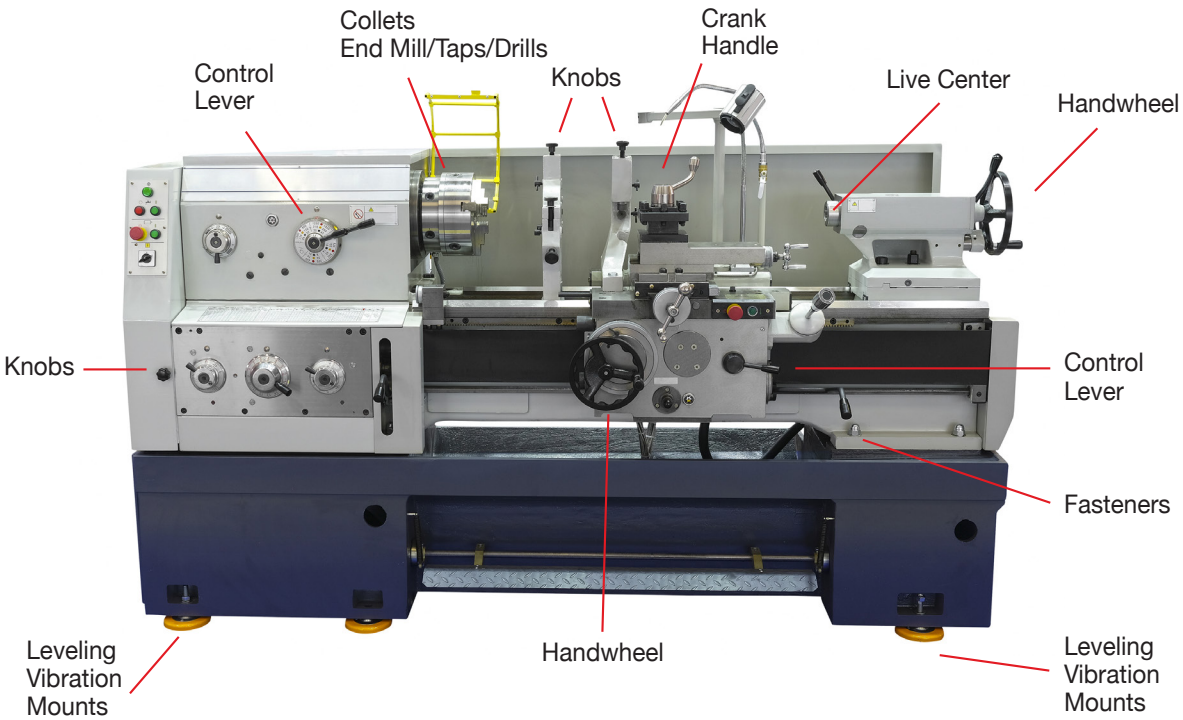
Stud Type

Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	Yellow Item No.	A	C	D	E	F	H	J	L
KHA-6054	KHA-6765	KHA-7476	KHA-8187	KHA-8898	M10 x 1.5	60	18	13.5	6.5	41.5	28.5	65
KHA-5793	KHA-6504	KHA-7215	KHA-7926	KHA-8637	M10 x 1.5	15	21.5	16	10	53.5	37	80
KHA-5814	KHA-6525	KHA-7236	KHA-7947	KHA-8658	M10 x 1.5	20	21.5	16	10	53.5	37	80
KHA-5841	KHA-6552	KHA-7263	KHA-7974	KHA-8685	M10 x 1.5	25	21.5	16	10	53.5	37	80
KHA-5874	KHA-6585	KHA-7296	KHA-8007	KHA-8718	M10 x 1.5	30	21.5	16	10	53.5	37	80
KHA-5907	KHA-6618	KHA-7329	KHA-8040	KHA-8751	M10 x 1.5	35	21.5	16	10	53.5	37	80
KHA-5940	KHA-6651	KHA-7362	KHA-8073	KHA-8784	M10 x 1.5	40	21.5	16	10	53.5	37	80
KHA-5973	KHA-6684	KHA-7395	KHA-8106	KHA-8817	M10 x 1.5	45	21.5	16	10	53.5	37	80
KHA-6006	KHA-6717	KHA-7428	KHA-8139	KHA-8850	M10 x 1.5	50	21.5	16	10	53.5	37	80
KHA-6033	KHA-6744	KHA-7455	KHA-8166	KHA-8877	M10 x 1.5	55	21.5	16	10	53.5	37	80
KHA-6060	KHA-6771	KHA-7482	KHA-8193	KHA-8904	M10 x 1.5	60	21.5	16	10	53.5	37	80
KHA-5817	KHA-6528	KHA-7239	KHA-7950	KHA-8661	M10 x 1.5	20	25.5	19	10	61	43	95
KHA-5844	KHA-6555	KHA-7266	KHA-7977	KHA-8688	M10 x 1.5	25	25.5	19	10	61	43	95
KHA-5877	KHA-6588	KHA-7299	KHA-8010	KHA-8721	M10 x 1.5	30	25.5	19	10	61	43	95
KHA-5910	KHA-6621	KHA-7332	KHA-8043	KHA-8754	M10 x 1.5	35	25.5	19	10	61	43	95
KHA-5943	KHA-6654	KHA-7365	KHA-8076	KHA-8787	M10 x 1.5	40	25.5	19	10	61	43	95
KHA-5976	KHA-6687	KHA-7398	KHA-8109	KHA-8820	M10 x 1.5	45	25.5	19	10	61	43	95
KHA-6009	KHA-6720	KHA-7431	KHA-8142	KHA-8853	M10 x 1.5	50	25.5	19	10	61	43	95
KHA-6036	KHA-6747	KHA-7458	KHA-8169	KHA-8880	M10 x 1.5	55	25.5	19	10	61	43	95
KHA-6063	KHA-6774	KHA-7485	KHA-8196	KHA-8907	M10 x 1.5	60	25.5	19	10	61	43	95
KHA-6075	KHA-6786	KHA-7497	KHA-8208	KHA-8919	M10 x 1.5	70	25.5	19	10	61	43	95
KHA-6087	KHA-6798	KHA-7509	KHA-8220	KHA-8931	M10 x 1.5	80	25.5	19	10	61	43	95
KHA-6099	KHA-6810	KHA-7521	KHA-8232	KHA-8943	M10 x 1.5	90	25.5	19	10	61	43	95
KHA-5820	KHA-6531	KHA-7242	KHA-7953	KHA-8664	M12 x 1.75	20	25.5	19	10	61	43	95
KHA-5847	KHA-6558	KHA-7269	KHA-7980	KHA-8691	M12 x 1.75	25	25.5	19	10	61	43	95
KHA-5880	KHA-6591	KHA-7302	KHA-8013	KHA-8724	M12 x 1.75	30	25.5	19	10	61	43	95
KHA-5913	KHA-6624	KHA-7335	KHA-8046	KHA-8757	M12 x 1.75	35	25.5	19	10	61	43	95
KHA-5946	KHA-6657	KHA-7368	KHA-8079	KHA-8790	M12 x 1.75	40	25.5	19	10	61	43	95
KHA-5979	KHA-6690	KHA-7401	KHA-8112	KHA-8823	M12 x 1.75	45	25.5	19	10	61	43	95
KHA-6012	KHA-6723	KHA-7434	KHA-8145	KHA-8856	M12 x 1.75	50	25.5	19	10	61	43	95
KHA-6039	KHA-6750	KHA-7461	KHA-8172	KHA-8883	M12 x 1.75	55	25.5	19	10	61	43	95
KHA-6066	KHA-6777	KHA-7488	KHA-8199	KHA-8910	M12 x 1.75	60	25.5	19	10	61	43	95
KHA-6078	KHA-6789	KHA-7500	KHA-8211	KHA-8922	M12 x 1.75	70	25.5	19	10	61	43	95
KHA-6090	KHA-6801	KHA-7512	KHA-8223	KHA-8934	M12 x 1.75	80	25.5	19	10	61	43	95
KHA-6102	KHA-6813	KHA-7524	KHA-8235	KHA-8946	M12 x 1.75	90	25.5	19	10	61	43	95
KHA-5850	KHA-6561	KHA-7272	KHA-7983	KHA-8694	M12 x 1.75	25	30	23	12	72	49	110
KHA-5883	KHA-6594	KHA-7305	KHA-8016	KHA-8727	M12 x 1.75	30	30	23	12	72	49	110
KHA-5916	KHA-6627	KHA-7338	KHA-8049	KHA-8760	M12 x 1.75	35	30	23	12	72	49	110
KHA-5949	KHA-6660	KHA-7371	KHA-8082	KHA-8793	M12 x 1.75	40	30	23	12	72	49	110
KHA-5982	KHA-6693	KHA-7404	KHA-8115	KHA-8826	M12 x 1.75	45	30	23	12	72	49	110
KHA-6015	KHA-6726	KHA-7437	KHA-8148	KHA-8859	M12 x 1.75	50	30	23	12	72	49	110
KHA-6042	KHA-6753	KHA-7464	KHA-8175	KHA-8886	M12 x 1.75	55	30	23	12	72	49	110
KHA-6069	KHA-6780	KHA-7491	KHA-8202	KHA-8913	M12 x 1.75	60	30	23	12	72	49	110
KHA-6081	KHA-6792	KHA-7503	KHA-8214	KHA-8925	M12 x 1.75	70	30	23	12	72	49	110
KHA-6093	KHA-6804	KHA-7515	KHA-8226	KHA-8937	M12 x 1.75	80	30	23	12	72	49	110
KHA-6105	KHA-6816	KHA-7527	KHA-8238	KHA-8949	M12 x 1.75	90	30	23	12	72	49	110
KHA-5853	KHA-6564	KHA-7275	KHA-7986	KHA-8697	M16 x 2.00	25	30	23	12	72	49	110
KHA-5886	KHA-6597	KHA-7308	KHA-8019	KHA-8730	M16 x 2.00	30	30	23	12	72	49	110
KHA-5919	KHA-6630	KHA-7341	KHA-8052	KHA-8763	M16 x 2.00	35	30	23	12	72	49	110
KHA-5952	KHA-6663	KHA-7374	KHA-8085	KHA-8796	M16 x 2.00	40	30	23	12	72	49	110
KHA-5985	KHA-6696	KHA-7407	KHA-8118	KHA-8829	M16 x 2.00	45	30	23	12	72	49	110
KHA-6018	KHA-6729	KHA-7440	KHA-8151	KHA-8862	M16 x 2.00	50	30	23	12	72	49	110
KHA-6045	KHA-6756	KHA-7467	KHA-8178	KHA-8889	M16 x 2.00	55	30	23	12	72	49	110
KHA-6072	KHA-6783	KHA-7494	KHA-8205	KHA-8916	M16 x 2.00	60	30	23	12	72	49	110
KHA-6084	KHA-6795	KHA-7506	KHA-8217	KHA-8928	M16 x 2.00	70	30	23	12	72	49	110
KHA-6096	KHA-6807	KHA-7518	KHA-8229	KHA-8940	M16 x 2.00	80	30	23	12	72	49	110
KHA-6108	KHA-6819	KHA-7530	KHA-8241	KHA-8952	M16 x 2.00	90	30	23	12	72	49	110

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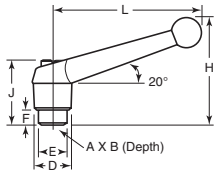
Don't See What You Need? Call Us, Our Team Is Here To Help.

ADJUSTABLE HANDLES

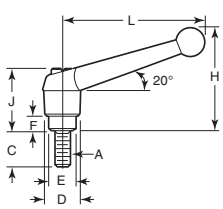
Adjustable handles act as a standard clamping lever, yet can adjust to 16-26 positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Plastic handles are reinforced with fiberglass for added strength. Insert, stud and other components are made of steel.

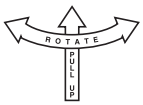
STAINLESS STEEL OPTION AVAILABLE











KIPP
Black Finish Powder Coated Zinc
Steel or Stainless Insert, Blank, Tapped or Reamed
Inch and Metric

Steel Item No.	Stainless Item No.	A	B	D	E	F	H	J	L
Inch									
KHB-4	KHB-504	10-32	.35	.53	.39	.15	1.30	.95	1.57
KHB-6	—	10-24	.35	.53	.39	.15	1.30	.95	1.57
KHB-8	KHB-508	¼-20	.35	.53	.39	.15	1.30	.95	1.57
KHB-14	KHB-514	¼-20	.47	.71	.53	.25	1.81	1.14	2.56
KHB-16	KHB-516	5/16-18	.47	.71	.53	.25	1.81	1.14	2.56
KHB-24	KHB-524	5/16-18	.55	.84	.62	.39	2.28	1.47	3.15
KHB-26	KHB-526	3/8-16	.55	.84	.62	.39	2.28	1.47	3.15
KHB-34	KHB-534	3/8-16	.67	1.00	.75	.39	2.63	1.68	3.74
KHB-36	KHB-536	½-13	.67	1.00	.75	.39	2.63	1.68	3.74
KHB-44	—	½-13	.90	1.20	.90	.47	3.11	2.00	4.33
KHB-46	—	5/8-11	.90	1.20	.90	.47	3.11	2.00	4.33

Steel Item No.	Stainless Item No.	A	B	D	E	F	H	J	L
Metric									
KHX-15	—	M6 x 1.00	9	13.5	10	4	33	24	40
KHX-20	KHX-520	M6 x 1.00	12	18	13.5	6.5	46	29	65
KHX-30	KHX-530	M8 x 1.25	12	18	13.5	6.5	46	29	65
KHX-35	KHX-535	M8 x 1.25	14	21.5	16	10	58	37.5	80
KHX-45	KHX-545	M10 x 1.50	14	21.5	16	10	58	37.5	80
KHX-50	KHX-550	M10 x 1.50	17	25.5	19	10	67	42.5	95
KHX-60	KHX-560	M12 x 1.75	17	25.5	19	10	67	42.5	95
KHX-65	—	M12 x 1.75	23	30.5	23	12	79	51	110
KHX-75	—	M16 x 2.00	23	30.5	23	12	79	51	110

KIPP
Black Finish Powder Coated Zinc
Steel or Stainless Stud
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

Steel Item No.	Stainless Item No.	A	C	D	E	F	H	J	L
Inch									
KHB-210	—	10-32	.39	.53	.39	.15	1.30	.95	1.57
KHB-52	KHB-704	10-32	.59	.53	.39	.15	1.30	.95	1.57
KHB-215	KHB-706	10-32	.78	.53	.39	.15	1.30	.95	1.57
KHB-220	—	10-32	1.18	.53	.39	.15	1.30	.95	1.57
KHB-225	—	10-24	.39	.53	.39	.15	1.30	.95	1.57
KHB-54	—	10-24	.59	.53	.39	.15	1.30	.95	1.57
KHB-230	—	10-24	.78	.53	.39	.15	1.30	.95	1.57
KHB-235	—	10-24	1.18	.53	.39	.15	1.30	.95	1.57
KHB-240	KHB-718	¼-20	.39	.53	.39	.15	1.30	.95	1.57
KHB-245	KHB-720	¼-20	.59	.53	.39	.15	1.30	.95	1.57
KHB-56	KHB-722	¼-20	.78	.53	.39	.15	1.30	.95	1.57
KHB-58	KHB-724	¼-20	1.18	.53	.39	.15	1.30	.95	1.57
KHB-250	KHB-726	¼-20	1.57	.53	.39	.15	1.30	.95	1.57
KHB-255	KHB-728	¼-20	1.77	.53	.39	.15	1.30	.95	1.57
KHB-260	KHB-730	5/16-18	.59	.71	.53	.25	1.81	1.14	2.56
KHB-60	KHB-732	5/16-18	.78	.71	.53	.25	1.81	1.14	2.56
KHB-62	KHB-734	5/16-18	1.18	.71	.53	.25	1.81	1.14	2.56
KHB-64	KHB-736	5/16-18	1.57	.71	.53	.25	1.81	1.14	2.56
KHB-66	KHB-738	5/16-18	1.77	.71	.53	.25	1.81	1.14	2.56
KHB-68	KHB-740	5/16-18	1.96	.71	.53	.25	1.81	1.14	2.56
KHB-70	KHB-742	5/16-18	2.36	.71	.53	.25	1.81	1.14	2.56
KHB-270	—	3/8-16	.59	.71	.53	.25	1.81	1.14	2.56
KHB-275	—	3/8-16	.78	.71	.53	.25	1.81	1.14	2.56
KHB-72	—	3/8-16	1.18	.71	.53	.25	1.81	1.14	2.56
KHB-74	—	3/8-16	1.57	.71	.53	.25	1.81	1.14	2.56
KHB-76	—	3/8-16	1.77	.71	.53	.25	1.81	1.14	2.56
KHB-280	—	3/8-16	1.96	.71	.53	.25	1.81	1.14	2.56
KHB-78	—	3/8-16	2.36	.71	.53	.25	1.81	1.14	2.56
KHB-285	—	3/8-16	.59	.84	.62	.39	2.28	1.47	3.15
KHB-80	KHB-760	3/8-16	.78	.84	.62	.39	2.28	1.47	3.15
KHB-82	KHB-762	3/8-16	1.18	.84	.62	.39	2.28	1.47	3.15
KHB-84	KHB-764	3/8-16	1.57	.84	.62	.39	2.28	1.47	3.15
KHB-86	KHB-766	3/8-16	1.77	.84	.62	.39	2.28	1.47	3.15
KHB-88	KHB-768	3/8-16	1.96	.84	.62	.39	2.28	1.47	3.15
KHB-90	KHB-770	3/8-16	2.36	.84	.62	.39	2.28	1.47	3.15
KHB-295	—	3/8-16	.78	1.00	.75	.39	2.63	1.68	3.74
KHB-92	—	3/8-16	1.18	1.00	.75	.39	2.63	1.68	3.74
KHB-94	—	3/8-16	1.57	1.00	.75	.39	2.63	1.68	3.74
KHB-96	—	3/8-16	1.77	1.00	.75	.39	2.63	1.68	3.74
KHB-98	—	3/8-16	1.96	1.00	.75	.39	2.63	1.68	3.74
KHB-100	—	3/8-16	2.36	1.00	.75	.39	2.63	1.68	3.74
KHB-300	—	½-13	.59	1.00	.75	.39	2.63	1.68	3.74
KHB-305	—	½-13	.78	1.00	.75	.39	2.63	1.68	3.74
KHB-102	—	½-13	1.18	1.00	.75	.39	2.63	1.68	3.74
KHB-104	—	½-13	1.38	1.00	.75	.39	2.63	1.68	3.74
KHB-106	KHB-794	½-13	1.57	1.00	.75	.39	2.63	1.68	3.74
KHB-108	—	½-13	1.77	1.00	.75	.39	2.63	1.68	3.74
KHB-110	KHB-798	½-13	1.96	1.00	.75	.39	2.63	1.68	3.74
KHB-112	KHB-800	½-13	2.36	1.00	.75	.39	2.63	1.68	3.74
KHB-310	—	½-13	.98	1.20	.90	.47	3.11	2.00	4.33
KHB-114	—	½-13	1.57	1.20	.90	.47	3.11	2.00	4.33
KHB-315	—	½-13	1.96	1.20	.90	.47	3.11	2.00	4.33
KHB-116	—	½-13	2.36	1.20	.90	.47	3.11	2.00	4.33
KHB-118	—	5/8-11	1.57	1.20	.90	.47	3.11	2.00	4.33
KHB-120	—	5/8-11	2.36	1.20	.90	.47	3.11	2.00	4.33

Steel Item No.	Stainless Item No.	A	C	D	E	F	H	J	L
Metric									
KHX-110	—	M5 x .80	15	13.5	10	4	33	24	40
KHX-115	—	M5 x .80	20	13.5	10	4	33	24	40
KHX-120	—	M5 x .80	25	13.5	10	4	33	24	40
KHX-125	—	M6 x 1.00	10	13.5	10	4	33	24	40
KHX-130	—	M6 x 1.00	15	13.5	10	4	33	24	40
KHX-135	KHX-635	M6 x 1.00	20	13.5	10	4	33	24	40
KHX-140	KHX-640	M6 x 1.00	25	13.5	10	4	33	24	40
KHX-145	KHX-645	M6 x 1.00	30	13.5	10	4	33	24	40
KHX-150	KHX-650	M6 x 1.00	35	13.5	10	4	33	24	40
KHX-155	—	M6 x 1.00	40	13.5	10	4	33	24	40
KHX-160	—	M6 x 1.00	45	13.5	10	4	33	24	40
KHX-165	KHX-665	M8 x 1.25	15	18	13.5	6.5	46	29	65
KHX-170	KHX-670	M8 x 1.25	20	18	13.5	6.5	46	29	65
KHX-175	KHX-675	M8 x 1.25	25	18	13.5	6.5	46	29	65
KHX-180	KHX-680	M8 x 1.25	30	18	13.5	6.5	46	29	65
KHX-185	KHX-685	M8 x 1.25	35	18	13.5	6.5	46	29	65
KHX-190	KHX-690	M8 x 1.25	40	18	13.5	6.5	46	29	65
KHX-195	KHX-695	M8 x 1.25	45	18	13.5	6.5	46	29	65
KHX-200	KHX-700	M8 x 1.25	50	18	13.5	6.5	46	29	65
KHX-205	—	M8 x 1.25	60	18	13.5	6.5	46	29	65
KHX-215	—	M10 x 1.50	20	18	13.5	6.5	46	29	65
KHX-220	—	M10 x 1.50	25	18	13.5	6.5	46	29	65
KHX-225	—	M10 x 1.50	30	18	13.5	6.5	46	29	65
KHX-230	—	M10 x 1.50	35	18	13.5	6.5	46	29	65
KHX-235	—	M10 x 1.50	40	18	13.5	6.5	46	29	65
KHX-240	—	M10 x 1.50	45	18	13.5	6.5	46	29	65
KHX-245	—	M10 x 1.50	50	18	13.5	6.5	46	29	65
KHX-250	—	M10 x 1.50	60	18	13.5	6.5	46	29	65
KHX-255	—	M10 x 1.50	15	21.5	16	10	58	37.5	80
KHX-260	KHX-760	M10 x 1.50	20	21.5	16	10	58	37.5	80
KHX-265	—	M10 x 1.50	25	21.5	16	10	58	37.5	80
KHX-270	—	M10 x 1.50	30	21.5	16	10	58	37.5	80
KHX-275	KHX-775	M10 x 1.50	35	21.5	16	10	58	37.5	80
KHX-280	KHX-780	M10 x 1.50	40	21.5	16	10	58	37.5	80
KHX-285	—	M10 x 1.50	45	21.5	16	10	58	37.5	80
KHX-290	KHX-790	M10 x 1.50	50	21.5	16	10	58	37.5	80
KHX-295	—	M10 x 1.50	60	21.5	16	10	58	37.5	80
KHX-310	—	M10 x 1.50	30	25.5	19	10	67	42.5	95
KHX-315	—	M10 x 1.50	35	25.5	19	10	67	42.5	95
KHX-320	—	M10 x 1.50	40	25.5	19	10	67	42.5	95
KHX-330	—	M10 x 1.50	50	25.5	19	10	67	42.5	95
KHX-335	—	M10 x 1.50	60	25.5	19	10	67	42.5	95
KHX-340	—	M12 x 1.75	20	25.5	19	10	67	42.5	95
KHX-345	—	M12 x 1.75	25	25.5	19	10	67	42.5	95
KHX-350	—	M12 x 1.75	30	25.5	19	10	67	42.5	95
KHX-355	—	M12 x 1.75	35	25.5	19	10	67	42.5	95
KHX-360	KHX-860	M12 x 1.75	40	25.5	19	10	67	42.5	95
KHX-365	—	M12 x 1.75	45	25.5	19	10	67	42.5	95
KHX-370	—	M12 x 1.75	50	25.5	19	10	67	42.5	95
KHX-375	KHX-875	M12 x 1.75	60	25.5	19	10	67	42.5	95
KHX-385	—	M12 x 1.75	60	30.5	23	12	79	51	110
KHX-390	—	M16 x 2.00	50	30.5	23	12	79	51	110
KHX-395	—	M16 x 2.00	60	30.5	23	12	79	51	110

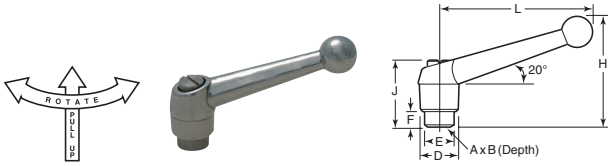
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ADJUSTABLE HANDLES

These adjustable handles act as a standard clamping lever, yet can adjust to several positions depending on the size. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening.

Stainless Steel - Type 303
Ball Design
Stainless Steel Insert, Tapped or Reamed
Inch and Metric

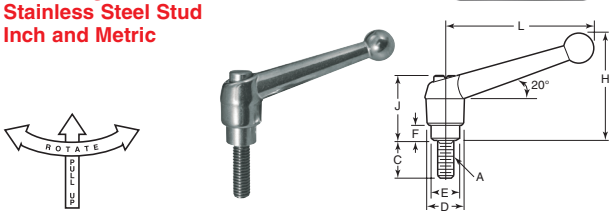
STAINLESS STEEL OPTION AVAILABLE



Item No.	A	B	D	E	F	H	J	L
Inch								
KHZ-126	¼-20	.35	.53	.39	.15	1.30	.95	1.57
KHZ-2	¼-20	.47	.71	.53	.25	2.00	1.14	2.56
KHZ-4	5⁄16-18	.47	.71	.53	.25	2.00	1.14	2.56
KHZ-12	⅜-16	.55	.84	.62	.39	2.00	1.47	3.15
KHZ-164	⅜-16	.67	1.00	.75	.39	2.63	1.68	3.74
KHZ-166	½-13	.67	1.00	.75	.39	2.63	1.68	3.74
Metric								
KHZ-158	M6 x 1.00	9	13.5	10	4	33	24	40
KHZ-22	M8 x 1.25	12	18	13.5	6.5	46	29	65
KHZ-28	M10 x 1.50	14	21.5	16	10	58	37.5	80
KHZ-172	M10 x 1.50	17	25.5	19	10	67	42.5	95
KHZ-174	M12 x 1.75	17	25.5	19	10	67	42.5	95

Stainless Steel - Type 303
Ball Design
Stainless Steel Stud
Inch and Metric

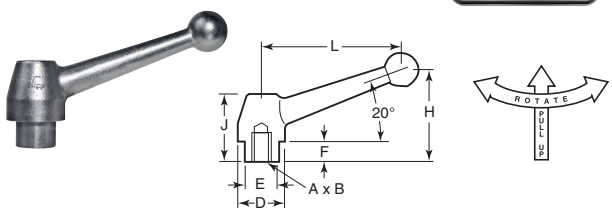
STAINLESS STEEL OPTION AVAILABLE



Item No.	A	C	D	E	F	H	J	L
Inch								
KHZ-32	10-32	.59	.53	.39	.15	1.30	.95	1.57
KHZ-44	10-24	1.18	.53	.39	.15	1.30	.95	1.57
KHZ-48	¼-20	.59	.53	.39	.15	1.30	.95	1.57
KHZ-50	¼-20	.78	.53	.39	.15	1.30	.95	1.57
KHZ-52	¼-20	1.18	.53	.39	.15	1.30	.95	1.57
KHZ-54	¼-20	1.57	.53	.39	.15	1.30	.95	1.57
KHZ-56	¼-20	1.77	.53	.39	.15	1.30	.95	1.57
KHZ-60	5⁄16-18	.59	.71	.53	.25	1.81	1.14	2.56
KHZ-62	5⁄16-18	.78	.71	.53	.25	1.81	1.14	2.56
KHZ-64	5⁄16-18	1.18	.71	.53	.25	1.81	1.14	2.56
KHZ-66	5⁄16-18	1.57	.71	.53	.25	1.81	1.14	2.56
KHZ-68	5⁄16-18	1.77	.71	.53	.25	1.81	1.14	2.56
KHZ-70	5⁄16-18	1.96	.71	.53	.25	1.81	1.14	2.56
KHZ-72	5⁄16-18	2.36	.71	.53	.25	1.81	1.14	2.56
KHZ-76	⅜-16	.78	.84	.62	.39	2.28	1.47	3.15
KHZ-78	⅜-16	1.18	.84	.62	.39	2.28	1.47	3.15
KHZ-80	⅜-16	1.57	.84	.62	.39	2.28	1.47	3.15
KHZ-82	⅜-16	1.77	.84	.62	.39	2.28	1.47	3.15
KHZ-84	⅜-16	1.96	.84	.62	.39	2.28	1.47	3.15
KHZ-178	½-13	.59	1.00	.75	.39	2.63	1.68	3.74
KHZ-180	½-13	.78	1.00	.75	.39	2.63	1.68	3.74
KHZ-182	½-13	1.18	1.00	.75	.39	2.63	1.68	3.74
KHZ-184	½-13	1.38	1.00	.75	.39	2.63	1.68	3.74
KHZ-186	½-13	1.57	1.00	.75	.39	2.63	1.68	3.74
KHZ-188	½-13	1.77	1.00	.75	.39	2.63	1.68	3.74
KHZ-190	½-13	1.96	1.00	.75	.39	2.63	1.68	3.74
KHZ-192	½-13	2.36	1.00	.75	.39	2.63	1.68	3.74
Metric								
KHZ-134	M5 x .80	20	13.5	10	4	33	24	40
KHZ-140	M6 x 1.00	15	13.5	10	4	33	24	40
KHZ-142	M6 x 1.00	20	13.5	10	4	33	24	40
KHZ-144	M6 x 1.00	25	13.5	10	4	33	24	40
KHZ-150	M6 x 1.00	35	13.5	10	4	33	24	40
KHZ-152	M6 x 1.00	40	13.5	10	4	33	24	40
KHZ-90	M8 x 1.25	20	18	13.5	6.5	46	29	65
KHZ-92	M8 x 1.25	25	18	13.5	6.5	46	29	65
KHZ-96	M8 x 1.25	35	18	13.5	6.5	46	29	65
KHZ-98	M8 x 1.25	40	18	13.5	6.5	46	29	65
KHZ-102	M8 x 1.25	50	18	13.5	6.5	46	29	65
KHZ-106	M10 x 1.50	20	21.5	16	10	58	37.5	80
KHZ-110	M10 x 1.50	30	21.5	16	10	58	37.5	80
KHZ-112	M10 x 1.50	35	21.5	16	10	58	37.5	80
KHZ-118	M10 x 1.50	50	21.5	16	10	58	37.5	80
KHZ-120	M10 x 1.50	60	21.5	16	10	58	37.5	80
KHZ-194	M12 x 1.75	25	25.5	19	10	67	42.5	95
KHZ-196	M12 x 1.75	30	25.5	19	10	67	42.5	95
KHZ-198	M12 x 1.75	40	25.5	19	10	67	42.5	95
KHZ-200	M12 x 1.75	50	25.5	19	10	67	42.5	95
KHZ-202	M12 x 1.75	60	25.5	19	10	67	42.5	95

KIPP
Steel and Stainless - Type 303
Ball Design
Tapped
Inch and Metric

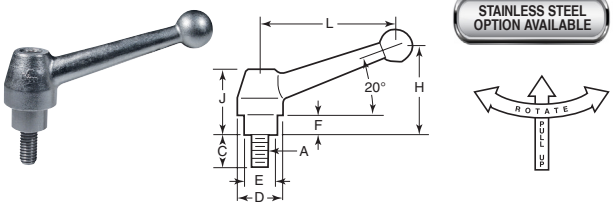
STAINLESS STEEL OPTION AVAILABLE



Steel Item No.	Stainless Item No.	A	B	D	E	F	H	J	L
Inch									
KHT-1	KHT-8	5⁄16-18	.67	1.10	.75	.47	2.13	1.61	3.26
KHT-2	KHT-9	⅜-16	.67	1.10	.75	.47	2.13	1.61	3.26
KHT-3	KHT-10	½-13	.67	1.10	.75	.47	2.13	1.61	3.26
KHT-4	—	½-13	.91	1.38	.91	.47	2.72	1.97	4.25
KHT-5	—	⅝-11	.91	1.38	.91	.47	2.72	1.97	4.25
KHT-6	—	⅝-11	1.06	1.69	1.18	.47	3.07	2.30	5.19
KHT-7	—	¾-10	1.06	1.69	1.18	.47	3.07	2.30	5.19
Metric									
KHT-60	—	M8 x 1.25	17	28	19	12	54	41	83
KHT-62	—	M10 x 1.50	17	28	19	12	54	41	83
KHT-64	—	M12 x 1.75	17	28	19	12	54	41	83
KHT-66	—	M12 x 1.75	23	35	23	12	69	50	108
KHT-68	—	M16 x 2.00	23	35	23	12	69	50	108
KHT-70	—	M16 x 2.00	27	43	30	12	78	58.5	132

KIPP
Steel and Stainless Steel - Type 303
Ball Design
Stud
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

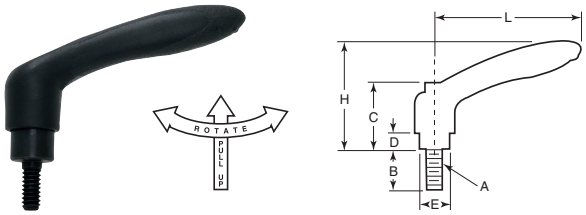


Steel Item No.	Stainless Item No.	A	C	D	E	F	H	J	L
Inch									
KHT-11	KHT-47	⅜-16	.78	1.10	.75	.47	2.13	1.61	3.26
KHT-12	KHT-48	⅜-16	1.18	1.10	.75	.47	2.13	1.61	3.26
KHT-13	KHT-49	⅜-16	1.57	1.10	.75	.47	2.13	1.61	3.26
KHT-14	—	⅜-16	1.77	1.10	.75	.47	2.13	1.61	3.26
KHT-15	KHT-51	⅜-16	1.96	1.10	.75	.47	2.13	1.61	3.26
KHT-16	KHT-52	⅜-16	2.36	1.10	.75	.47	2.13	1.61	3.26
KHT-17	—	½-13	.78	1.10	.75	.47	2.13	1.61	3.26
KHT-18	KHT-54	½-13	1.18	1.10	.75	.47	2.13	1.61	3.26
KHT-19	KHT-55	½-13	1.57	1.10	.75	.47	2.13	1.61	3.26
KHT-20	—	½-13	1.77	1.10	.75	.47	2.13	1.61	3.26
KHT-21	—	½-13	1.96	1.10	.75	.47	2.13	1.61	3.26
KHT-22	KHT-58	½-13	2.36	1.10	.75	.47	2.13	1.61	3.26
KHT-23	—	½-13	.98	1.38	.91	.47	2.72	1.97	4.25
KHT-24	—	½-13	1.18	1.38	.91	.47	2.72	1.97	4.25
KHT-25	—	½-13	1.57	1.38	.91	.47	2.72	1.97	4.25
KHT-27	—	½-13	1.96	1.38	.91	.47	2.72	1.97	4.25
KHT-28	—	½-13	2.36	1.38	.91	.47	2.72	1.97	4.25
KHT-29	—	⅝-11	.98	1.38	.91	.47	2.72	1.97	4.25
KHT-30	—	⅝-11	1.18	1.38	.91	.47	2.72	1.97	4.25
KHT-31	—	⅝-11	1.57	1.38	.91	.47	2.72	1.97	4.25
KHT-32	—	⅝-11	1.77	1.38	.91	.47	2.72	1.97	4.25
KHT-33	—	⅝-11	1.96	1.38	.91	.47	2.72	1.97	4.25
KHT-34	—	⅝-11	2.36	1.38	.91	.47	2.72	1.97	4.25
KHT-37	—	⅝-11	1.57	1.69	1.18	.47	3.07	2.30	5.19
KHT-40	—	⅝-11	2.36	1.69	1.18	.47	3.07	2.30	5.19
KHT-42	—	¾-10	1.18	1.69	1.18	.47	3.07	2.30	5.19
KHT-43	—	¾-10	1.57	1.69	1.18	.47	3.07	2.30	5.19
KHT-45	—	¾-10	1.96	1.69	1.18	.47	3.07	2.30	5.19
KHT-46	—	¾-10	2.36	1.69	1.18	.47	3.07	2.30	5.19
Metric									
KHT-72	—	M10 x 1.50	20	28	19	12	54	41	83
KHT-74	—	M10 x 1.50	30	28	19	12	54	41	83
KHT-76	—	M12 x 1.75	20	28	19	12	54	41	83
KHT-78	—	M12 x 1.75	30	28	19	12	54	41	83
KHT-80	—	M12 x 1.75	25	35	23	12	69	50	108
KHT-82	—	M12 x 1.75	30	35	23	12	69	50	108
KHT-84	—	M16 x 2.00	25	35	23	12	69	50	108
KHT-86	—	M16 x 2.00	30	43	30	12	78	58.5	108
KHT-88	—	M16 x 2.00	30	43	30	12	78	58.5	132

ADJUSTABLE HANDLES

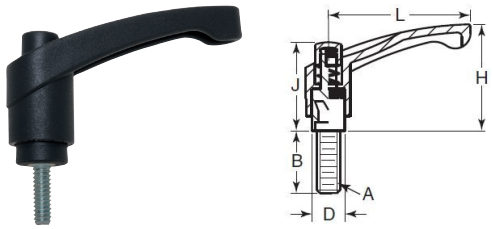
These adjustable handles act as a standard clamping lever, yet can adjust to 20-45 positions depending on the size. Pulling up on the handle disengages it while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle engages it for tightening and loosening. Allows for convenient positioning for maximum leverage as well as saving space and keeping the handle out of the way. Black plastic handle bodies are reinforced with fiberglass for added strength. Gripping portion of handles are gray "soft touch" thermoplastic. Insert, stud and other components are made of steel.

Black Thermoplastic
Soft Touch
Steel Stud
Inch



Item No.	A	B	C	D	E	H	L
RK-159	10-32	.39	.96	.22	.39	1.46	1.57
RK-161	¼-20	.59	.96	.22	.39	1.46	1.57
RK-162	¼-20	1.18	.96	.22	.39	1.46	1.57
RK-163	¼-20	.59	1.12	.26	.49	1.99	2.56
RK-164	¼-20	1.57	1.12	.26	.49	1.99	2.56
RK-165	¼-20	1.18	1.12	.26	.49	1.99	2.56
RK-166	5/16-18	.59	1.12	.26	.49	1.99	2.56
RK-167	5/16-18	1.18	1.12	.26	.49	1.99	2.56
RK-168	5/16-18	1.57	1.12	.26	.49	1.99	2.56
RK-172	⅜-16	.59	1.46	.39	.63	2.54	3.15
RK-173	⅜-16	1.18	1.46	.39	.63	2.54	3.15
RK-174	⅜-16	1.57	1.46	.39	.63	2.54	3.15

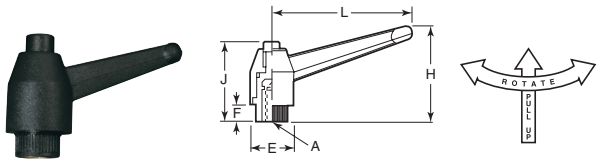
Reid Select
Black Thermoplastic Adjustable Handle
Plated Steel
External Thread
Inch



Item No.	A	B	D	H	J	L
RST-176	10-24	.75	.51	1.50	1.30	1.69
RST-177	1/4-20	.50	.51	1.50	1.30	1.69
RST-178	1/4-20	.75	.51	1.50	1.30	1.69
RST-179	1/4-20	1.00	.51	1.50	1.30	1.69
RST-180	1/4-20	1.25	.51	1.50	1.30	1.69
RST-181	1/4-20	.75	.59	1.89	2.56	2.56
RST-182	1/4-20	1.00	.59	1.89	2.56	2.56
RST-183	1/4-20	1.50	.59	1.89	2.56	2.56
RST-184	5/16-18	.75	.59	1.89	2.56	2.56
RST-185	5/16-18	1.00	.59	1.89	2.56	2.56
RST-186	5/16-18	1.50	.59	1.89	2.56	2.56
RST-187	3/8-16	1.00	.59	1.89	2.56	2.56
RST-188	3/8-16	1.00	.59	1.89	2.56	2.56
RST-189	5/16-18	.75	.71	2.48	3.35	3.35
RST-190	5/16-18	1.00	.71	2.48	3.35	3.35
RST-191	5/16-18	1.50	.71	2.48	3.35	3.35
RST-192	3/8-16	1.00	.71	2.48	3.35	3.35
RST-193	3/8-16	1.50	.71	2.48	3.35	3.35
RST-194	3/8-16	1.75	.71	2.48	3.35	3.35
RST-195	3/8-16	2.00	.71	2.48	3.35	3.35
RST-196	1/2-13	1.50	.71	2.48	3.35	3.35
RST-197	1/2-13	2.00	.71	2.48	3.35	3.35

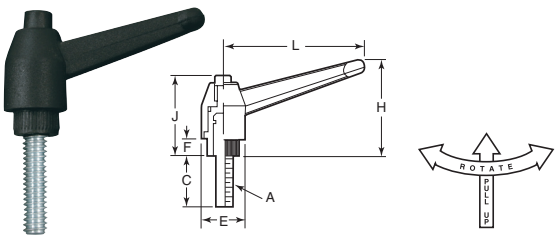
These adjustable handles act as a standard clamping lever yet can adjust to several positions. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way. Available with stainless steel insert or stainless steel stud. Body is black thermoplastic.

Reid Select
Black Thermoplastic
Brass Insert, Tapped
Inch



Item No.	A	E	F	H	J	L
JCL-141	¼-20	.47	.24	1.38	.79	1.69
JCL-142	¼-20	.59	.31	1.81	1.06	2.56
JCL-143	5/16-18	.59	.31	1.81	1.06	2.56
JCL-144	5/16-18	.75	.39	2.24	1.30	3.27
JCL-146	⅜-16	.75	.39	2.24	1.30	3.27
JCL-147	⅜-16	.94	.43	2.76	1.54	4.09
JCL-148	½-13	.94	.43	2.76	1.54	4.09

Reid Select
Black Thermoplastic
Plated Steel Stud
Inch



Item No.	A	C	E	F	H	J	L
JCL-149	¼-20	.63	.47	.24	1.38	.79	1.69
JCL-151	¼-20	.75	.47	.24	1.38	.79	1.69
JCL-152	¼-20	.98	.47	.24	1.38	.79	1.69
JCL-153	¼-20	.51	.59	.31	1.81	1.06	2.56
JCL-154	¼-20	.75	.59	.31	1.81	1.06	2.56
JCL-156	¼-20	1.26	.59	.31	1.81	1.06	2.56
JCL-157	5/16-18	.98	.59	.31	1.81	1.06	2.56
JCL-158	5/16-18	1.26	.59	.31	1.81	1.06	2.56
JCL-159	5/16-18	1.26	.75	.39	2.24	1.30	3.27
JCL-161	⅜-16	.98	.75	.39	2.24	1.30	3.27
JCL-162	⅜-16	1.26	.75	.39	2.24	1.30	3.27
JCL-163	½-13	1.26	.94	.43	2.76	1.54	4.09
JCL-164	⅝-11	1.50	.94	.43	2.76	1.54	4.09

Customer Service: (800) 253-0421 • (231) 777-3951

KIPP
Clamping Intensifier Handles
Plastic Handle, Steel Component

By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.



Scan QR Code Below
For More Information

Clamping force can be increased by up to 75% compared to standard clamping levers.

KIPP
Clamping Intensifier Handles
Female



KIPP
Clamping Intensifier Handles
Male



ADJUSTABLE HANDLES

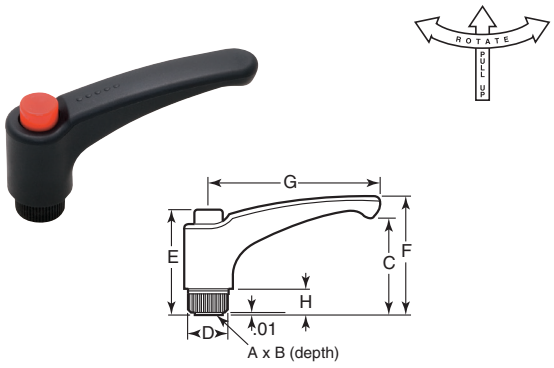
These adjustable handles act as a standard clamping lever yet can adjust to several positions. Pulling up on the handle disengages it, while the insert or stud remains stationary, allowing you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Allows for convenient positioning for maximum leverage, as well as saving space and keeping the handle out of the way.

ELESA Black Plastic Steel or Stainless Steel Bushing Inch

elesa

ERGOSTYLE®

STAINLESS STEEL OPTION AVAILABLE

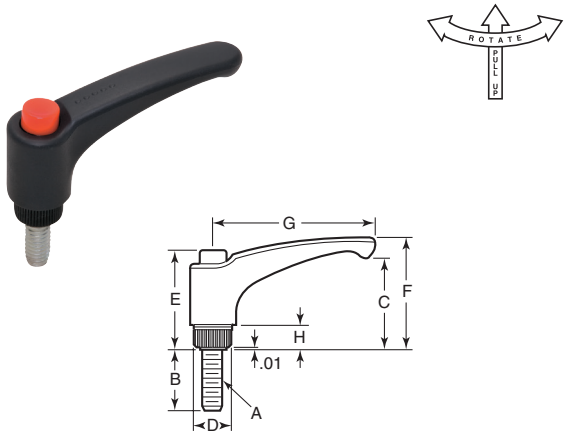


Steel Bushing Item No.	Stainless Bushing Item No.	A	B	C	D	E	F	G	H
ESP-180	—	10-24	.39	.98	.47	1.16	1.28	1.73	.24
ESP-181	—	10-32	.39	.98	.47	1.16	1.28	1.73	.24
ESP-185	—	¼-20	.39	.98	.47	1.16	1.28	1.73	.24
ESP-190	—	¼-20	.47	1.36	.59	1.48	1.69	2.48	.31
ESP-195	—	5/16-18	.51	1.36	.59	1.48	1.69	2.48	.31
ESP-200	ESP-275	⅜-16	.67	1.73	.75	1.85	2.13	3.07	.47
ESP-205	—	½-13	.67	1.73	.75	1.85	2.13	3.07	.47
ESP-210	—	⅜-16	.79	2.09	.85	2.15	2.54	3.74	.51
ESP-215	—	½-13	.79	2.09	.85	2.15	2.54	3.74	.51
ESP-265	—	¼-20	.39	.98	.47	1.16	1.28	1.73	.24
ESP-270	—	5/16-18	.51	1.36	.59	1.48	1.69	2.48	.31

ELESA Black Plastic Steel Stud Inch

elesa

ERGOSTYLE®

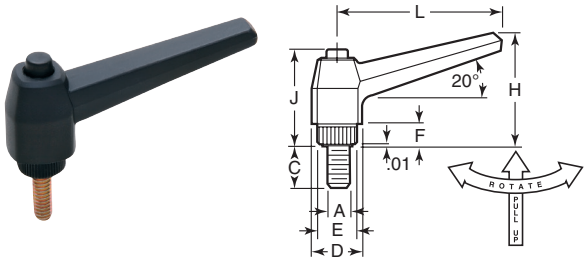


Item No.	A	B	C	D	E	F	G	H
ESP-220	10-24	.75	.98	.47	1.16	1.28	1.73	.24
ESP-221	10-32	.50	.98	.47	1.16	1.28	1.73	.24
ESP-222	10-32	.75	.98	.47	1.16	1.28	1.73	.24
ESP-225	¼-20	.75	.98	.47	1.16	1.28	1.73	.24
ESP-230	¼-20	1.00	.98	.47	1.16	1.28	1.73	.24
ESP-235	5/16-18	.75	1.36	.59	1.48	1.69	2.48	.31
ESP-240	5/16-18	1.00	1.36	.59	1.48	1.69	2.48	.31
ESP-245	5/16-18	1.25	1.36	.59	1.48	1.69	2.48	.31
ESP-250	⅜-16	1.00	1.73	.75	1.85	2.13	3.07	.47
ESP-255	⅜-16	1.25	1.73	.75	1.85	2.13	3.07	.47
ESP-260	⅜-16	1.50	1.73	.75	1.85	2.13	3.07	.47

ELESA Black Plastic Plated Steel or Stainless Steel Stud Inch

elesa

STAINLESS STEEL OPTION AVAILABLE



Item No.	A	C	D	E	F	H	J	L
Plated Steel Stud								
ECL-111	10-24	.75	.71	.47	.24	1.26	1.14	1.65
ECL-112	10-32	.50	.71	.47	.24	1.26	1.14	1.65
ECL-113	10-32	.75	.71	.47	.24	1.26	1.14	1.65
ECL-114	¼-20	.50	.71	.47	.24	1.26	1.14	1.65
ECL-115	¼-20	.75	.71	.47	.24	1.26	1.14	1.65
ECL-116	¼-20	1.00	.71	.47	.24	1.26	1.14	1.65
ECL-117	¼-20	1.50	.71	.47	.24	1.26	1.14	1.65
ECL-118	¼-20	.75	.91	.59	.31	1.69	1.46	2.48
ECL-119	¼-20	1.00	.91	.59	.31	1.69	1.46	2.48
ECL-120	¼-20	1.50	.91	.59	.31	1.69	1.46	2.48
ECL-121	5/16-18	.50	.91	.59	.31	1.69	1.46	2.48
ECL-122	5/16-18	.75	.91	.59	.31	1.69	1.46	2.48
ECL-123	5/16-18	1.00	.91	.59	.31	1.69	1.46	2.48
ECL-124	5/16-18	1.25	.91	.59	.31	1.69	1.46	2.48
ECL-125	5/16-18	1.50	.91	.59	.31	1.69	1.46	2.48
ECL-126	5/16-18	2.00	.91	.59	.31	1.69	1.46	2.48
ECL-127	⅜-16	.75	1.10	.75	.39	2.13	1.85	3.15
ECL-128	⅜-16	1.00	1.10	.75	.39	2.13	1.85	3.15
ECL-129	⅜-16	1.25	1.10	.75	.39	2.13	1.85	3.15
ECL-130	⅜-16	1.50	1.10	.75	.39	2.13	1.85	3.15
ECL-131	⅜-16	2.00	1.10	.75	.39	2.13	1.85	3.15
ECL-132	½-13	1.25	1.10	.75	.39	2.13	1.85	3.15
ECL-133	½-13	1.50	1.10	.75	.39	2.13	1.85	3.15
ECL-134	½-13	2.00	1.10	.75	.39	2.13	1.85	3.15
ECL-135	½-13	1.25	1.30	.98	.47	2.56	2.13	3.94
ECL-136	½-13	1.50	1.30	.98	.47	2.56	2.13	3.94
ECL-137	½-13	2.00	1.30	.98	.47	2.56	2.13	3.94
Stainless Steel Stud								
ECL-141	¼-20	.50	.71	.47	.24	1.26	1.14	1.65
ECL-142	¼-20	.75	.71	.47	.24	1.26	1.14	1.65
ECL-143	¼-20	1.00	.71	.47	.24	1.26	1.14	1.65
ECL-144	5/16-18	.75	.91	.59	.31	1.69	1.46	2.48
ECL-145	5/16-18	1.00	.91	.59	.31	1.69	1.46	2.48
ECL-146	5/16-18	1.25	.91	.59	.31	1.69	1.46	2.48
ECL-147	⅜-16	1.00	1.10	.75	.39	2.13	1.85	3.15
ECL-148	⅜-16	1.25	1.10	.75	.39	2.13	1.85	3.15
ECL-149	⅜-16	1.50	1.10	.75	.39	2.13	1.85	3.15
ECL-150	⅜-16	2.00	1.10	.75	.39	2.13	1.85	3.15

Be The First To Know!

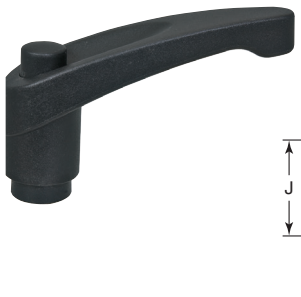
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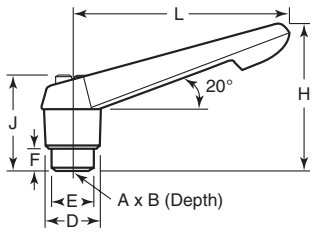
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ADJUSTABLE HANDLES

These adjustable handles act as a standard clamping lever, yet can adjust to several positions depending on the size. Releasing the handle reengages it for tightening and loosening. Moreover, the chrome plating makes the surface finish glossy and homogeneous to facilitate cleaning operations. This adjustable handle is particularly suitable for outdoor environments subject to unfavorable weather conditions, and in general for applications on machines and equipment whose parts need frequent cleaning cycles for hygienic reasons.

Reid Select
Adjustable Handle
Female
Threaded Brass Insert
Inch

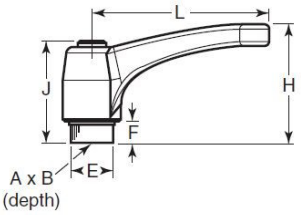




Item No.	A	B	D	H	J	L
RST-168	10-24	.35	.51	1.50	1.30	1.69
RST-169	1/4-20	.39	.51	1.50	1.30	1.69
RST-170	1/4-20	.39	.59	1.89	1.61	2.56
RST-171	5/16-18	.55	.59	1.89	1.61	2.56
RST-172	3/8-16	.66	.59	1.89	1.61	2.56
RST-173	5/16-18	.55	.71	2.48	1.97	3.35
RST-174	3/8-16	.66	.71	2.48	1.97	3.35
RST-175	1/2-13	.75	.71	2.48	1.97	3.35

Reid Select
Black Thermoplastic Adjustable Handle
Stainless Steel Stud
Inch
Internal Thread

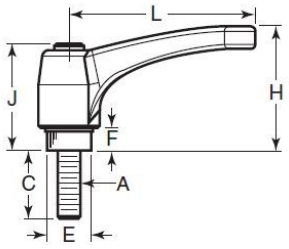




Item No.	A	C	E	F	H	J	L
JCL-303	1/4-20	.32	.45	.24	1.30	1.26	1.70
JCL-304	5/16-18	.39	.59	.32	1.61	1.54	2.05
JCL-306	1/4-20	.39	.59	.32	1.61	1.54	2.05
JCL-307	5/16-18	.39	.59	.32	1.69	1.54	2.56
JCL-308	1/4-20	.39	.59	.32	1.69	1.54	2.56
JCL-309	5/16-18	.59	.75	.33	2.13	1.85	3.15
JCL-311	3/8-16	.59	.75	.33	2.13	1.85	3.15

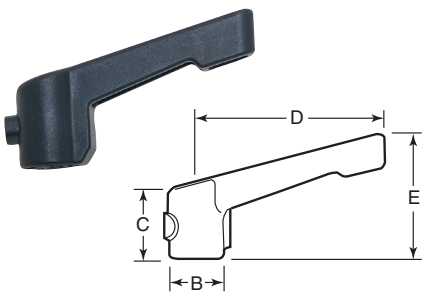
Reid Select
Black Thermoplastic Adjustable Handle
Stainless Steel Stud
Inch
External Thread

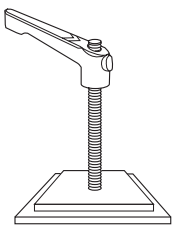




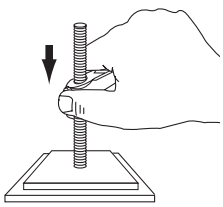
Item No.	A	C	E	F	H	J	L
JCL-243	1/4-20	.50	.45	.24	1.30	1.26	1.70
JCL-244	1/4-20	.75	.45	.24	1.30	1.26	1.70
JCL-246	1/4-20	1.00	.45	.24	1.30	1.26	1.70
JCL-247	1/4-20	1.25	.45	.24	1.30	1.26	1.70
JCL-248	1/4-20	1.50	.45	.24	1.30	1.26	1.70
JCL-249	1/4-20	2.00	.45	.24	1.30	1.26	1.70
JCL-251	5/16-18	.50	.59	.32	1.61	1.54	2.05
JCL-252	5/16-18	.75	.59	.32	1.61	1.54	2.05
JCL-253	5/16-18	1.00	.59	.32	1.61	1.54	2.05
JCL-254	5/16-18	1.25	.59	.32	1.61	1.54	2.05
JCL-256	5/16-18	1.50	.59	.32	1.61	1.54	2.05
JCL-257	5/16-18	2.00	.59	.32	1.61	1.54	2.05
JCL-258	1/4-20	.50	.59	.32	1.61	1.54	2.05
JCL-259	1/4-20	.75	.59	.32	1.61	1.54	2.05
JCL-261	1/4-20	1.00	.59	.32	1.61	1.54	2.05
JCL-263	1/4-20	1.50	.59	.32	1.61	1.54	2.05
JCL-264	1/4-20	2.00	.59	.32	1.61	1.54	2.05
JCL-266	5/16-18	.50	.59	.32	1.69	1.54	2.56
JCL-267	5/16-18	.75	.59	.32	1.69	1.54	2.56
JCL-268	5/16-18	1.00	.59	.32	1.69	1.54	2.56
JCL-269	5/16-18	1.25	.59	.32	1.69	1.54	2.56
JCL-271	5/16-18	1.50	.59	.32	1.69	1.54	2.56
JCL-272	5/16-18	2.00	.59	.32	1.69	1.54	2.56
JCL-273	1/4-20	.50	.59	.32	1.69	1.54	2.56
JCL-274	1/4-20	.75	.59	.32	1.69	1.54	2.56
JCL-276	1/4-20	1.00	.59	.32	1.69	1.54	2.56
JCL-278	1/4-20	1.25	.59	.32	1.69	1.54	2.56
JCL-279	1/4-20	2.00	.59	.32	1.69	1.54	2.56
JCL-281	5/16-18	.50	.75	.33	2.13	1.85	3.15
JCL-282	5/16-18	.75	.75	.33	2.13	1.85	3.15
JCL-283	5/16-18	1.25	.75	.33	2.13	1.85	3.15
JCL-286	5/16-18	1.50	.75	.33	2.13	1.85	3.15
JCL-287	5/16-18	2.00	.75	.33	2.13	1.85	3.15
JCL-288	3/8-16	.50	.75	.33	2.13	1.85	3.15
JCL-289	3/8-16	.75	.75	.33	2.13	1.85	3.15
JCL-291	3/8-16	1.00	.75	.33	2.13	1.85	3.15
JCL-292	3/8-16	1.25	.75	.33	2.13	1.85	3.15
JCL-293	3/8-16	1.50	.75	.33	2.13	1.85	3.15
JCL-294	3/8-16	2.00	.75	.33	2.13	1.85	3.15
JCL-296	1/2-13	.50	.75	.33	2.13	1.85	3.15
JCL-297	1/2-13	.75	.75	.33	2.13	1.85	3.15
JCL-298	1/2-13	1.00	.75	.33	2.13	1.85	3.15
JCL-299	1/2-13	1.25	.75	.33	2.13	1.85	3.15
JCL-301	1/2-13	1.50	.75	.33	2.13	1.85	3.15
JCL-302	1/2-13	2.00	.75	.33	2.13	1.85	3.15

Morton Machine Works
Black Thermoplastic or Die Cast Zinc
Thru-Hole
Inch

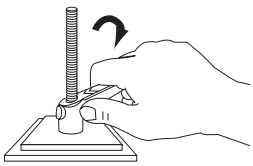




Push button to disengage threads



Slide handle to new position



Release button and threads engage for clamping

The thru-hole allows for quick clamping. Ideal for repetitive tightening operations. The handles are available in black thermoplastic or die cast zinc. Internal thread mechanism is made from carbon steel.

Plastic Item No.	Die Cast Item No.	Thread	B	C	D	E
BCL-30	BCL-5	1/4-20	13/16	1	2 9/16	1 3/4
BCL-35	BCL-10	5/16-18	15/16	1 1/8	3 1/16	2 3/16
BCL-40	BCL-15	3/8-16	15/16	1 1/8	3 1/16	2 3/16
BCL-45	BCL-20	1/2-13	1 1/4	1 1/2	4 1/4	2 15/16
BCL-50	BCL-25	5/8-11	1 1/4	1 1/2	4 1/4	2 15/16

ADJUSTABLE T-HANDLES

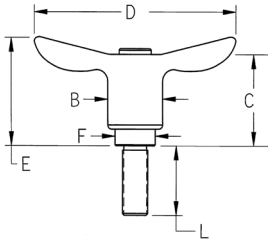
Morton Machine Works
Adjustable T-Handle
Plastic Handle, Steel Body, External Thread
Inch and Metric

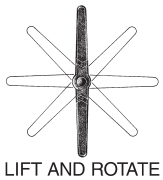


Black



Orange





LIFT AND ROTATE HANDLE 360˚

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Inch								
MAT-THP301	MAT-THP301OR	#10-24	.63	.54	.87	1.98	1.05	.39
MAT-THP302	MAT-THP302OR	#10-32	.63	.54	.87	1.98	1.05	.39
MAT-THP3027	MAT-THP3027OR	#10-32	1.25	.54	.87	1.98	1.05	.39
MAT-THP303	MAT-THP303OR	1/4-20	.78	.54	.87	1.98	1.05	.39
MAT-THP3032	MAT-THP3032OR	1/4-20	.98	.54	.87	1.98	1.05	.39
MAT-THP3034	MAT-THP3034OR	1/4-20	1.25	.54	.87	1.98	1.05	.39
MAT-THP3038	MAT-THP3038OR	1/4-20	1.57	.54	.87	1.98	1.05	.39
MAT-THP3036	MAT-THP3036OR	1/4-20	1.78	.54	.87	1.98	1.05	.39
MAT-THP3035	MAT-THP3035OR	1/4-20	.98	.70	1.10	2.56	1.31	.53
MAT-THP3037	MAT-THP3037OR	5/16-18	.78	.70	1.10	2.56	1.31	.53
MAT-THP3039	MAT-THP3039OR	5/16-18	1.26	.70	1.10	2.56	1.31	.53
MAT-THP304	MAT-THP304OR	5/16-18	1.57	.70	1.10	2.56	1.31	.53
MAT-THP3043	MAT-THP3043OR	5/16-18	1.97	.70	1.10	2.56	1.31	.53
MAT-THP3045	MAT-THP3045OR	5/16-18	2.48	.70	1.10	2.56	1.31	.53
MAT-THP3047	MAT-THP3047OR	3/8-16	.78	.70	1.10	2.56	1.31	.53
MAT-THP3048	MAT-THP3048OR	3/8-16	1.25	.70	1.10	2.56	1.31	.53
MAT-THP305	MAT-THP305OR	3/8-16	1.57	.70	1.10	2.56	1.31	.53
MAT-THP3053	MAT-THP3053OR	5/16-18	1.97	.84	1.30	3.07	1.55	.63
MAT-THP3056	MAT-THP3056OR	3/8-16	.98	.84	1.30	3.07	1.55	.63
MAT-THP3058	MAT-THP3058OR	3/8-16	1.26	.84	1.30	3.07	1.55	.63
MAT-THP306	MAT-THP306OR	3/8-16	1.57	.84	1.30	3.07	1.55	.63
MAT-THP307	MAT-THP307OR	3/8-16	1.97	.84	1.30	3.07	1.55	.63
MAT-THP3079	MAT-THP3079OR	3/8-16	2.48	.84	1.30	3.07	1.55	.63
MAT-THP3075	MAT-THP3075OR	3/8-16	1.57	.96	1.52	3.62	1.82	.75
MAT-THP3078	MAT-THP3078OR	3/8-16	1.97	.96	1.52	3.62	1.82	.75
MAT-THP308	MAT-THP308OR	1/2-13	1.25	.96	1.52	3.62	1.82	.75
MAT-THP3085	MAT-THP3085OR	1/2-13	1.57	.96	1.52	3.62	1.82	.75
MAT-THP309	MAT-THP309OR	1/2-13	1.97	.96	1.52	3.62	1.82	.75
MAT-THP310	MAT-THP310OR	1/2-13	2.48	.96	1.52	3.62	1.82	.75

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Metric								
MAT-THP401	MAT-THP401OR	M5 x .8	12	13.7	22	50	26.6	10
MAT-THP402	MAT-THP402OR	M5 x .8	16	13.7	22	50	26.6	10
MAT-THP403	MAT-THP403OR	M5 x .8	20	13.7	22	50	26.6	10
MAT-THP4035	MAT-THP4035OR	M5 x .8	40	13.7	22	50	26.6	10
MAT-THP404	MAT-THP404OR	M6 x 1.0	16	13.7	22	50	26.6	10
MAT-THP405	MAT-THP405OR	M6 x 1.0	20	13.7	22	50	26.6	10
MAT-THP406	MAT-THP406OR	M6 x 1.0	25	13.7	22	50	26.6	10
MAT-THP407	MAT-THP407OR	M6 x 1.0	32	13.7	22	50	26.6	10
MAT-THP408	MAT-THP408OR	M6 x 1.0	40	13.7	22	50	26.6	10
MAT-THP409	MAT-THP409OR	M8 x 1.25	20	17.7	28	65	33.4	13.5
MAT-THP410	MAT-THP410OR	M8 x 1.25	25	17.7	28	65	33.4	13.5
MAT-THP411	MAT-THP411OR	M8 x 1.25	32	17.7	28	65	33.4	13.5
MAT-THP412	MAT-THP412OR	M8 x 1.25	40	17.7	28	65	33.4	13.5
MAT-THP413	MAT-THP413OR	M8 x 1.25	50	17.7	28	65	33.4	13.5
MAT-THP414	MAT-THP414OR	M8 x 1.25	63	17.7	28	65	33.4	13.5
MAT-THP415	MAT-THP415OR	M10 x 1.50	20	17.7	28	65	33.4	13.5
MAT-THP416	MAT-THP416OR	M10 x 1.50	32	17.7	28	65	33.4	13.5
MAT-THP417	MAT-THP417OR	M10 x 1.50	40	17.7	28	65	33.4	13.5
MAT-THP418	MAT-THP418OR	M10 x 1.50	50	17.7	28	65	33.4	13.5
MAT-THP419	MAT-THP419OR	M10 x 1.50	20	21.4	33	78	39.4	16
MAT-THP4195	MAT-THP4195OR	M10 x 1.50	25	21.4	33	78	39.4	16
MAT-THP420	MAT-THP420OR	M10 x 1.50	32	21.4	33	78	39.4	16
MAT-THP421	MAT-THP421OR	M10 x 1.50	40	21.4	33	78	39.4	16
MAT-THP422	MAT-THP422OR	M10 x 1.50	50	21.4	33	78	39.4	16
MAT-THP423	MAT-THP423OR	M10 x 1.50	63	21.4	33	78	39.4	16
MAT-THP424	MAT-THP424OR	M12 x 1.75	32	24.5	38.7	92	46.2	19
MAT-THP425	MAT-THP425OR	M12 x 1.75	40	24.5	38.7	92	46.2	19
MAT-THP426	MAT-THP426OR	M12 x 1.75	50	24.5	38.7	92	46.2	19
MAT-THP427	MAT-THP427OR	M12 x 1.75	63	24.5	38.7	92	46.2	19

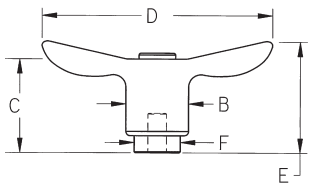
Morton Machine Works
Adjustable T-Handle
Plastic Handle, Steel Body, Internal Thread
Inch and Metric

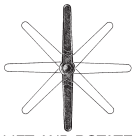


Black



Orange





LIFT AND ROTATE HANDLE 360˚

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Inch								
MAT-THP101	MAT-THP101OR	#10-24	.32	.54	.87	1.98	1.05	.39
MAT-THP102	MAT-THP102OR	#10-32	.32	.54	.87	1.98	1.05	.39
MAT-THP103	MAT-THP103OR	1/4-20	.32	.54	.87	1.98	1.05	.39
MAT-THP104	MAT-THP104OR	1/4-20	.40	.70	1.10	2.56	1.31	.53
MAT-THP105	MAT-THP105OR	5/16-18	.40	.70	1.10	2.56	1.31	.53
MAT-THP106	MAT-THP106OR	5/16-18	.55	.84	1.30	3.07	1.55	.63
MAT-THP107	MAT-THP107OR	3/8-16	.55	.84	1.30	3.07	1.55	.63
MAT-THP108	MAT-THP108OR	3/8-16	.67	.96	1.52	3.62	1.82	.75
MAT-THP109	MAT-THP109OR	1/2-13	.67	.96	1.52	3.62	1.82	.75

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Metric								
MAT-THP201	MAT-THP201OR	M4 X .7	8	13.7	22	50	26.6	10
MAT-THP202	MAT-THP202OR	M5 X .8	8	13.7	22	50	26.6	10
MAT-THP203	MAT-THP203OR	M6 X 1.0	8	13.7	22	50	26.6	10
MAT-THP204	MAT-THP204OR	M6 X 1.0	10	17.7	28	65	33.4	13.5
MAT-THP205	MAT-THP205OR	M8 X 1.25	10	17.7	28	65	33.4	13.5
MAT-THP206	MAT-THP206OR	M8 X 1.25	14	21.4	33	78	39.4	16
MAT-THP207	MAT-THP207OR	M10 X 1.50	14	21.4	33	78	39.4	16
MAT-THP208	MAT-THP208OR	M10 X 1.50	17	24.5	38.7	92	46.2	19
MAT-THP209	MAT-THP209OR	M12 X 1.75	17	24.5	38.7	92	46.2	19

Customer Service: (800) 253-0421 • (231) 777-3951

Reid SUPPLY AN ESSENTRA COMPANY

Morton Machine Works
Adjustable T-Handle
Die Cast Handle, Steel Body, External Thread
Inch and Metric

NEW PRODUCT

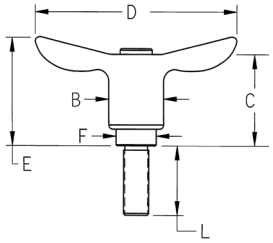
MORTON machine works

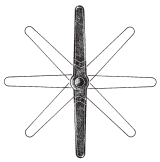


Black



Orange





LIFT AND ROTATE HANDLE 360°

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Inch								
MAT-TH301	MAT-TH301OR	#10-24	.63	.54	.87	1.98	1.05	.39
MAT-TH302	MAT-TH302OR	#10-32	.63	.54	.87	1.98	1.05	.39
MAT-TH3027	MAT-TH3027OR	#10-32	1.25	.54	.87	1.98	1.05	.39
MAT-TH303	MAT-TH303OR	1/4-20	.78	.54	.87	1.98	1.05	.39
MAT-TH3032	MAT-TH3032OR	1/4-20	.98	.54	.87	1.98	1.05	.39
MAT-TH3034	MAT-TH3034OR	1/4-20	1.25	.54	.87	1.98	1.05	.39
MAT-TH3038	MAT-TH3038OR	1/4-20	1.57	.54	.87	1.98	1.05	.39
MAT-TH3036	MAT-TH3036OR	1/4-20	1.78	.54	.87	1.98	1.05	.39
MAT-TH3035	MAT-TH3035OR	1/4-20	.98	.70	1.10	2.56	1.31	.53
MAT-TH3037	MAT-TH3037OR	5/16-18	.78	.70	1.10	2.56	1.31	.53
MAT-TH3039	MAT-TH3039OR	5/16-18	1.26	.70	1.10	2.56	1.31	.53
MAT-TH304	MAT-TH304OR	5/16-18	1.57	.70	1.10	2.56	1.31	.53
MAT-TH3043	MAT-TH3043OR	5/16-18	1.97	.70	1.10	2.56	1.31	.53
MAT-TH3045	MAT-TH3045OR	5/16-18	2.48	.70	1.10	2.56	1.31	.53
MAT-TH3047	MAT-TH3047OR	3/8-16	.78	.70	1.10	2.56	1.31	.53
MAT-TH3048	MAT-TH3048OR	3/8-16	1.25	.70	1.10	2.56	1.31	.53
MAT-TH305	MAT-TH305OR	3/8-16	1.57	.70	1.10	2.56	1.31	.53
MAT-TH3053	MAT-TH3053OR	5/16-18	1.97	.84	1.30	3.07	1.55	.63
MAT-TH3056	MAT-TH3056OR	3/8-16	.98	.84	1.30	3.07	1.55	.63
MAT-TH3058	MAT-TH3058OR	3/8-16	1.26	.84	1.30	3.07	1.55	.63
MAT-TH306	MAT-TH306OR	3/8-16	1.57	.84	1.30	3.07	1.55	.63
MAT-TH307	MAT-TH307OR	3/8-16	1.97	.84	1.30	3.07	1.55	.63
MAT-TH3079	MAT-TH3079OR	3/8-16	2.48	.84	1.30	3.07	1.55	.63
MAT-TH3075	MAT-TH3075OR	3/8-16	1.57	.96	1.52	3.62	1.82	.75
MAT-TH3078	MAT-TH3078OR	3/8-16	1.97	.96	1.52	3.62	1.82	.75
MAT-TH308	MAT-TH308OR	1/2-13	1.25	.96	1.52	3.62	1.82	.75
MAT-TH3085	MAT-TH3085OR	1/2-13	1.57	.96	1.52	3.62	1.82	.75
MAT-TH309	MAT-TH309OR	1/2-13	1.97	.96	1.52	3.62	1.82	.75
MAT-TH310	MAT-TH310OR	1/2-13	2.48	.96	1.52	3.62	1.82	.75
MAT-TH321	MAT-TH321OR	1/2-13	1.57	1.16	1.85	4.25	2.20	.91
MAT-TH322	MAT-TH322OR	1/2-13	2.48	1.16	1.85	4.25	2.20	.91
MAT-TH324	MAT-TH324OR	5/8-11	1.57	1.16	1.85	4.25	2.20	.91
MAT-TH325	MAT-TH325OR	5/8-11	2.48	1.16	1.85	4.25	2.20	.91

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Metric								
MAT-TH401	MAT-TH401OR	M5 x .8	12	13.7	22	50	26.6	10
MAT-TH402	MAT-TH402OR	M5 x .8	16	13.7	22	50	26.6	10
MAT-TH403	MAT-TH403OR	M5 x .8	20	13.7	22	50	26.6	10
MAT-TH4035	MAT-TH4035OR	M5 x .8	40	13.7	22	50	26.6	10
MAT-TH404	MAT-TH404OR	M6 x 1.0	16	13.7	22	50	26.6	10
MAT-TH405	MAT-TH405OR	M6 x 1.0	20	13.7	22	50	26.6	10
MAT-TH406	MAT-TH406OR	M6 x 1.0	25	13.7	22	50	26.6	10
MAT-TH407	MAT-TH407OR	M6 x 1.0	32	13.7	22	50	26.6	10
MAT-TH408	MAT-TH408OR	M6 x 1.0	40	13.7	22	50	26.6	10
MAT-TH409	MAT-TH409OR	M8 x 1.25	20	17.7	28	65	33.4	13.5
MAT-TH410	MAT-TH410OR	M8 x 1.25	25	17.7	28	65	33.4	13.5
MAT-TH411	MAT-TH411OR	M8 x 1.25	32	17.7	28	65	33.4	13.5
MAT-TH412	MAT-TH412OR	M8 x 1.25	40	17.7	28	65	33.4	13.5
MAT-TH413	MAT-TH413OR	M8 x 1.25	50	17.7	28	65	33.4	13.5
MAT-TH414	MAT-TH414OR	M8 x 1.25	63	17.7	28	65	33.4	13.5
MAT-TH415	MAT-TH415OR	M10 x 1.50	20	17.7	28	65	33.4	13.5
MAT-TH416	MAT-TH416OR	M10 x 1.50	32	17.7	28	65	33.4	13.5
MAT-TH417	MAT-TH417OR	M10 x 1.50	40	17.7	28	65	33.4	13.5
MAT-TH418	MAT-TH418OR	M10 x 1.50	50	17.7	28	65	33.4	13.5
MAT-TH419	MAT-TH419OR	M10 x 1.50	20	21.4	33	78	39.4	16
MAT-TH4195	MAT-TH4195OR	M10 x 1.50	25	21.4	33	78	39.4	16
MAT-TH420	MAT-TH420OR	M10 x 1.50	32	21.4	33	78	39.4	16
MAT-TH421	MAT-TH421OR	M10 x 1.50	40	21.4	33	78	39.4	16
MAT-TH422	MAT-TH422OR	M10 x 1.50	50	21.4	33	78	39.4	16
MAT-TH423	MAT-TH423OR	M10 x 1.50	63	21.4	33	78	39.4	16
MAT-TH4233	MAT-TH4233OR	M10 x 1.50	32	24.5	38.7	92	46.2	19
MAT-TH4234	MAT-TH4234OR	M10 x 1.50	40	24.5	38.7	92	46.2	19
MAT-TH4235	MAT-TH4235OR	M10 x 1.50	50	24.5	38.7	92	46.2	19
MAT-TH4236	MAT-TH4236OR	M10 x 1.50	63	24.5	38.7	92	46.2	19
MAT-TH424	MAT-TH424OR	M12 x 1.75	32	24.5	38.7	92	46.2	19
MAT-TH425	MAT-TH425OR	M12 x 1.75	40	24.5	38.7	92	46.2	19
MAT-TH426	MAT-TH426OR	M12 x 1.75	50	24.5	38.7	92	46.2	19
MAT-TH427	MAT-TH427OR	M12 x 1.75	63	24.5	38.7	92	46.2	19
MAT-TH4275	MAT-TH4275OR	M12 x 1.75	40	29.4	47	108	55.8	23
MAT-TH428	MAT-TH428OR	M12 x 1.75	63	29.4	47	108	55.8	23

Morton Machine Works
Adjustable T-Handle
Die Cast Handle, Steel Body, Internal Thread
Inch and Metric

NEW PRODUCT

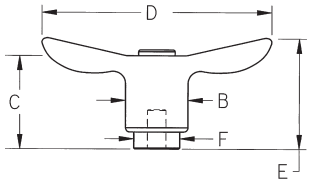
MORTON machine works



Black



Orange





LIFT AND ROTATE HANDLE 360°

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Inch								
MAT-TH101	MAT-TH101OR	#10-24	.32	.54	.87	1.98	1.05	.39
MAT-TH102	MAT-TH102OR	#10-32	.32	.54	.87	1.98	1.05	.39
MAT-TH103	MAT-TH103OR	1/4-20	.32	.54	.87	1.98	1.05	.39
MAT-TH104	MAT-TH104OR	1/4-20	.40	.70	1.10	2.56	1.31	.53
MAT-TH105	MAT-TH105OR	5/16-18	.40	.70	1.10	2.56	1.31	.53
MAT-TH106	MAT-TH106OR	5/16-18	.55	.84	1.30	3.07	1.55	.63
MAT-TH107	MAT-TH107OR	3/8-16	.55	.84	1.30	3.07	1.55	.63
MAT-TH108	MAT-TH108OR	3/8-16	.67	.96	1.52	3.62	1.82	.75
MAT-TH109	MAT-TH109OR	1/2-13	.67	.96	1.52	3.62	1.82	.75
MAT-TH112	MAT-TH112OR	1/2-13	.90	1.16	1.85	4.25	2.20	.91
MAT-TH113	MAT-TH113OR	5/8-11	.90	1.16	1.85	4.25	2.20	.91

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Metric								
MAT-TH201	MAT-TH201OR	M4 X .7	8	13.7	22	50	26.6	10
MAT-TH202	MAT-TH202OR	M5 X .8	8	13.7	22	50	26.6	10
MAT-TH203	MAT-TH203OR	M6 X 1.0	8	13.7	22	50	26.6	10
MAT-TH204	MAT-TH204OR	M6 X 1.0	10	17.7	28	65	33.4	13.5
MAT-TH205	MAT-TH205OR	M8 X 1.25	10	17.7	28	65	33.4	13.5
MAT-TH206	MAT-TH206OR	M8 X 1.25	14	21.4	33	78	39.4	16
MAT-TH207	MAT-TH207OR	M10 X 1.50	14	21.4	33	78	39.4	16
MAT-TH208	MAT-TH208OR	M10 X 1.50	17	24.5	38.7	92	46.2	19
MAT-TH209	MAT-TH209OR	M12 X 1.75	17	24.5	38.7	92	46.2	19
MAT-TH210	MAT-TH210OR	M12 X 1.75	23	29.4	47	108	55.8	23
MAT-TH211	MAT-TH211OR	M16 X 2.0	23	29.4	47	108	55.8	23

ADJUSTABLE T-HANDLES

Morton Machine Works
Adjustable T-Handle
Plastic Handle, Stainless Steel Body, External Thread
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

NEW PRODUCT

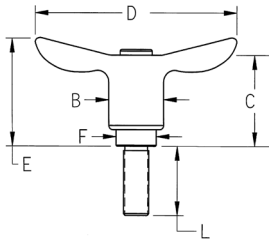
MORTON machine works

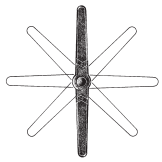


Black



Orange





LIFT AND ROTATE HANDLE 360°

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Inch								
MAT-THP301SS	MAT-THP301SSOR	#10-24	.63	.54	.87	1.98	1.05	.39
MAT-THP302SS	MAT-THP302SSOR	#10-32	.63	.54	.87	1.98	1.05	.39
MAT-THP3027SS	MAT-THP3027SSOR	#10-32	1.25	.54	.87	1.98	1.05	.39
MAT-THP303SS	MAT-THP303SSOR	1/4-20	.78	.54	.87	1.98	1.05	.39
MAT-THP3032SS	MAT-THP3032SSOR	1/4-20	.98	.54	.87	1.98	1.05	.39
MAT-THP3034SS	MAT-THP3034SSOR	1/4-20	1.25	.54	.87	1.98	1.05	.39
MAT-THP3038SS	MAT-THP3038SSOR	1/4-20	1.57	.54	.87	1.98	1.05	.39
MAT-THP3036SS	MAT-THP3036SSOR	1/4-20	1.78	.54	.87	1.98	1.05	.39
MAT-THP3035SS	MAT-THP3035SSOR	1/4-20	.98	.70	1.10	2.56	1.31	.53
MAT-THP3037SS	MAT-THP3037SSOR	5/16-18	.78	.70	1.10	2.56	1.31	.53
MAT-THP304SS	MAT-THP304SSOR	5/16-18	1.57	.70	1.10	2.56	1.31	.53
MAT-THP3043SS	MAT-THP3043SSOR	5/16-18	1.97	.70	1.10	2.56	1.31	.53
MAT-THP3045SS	MAT-THP3045SSOR	5/16-18	2.48	.70	1.10	2.56	1.31	.53
MAT-THP3047SS	MAT-THP3047SSOR	3/8-16	.78	.70	1.10	2.56	1.31	.53
MAT-THP3048SS	MAT-THP3048SSOR	3/8-16	1.25	.70	1.10	2.56	1.31	.53
MAT-THP305SS	MAT-THP305SSOR	3/8-16	1.57	.70	1.10	2.56	1.31	.53
MAT-THP3053SS	MAT-THP3053SSOR	5/16-18	1.97	.84	1.30	3.07	1.55	.63
MAT-THP306SS	MAT-THP306SSOR	3/8-16	1.57	.84	1.30	3.07	1.55	.63
MAT-THP307SS	MAT-THP307SSOR	3/8-16	1.97	.84	1.30	3.07	1.55	.63
MAT-THP3075SS	MAT-THP3075SSOR	3/8-16	1.57	.96	1.52	3.62	1.82	.75
MAT-THP3078SS	MAT-THP3078SSOR	3/8-16	1.97	.96	1.52	3.62	1.82	.75
MAT-THP308SS	MAT-THP308SSOR	1/2-13	1.25	.96	1.52	3.62	1.82	.75
MAT-THP3085SS	MAT-THP3085SSOR	1/2-13	1.57	.96	1.52	3.62	1.82	.75
MAT-THP309SS	MAT-THP309SSOR	1/2-13	1.97	.96	1.52	3.62	1.82	.75

Black Item No.	Orange Item No.	Thread	Thread Length (L)	B	C	D	E	F
Metric								
MAT-THP402SS	MAT-THP402SSOR	M5 x .8	16	13.7	22	50	26.6	10
MAT-THP403SS	MAT-THP403SSOR	M5 x .8	20	13.7	22	50	26.6	10
MAT-THP4035SS	MAT-THP4035SSOR	M5 x .8	40	13.7	22	50	26.6	10
MAT-THP405SS	MAT-THP405SSOR	M6 x 1.0	20	13.7	22	50	26.6	10
MAT-THP406SS	MAT-THP406SSOR	M6 x 1.0	25	13.7	22	50	26.6	10
MAT-THP407SS	MAT-THP407SSOR	M6 x 1.0	32	13.7	22	50	26.6	10
MAT-THP408SS	MAT-THP408SSOR	M6 x 1.0	40	13.7	22	50	26.6	10
MAT-THP409SS	MAT-THP409SSOR	M8 x 1.25	20	17.7	28	65	33.4	13.5
MAT-THP410SS	MAT-THP410SSOR	M8 x 1.25	25	17.7	28	65	33.4	13.5
MAT-THP411SS	MAT-THP411SSOR	M8 x 1.25	32	17.7	28	65	33.4	13.5
MAT-THP412SS	MAT-THP412SSOR	M8 x 1.25	40	17.7	28	65	33.4	13.5
MAT-THP413SS	MAT-THP413SSOR	M8 x 1.25	50	17.7	28	65	33.4	13.5
MAT-THP414SS	MAT-THP414SSOR	M8 x 1.25	63	17.7	28	65	33.4	13.5
MAT-THP4195SS	MAT-THP4195SSOR	M10 x 1.50	25	21.4	33	78	39.4	16
MAT-THP420SS	MAT-THP420SSOR	M10 x 1.50	32	21.4	33	78	39.4	16
MAT-THP421SS	MAT-THP421SSOR	M10 x 1.50	40	21.4	33	78	39.4	16
MAT-THP422SS	MAT-THP422SSOR	M10 x 1.50	50	21.4	33	78	39.4	16
MAT-THP4236SS	MAT-THP4236SSOR	M10 x 1.50	63	24.5	38.7	92	46.2	19
MAT-THP424SS	MAT-THP424SSOR	M12 x 1.75	32	24.5	38.7	92	46.2	19
MAT-THP425SS	MAT-THP425SSOR	M12 x 1.75	40	24.5	38.7	92	46.2	19
MAT-THP426SS	MAT-THP426SSOR	M12 x 1.75	50	24.5	38.7	92	46.2	19

Morton Machine Works
Adjustable T-Handle
Plastic Handle, Stainless Steel Body, Internal Thread
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

NEW PRODUCT

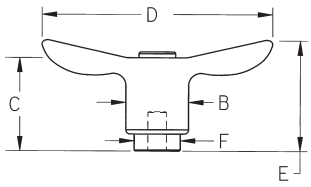
MORTON machine works



Black



Orange





LIFT AND ROTATE HANDLE 360°

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Inch								
MAT-THP101SS	MAT-THP101SSOR	#10-24	.32	.54	.87	1.98	1.05	.39
MAT-THP102SS	MAT-THP102SSOR	#10-32	.32	.54	.87	1.98	1.05	.39
MAT-THP103SS	MAT-THP103SSOR	1/4-20	.32	.54	.87	1.98	1.05	.39
MAT-THP104SS	MAT-THP104SSOR	1/4-20	.40	.70	1.10	2.56	1.31	.53
MAT-THP105SS	MAT-THP105SSOR	5/16-18	.40	.70	1.10	2.56	1.31	.53
MAT-THP106SS	MAT-THP106SSOR	5/16-18	.55	.84	1.30	3.07	1.55	.63
MAT-THP107SS	MAT-THP107SSOR	3/8-16	.55	.84	1.30	3.07	1.55	.63
MAT-THP108SS	MAT-THP108SSOR	3/8-16	.67	.96	1.52	3.62	1.82	.75
MAT-THP109SS	MAT-THP109SSOR	1/2-13	.67	.96	1.52	3.62	1.82	.75

Black Item No.	Orange Item No.	Thread	Thread Depth	B	C	D	E	F
Metric								
MAT-THP202SS	MAT-THP202SSOR	M5 X .8	8	13.7	22	50	26.6	10
MAT-THP203SS	MAT-THP203SSOR	M6 X 1.0	8	13.7	22	50	26.6	10
MAT-THP205SS	MAT-THP205SSOR	M8 X 1.25	10	17.7	28	65	33.4	13.5
MAT-THP207SS	MAT-THP207SSOR	M10 X 1.50	14	21.4	33	78	39.4	16
MAT-THP208SS	MAT-THP208SSOR	M10 X 1.50	17	24.5	38.7	92	46.2	19
MAT-THP209SS	MAT-THP209SSOR	M12 X 1.75	17	24.5	38.7	92	46.2	19

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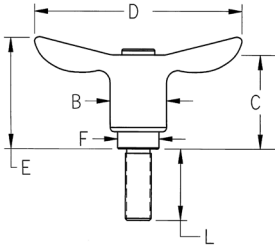
Reid SUPPLY AN ESSENTRA COMPANY

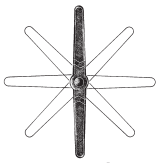
Morton Machine Works
Adjustable T-Handle
Stainless Steel Handle, Stainless Steel Body, External Thread
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

NEW PRODUCT







LIFT AND ROTATE HANDLE 360˚

Stainless Steel Item No.	Thread	Thread Length (L)	B	C	D	E	F
Inch							
MAT-STH301SS	#10-24	.63	.54	.87	1.98	1.05	.39
MAT-STH302SS	#10-32	.63	.54	.87	1.98	1.05	.39
MAT-STH3027SS	#10-32	1.25	.54	.87	1.98	1.05	.39
MAT-STH303SS	1/4-20	.78	.54	.87	1.98	1.05	.39
MAT-STH3032SS	1/4-20	.98	.54	.87	1.98	1.05	.39
MAT-STH3034SS	1/4-20	1.25	.54	.87	1.98	1.05	.39
MAT-STH3038SS	1/4-20	1.57	.54	.87	1.98	1.05	.39
MAT-STH3036SS	1/4-20	1.78	.54	.87	1.98	1.05	.39
MAT-STH3037SS	5/16-18	.78	.70	1.10	2.56	1.31	.53
MAT-STH304SS	5/16-18	1.57	.70	1.10	2.56	1.31	.53
MAT-STH3043SS	5/16-18	1.97	.70	1.10	2.56	1.31	.53
MAT-STH3045SS	5/16-18	2.48	.70	1.10	2.56	1.31	.53
MAT-STH3047SS	3/8-16	.78	.70	1.10	2.56	1.31	.53
MAT-STH3048SS	3/8-16	1.25	.70	1.10	2.56	1.31	.53
MAT-STH305SS	3/8-16	1.57	.70	1.10	2.56	1.31	.53
MAT-STH306SS	3/8-16	1.57	.84	1.30	3.07	1.55	.63
MAT-STH307SS	3/8-16	1.97	.84	1.30	3.07	1.55	.63
MAT-STH308SS	1/2-13	1.25	.96	1.52	3.62	1.82	.75
MAT-STH3085SS	1/2-13	1.57	.96	1.52	3.62	1.82	.75
MAT-STH309SS	1/2-13	1.97	.96	1.52	3.62	1.82	.75

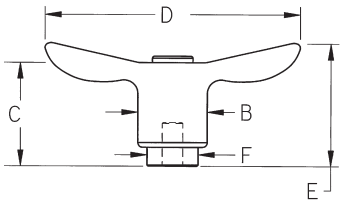
Stainless Steel Item No.	Thread	Thread Length (L)	B	C	D	E	F
Metric							
MAT-STH401SS	M5 x .8	12	13.7	22	50	26.6	10
MAT-STH402SS	M5 x .8	16	13.7	22	50	26.6	10
MAT-STH403SS	M5 x .8	20	13.7	22	50	26.6	10
MAT-STH4035SS	M5 x .8	40	13.7	22	50	26.6	10
MAT-STH404SS	M6 x 1.0	16	13.7	22	50	26.6	10
MAT-STH405SS	M6 x 1.0	20	13.7	22	50	26.6	10
MAT-STH406SS	M6 x 1.0	25	13.7	22	50	26.6	10
MAT-STH407SS	M6 x 1.0	32	13.7	22	50	26.6	10
MAT-STH408SS	M6 x 1.0	40	13.7	22	50	26.6	10
MAT-STH409SS	M8 x 1.25	20	17.7	28	65	33.4	13.5
MAT-STH410SS	M8 x 1.25	25	17.7	28	65	33.4	13.5
MAT-STH411SS	M8 x 1.25	32	17.7	28	65	33.4	13.5
MAT-STH412SS	M8 x 1.25	40	17.7	28	65	33.4	13.5
MAT-STH413SS	M8 x 1.25	50	17.7	28	65	33.4	13.5
MAT-STH414SS	M8 x 1.25	63	17.7	28	65	33.4	13.5
MAT-STH4195SS	M10 x 1.50	25	21.4	33	78	39.4	16
MAT-STH420SS	M10 x 1.50	32	21.4	33	78	39.4	16
MAT-STH421SS	M10 x 1.50	40	21.4	33	78	39.4	16
MAT-STH422SS	M10 x 1.50	50	21.4	33	78	39.4	16
MAT-STH424SS	M12 x 1.75	32	24.5	38.7	92	46.2	19
MAT-STH425SS	M12 x 1.75	40	24.5	38.7	92	46.2	19
MAT-STH426SS	M12 x 1.75	50	24.5	38.7	92	46.2	19

Morton Machine Works
Adjustable T-Handle
Stainless Steel Handle, Stainless Steel Body, Internal Thread
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE

NEW PRODUCT







LIFT AND ROTATE HANDLE 360˚

Stainless Steel Item No.	Thread	Thread Depth	B	C	D	E	F
Inch							
MAT-STH101SS	#10-24	.32	.54	.87	1.98	1.05	.39
MAT-STH102SS	#10-32	.32	.54	.87	1.98	1.05	.39
MAT-STH103SS	1/4-20	.32	.54	.87	1.98	1.05	.39
MAT-STH104SS	1/4-20	.40	.70	1.10	2.56	1.31	.53
MAT-STH105SS	5/16-18	.40	.70	1.10	2.56	1.31	.53
MAT-STH106SS	5/16-18	.55	.84	1.30	3.07	1.55	.63
MAT-STH107SS	3/8-16	.55	.84	1.30	3.07	1.55	.63
MAT-STH108SS	3/8-16	.67	.96	1.52	3.62	1.82	.75
MAT-STH109SS	1/2-13	.67	.96	1.52	3.62	1.82	.75

Stainless Steel Item No.	Thread	Thread Depth	B	C	D	E	F
Metric							
MAT-STH202SS	M5 X .8	8	13.7	22	50	26.6	10
MAT-STH203SS	M6 X 1.0	8	13.7	22	50	26.6	10
MAT-STH204SS	M6 X 1.0	10	17.7	28	65	33.4	13.5
MAT-STH205SS	M8 X 1.25	10	17.7	28	65	33.4	13.5
MAT-STH206SS	M8 X 1.25	14	21.4	33	78	39.4	16
MAT-STH207SS	M10 X 1.50	14	21.4	33	78	39.4	16
MAT-STH208SS	M10 X 1.50	17	24.5	38.7	92	46.2	19
MAT-STH209SS	M12 X 1.75	17	24.5	38.7	92	46.2	19

STANDARD QUOTES IN 4 HOURS OR LESS

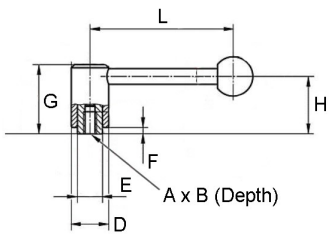
MOST PRODUCTS SHIP SAME DAY

ADJUSTABLE TENSION LEVERS

Heavy duty adjustable tension levers in made of stainless steel. These handles are constructed of Type 303 stainless steel which is perfect for food processing, medical devices and any other applications where hygiene and or corrosion resistance is needed.

KIPP
Adjustable Tension Lever
Stainless Steel
Internal Thread
Inch
Straight Arm

STAINLESS STEEL OPTION AVAILABLE

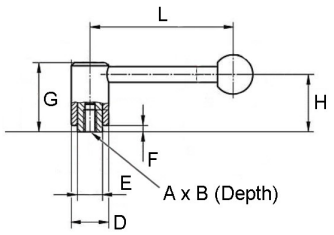




Item No.	A	B	D	E	F	G	H	L
KHC-200	5/16-18	.55	.94	.63	.18	1.95	2.30	3.62
KHC-202	3/8-16	.55	.94	.63	.18	1.95	2.30	3.62
KHC-204	3/8-16	.67	1.10	.75	.22	2.26	2.70	4.37
KHC-206	1/2-13	.67	1.10	.75	.22	2.26	2.70	4.37
KHC-208	1/2-13	.91	1.30	.91	.24	2.56	3.19	5.30
KHC-210	5/8-11	.91	1.30	.91	.24	2.56	3.19	5.30
KHC-212	5/8-11	1.06	1.61	1.18	.30	3.01	3.52	5.28
KHC-214	3/4-10	1.06	1.61	1.18	.30	3.01	3.52	5.28

KIPP
Adjustable Tension Lever
Stainless Steel
Internal Thread
Metric
Straight Arm

STAINLESS STEEL OPTION AVAILABLE

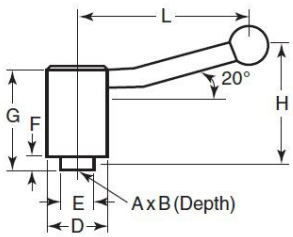




Item No.	A	B	D	E	F	G	H	L
KHC-232	M8	14	24	16	4.5	44.5	37	92
KHC-234	M10	14	24	16	4.5	44.5	37	92
KHC-236	M10	17	28	19	5.5	51.5	42	111
KHC-238	M12	17	28	19	5.5	51.5	42	111
KHC-240	M12	23	33	23	6	58	47	134.5
KHC-242	M16	23	33	23	6	58	47	134.5
KHC-244	M16	27	41	30	7.5	68.5	56.5	134
KHC-246	M20	27	41	30	7.5	68.5	56.5	134

KIPP
Adjustable Tension Lever
Stainless Steel
Internal Thread
Inch
Angled Arm

STAINLESS STEEL OPTION AVAILABLE

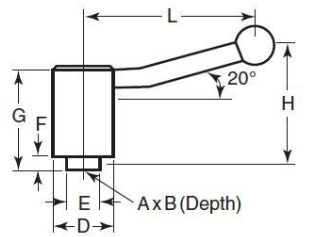




Item No.	A	B	D	E	F	G	H	L
KHC-216	5/16-18	.55	.94	.63	.18	1.95	2.30	3.46
KHC-218	3/8-16	.55	.94	.63	.18	1.95	2.30	3.46
KHC-220	3/8-16	.67	1.10	.75	.22	2.26	2.70	4.16
KHC-222	1/2-13	.67	1.10	.75	.22	2.26	2.70	4.16
KHC-224	1/2-13	.91	1.30	.91	.24	2.56	3.19	5.05
KHC-226	5/8-11	.91	1.30	.91	.24	2.56	3.19	5.05
KHC-228	5/8-11	1.06	1.61	1.18	.30	3.01	3.52	5.05
KHC-230	3/4-10	1.06	1.61	1.18	.30	3.01	3.52	5.05

KIPP
Adjustable Tension Lever
Stainless Steel
Internal Thread
Metric
Angled Arm

STAINLESS STEEL OPTION AVAILABLE





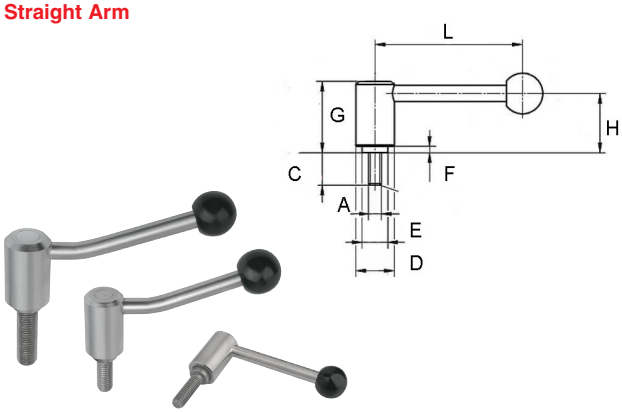
Item No.	A	B	D	E	F	G	H	L
KHC-248	M8	14	24	16	4.5	44.5	37	88
KHC-250	M10	14	24	16	4.5	44.5	37	88
KHC-252	M10	17	28	19	5.5	51.5	42	106
KHC-254	M12	17	28	19	5.5	51.5	42	106
KHC-256	M12	23	33	23	6	58	47	128.5
KHC-258	M16	23	33	23	6	58	47	128.5
KHC-260	M16	27	41	30	7.5	68.5	56.5	128.5
KHC-262	M20	27	41	30	7.5	68.5	56.5	128.5

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Reid SUPPLY AN ESSENTRA COMPANY

ADJUSTABLE TENSION LEVERS

KIPP
Adjustable Tension Lever
Stainless Steel
External Thread
Inch
Straight Arm

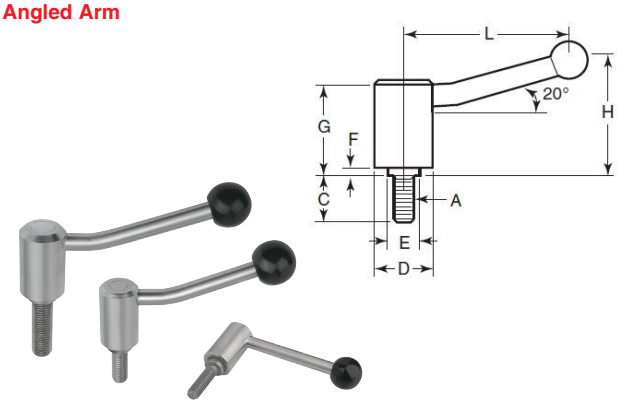
STAINLESS STEEL OPTION AVAILABLE



Item No.	A	C	D	E	F	G	H	L
KHC-264	5/16-18	.59	.94	.63	.18	1.95	2.30	3.62
KHC-266	5/16-18	.79	.94	.63	.18	1.95	2.30	3.62
KHC-268	5/16-18	.98	.94	.63	.18	1.95	2.30	3.62
KHC-270	5/16-18	1.18	.94	.63	.18	1.95	2.30	3.62
KHC-272	5/16-18	1.57	.94	.63	.18	1.95	2.30	3.62
KHC-274	5/16-18	1.96	.94	.63	.18	1.95	2.30	3.62
KHC-276	5/16-18	2.35	.94	.63	.18	1.95	2.30	3.62
KHC-278	3/8-16	.59	.94	.63	.18	1.95	2.30	3.62
KHC-280	3/8-16	.79	.94	.63	.18	1.95	2.30	3.62
KHC-282	3/8-16	.98	.94	.63	.18	1.95	2.30	3.62
KHC-284	3/8-16	1.18	.94	.63	.18	1.95	2.30	3.62
KHC-286	3/8-16	1.57	.94	.63	.18	1.95	2.30	3.62
KHC-288	3/8-16	1.96	.94	.63	.18	1.95	2.30	3.62
KHC-290	3/8-16	2.35	.94	.63	.18	1.95	2.30	3.62
KHC-292	1/2-13	.59	.94	.63	.18	1.95	2.30	3.62
KHC-294	1/2-13	.79	.94	.63	.18	1.95	2.30	3.62
KHC-296	1/2-13	.98	.94	.63	.18	1.95	2.30	3.62
KHC-298	1/2-13	1.18	.94	.63	.18	1.95	2.30	3.62
KHC-300	1/2-13	1.57	.94	.63	.18	1.95	2.30	3.62
KHC-302	1/2-13	1.96	.94	.63	.18	1.95	2.30	3.62
KHC-304	1/2-13	2.35	.94	.63	.18	1.95	2.30	3.62
KHC-306	1/2-13	.79	1.10	.75	.22	2.26	2.70	4.37
KHC-308	1/2-13	.98	1.10	.75	.22	2.26	2.70	4.37
KHC-310	1/2-13	1.18	1.10	.75	.22	2.26	2.70	4.37
KHC-312	1/2-13	1.57	1.10	.75	.22	2.26	2.70	4.37
KHC-314	1/2-13	1.96	1.10	.75	.22	2.26	2.70	4.37
KHC-316	1/2-13	2.35	1.10	.75	.22	2.26	2.70	4.37
KHC-318	1/2-13	.79	1.30	.91	.24	2.56	3.19	5.30
KHC-320	1/2-13	.98	1.30	.91	.24	2.56	3.19	5.30
KHC-322	1/2-13	1.18	1.30	.91	.24	2.56	3.19	5.30
KHC-324	1/2-13	1.57	1.30	.91	.24	2.56	3.19	5.30
KHC-326	1/2-13	1.96	1.30	.91	.24	2.56	3.19	5.30
KHC-328	1/2-13	2.35	1.30	.91	.24	2.56	3.19	5.30
KHC-330	1/2-13	2.75	1.30	.91	.24	2.56	3.19	5.30
KHC-332	1/2-13	3.14	1.30	.91	.24	2.56	3.19	5.30
KHC-334	1/2-13	3.53	1.30	.91	.24	2.56	3.19	5.30
KHC-336	5/8-11	.79	1.30	.91	.24	2.56	3.19	5.30
KHC-338	5/8-11	.98	1.30	.91	.24	2.56	3.19	5.30
KHC-340	5/8-11	1.18	1.30	.91	.24	2.56	3.19	5.30
KHC-342	5/8-11	1.57	1.30	.91	.24	2.56	3.19	5.30
KHC-344	5/8-11	1.96	1.30	.91	.24	2.56	3.19	5.30
KHC-346	5/8-11	2.35	1.30	.91	.24	2.56	3.19	5.30
KHC-348	5/8-11	2.75	1.30	.91	.24	2.56	3.19	5.30
KHC-350	5/8-11	3.14	1.30	.91	.24	2.56	3.19	5.30
KHC-352	5/8-11	3.53	1.30	.91	.24	2.56	3.19	5.30
KHC-354	5/8-11	1.18	1.61	1.18	.30	2.69	3.52	5.28
KHC-356	5/8-11	1.57	1.61	1.18	.30	2.69	3.52	5.28
KHC-358	5/8-11	1.96	1.61	1.18	.30	2.69	3.52	5.28
KHC-360	5/8-11	2.35	1.61	1.18	.30	2.69	3.52	5.28
KHC-362	5/8-11	2.75	1.61	1.18	.30	2.69	3.52	5.28
KHC-364	5/8-11	3.14	1.61	1.18	.30	2.69	3.52	5.28
KHC-366	5/8-11	3.53	1.61	1.18	.30	2.69	3.52	5.28
KHC-368	3/4-10	1.18	1.61	1.18	.30	2.69	3.52	5.28
KHC-370	3/4-10	1.57	1.61	1.18	.30	2.69	3.52	5.28
KHC-372	3/4-10	1.96	1.61	1.18	.30	2.69	3.52	5.28
KHC-374	3/4-10	2.35	1.61	1.18	.30	2.69	3.52	5.28
KHC-376	3/4-10	2.75	1.61	1.18	.30	2.69	3.52	5.28
KHC-378	3/4-10	3.14	1.61	1.18	.30	2.69	3.52	5.28
KHC-380	3/4-10	3.53	1.61	1.18	.30	2.69	3.52	5.28

KIPP
Adjustable Tension Lever
Stainless Steel
External Thread
Inch
Angled Arm

STAINLESS STEEL OPTION AVAILABLE



Item No.	A	C	D	E	F	G	H	L
KHC-382	5/16-18	.59	.94	.63	.18	1.95	2.30	3.46
KHC-384	5/16-18	.79	.94	.63	.18	1.95	2.30	3.46
KHC-386	5/16-18	.98	.94	.63	.18	1.95	2.30	3.46
KHC-388	5/16-18	1.18	.94	.63	.18	1.95	2.30	3.46
KHC-390	5/16-18	1.57	.94	.63	.18	1.95	2.30	3.46
KHC-392	5/16-18	1.96	.94	.63	.18	1.95	2.30	3.46
KHC-394	5/16-18	2.35	.94	.63	.18	1.95	2.30	3.46
KHC-396	3/8-16	.59	.94	.63	.18	1.95	2.30	3.46
KHC-398	3/8-16	.79	.94	.63	.18	1.95	2.30	3.46
KHC-400	3/8-16	.98	.94	.63	.18	1.95	2.30	3.46
KHC-402	3/8-16	1.18	.94	.63	.18	1.95	2.30	3.46
KHC-404	3/8-16	1.57	.94	.63	.18	1.95	2.30	3.46
KHC-406	3/8-16	1.96	.94	.63	.18	1.95	2.30	3.46
KHC-408	3/8-16	2.35	.94	.63	.18	1.95	2.30	3.46
KHC-410	1/2-13	.59	.94	.63	.18	1.95	2.30	4.16
KHC-412	1/2-13	.79	.94	.63	.18	1.95	2.30	4.16
KHC-414	1/2-13	.98	.94	.63	.18	1.95	2.30	4.16
KHC-416	1/2-13	1.18	.94	.63	.18	1.95	2.30	4.16
KHC-418	1/2-13	1.57	.94	.63	.18	1.95	2.30	4.16
KHC-420	1/2-13	1.96	.94	.63	.18	1.95	2.30	4.16
KHC-422	1/2-13	2.35	.94	.63	.18	1.95	2.30	4.16
KHC-424	1/2-13	.79	1.10	.75	.22	2.26	2.70	4.16
KHC-426	1/2-13	.98	1.10	.75	.22	2.26	2.70	4.16
KHC-428	1/2-13	1.18	1.10	.75	.22	2.26	2.70	4.16
KHC-430	1/2-13	1.57	1.10	.75	.22	2.26	2.70	4.16
KHC-432	1/2-13	1.96	1.10	.75	.22	2.26	2.70	4.16
KHC-434	1/2-13	2.35	1.10	.75	.22	2.26	2.70	4.16
KHC-436	1/2-13	.79	1.30	.91	.24	2.56	3.19	5.05
KHC-438	1/2-13	.98	1.30	.91	.24	2.56	3.19	5.05
KHC-440	1/2-13	1.18	1.30	.91	.24	2.56	3.19	5.05
KHC-442	1/2-13	1.57	1.30	.91	.24	2.56	3.19	5.05
KHC-444	1/2-13	1.96	1.30	.91	.24	2.56	3.19	5.05
KHC-446	1/2-13	2.35	1.30	.91	.24	2.56	3.19	5.05
KHC-448	1/2-13	2.75	1.30	.91	.24	2.56	3.19	5.05
KHC-450	1/2-13	3.14	1.30	.91	.24	2.56	3.19	5.05
KHC-452	1/2-13	3.53	1.30	.91	.24	2.56	3.19	5.05
KHC-454	5/8-11	.79	1.30	.91	.24	2.56	3.19	5.05
KHC-456	5/8-11	.98	1.30	.91	.24	2.56	3.19	5.05
KHC-458	5/8-11	1.18	1.30	.91	.24	2.56	3.19	5.05
KHC-460	5/8-11	1.57	1.30	.91	.24	2.56	3.19	5.05
KHC-462	5/8-11	1.96	1.30	.91	.24	2.56	3.19	5.05
KHC-464	5/8-11	2.35	1.30	.91	.24	2.56	3.19	5.05
KHC-466	5/8-11	2.75	1.30	.91	.24	2.56	3.19	5.05
KHC-468	5/8-11	3.14	1.30	.91	.24	2.56	3.19	5.05
KHC-470	5/8-11	3.53	1.30	.91	.24	2.56	3.19	5.05
KHC-472	5/8-11	1.18	1.61	1.18	.30	2.69	3.52	5.05
KHC-474	5/8-11	1.57	1.61	1.18	.30	2.69	3.52	5.05
KHC-476	5/8-11	1.96	1.61	1.18	.30	2.69	3.52	5.05
KHC-478	5/8-11	2.35	1.61	1.18	.30	2.69	3.52	5.05
KHC-480	5/8-11	2.75	1.61	1.18	.30	2.69	3.52	5.05
KHC-482	5/8-11	3.14	1.61	1.18	.30	2.69	3.52	5.05
KHC-484	5/8-11	3.53	1.61	1.18	.30	2.69	3.52	5.05
KHC-486	3/4-10	1.18	1.61	1.18	.30	2.69	3.52	5.05
KHC-488	3/4-10	1.57	1.61	1.18	.30	2.69	3.52	5.05
KHC-490	3/4-10	1.96	1.61	1.18	.30	2.69	3.52	5.05
KHC-492	3/4-10	2.35	1.61	1.18	.30	2.69	3.52	5.05
KHC-494	3/4-10	2.75	1.61	1.18	.30	2.69	3.52	5.05
KHC-496	3/4-10	3.14	1.61	1.18	.30	2.69	3.52	5.05
KHC-498	3/4-10	3.53	1.61	1.18	.30	2.69	3.52	5.05

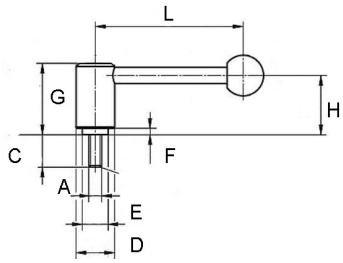
STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

ADJUSTABLE TENSION LEVERS

KIPP
Adjustable Tension Lever
Stainless Steel
External Thread
Metric
Straight Arm

STAINLESS STEEL OPTION AVAILABLE

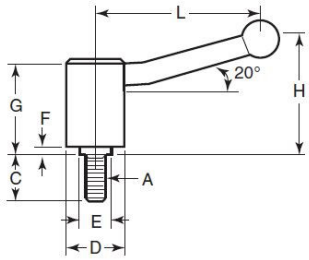




Item No.	A	C	D	E	F	G	H	L
KHC-500	M8	15	24	16	4.5	44.5	37	92
KHC-502	M8	20	24	16	4.5	44.5	37	92
KHC-504	M8	25	24	16	4.5	44.5	37	92
KHC-506	M8	30	24	16	4.5	44.5	37	92
KHC-508	M8	40	24	16	4.5	44.5	37	92
KHC-510	M8	50	24	16	4.5	44.5	37	92
KHC-512	M8	60	24	16	4.5	44.5	37	92
KHC-514	M10	15	24	16	4.5	44.5	37	92
KHC-516	M10	20	24	16	4.5	44.5	37	92
KHC-518	M10	25	24	16	4.5	44.5	37	92
KHC-520	M10	30	24	16	4.5	44.5	37	92
KHC-522	M10	40	24	16	4.5	44.5	37	92
KHC-524	M10	50	24	16	4.5	44.5	37	92
KHC-526	M10	60	24	16	4.5	44.5	37	92
KHC-528	M12	15	28	19	5.5	51.5	42	92
KHC-530	M12	20	28	19	5.5	51.5	42	92
KHC-532	M12	25	28	19	5.5	51.5	42	92
KHC-534	M12	30	28	19	5.5	51.5	42	92
KHC-536	M12	40	28	19	5.5	51.5	42	92
KHC-538	M12	50	28	19	5.5	51.5	42	92
KHC-540	M12	60	28	19	5.5	51.5	42	92
KHC-542	M12	20	28	19	5.5	51.5	42	111
KHC-544	M12	25	28	19	5.5	51.5	42	111
KHC-546	M12	30	28	19	5.5	51.5	42	111
KHC-548	M12	40	28	19	5.5	51.5	42	111
KHC-550	M12	50	28	19	5.5	51.5	42	111
KHC-552	M12	60	28	19	5.5	51.5	42	111
KHC-554	M12	20	33	23	6	58	47	134.5
KHC-556	M12	25	33	23	6	58	47	134.5
KHC-558	M12	30	33	23	6	58	47	134.5
KHC-560	M12	40	33	23	6	58	47	134.5
KHC-562	M12	50	33	23	6	58	47	134.5
KHC-564	M12	60	33	23	6	58	47	134.5
KHC-566	M12	70	33	23	6	58	47	134.5
KHC-568	M12	80	33	23	6	58	47	134.5
KHC-570	M12	90	33	23	6	58	47	134.5
KHC-572	M16	20	33	23	6	58	47	134.5
KHC-574	M16	25	33	23	6	58	47	134.5
KHC-576	M16	30	33	23	6	58	47	134.5
KHC-578	M16	40	33	23	6	58	47	134.5
KHC-580	M16	50	33	23	6	58	47	134.5
KHC-582	M16	60	33	23	6	58	47	134.5
KHC-584	M16	70	33	23	6	58	47	134.5
KHC-586	M16	80	33	23	6	58	47	134.5
KHC-588	M16	90	33	23	6	58	47	134.5
KHC-590	M16	30	41	30	7.5	68.5	56.5	134
KHC-592	M16	40	41	30	7.5	68.5	56.5	134
KHC-594	M16	50	41	30	7.5	68.5	56.5	134
KHC-596	M16	60	41	30	7.5	68.5	56.5	134
KHC-598	M16	70	41	30	7.5	68.5	56.5	134
KHC-600	M16	80	41	30	7.5	68.5	56.5	134
KHC-602	M16	90	41	30	7.5	68.5	56.5	134
KHC-604	M20	30	41	30	7.5	68.5	56.5	134
KHC-606	M20	40	41	30	7.5	68.5	56.5	134
KHC-608	M20	50	41	30	7.5	68.5	56.5	134
KHC-610	M20	60	41	30	7.5	68.5	56.5	134
KHC-612	M20	70	41	30	7.5	68.5	56.5	134
KHC-614	M20	80	41	30	7.5	68.5	56.5	134
KHC-616	M20	90	41	30	7.5	68.5	56.5	134

KIPP
Adjustable Tension Lever
Stainless Steel
External Thread
Metric
Angled Arm

STAINLESS STEEL OPTION AVAILABLE





Item No.	A	C	D	E	F	G	H	L
KHC-618	M8	15	24	16	4.5	44.5	37	88
KHC-620	M8	20	24	16	4.5	44.5	37	88
KHC-622	M8	25	24	16	4.5	44.5	37	88
KHC-624	M8	30	24	16	4.5	44.5	37	88
KHC-626	M8	40	24	16	4.5	44.5	37	88
KHC-628	M8	50	24	16	4.5	44.5	37	88
KHC-630	M8	60	24	16	4.5	44.5	37	88
KHC-632	M10	15	24	16	4.5	44.5	37	88
KHC-634	M10	20	24	16	4.5	44.5	37	88
KHC-636	M10	25	24	16	4.5	44.5	37	88
KHC-638	M10	30	24	16	4.5	44.5	37	88
KHC-640	M10	40	24	16	4.5	44.5	37	88
KHC-642	M10	50	24	16	4.5	44.5	37	88
KHC-644	M10	60	24	16	4.5	44.5	37	88
KHC-646	M12	15	28	19	5.5	51.5	42	106
KHC-648	M12	20	28	19	5.5	51.5	42	106
KHC-650	M12	25	28	19	5.5	51.5	42	106
KHC-652	M12	30	28	19	5.5	51.5	42	106
KHC-654	M12	40	28	19	5.5	51.5	42	106
KHC-656	M12	50	28	19	5.5	51.5	42	106
KHC-658	M12	60	28	19	5.5	51.5	42	106
KHC-660	M12	20	28	19	5.5	51.5	42	106
KHC-662	M12	25	28	19	5.5	51.5	42	106
KHC-664	M12	30	28	19	5.5	51.5	42	106
KHC-666	M12	40	28	19	5.5	51.5	42	106
KHC-668	M12	50	28	19	5.5	51.5	42	106
KHC-670	M12	60	28	19	5.5	51.5	42	106
KHC-672	M12	20	33	23	6	58	47	106
KHC-674	M12	25	33	23	6	58	47	128.5
KHC-676	M12	30	33	23	6	58	47	128.5
KHC-678	M12	40	33	23	6	58	47	128.5
KHC-680	M12	50	33	23	6	58	47	128.5
KHC-682	M12	60	33	23	6	58	47	128.5
KHC-684	M12	70	33	23	6	58	47	128.5
KHC-686	M12	80	33	23	6	58	47	128.5
KHC-688	M12	90	33	23	6	58	47	128.5
KHC-690	M16	20	33	23	6	58	47	128.5
KHC-692	M16	25	33	23	6	58	47	128.5
KHC-694	M16	30	33	23	6	58	47	128.5
KHC-696	M16	40	33	23	6	58	47	128.5
KHC-698	M16	50	33	23	6	58	47	128.5
KHC-700	M16	60	33	23	6	58	47	128.5
KHC-702	M16	70	33	23	6	58	47	128.5
KHC-704	M16	80	33	23	6	58	47	128.5
KHC-706	M16	90	33	23	6	58	47	128.5
KHC-708	M16	30	41	30	7.5	68.5	56.5	128.5
KHC-710	M16	40	41	30	7.5	68.5	56.5	128.5
KHC-712	M16	50	41	30	7.5	68.5	56.5	128.5
KHC-714	M16	60	41	30	7.5	68.5	56.5	128.5
KHC-716	M16	70	41	30	7.5	68.5	56.5	128.5
KHC-718	M16	80	41	30	7.5	68.5	56.5	128.5
KHC-720	M16	90	41	30	7.5	68.5	56.5	128.5
KHC-722	M20	30	41	30	7.5	68.5	56.5	128.5
KHC-724	M20	40	41	30	7.5	68.5	56.5	128.5
KHC-726	M20	50	41	30	7.5	68.5	56.5	128.5
KHC-728	M20	60	41	30	7.5	68.5	56.5	128.5
KHC-730	M20	70	41	30	7.5	68.5	56.5	128.5
KHC-732	M20	80	41	30	7.5	68.5	56.5	128.5
KHC-734	M20	90	41	30	7.5	68.5	56.5	128.5

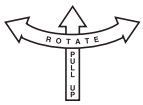
NOBODY WILL SERVE THE **CUSTOMER BETTER.**

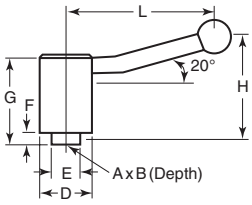
ADJUSTABLE TENSION LEVERS

These heavy duty adjustable levers are designed for applications which require greater torquing power than our standard levers. Stronger body and longer arms provide greater leverage. Ideal for clamping in confined spaces. Pulling up on the handle disengages it for adjustment while the insert remains stationary. Releasing the lever automatically engages it. The handle body, arm, insert and spring are made from stainless steel. Satin finish. Ball knob is black phenolic.

KIPP
Steel Black Oxide Finish
Heavy Duty
Tapped Hole
Inch and Metric



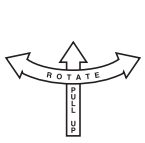


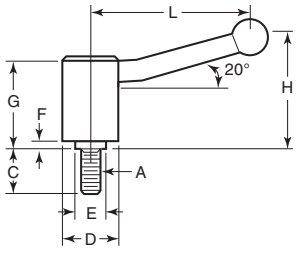


Item No.	A	B	D	E	F	G	H	L
Inch								
KHC-6	⅜-16	.55	.94	.63	.16	1.73	2.28	3.46
KHC-8	½-13	.67	1.10	.75	.20	2.01	2.68	4.17
KHC-10	½-13	.91	1.30	.91	.20	2.24	3.15	5.04
KHC-12	⅝-11	.91	1.30	.91	.20	2.24	3.15	5.04
KHC-14	⅝-11	1.06	1.61	1.18	.24	2.64	3.50	5.04
KHC-16	¾-10	1.06	1.61	1.18	.24	2.64	3.50	5.04
Metric								
KHC-88	M8 x 1.25	14	24	16	4	44	58	87
KHC-90	M10 x 1.50	14	24	16	4	44	58	87
KHC-92	M10 x 1.50	17	28	19	5	51	58	106
KHC-94	M12 x 1.75	17	28	19	5	51	58	106
KHC-96	M12 x 1.75	23	33	23	5	57	80	128
KHC-98	M16 x 2.00	23	33	23	5	57	80	128
KHC-100	M16 x 2.00	27	41	30	6	67	89	128

KIPP
Steel Black Oxide Finish
Heavy Duty
Threaded Stud
Inch and Metric





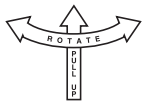


Item No.	A	C	D	E	F	G	H	L
Inch								
KHC-34	⅜-16	.79	.94	.63	.16	1.73	2.30	3.46
KHC-36	⅜-16	1.18	.94	.63	.16	1.73	2.30	3.46
KHC-38	⅜-16	1.57	.94	.63	.16	1.73	2.30	3.46
KHC-40	⅜-16	1.77	.94	.63	.16	1.73	2.30	3.46
KHC-42	⅜-16	1.97	.94	.63	.16	1.73	2.30	3.46
KHC-44	⅜-16	2.36	.94	.63	.16	1.73	2.30	3.46
KHC-46	½-13	.79	1.10	.75	.20	2.01	2.68	4.17
KHC-48	½-13	1.18	1.10	.75	.20	2.01	2.68	4.17
KHC-50	½-13	1.57	1.10	.75	.20	2.01	2.68	4.17
KHC-52	½-13	1.77	1.10	.75	.20	2.01	2.68	4.17
KHC-54	½-13	1.97	1.10	.75	.20	2.01	2.68	4.17
KHC-56	½-13	2.36	1.10	.75	.20	2.01	2.68	4.17
KHC-58	½-13	2.17	1.30	.91	.20	2.24	3.15	5.04
KHC-62	⅝-11	1.57	1.30	.91	.20	2.24	3.15	5.04
KHC-64	⅝-11	2.17	1.30	.91	.20	2.24	3.15	5.04
KHC-66	⅝-11	2.36	1.30	.91	.20	2.24	3.15	5.04
KHC-68	⅝-11	2.36	1.62	1.18	.24	2.64	3.50	5.04
KHC-70	¾-10	2.36	1.62	1.18	.24	2.64	3.50	5.04
Metric								
KHC-136	M8 x 1.25	20	24	16	4	44	58	87
KHC-138	M8 x 1.25	30	24	16	4	44	58	87
KHC-142	M10 x 1.50	20	24	16	4	44	58	87
KHC-144	M10 x 1.50	30	24	16	4	44	58	87
KHC-146	M12 x 1.75	15	24	16	4	44	58	87
KHC-150	M12 x 1.75	30	24	16	4	44	58	87

KIPP
Steel Black Oxide Finish
Tapped Hole
Inch and Metric

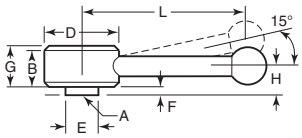


Straight





Offset

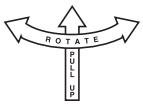


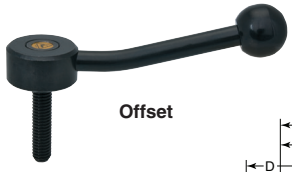
Straight Item No.	Offset Item No.	A	Max. B	D	E	F	G	H	L
Inch									
KHE-2	KHE-10	¼-20	.71	1.30	.51	.08	.75	.47	3.7
KHE-4	KHE-12	5/16-18	.71	1.30	.51	.08	.75	.47	3.7
KHE-6	KHE-14	⅜-16	.83	1.61	.75	.08	.87	.53	4.52
KHE-8	KHE-16	½-13	.83	1.61	.75	.08	.87	.53	4.52
Metric									
KHE-68	KHE-76	M8 x 1.25	.71	1.30	.51	.08	.75	.47	3.7
—	KHE-78	M10 x 1.50	.83	1.61	.75	.08	.87	.53	4.52
—	KHE-80	M12 x 1.75	.83	1.61	.75	.08	.87	.53	4.52

KIPP
Steel Black Oxide Finish
Threaded Stud
Inch and Metric

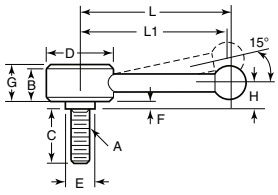


Straight





Offset



Straight Item No.	Offset Item No.	A	B	C	D	E	F	G	H	L	L1
Inch											
KHE-18	KHE-42	5/16-18	.71	.78	1.30	.51	.08	.75	.47	3.82	3.70
KHE-20	KHE-44	5/16-18	.71	.98	1.30	.51	.08	.75	.47	3.82	3.70
KHE-22	KHE-46	5/16-18	.71	1.57	1.30	.51	.08	.75	.47	3.82	3.70
KHE-24	KHE-48	⅜-16	.71	.98	1.30	.51	.08	.75	.47	3.82	3.70
KHE-26	KHE-50	⅜-16	.71	1.57	1.30	.51	.08	.75	.47	3.82	3.70
KHE-28	KHE-52	⅜-16	.83	.98	1.61	.75	.08	.87	.53	4.65	4.53
KHE-30	KHE-54	⅜-16	.83	1.57	1.61	.75	.08	.87	.53	4.65	4.53
KHE-32	KHE-56	⅜-16	.83	2.38	1.61	.75	.08	.87	.53	4.65	4.53
KHE-34	KHE-58	½-13	.83	1.18	1.61	.75	.08	.87	.53	4.65	4.53
KHE-36	KHE-60	½-13	.83	1.57	1.61	.75	.08	.87	.53	4.65	4.53
KHE-38	KHE-62	½-13	.83	1.96	1.61	.75	.08	.87	.53	4.65	4.53
KHE-40	KHE-64	½-13	.83	2.36	1.61	.75	.08	.87	.53	4.65	4.53
Metric											
KHE-82	—	M8 x 1.25	.71	20	1.30	.51	.08	.75	.47	3.82	3.70
KHE-84	KHE-108	M8 x 1.25	.71	30	1.30	.51	.08	.75	.47	3.82	3.70
KHE-88	—	M10 x 1.50	.83	30	1.61	.75	.08	.87	.47	4.65	4.53
KHE-90	—	M10 x 1.50	.83	40	1.61	.75	.08	.87	.47	4.65	4.53
KHE-92	—	M10 x 1.50	.83	30	1.61	.75	.08	.87	.53	4.65	4.53
—	KHE-118	M10 x 1.50	.83	40	1.61	.75	.08	.87	.53	4.65	4.53
KHE-96	—	M10 x 1.50	.83	60	1.61	.75	.08	.87	.53	4.65	4.53
KHE-100	KHE-124	M12 x 1.75	.83	40	1.61	.75	.08	.87	.53	4.65	4.53
KHE-102	—	M12 x 1.75	.83	50	1.61	.75	.08	.87	.53	4.65	4.53

ADJUSTABLE TENSION LEVERS

Steel are cold finished with black oxide finish and black plastic knob. Stainless steel handle is type 303. Available in single or double handle, offset or straight types. Can be supplied as blanks, tapped or reamed, or can be machined as required to your specifications. By loosening the set screw on the straight type, handles can be shifted off center to provide additional leverage. Welded construction permits hole to be tapped or reamed the full length of body.



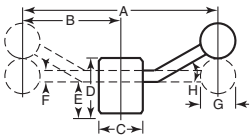
SDB and SSDB
Two Arm - Straight



ODB and SODB
Two Arm - 30° Offset



OSB and SOSB
One Arm - 30° Offset



Reid Select
Steel and Stainless - Type 303
Set Screw and Welded Construction, Blank
Inch

Blank Set Screw Construction — Steel								
Item No.	A	B	C	D	E	F	G	H (degrees)
SDB-1	4	2	7/8	1 1/2	1	1/4	3/4	—
SDB-2	6	3	1 1/8	1 3/4	1 1/16	3/8	1	—
SDB-3	8	4	1 3/8	2 1/4	1 1/4	1/2	1 3/8	—
ODB-1	4	2	7/8	1 1/2	1	1/4	3/4	30
ODB-2	6	3	1 1/8	1 3/4	1 1/16	3/8	1	30
ODB-3	8	4	1 3/8	2 1/4	1 1/4	1/2	1 3/8	30
OSB-1	—	2	7/8	1 1/2	1	1/4	3/4	30
OSB-2	—	3	1 1/8	1 3/4	1 1/16	3/8	1	30
OSB-3	—	4	1 3/8	2 1/4	1 1/4	1/2	1 3/8	30

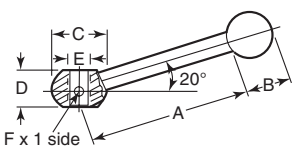
Note: Tapped and reamed hole must be less than dimension E.

Steel
Set Screw Construction, Tapped or Reamed
Inch

Tapped			Reamed			
Item No.	Depth	Thread	Item No.	Depth	Ream	Handle Used
ASC-1T	3/4	5/16-18	ASC-1R	3/4	5/16	SDB-1
ASC-2T	3/4	3/8-16	ASC-2R	3/4	3/8	SDB-1
ASC-3T	3/4	3/8-16	ASC-3R	3/4	3/8	SDB-2
ASC-4T	3/4	1/2-13	ASC-4R	3/4	1/2	SDB-2
ASC-5T	3/4	5/8-11	ASC-5R	3/4	5/8	SDB-2
ASC-6T	1	5/8-11	ASC-6R	1	5/8	SDB-3
ASC-7T	1	3/4-10	ASC-7R	1	3/4	SDB-3
ASC-8T	3/4	5/16-18	ASC-9R	3/4	3/8	ODB-1
ASC-9T	3/4	3/8-16	—	—	—	ODB-1
ASC-10T	3/4	3/8-16	ASC-10R	3/4	3/8	ODB-2
ASC-11T	3/4	1/2-13	ASC-11R	3/4	1/2	ODB-2
—	—	—	ASC-12R	3/4	5/8	ODB-2
ASC-13T	1	5/8-11	ASC-14R	1	3/4	ODB-3
ASC-14T	1	3/4-10	—	—	—	ODB-3
ASC-15T	3/4	5/16-18	ASC-16R	3/4	3/8	OSB-1
ASC-16T	3/4	3/8-16	—	—	—	OSB-1
ASC-17T	3/4	3/8-16	ASC-17R	3/4	3/8	OSB-2
ASC-18T	3/4	1/2-13	ASC-18R	3/4	1/2	OSB-2
ASC-19T	3/4	5/8-11	ASC-19R	3/4	5/8	OSB-2
ASC-20T	1	5/8-11	ASC-20R	1	5/8	OSB-3
ASC-21T	1	3/4-10	ASC-21R	1	3/4	OSB-3

Chrome Plated
Tapped or Reamed
Inch





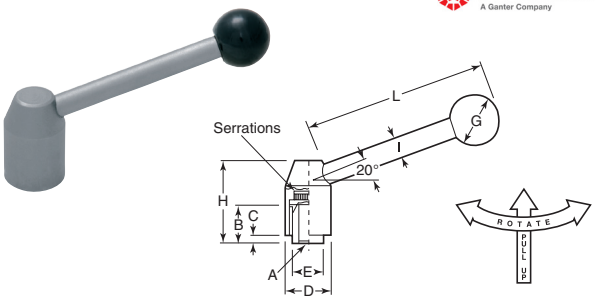
Item No.	A	B	C	D	E	F
D4-10A	2	3/4	5/8	7/16	1/4	1/8
D4-15A	2	3/4	5/8	7/16	5/16-18	—
D4-20A	2 1/2	13/16	25/32	9/16	5/16	1/8
D4-25A	2 1/2	13/16	25/32	9/16	3/8-16	—
D4-30A	3 1/4	15/16	1	3/4	3/8	5/32
D4-35A	3 1/4	15/16	1	3/4	1/2-13	—
D4-40A	4	1 1/4	1 1/4	7/8	1/2	1/2
D4-45A	4	1 1/4	1 1/4	7/8	5/8-11	—
D4-50A	5	1 1/2	1 9/16	1 1/8	5/8	1/4
D4-55A	5	1 1/2	1 9/16	1 1/8	3/4-10	—

ADJUSTABLE TENSION LEVERS

These heavy duty adjustable levers are designed for applications which require greater torquing power than our standard levers. Stronger body and longer arms provide greater leverage. Ideal for clamping in confined spaces. Pulling up on the handle disengages it for adjustment while the insert remains stationary. Releasing the lever automatically engages it. The handle body, arm, insert and spring are made from stainless steel. Satin finish. Ball knob is black phenolic.

JW Winco
Stainless Steel with Black Phenolic Ball Knob
Tapped
Inch and Metric

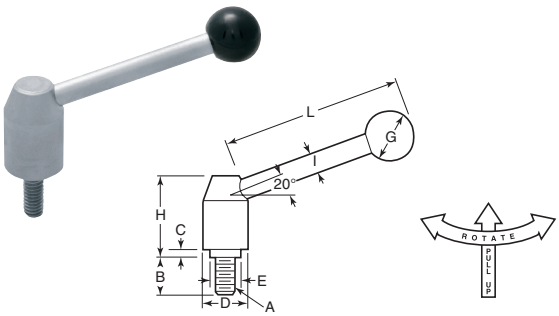
JW WINCO A Ganter Company



Item No.	A	B	C	D	E	G	H	I	L
Inch									
WAL-1	¼-20	.39	.04	.83	.53	.79	1.32	.31	2.76
WAL-2	5/16-18	.39	.04	.83	.53	.79	1.32	.31	2.76
WAL-3	5/16-18	.55	.10	.94	.63	.98	1.57	.39	3.78
WAL-4	⅜-16	.55	.10	.94	.63	.98	1.57	.39	3.78
WAL-5	⅜-16	.67	.18	1.10	.75	1.18	1.91	.47	4.33
WAL-6	½-13	.67	.18	1.10	.75	1.18	1.91	.47	4.33
Metric									
WAL-8	M6 x 1.00	10	1	21	13.5	20	33.5	8	70
WAL-9	M8 x 1.25	10	1	21	13.5	20	33.5	8	70
WAL-10	M8 x 1.25	14	2.5	24	16	25	40	10	96
WAL-12	M10 x 1.50	17	4.5	28	19	30	48.5	12	110
WAL-13	M12 x 1.75	17	4.5	28	19	30	48.5	12	110

JW Winco
Stainless Steel with Black Phenolic Ball Knob
Threaded Stud
Inch and Metric

JW WINCO A Ganter Company



Item No.	A	B	C	D	E	G	H	I	L
Inch									
WAL-15	5/16-18	.79	.04	.83	.53	.79	1.32	.31	2.76
WAL-16	5/16-18	.98	.04	.83	.53	.79	1.32	.31	2.76
WAL-17	5/16-18	1.26	.04	.83	.53	.79	1.32	.31	2.76
WAL-20	5/16-18	2.48	.04	.83	.53	.79	1.32	.31	2.76
WAL-22	⅜-16	.98	.10	.94	.63	.98	1.57	.39	3.78
WAL-23	⅜-16	1.26	.10	.94	.63	.98	1.57	.39	3.78
WAL-24	⅜-16	1.57	.10	.94	.63	.98	1.57	.39	3.78
WAL-26	⅜-16	2.48	.10	.94	.63	.98	1.57	.39	3.78
WAL-27	½-13	.98	.18	1.10	.75	1.18	1.91	.47	4.33
WAL-28	½-13	1.26	.18	1.10	.75	1.18	1.91	.47	4.33
WAL-29	½-13	1.57	.18	1.10	.75	1.18	1.91	.47	4.33
WAL-30	½-13	1.97	.18	1.10	.75	1.18	1.91	.47	4.33
WAL-31	½-13	2.48	.18	1.10	.75	1.18	1.91	.47	4.23
Metric									
WAL-33	M8 x 1.25	20	1	21	13.5	20	33.5	8	70
WAL-35	M8 x 1.25	32	1	21	13.5	20	33.5	8	70
WAL-36	M8 x 1.25	40	1	21	13.5	20	33.5	8	70
WAL-37	M8 x 1.25	50	1	21	13.5	20	33.5	8	70
WAL-42	M10 x 1.50	40	2.5	24	16	25	40	10	96
WAL-43	M10 x 1.50	50	2.5	24	16	25	40	10	96
WAL-47	M12 x 1.75	32	4.5	28	19	30	48.5	12	110
WAL-48	M12 x 1.75	40	4.5	28	19	30	48.5	12	110
WAL-49	M12 x 1.75	50	4.5	28	19	30	48.5	12	110
WAL-51	M12 x 1.75	80	4.5	28	19	30	48.5	12	110
WAL-52	M10 x 1.50	25	2.5	24	16	25	40	10	96
WAL-53	M10 x 1.50	80	2.5	24	16	25	40	10	96

Malleable Iron
Blank, Tapped or Reamed
Inch



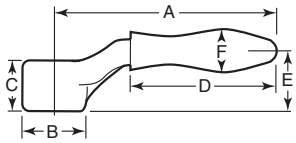
Blank



Tapped



Reamed



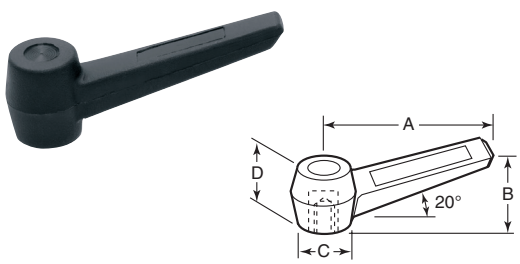
Made of high quality malleable iron. Smooth finish. Furnished blank, tapped, reamed or we can machine to user's specifications. On the tapped and reamed versions, the lower face of the hub is machined square with the hole.

Blank						
Item No.	A	B	C	D	E	F
BH-1	4	1¼	⅞	2½	1 1/16	⅝
BH-2	5	1 5/16	1¼	3	1⅝	¾
BH-3	6	1½	1⅜	3¾	1¾	15/16

Tapped		Reamed						
Item No.	Thread/ Ream	Item No.	Thread/Ream	A	B	C	D	E	F
TY-1A	⅜-16	RY-1A	⅜	4	1¼	13/16	2½	1	⅝
TY-1B	½-13	RY-1B	½	4	1¼	13/16	2½	1	⅝
TY-2A	½-13	RY-2A	½	5	1 5/16	1 3/16	3	1 3/16	¾
TY-2B	⅝-11	RY-2B	⅝	5	1 5/16	1 3/16	3	1 3/16	¾
TY-3A	⅝-11	RY-3A	⅝	6	1½	1 5/16	3¾	1 11/16	15/16
TY-3B	¾-10	RY-3B	¾	6	1½	1 5/16	3¾	1 11/16	15/16

NOTE: Reamed hold is +.000/-.002.

Black ABS Plastic
Brass or Steel Insert
Inch



Item No.	A	B	C	D	Insert Thread	Insert Depth
DK-1231	2 1/16	1 5/64	19/32	51/64	10-32	⅜
DK-1232	2 1/16	1 5/64	19/32	51/64	¼-20	½
DK-1236	2⅝	1 7/32	13/16	1	¼-20	½
DK-1237	2⅝	1 7/32	13/16	1	5/16-18	½
DK-1238	2⅝	1 7/32	13/16	1	⅜-16	½
DK-1243	3 9/32	1½	15/16	1 9/32	5/16-18	½
DK-1244	3 9/32	1½	15/16	1 9/32	⅜-16	½

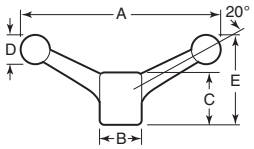
CLAMPING HANDLES & CRANK HANDLES

Made of high quality malleable iron. Smooth finish. Furnished blank, tapped, reamed or we can machine to user's specifications. On the tapped and reamed versions, the lower face of the hub is machined square with the hole.

Blank, Tapped, Reamed
Inch

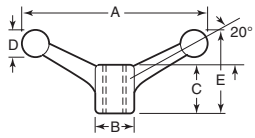


Blank



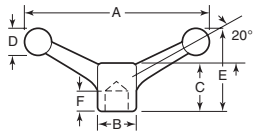


Tapped





Reamed



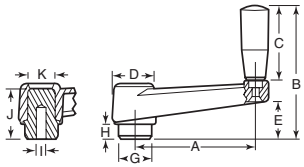
Blank Item No.	A	B	C	D	E
DH-1	4⅞	1⅛	1¾	¾	2¼
DH-2	6	1⅜	1¾	⅞	2⅜
DH-3	8	1¾	1⅞	1	2⅞

Tapped Item No.	Thread	Reamed Item No.	Ream	F	A	B	C	D	E
TM-1A	⅜-16	RM-1A	⅜	1	4⅞	1⅛	1⁹⁄₁₆	¾	2³⁄₁₆
TM-1B	½-13	RM-1B	½	1	4⅞	1⅛	1⁹⁄₁₆	¾	2³⁄₁₆
TM-2A	½-13	RM-2A	½	1	6	1⅜	1⁹⁄₁₆	⅞	2⁵⁄₁₆
TM-2B	⅝-11	RM-2B	⅝	1	6	1⅜	1⁹⁄₁₆	⅞	2⁵⁄₁₆
TM-3A	⅝-11	RM-3A	⅝	1¼	8	1¾	1¾	1	2¹³⁄₁₆
TM-3B	¾-10	RM-3B	¾	1¼	8	1¾	1¾	1	2¹³⁄₁₆

NOTE: Reamed hold is +.000/-.002.

ELESA
Black Plastic
Revolving Handle
Reamed Steel Insert
Inch

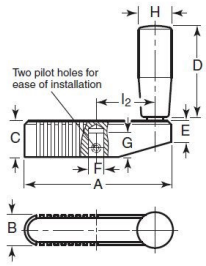




Item No.	A	B	C	D	E	G	H	I	J	K
KHR-5	2.52	2.87	1.57	1.06	.79	.71	.39	.236	1.14	.63
KHR-10	3.15	3.39	1.97	1.18	.91	.87	.39	.236	1.26	.67
KHR-15	3.94	4.17	2.56	1.34	.98	.94	.39	.315	1.45	.83
KHR-20	5.12	5.08	3.15	1.57	1.34	1.10	.55	.394	1.73	.98
KHR-25	6.30	5.71	3.54	1.77	1.50	1.34	.59	.394	1.93	1.06
KHR-30	8.35	5.95	3.54	1.97	1.61	1.57	.59	.472	2.09	1.22

Reid Select
Control Crank Handles
Zinc Die-Cast
Revolving Handle
Blind Bore
Inch and Metric





Item No.	A	B	C	D	E	F	G	H
Inch								
WCH-730	2.75	.67	.75	1.67	.45	.375	.47	.71
WCH-735	3.15	.71	.83	2.07	.49	.375	.47	.83
WCH-740	3.54	.75	.91	2.30	.53	.500	.59	.87
WCH-745	3.94	.79	.98	2.66	.55	.500	.67	.91
Metric								
WCH-750	70	17	19	42.5	11.5	8	12	18
WCH-755	80	18	21	52.5	12.5	8	12	21
WCH-760	90	19	23	58.5	13.5	10	15	22
WCH-765	100	20	25	67.5	14	10	17	23
WCH-770	100	20	25	67.5	14	12	17	23

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BRIDGE HANDLES / METAL & VISUAL DETECTABLE

ELESA
Metal Detectable Technopolymer Stainless Steel / Metric Bridge Handles



This bridge handle contains iron oxide powder for the detectability of the plastic material by means of a metal detector.

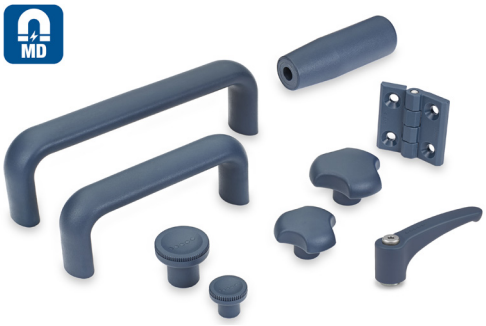
Standard components are crafted using specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts and are suitable for contact with food (FDA CFR.21 and EU 10/2011). A special additive used in manufacturing the plastic allows for the detection of cubic particles measuring 5 mm by means of a metal detector. The specific and unique quality of the blue color used is naturally absent in the environment in which these components are applied, allowing for easy visual detection of contaminant parts. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

Ideal for Food and Pharmaceutical Equipment

Metal Detectable
Specially formulated "Green-blue" (RAL 5001) technopolymer with AISI 304 stainless steel inserts

Part #	DESCRIPTION
EHP-45MD	M8 X 13 mm thread. 303 stainless steel threaded hole.
EHP-50MD	M8 X 13 mm thread. 303 stainless steel threaded hole.

SEE ALSO MD HANDLES, KNOBS & HINGES



ELESA
Visual Detectable Technopolymer Bridge Handles



Standard components are made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts. This shade of blue is easily detectable and recognizable to the human eye thanks to the specified nature of the color and the fact that it is naturally absent in the environment in which these components are used. The material is suitable for contact with food (FDA CFR.21 and EU 10/2011) and is in full compliance with international regulations, contributing to increased levels of safety in food production processes wherever applied. Compliance with FDA regulations affords an additional, higher level of protection, preventing against the risk of contamination.

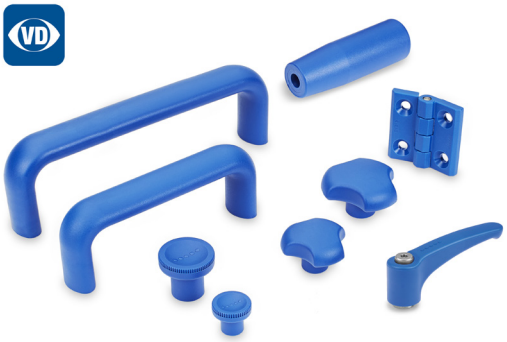
This bridge handle shade of blue is easily recognizable to the human eye. Plastic material is suitable for contact with food and is ideal for food and pharmaceutical equipme

Ideal for Food and Pharmaceutical Equipment

Visual Detectable
Made of "Signal blue" (RAL 5005) technopolymer and crafted using AISI 304 stainless steel inserts.

Part #	DESCRIPTION
EHP-45VD	M8 X 10 mm thread. 303 stainless steel threaded hole.
EHP-50VD	M8 X 10 mm thread. 303 stainless steel threaded hole.

SEE ALSO VD HANDLES, KNOBS & HINGES

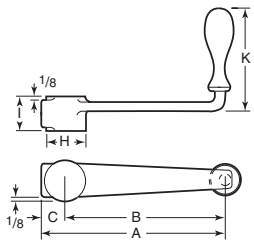


CRANK HANDLES

Used extensively in the construction of machinery, jigs and fixtures, mechanical assemblies and other similar applications. They have the maximum strength necessary to stand up under severe usage, are well proportioned and are neat in appearance. Extreme care has been given to the cleaning operations, so that no further such work is required on the part of the user.

Ductile Iron or Aluminum
Solid Handle
Straight
Inch

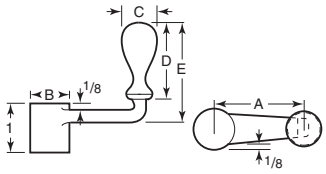




Iron Item No.	Aluminum Item No.	A	B	C	H	I	K
CH-4	CH-4AL	4 13/16	4	13/16	1 1/8	1	4
CH-6	CH-6AL	6 15/16	6	15/16	1 1/2	1 1/4	4 3/8
CH-8	CH-8AL	9	8	1	1 5/8	1 1/4	4 3/8
CH-10	CH-10AL	11 1/8	10	1 1/8	1 7/8	1 1/2	5
CH-13	—	14 3/16	13	1 3/16	2	1 1/2	5

Ductile Iron or Aluminum
Solid Handle
Small Sizes
Inch

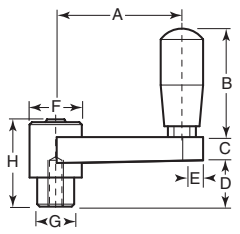




Iron Item No.	Aluminum Item No.	A	B	C	D	E
CH-2	CH-2AL	2	7/8	3/4	1 5/8	2 1/8
CH-25	CH-25AL	2 1/2	7/8	3/4	1 5/8	2 1/8
CH-3	—	3	1	7/8	1 7/8	2 1/2
CH-35	CH-35AL	3 1/2	1	7/8	1 7/8	2 1/2

Reid Select
Black Thermoplastic
Adjustable, Revolving Handle
Tapped Hole
Inch



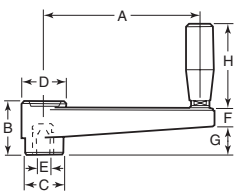


These adjustable crank handles are made of black thermoplastic with a steel insert. Pulling out on the crank allows you to rotate or index the crank arm to a more comfortable position. Cranks come with tapped hole.

Item No.	Tapped	A	B	C	D	E	F	G	H
JCL-570	5/16-18	2.56	2.20	.47	.94	.43	1.06	.75	1.77
JCL-575	3/8-16	2.56	2.20	.47	.94	.43	1.06	.75	1.77
JCL-580	3/8-16	3.15	2.60	.51	1.30	.47	1.34	.94	2.05
JCL-585	1/2-13	3.15	2.60	.51	1.30	.47	1.34	.94	2.05
JCL-590	1/2-13	4.33	2.05	.55	1.30	.51	1.34	.94	2.05
JCL-595	5/8-11	4.33	2.05	.55	1.30	.51	1.34	.94	2.05

Reid Select
Black Thermoplastic
Revolving Handle
Molded in Steel Hub; Bored or Threaded Hole
Inch

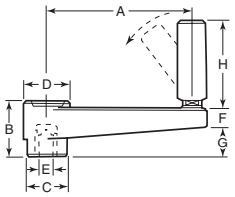




Item No.	A	B	C	D	E	F	G	H
w/ Bored Hole								
JCL-1260	2.56	1.14	.87	1.06	.313	.51	.67	2.20
JCL-1265	2.56	1.14	.87	1.06	.375	.51	.67	2.20
JCL-1270	2.56	1.14	.87	1.06	.500	.51	.67	2.20
JCL-1275	3.15	1.29	1.02	1.22	.313	.51	.70	2.20
JCL-1280	3.15	1.29	1.02	1.22	.375	.51	.70	2.20
JCL-1285	3.15	1.29	1.02	1.22	.500	.51	.70	2.20
JCL-1290	4.33	1.54	1.14	1.34	.375	.55	.98	2.99
JCL-1295	4.33	1.54	1.14	1.34	.500	.55	.98	2.99
JCL-1300	5.51	1.93	1.38	1.69	.500	.63	1.38	3.54
JCL-1305	5.51	1.93	1.38	1.69	.625	.63	1.38	3.54
JCL-1310	7.28	2.17	1.57	1.85	.500	.59	1.57	3.54
JCL-1315	7.28	2.17	1.57	1.85	.625	.59	1.57	3.54
w/ Threaded Hole								
JCL-1140	2.56	1.14	.87	1.06	5/16-18	.51	.67	2.20
JCL-1145	2.56	1.14	.87	1.06	3/8-16	.51	.67	2.20
JCL-1150	2.56	1.14	.87	1.06	1/2-13	.51	.67	2.20
JCL-1160	3.15	1.29	1.02	1.22	3/8-16	.51	.70	2.20
JCL-1175	4.33	1.54	1.14	1.34	1/2-13	.55	.98	2.99
JCL-1180	5.51	1.93	1.38	1.69	1/2-13	.63	1.38	3.54
JCL-1185	5.51	1.93	1.38	1.69	5/8-11	.63	1.38	3.54
JCL-1190	7.28	2.17	1.57	1.85	1/2-13	.59	1.57	3.54
JCL-1195	7.28	2.17	1.57	1.85	5/8-11	.59	1.57	3.54

Reid Select
Black Thermoplastic
Folding Handle
Molded in Steel Hub; Bored or Threaded Hole
Inch





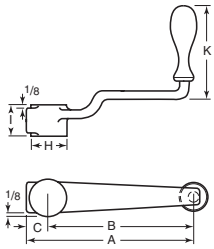
Item No.	A	B	C	D	E	F	G	H
w/ Bored Hole								
JCL-1325	2.56	1.14	.87	1.06	.375	.67	.67	2.20
JCL-1330	2.56	1.14	.87	1.06	.500	.67	.67	2.20
JCL-1340	3.15	1.29	1.02	1.22	.375	.70	.70	2.20
JCL-1345	3.15	1.29	1.02	1.22	.500	.70	.70	2.20
JCL-1350	4.33	1.54	1.14	1.34	.375	.98	.98	2.99
JCL-1355	4.33	1.54	1.14	1.34	.500	.98	.98	2.99
JCL-1360	5.51	1.93	1.38	1.69	.500	1.38	1.38	3.54
JCL-1365	5.51	1.93	1.38	1.69	.625	1.38	1.38	3.54
JCL-1370	7.28	2.17	1.57	1.85	.500	1.57	1.57	3.54
w/ Threaded Hole								
JCL-1200	2.56	1.14	.87	1.06	5/16-18	.67	.67	2.20
JCL-1205	2.56	1.14	.87	1.06	3/8-16	.67	.67	2.20
JCL-1210	2.56	1.14	.87	1.06	1/2-13	.67	.67	2.20
JCL-1215	3.15	1.29	1.02	1.22	5/16-18	.70	.70	2.20
JCL-1220	3.15	1.29	1.02	1.22	3/8-16	.70	.70	2.20
JCL-1225	3.15	1.29	1.02	1.22	1/2-13	.70	.70	2.20
JCL-1230	4.33	1.54	1.14	1.34	3/8-16	.98	.98	2.99
JCL-1235	4.33	1.54	1.14	1.34	1/2-13	.98	.98	2.99
JCL-1240	5.51	1.93	1.38	1.69	1/2-13	1.38	1.38	3.54
JCL-1245	5.51	1.93	1.38	1.69	5/8-11	1.38	1.38	3.54
JCL-1250	7.28	2.17	1.57	1.85	1/2-13	1.57	1.57	3.54
JCL-1255	7.28	2.17	1.57	1.85	5/8-11	1.57	1.57	3.54

CRANK HANDLES

Used extensively in the construction of machinery, jigs and fixtures, mechanical assemblies and other similar applications. They have the maximum strength necessary to stand up under severe usage, are well proportioned and are neat in appearance. Extreme care has been given to the cleaning operations, so that no further such work is required on the part of the user.

Ductile Iron Solid Handle Offset Inch

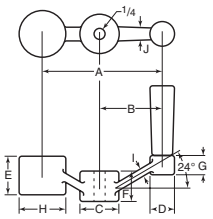




Item No.	A	B	C	H	I	K
HW-4	4 13/16	4	13/16	1 1/8	1	4
HW-6	6 15/16	6	15/16	1 1/2	1 1/4	4 3/8
HW-8	9	8	1	1 5/8	1 1/4	4 3/8
HW-10	11 1/8	10	1 1/8	1 7/8	1 1/2	5
HW-12	13 3/16	12	1 3/16	2	1 1/2	5

Aluminum Solid Handle Balanced Inch





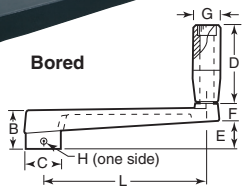
A good alternative to heavier steel handles. The lightweight makes table positioning easier, as no fall off occurs after position has been reached. Made from 319 aluminum alloy, gray enamel finish.

Item No.	A	B	C	D	E	F	G	H	I	J
JCH-1	2 5/16	1 1/4	3/4	1/2	11/16	1/2	7/16	7/8	3/16	5/16
JCH-2	3 1/16	1 11/16	1	5/8	7/8	5/8	1/2	1 1/4	1/4	3/8
JCH-3	3 15/16	2 1/8	1 1/8	3/4	1 5/16	3/4	5/8	1 3/8	5/16	7/16
JCH-4	4 11/16	2 5/8	1 3/8	7/8	1 5/16	1	3/4	1 5/8	5/16	1/2
JCH-5	5 11/16	3 1/16	1 3/8	7/8	1 1/2	1	1	1 3/4	3/8	9/16

Aluminum Revolving or Folding Handle Bored or Broached Inch



Bored

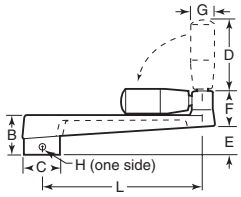


Revolving Handle



Broached





Folding Handle

Aluminum die cast crank body with black painted finish. Available with black plastic revolving or folding handles, with either a broached or bored hole.

Bored Item No.	Broached Item No.	A	L	B	C	D	E	F	G	H
w/ Plastic Revolving Handle										
C7-12	C7-12B	5/16	1.20	.68	.55	.94	.34	.37	.56	—
C7-25	C7-25B	3/8	2.52	.79	.75	1.22	.43	.47	.70	1/16
C7-32	C7-32B	3/8	3.15	.95	.91	1.97	.55	.55	.85	1/16
C7-40	C7-40B	1/2	3.94	1.10	1.06	2.50	.67	.59	.93	3/32
C7-50	C7-50B	5/8	4.92	1.34	1.26	3.25	.87	.71	1.12	3/32
C7-63	C7-63B	3/4	6.30	1.50	1.38	3.25	1.02	.71	1.12	3/32
w/ Plastic Folding Handle										
C7-40F	C7-40BF	1/2	3.94	1.10	1.06	2.00	.67	1.22	.88	3/32
C7-50F	C7-50BF	5/8	4.92	1.34	1.26	2.50	.87	1.49	.94	3/32
C7-63F	C7-63BF	3/4	6.30	1.50	1.38	3.15	1.02	1.49	1.00	3/32

Crank body is made of aluminum or zinc die cast with black plastic coating. Available with black plastic revolving or fold away safety handle. Available with a bored round hole or a square hole broached.

JW Winco Aluminum or Zinc Die Cast Revolving Handle Bored or Broached Inch

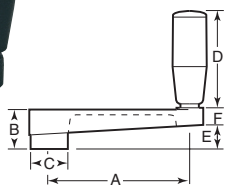
JW WINCO A Ganter Company



Bored



Broached

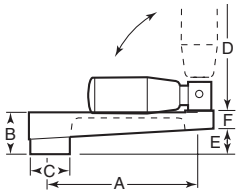


Bored Item No.	Broached Item No.	Hole Size	A	B	C	D	E	F
Aluminum								
ACH-15	ACH-40	3/8	3.15	.95	.91	2.07	.55	.55
ACH-20	ACH-45	1/2	3.94	1.10	1.06	2.66	.67	.59
ACH-25	ACH-50	5/8	4.92	1.34	1.26	3.25	.87	.71
ACH-30	ACH-55	3/4	6.30	1.5	1.38	3.25	1.02	.71
Zinc Die Cast								
—	ACH-160	1/2	3.15	.95	.91	2.07	.55	.55
ACH-145	—	1/2	3.94	1.10	1.06	2.66	.67	.59

JW Winco Aluminum Folding Plastic Handle Bored Inch

JW WINCO A Ganter Company



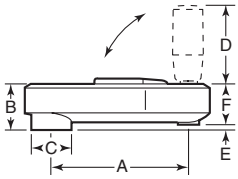


Item No.	Hole Size	A	B	C	D	E	F
ACH-60	1/2	3.94	1.10	1.06	3.33	.67	.51
ACH-65	5/8	4.92	1.34	1.26	3.33	.87	.55
ACH-70	5/8	6.30	1.50	1.38	3.92	1.02	.55
ACH-75	3/4	6.30	1.50	1.38	3.92	1.02	.55

JW Winco Aluminum Fold Away Plastic Handle Bored or Broached Inch

JW WINCO A Ganter Company



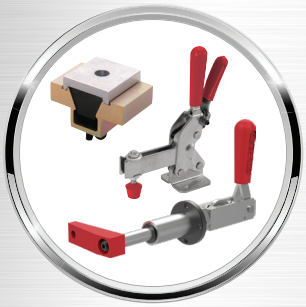


Bored Item No.	Broached Item No.	Hole Size	A	B	C	D	E	F
ACH-100	—	1/2	3.15	1.02	.91	1.67	.10	.92
ACH-105	ACH-120	1/2	3.94	1.18	1.02	2.30	.16	1.02

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KNOBS HANDLES


LATCHES, CATCHES HINGES

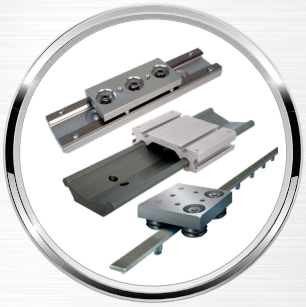

ADJUSTABLE HANDLES


TOOLING & POSITIONING


FEET, CASTERS VIBRATION MOUNTS

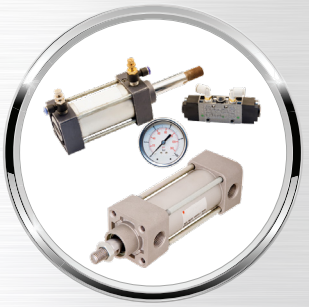

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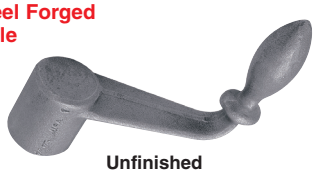
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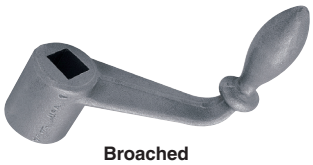
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CRANK HANDLES

Carbon Steel Forged Solid Handle Inch



Unfinished



Broached

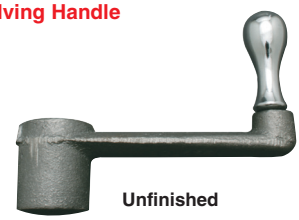


Finished

Made from C1018 carbon steel. Unfinished are plain forgings without hole in hub. Broached have holes finished and hubs recessed or counterbored in free end, but are otherwise plain forgings. Finished are broached, counterbored in free end of hub, polished, and black plastic powder coated. The broached openings are made with corners slightly rounded to prevent breakage and a slight clearance is provided.

Unfinished Item No.	Broached Item No.	Finished Item No.	Length Center to Center	Length Extreme	Length Handle Above Arm	Hub Dia.	Hub Length	Square Hole Size Broached Standard in Stock	Square Hole Size Broached Maximum to Order
0-U	0-B	0-F	2¼	3⅛	2½	1	1¼	½	9/16
1-U	1-B	1-F	3	4	2¾	1¼	1½	9/16	¾
2-U	2-B	2-F	3½	4½	2⅞	1 1/16	1 5/16	½	9/16
4-U	4-B	4-F	4	5⅛	3⅛	1¼	1⅜	9/16	¾
6-U	6-B	6-F	5	6⅛	3⅛	1¼	1 13/16	⅝	¾
8-U	8-B	8-F	6	7⅛	3⅛	1¼	1 15/16	11/16	¾
10-U	10-B	10-F	7	8¼	3⅜	1⅜	2 1/16	¾	13/16
12-U	12-B	12-F	8	9⅜	3⅝	1 9/16	2 7/16	⅞	⅞
14-U	14-B	14-F	9⅛	10½	3¾	1½	2½	⅞	⅞
16-U	16-B	16-F	10	11½	4	1¾	3	1	1
—	00-B	00-F	1¾	2⅜	2⅜	1	1¼	½	9/16

Carbon Steel Malleable Revolving Handle Inch



Unfinished



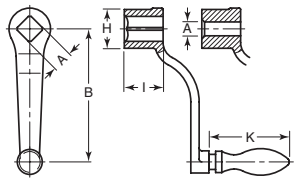
Finished

Supplied either completely finished, unfinished or blank. Blank unfinished are plain malleable cranks without hole in hub and with chrome plated steel handle. Finished are broached, counter-bored in free end of hub, lifetime luster aluminum baked finish and with chrome plated steel handle. Broached openings have corners slightly rounded to prevent breakage with a slight clearance provided.

Item No.	Balcrank	Length Center to Center	Hub Dia.	Hub Length Unfinished	Hub Length Finished	Handle Above Arm	Hole Size
Revolving - Unfinished							
MU-1	801564	4	1 5/16	1⅝	1⅝	2⅞	—
MU-2	801565	5	1 5/16	2 1/16	2 1/16	3 31/32	—
MU-4	801567	7	1 7/16	2 5/16	2 5/16	4 7/32	—
Revolving - Finished							
MF-1	801572	4	1 5/16	1⅜	1⅜	2⅞	9/16
MF-4	801575	7	1 7/16	2 1/16	2 1/16	4 7/32	¾

JW Winco Cast Iron - Matte Black Powder Coated Finish Off-Set Fixed or Revolving Handle Bored or Broached Metric



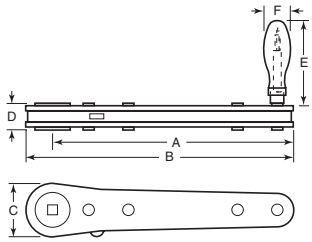


The crank handle body is made out of malleable iron, deburred and sand-blasted. Contact face of hub is machined. The fixed handle is made out of polished steel. The revolving handle is a polished steel hand piece and spindle.

Fixed Handle Item No.	K	Revolving Handle Item No.	K	A	Hole Type	B	H	I
WPH-300	56	WPH-360	61	8	Round	80	24	24
WPH-305	56	WPH-365	61	10	Square	80	24	24
WPH-310	64	WPH-370	67	10	Round	100	28	28
WPH-315	64	WPH-375	67	12	Square	100	28	28
WPH-320	72	WPH-380	76	10	Round	125	34	34
WPH-325	72	WPH-385	76	14	Square	125	34	34
WPH-330	80	WPH-390	83	14	Round	160	38	38
WPH-335	80	WPH-395	83	17	Square	160	38	38
WPH-340	90	WPH-400	95.5	17	Round	200	44	44
WPH-345	90	WPH-405	95.5	19	Square	200	44	44
WPH-350	100	WPH-410	105.5	17	Round	250	48	48
WPH-355	100	WPH-415	105.5	22	Square	250	48	48

Steel Ratcheting Inch





The combination of crank and ratchet makes machinery adjustment faster, easier and safer. Ratchet control allows you to reverse action safely and conveniently. Handle is steel revolving style.

Item No.	Square Hole Size	A	B	C	D	E	F
RCH-15	½	7	7 13/16	1 9/16	19/32	2 15/16	1
RCH-20	⅝	7	7 13/16	1 9/16	19/32	2 15/16	1
RCH-25	½	10	11	2 1/16	⅞	2 15/16	1
RCH-45	½	12	13½	2½	⅞	3 11/32	1 3/32
RCH-55	¾	12	13½	2½	⅞	3 11/32	1 3/32

CONTROL LEVERS

Malleable Iron
Handle Nuts
Threaded or Drilled Holes
Inch



These handles are offset for easy grip. Made from malleable iron and annealed. Available in plain finish or zinc plated. Plain style is available with threaded or drilled holes. Decimal sizes are +/-.005".

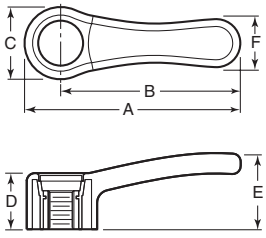
Plain Item No.	Zinc Item No.	Thread / Hole	Length	Flange Dia.
IHN-10	IHN-60	¼-20	3¾	15/16
IHN-15	IHN-65	5/16-18	3¾	15/16
IHN-20	IHN-70	⅜-16	4¼	15/16
IHN-25	IHN-75	7/16-14	4¼	15/16
IHN-30	IHN-80	½-13	4½	1¼
IHN-35	IHN-85	⅝-11	4¾	1¼
IHN-40	IHN-90	¾-10	4¾	1¼

Reid Select
High Resistance, Glass Fiber, Reinforced Technopolymer
Threaded or Smooth Inserts
Inch



Smooth Insert

Threaded Insert



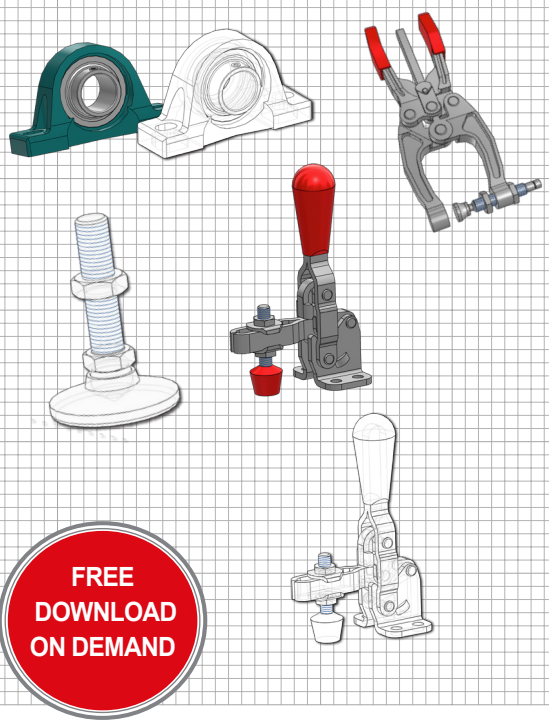
Made of high resistance, glass fiber, reinforced technopolymer. Oil and grease resistant and ships with grey removable caps.

Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
Threaded Insert								
JCL-1860	3.33	2.68	1.30	.98	1.46	.79	¼-20	.63
JCL-1865	3.33	2.68	1.30	.98	1.46	.79	5/16-18	.63
JCL-1870	3.33	2.68	1.30	.98	1.46	.79	⅜-16	.63
JCL-1875	4.09	3.38	1.42	1.10	1.57	.94	5/16-18	.63
JCL-1880	4.09	3.38	1.42	1.10	1.57	.94	⅜-16	.63
JCL-1885	5.29	4.41	1.77	1.42	1.85	1.18	½-13	.94
Smooth Insert								
JCL-1910	3.33	2.68	1.30	.98	1.46	.79	⅜	.63
JCL-1920	4.09	3.38	1.42	1.10	1.57	.94	⅜	.63
JCL-1935	6.67	5.59	2.16	1.57	2.05	1.46	¼	1.06

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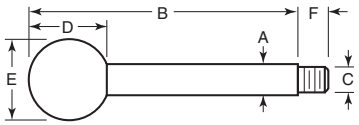


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These gear lever handles and shafts have many uses for machinery and other applications. The shafts with handles are made of steel and are ground and polished with black oxide finish. Knobs are black plastic with brass inserts. The stainless shafts are Type 303 stainless.

Steel Shaft
Black Plastic Ball Knob
Brass Insert
Inch and Metric

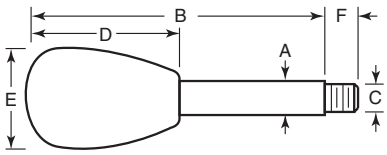




Item No.	A	B	C	D	E	F
Inch						
RGL-10	.31	2.59	¼-20	.96	1.00	.50
RGL-15	.31	3.59	¼-20	.96	1.00	.50
RGL-20	.31	5.09	¼-20	.96	1.00	.50
RGL-25	.37	2.75	5⁄16-18	1.12	1.18	.50
RGL-30	.37	3.75	5⁄16-18	1.12	1.18	.50
RGL-35	.37	5.25	5⁄16-18	1.12	1.18	.50
RGL-40	.43	3.42	⅜-16	1.29	1.37	.50
RGL-45	.43	4.92	⅜-16	1.29	1.37	.50
RGL-50	.43	6.17	⅜-16	1.29	1.37	.75
RGL-55	.56	4.57	½-13	1.57	1.62	.50
RGL-60	.56	6.32	½-13	1.57	1.62	.75
RGL-65	.56	8.07	½-13	1.57	1.62	1.00

Steel Shaft
Black Plastic Oval Knob
Brass Insert
Inch



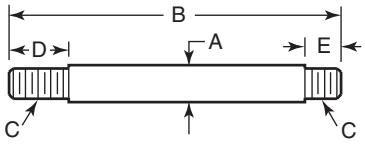


Item No.	A	B	C	D	E	F
RGL-310	.31	4.00	¼-20	2.5	1.625	.50
RGL-315	.31	5.00	¼-20	2.5	1.625	.50
RGL-320	.31	6.50	¼-20	2.5	1.625	.50
RGL-325	.37	4.00	5⁄16-18	2.5	1.625	.50
RGL-330	.37	5.00	5⁄16-18	2.5	1.625	.50
RGL-335	.37	6.50	5⁄16-18	2.5	1.625	.50
RGL-340	.43	4.75	⅜-16	2.5	1.625	.50
RGL-345	.43	6.25	⅜-16	2.5	1.625	.50
RGL-350	.43	7.75	⅜-16	2.5	1.625	.75
RGL-355	.56	5.5	½-13	2.5	1.625	.50
RGL-360	.56	7.00	½-13	2.5	1.625	.75
RGL-365	.56	9.00	½-13	2.5	1.625	1.00

Steel or Stainless Steel Shaft
Brass Insert
Inch and Metric

STAINLESS STEEL OPTION AVAILABLE





Item No.	A	B	C	D	E
Steel - Inch					
GLS-10	.312	2.5	¼-20	.50	.375
GLS-15	.312	3.5	¼-20	.50	.375
GLS-20	.312	5.0	¼-20	.50	.375
GLS-25	.375	2.5	5⁄16-18	.50	.375
GLS-30	.375	3.5	5⁄16-18	.50	.375
GLS-35	.375	5.0	5⁄16-18	.50	.375
GLS-45	.438	4.5	⅜-16	.50	.375
GLS-40	.438	3.0	⅜-16	.50	.375
GLS-50	.438	6.0	⅜-16	.75	.375
GLS-55	.563	4.0	½-13	.50	.500
GLS-60	.563	6.0	½-13	.75	.500
GLS-65	.563	8.0	½-13	1.00	.500
Stainless - Inch					
GLS-70	.312	2.5	¼-20	.50	.375
GLS-75	.312	3.5	¼-20	.50	.375
GLS-80	.312	5.0	¼-20	.50	.375
GLS-85	.375	2.5	5⁄16-18	.50	.375
GLS-90	.375	3.5	5⁄16-18	.50	.375
GLS-95	.375	5.0	5⁄16-18	.50	.375
GLS-100	.438	3.0	⅜-16	.50	.375
GLS-105	.438	4.5	⅜-16	.50	.375
GLS-110	.438	6.0	⅜-16	.75	.375
GLS-115	.563	4.0	½-13	.50	.500
GLS-120	.563	6.0	½-13	.75	.500
GLS-125	.563	8.0	½-13	1.00	.500

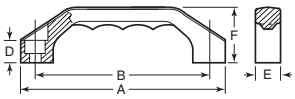
STANDARD QUOTES
IN 4 HOURS OR LESS

MOST PRODUCTS
SHIP SAME DAY

PULL HANDLES

Rhode
Black Reinforced Nylon
Inch

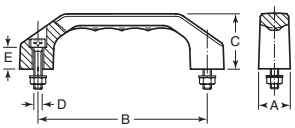




Item No.	A	B	Screw	D	E	F
DUH-50	4 51/64	3 15/16	#12	33/64	3/4	1 19/64
DUH-55	5 3/4	4 23/32	1/4	19/32	29/32	1 17/32
DUH-60	6 11/16	5 33/64	5/16	5/8	1 1/16	1 49/64
DUH-65	7 41/64	6 19/64	5/16	25/32	1 7/32	2 3/64
DUH-70	8 37/64	7 5/64	7/16	25/32	1 3/8	2 5/32

KIPP
Black Thermoplastic
Stirrup Shaped Thru Hole
Metric



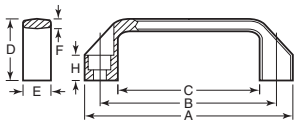


Item No.	A	B	C	Thread D	Screw Length	E
KPB-1342	19	100	33	M5 x .8	22	13
KPB-1343	23	120	39	M6 x 1	25	15
KPB-1344	27	140	45	M8 x 1.25	30	16
KPB-1345	31	160	52	M8 x 1.25	35	20
KPB-1346	35	180	58	M10 x 1.50	40	20

Note: Supplied with fastening screws.

ELESA
Black Reinforced Plastic
Inch



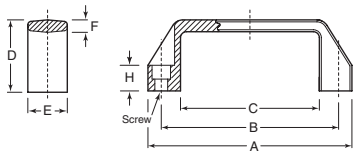


Bolts directly to doors and panels. Made of black high strength polycarbonate, corrosion resistant.

Item No.	A	B	C	D	E	F	Screw	H
KHO-5	4.21	3.681	2.91	1.42	.83	.236	1/4	.52
KHO-10	5.28	4.606	3.74	1.61	1.02	.276	5/16	.59
KHO-15	5.91	5.200	4.25	1.77	1.06	.276	5/16	.63
KHO-20	7.76	7.047	6.02	1.97	1.10	.315	5/16	.67
KHO-25	10.31	9.250	7.95	2.13	1.22	.350	3/8	.79

ELESA
Black Plastic
ESD-C (Electrostatic Discharge Conductive)
Metric



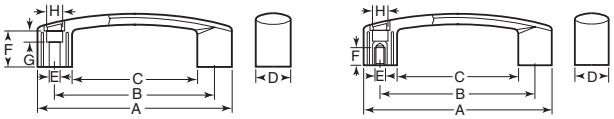


The special conductive technopolymer ESD-C (Electrostatic Discharge Conductive) prevents the transfer of electrostatic discharge between bodies with different electric potential. These handles are suitable for ESD Protected Areas (EPA), where components are susceptible to electrostatic discharge, are to be handled with the minimum risk of damage. The indelibly printed mark (ESD-C) on the surface of the handle identifies the particular anti-static feature in accordance with EN 1000 15 / 1 and IEC 61340-5-1.

Item No.	A	B	C	D	E	F	H	Screw
ESP-735	109	93.5 mm +/- 0.5	74	38	21	6	13	6.5
ESP-736	137	117 mm +/- 1	93	41	26	7	15	8.5

ELESA
Black Plastic
Front and Back Mounting
Inch





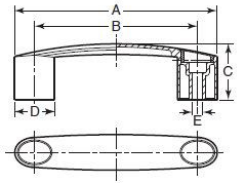
Front Mounting **Back Mounting**

Made of glass fiber reinforced technopolymer with black matte finish. Front mount has two through holes. Back mount has brass bushings with tapped blind holes. Both styles come with removable black caps to conceal holes.

Item No.	Mounting	A	B	C	D	E	F	G	H
ESP-122	Front	4.57	3.68	2.83	.87	.25	.92	.25	.41
ESP-123	Back	4.57	3.68	2.83	.87	1/4-20	.47	—	.41
ESP-110	Front	5.67	4.61	3.62	1.02	.33	1.04	.33	.53
ESP-115	Back	5.67	4.61	3.62	1.02	5/16-18	.51	—	.53
ESP-124	Front	7.01	5.91	4.80	1.10	.33	1.26	.55	.53
ESP-125	Back	7.01	5.91	4.80	1.10	5/16-18	.51	—	.53

Reid Select
Plastic One Piece Pull Handle with Through Holes
Mounting Hole Caps Included
Black Reinforced Polyamide

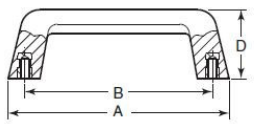




Item No.	A	B	C	D	E
RST-155	4.57	3.66	1.38	0.88	.26
RST-156	5.75	4.29	1.65	1.09	.33
RST-157	5.75	4.61	1.65	1.09	.33
RST-158	6.42	5.2	1.77	1.26	.33
RST-159	7.13	5.91	1.89	1.26	.33

Reid Select
Plastic One Piece Pull Handle
Brass Threaded Inserts



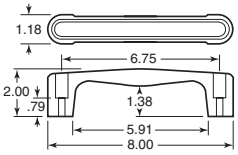


Item No.	A	B	D	Thread	Depth
RST-110	5.12	4.29	1.69	1/4-20	1/4-20
RST-111	6.50	5.16	2.17	5/16-18	5/16-18

PULL HANDLES

Southco Black Plastic Large Grab Handle Inch



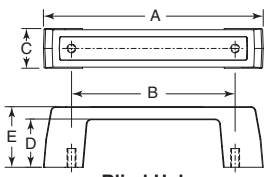


Blind hole mount includes zinc plated steel screws. Front mount accepts #10 or M5 screws, both type mounts have a removable snap in cover to conceal screw.

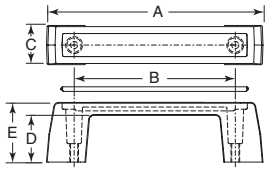
Item No.	Mounting
SC-181	Front
SC-182	Blind

Southco Black Plastic Small Grab Handle Inch





Blind Hole



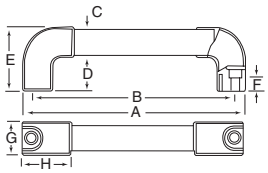
Front Mounting

Blind hole includes zinc plated steel lockwashers and screws. Front mount accepts #10 or M5 screw and has removable snap-in cover to conceal screw heads.

Item No.	Mounting	Insert	A	B	C	D	E
SC-185	Blind	M6 x 1	5.88	4.38	1.07	1.27	1.62
SC-183	Front	—	5.88	4.38	1.07	1.27	1.62

Reid Select Anodized Aluminum Tube Black Thermoplastic Ends Bridge Inch





Item No.	A	B	C	D	E	F	G	H	Use Socket Head Screw
JCL-1700	8.66	7.87	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1740	8.82	7.87	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1705	10.63	9.83	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1745	10.79	9.83	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1710	12.60	11.81	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1750	12.76	11.81	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1715	14.57	13.78	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1755	14.72	13.78	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1720	16.54	15.75	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1760	16.69	15.75	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1725	20.47	19.68	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1765	20.63	19.68	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1730	24.41	23.62	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16
JCL-1770	24.75	23.62	1.18	1.69	3.03	.67	1.57	2.36	10mm or 3/8
JCL-1735	28.35	27.56	.79	1.30	2.44	.45	1.18	1.97	8mm or 5/16

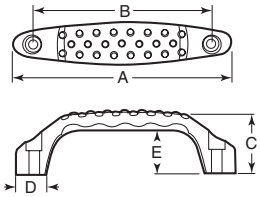
Black Thermoplastic Soft Elastomer Grip Inch


Red/Black


Orange/Black


Yellow/Black


Gray/Black

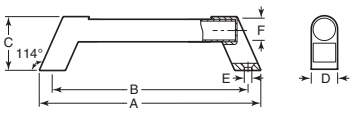


Black thermoplastic with soft, colored elastomer grip. Through hole mount, fits ¼-20 or M6 socket head cap screw.

Item No.	Color	A	B	C	D	E
DK-1106	Gray/Black	5 25/32	4 23/32	1 11/16	29/32	1 1/32
DK-1107	Red/Black	5 25/32	4 23/32	1 11/16	29/32	1 1/32
DK-1108	Orange/Black	5 25/32	4 23/32	1 11/16	29/32	1 1/32
DK-1109	Yellow/Black	5 25/32	4 23/32	1 11/16	29/32	1 1/32

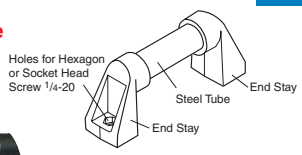
Reid Select Anodized Aluminum Tube Black Thermoplastic Ends Bridge Inch



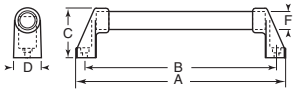


Item No.	A	B	C	D	E	F
RST-160	9.02	7.87	2.36	1.26	.33	.98
RST-161	10.98	9.83	2.36	1.26	.33	.98
RST-162	12.95	11.81	2.36	1.26	.33	.98
RST-163	14.92	13.78	2.36	1.26	.33	.98
RST-164	16.89	15.75	2.36	1.26	.33	.98
RST-165	20.83	19.68	2.36	1.26	.33	.98
RST-166	24.76	23.62	2.36	1.26	.33	.98
RST-167	28.70	27.56	2.36	1.26	.33	.98

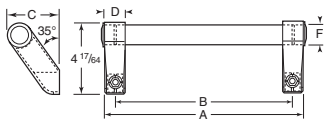
EMKA Steel Tube with Black Plastic Coating Black Polyamide Ends Variable Length Bridge Inch




90° Angle Bar Assembly




35° Angle Bar Assembly



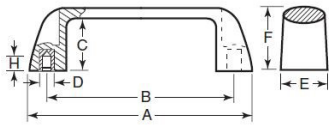
The 30mm (1.18") heavy duty steel tube with black plastic coating is cut to the lengths listed below to meet your application needs. End pieces are made from black polyamide. Each handle contains a tube and two ends.

Item No.	A	B	C	D	F
90° Angle Bar Assembly					
ELH-109508	12.99	11.81	3.15	1.81	1.18
ELH-109509	16.93	15.75	3.15	1.81	1.18
ELH-109510	20.87	19.69	3.15	1.81	1.18
ELH-109511	24.81	23.63	3.15	1.81	1.18
ELH-109512	28.74	27.56	3.15	1.81	1.18
ELH-109513	32.68	31.50	3.15	1.81	1.18
35° Angle Bar Assembly					
ELH-109514	11.72	10.47	2.97	1.25	1.18
ELH-109515	15.66	14.41	2.97	1.25	1.18
ELH-109516	19.59	18.34	2.97	1.25	1.18
ELH-109517	23.53	22.28	2.97	1.25	1.18
ELH-109518	27.47	26.22	2.97	1.25	1.18
ELH-109519	31.40	30.15	2.97	1.25	1.18

PULL HANDLES

J.W. Winco
Black Reinforced Plastic
Round, Oval and Rectangular Pull Handle
Blind Hole, Brass Insert
Inch

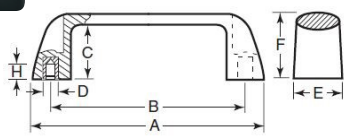




Item No.	A	B	C	D	E	F	H	Vertical Lifting Load (Lbs.)
WCH-5	4.41	3.68	1.18	1/4-20	.83	1.42	.35	484
WCH-10	5.47	4.61	1.34	1/4-20	1.02	1.61	.35	506
WCH-15	5.47	4.61	1.34	5/16-18	1.02	1.61	.35	506
WCH-20	6.14	5.20	1.46	1/4-20	1.06	1.77	.35	550
WCH-25	6.14	5.20	1.46	5/16-18	1.06	1.77	.35	550
WCH-26	8.03	7.05	1.65	5/16-18	1.10	1.97	.35	550

J.W. Winco
Black Reinforced Plastic
Round, Oval and Rectangular Pull Handle
Blind Hole, Brass Insert
Inch

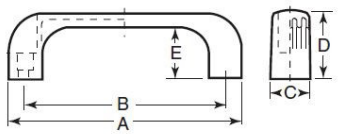




Item No.	A	B	C	D	E	F	H	Vertical Lifting Load (Lbs.)
WCH-30	4.76	4.13	1.14	1/4-20	1.02	1.46	.35	484
WCH-35	5.24	4.33	1.26	1/4-20	1.02	1.57	.35	506
WCH-40	5.24	4.61	1.26	5/16-18	1.02	1.57	.35	506

Reid Select
Black Thermoplastic
Rectangular Pull Handles
Thru Hole
Inch

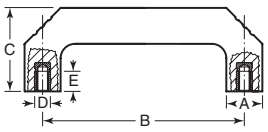




Item No.	A	B	C	D	E	For Socket Cap Screw
JCL-1665	4.33	3.7	0.83	1.46	1.14	6mm or 1/4
JCL-1670	5.51	4.61	0.95	1.58	1.18	8mm or 5/16
JCL-1675	5.47	4.72	0.95	1.58	1.18	6mm or 1/4
JCL-1680	5.47	4.72	0.95	1.58	1.18	8mm or 5/16
JCL-1685	5.95	5.2	1.02	1.69	1.30	8mm or 5/16
JCL-1690	7.87	7.09	1.10	1.97	1.54	8mm or 5/16
JCL-1695	10.24	9.25	1.26	2.09	1.61	10mm or 3/8

KIPP
Black Phenolic
Stirrup Shaped
Metric

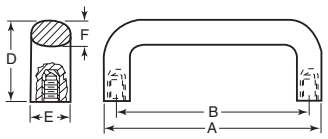




Item No.	A	B	C	Thread D	E	Insert Material
KPB-1334	25	140	58	M8 x 1.25	14	Brass
KPB-1335	25	140	58	M8 x 1.25	14	Steel

ELESA
Black Plastic
Brass Insert
Inch

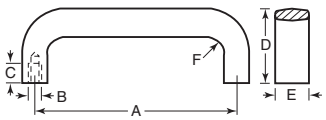




Item No.	A	B	D	E	F	Insert Thread	Insert Depth
KHO-50	3.94	3.38	1.73	.91	.55	1/4-20	0.47
KHO-55	5.20	4.61	1.89	.94	.59	5/16-18	0.51
KHO-60	7.72	7.05	2.24	1.06	.63	5/16-18	0.51

JW Winco
Black Polyurethane Foam Rubber with Steel Core
Internal Metric Threads
Inch

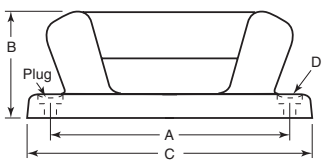




Item No.	A	B	C	D	E	F	Vertical Lifting Load (lbs.)
WCH-50	4.41	M6 x 1.0	.39	1.97	.98	.20	300
WCH-55	5.04	M6 x 1.0	.39	2.13	.98	.28	300
WCH-60	6.30	M6 x 1.0	.39	2.13	.98	.35	250

Black Polyurethane with Steel Core
Hand-Hold
Inch

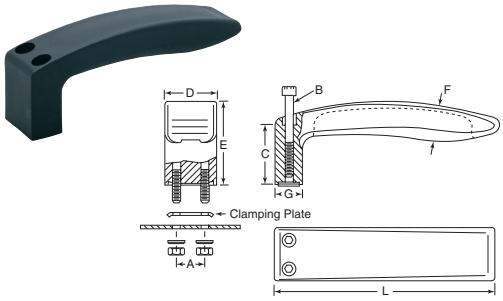




Item No.	A	B	C	D
WBH-15	5.91	2.60	6.89	.26

Customer Service: (800) 253-0421 • (231) 777-3951

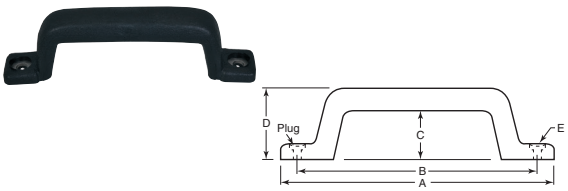
Rohde
Black Thermoplastic
One-Sided
Inch



For use where one-sided fastening is desired. Made from black thermoplastic with matte finish. Supplied with socket head screws, nuts, washers and stainless clamping plate.

Item No.	A	L	B	C	D	E	F	G
TCH-30	.67	5.04	M5 x 45mm	1.30	1.18	1.89	.79	.71
TCH-33	.78	6.14	M6 x 55mm	1.58	1.42	2.28	.95	.87

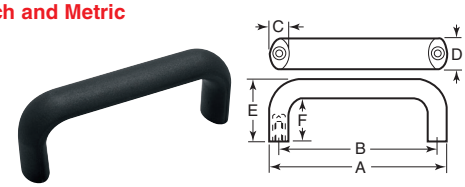
Black Polyurethane with Steel Core
Grab-Handles
Inch



Item No.	A	B	C	D	E
WBH-25	7.48	6.18	1.26	2.17	.31
WBH-20	11.02	9.96	1.45	2.17	.31

Made from black expanded polyurethane molded around a steel core. They are very strong, yet offer a soft padded feel. All are finished with a semi-gloss textured finish with snap-in plugs to cover countersunk mounting holes. Snap-in plugs work best with ¼ inch or M6 pan head screws.

Reid Select
Black Thermoplastic
Solid, Blind Hole
Inch and Metric



Item No.	A	B	C	D	E	F	Insert Thread	Insert Depth
Inch								
JCL-1600	4.19	3.70	.49	.79	1.60	1.10	10-32	.285
JCL-1605	4.19	3.70	.49	.79	1.60	1.10	¼-20	.375
JCL-1610	5.28	4.61	.63	.98	1.97	1.34	10-32	.285
JCL-1615	5.28	4.61	.63	.98	1.97	1.34	¼-20	.375
JCL-1620	5.28	4.61	.63	.98	1.97	1.34	5⁄16-18	.469
JCL-1625	5.83	5.20	.63	.98	1.97	1.34	10-32	.285
JCL-1630	5.83	5.20	.63	.98	1.97	1.34	¼-20	.375
JCL-1635	5.83	5.20	.63	.98	1.97	1.34	5⁄16-18	.469
JCL-1640	6.61	5.91	.71	1.14	2.28	1.58	¼-20	.375
JCL-1645	6.61	5.91	.71	1.14	2.28	1.58	5⁄16-18	.469
JCL-1650	6.61	5.91	.71	1.14	2.28	1.58	⅜-16	.563
JCL-1655	7.76	7.05	.71	1.14	2.28	1.58	5⁄16-18	.469
JCL-1660	7.76	7.05	.71	1.14	2.28	1.58	⅜-16	.563
Metric								
JCL-5250	134	117	16	25	50	34	M6	9
JCL-5255	134	117	16	25	50	34	M8	14
JCL-5260	148	132	16	25	50	34	M6	9
JCL-5275	168	150	18	29	58	40	M8	14
JCL-5285	197	179	18	29	58	40	M8	14

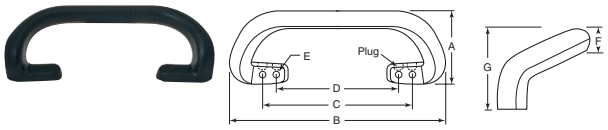
Black Polypropylene with Steel Core
Inch



Molded polypropylene with integral snap-shut sections to conceal mounting holes. Semi gloss, textured finish. Strong, lightweight.

Item No.	Overall Length	Width	Height	Mounting Hole (Slotted)
WBH-30	6.81	.98	1.57	.31 x .20

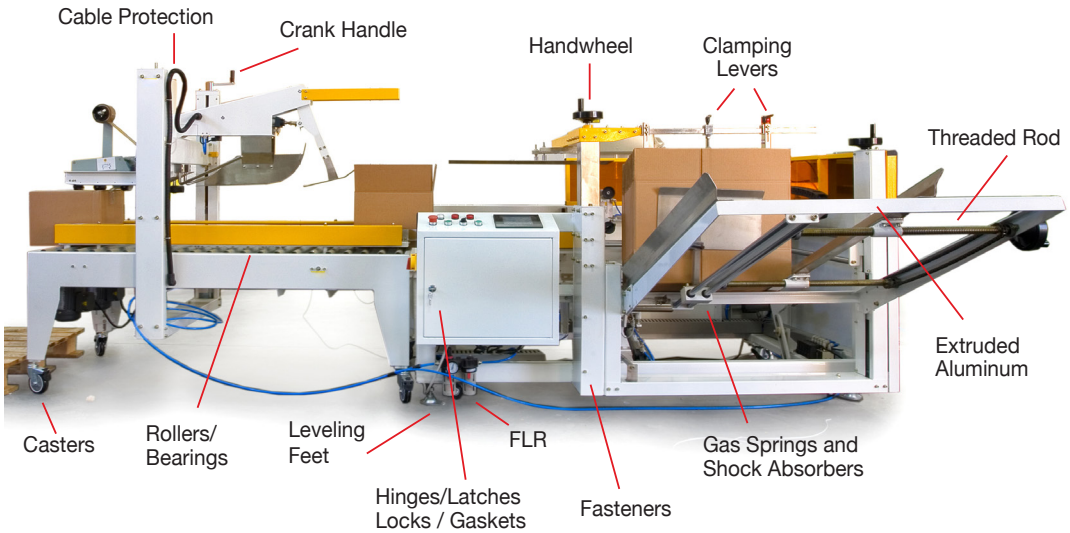
Black Polyurethane with Steel Core
Grab-Rail
Inch



No sharp corners for maximum safety.

Item No.	A	B	C	D	E	F	G
WBH-10	4.02	11.81	8.39	6.50	.28	.98	2.95

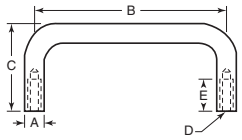
We Have Production Machinery Parts For Any Industry



PULL HANDLES

Aluminum, Brass or 303 Stainless Steel
Round Internal Threads
Inch

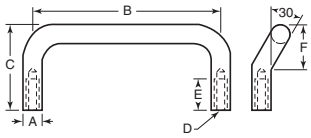




STAINLESS STEEL OPTION AVAILABLE

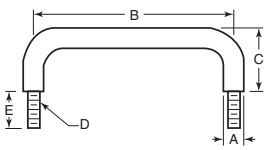
Item No.	A	B	C	Thread D	Min. E
Aluminum - Black Anodized					
VPH-10	5/32	1	1	4-40	1/4
VPH-15	5/32	1 1/4	1	4-40	1/4
VPH-17	5/32	1 1/2	1	4-40	1/4
VPH-20	5/32	2	1	4-40	1/4
VPH-22	5/32	2 1/2	1	4-40	1/4
VPH-25	5/32	3	1	4-40	1/4
VPH-2315	1/4	2	1 1/2	8-32	5/16
VPH-2320	1/4	2 1/2	1 1/2	8-32	5/16
VPH-2325	1/4	3	1 1/2	8-32	5/16
VPH-2330	1/4	3 1/2	1 1/2	8-32	5/16
VPH-2335	1/4	4	1 1/2	8-32	5/16
VPH-2340	1/4	4 1/2	1 1/2	8-32	5/16
VPH-2345	1/4	5	1 1/2	8-32	5/16
VPH-2350	1/4	6	1 1/2	8-32	5/16
VPH-27	5/16	2	1 1/2	10-32	3/8
VPH-28	5/16	2 1/2	1 1/2	10-32	3/8
VPH-30	5/16	3	1 1/2	10-32	3/8
VPH-32	5/16	3 1/2	1 1/2	10-32	3/8
VPH-35	5/16	4	1 1/2	10-32	3/8
VPH-2365	5/16	4	3	10-32	3/8
VPH-37	5/16	4 1/2	1 1/2	10-32	3/8
VPH-40	5/16	4 9/16	1 1/2	10-32	3/8
VPH-42	5/16	5	1 1/2	10-32	3/8
VPH-2367	5/16	5	3	10-32	3/8
VPH-2360	5/16	5 1/2	1 1/2	10-32	3/8
VPH-45	5/16	6	1 1/2	10-32	3/8
VPH-2369	5/16	6	3	10-32	3/8
VPH-43	5/16	6 1/2	1 1/2	10-32	3/8
VPH-44	5/16	7	1 1/2	10-32	3/8
VPH-2373	5/16	7	3	10-32	3/8
VPH-2375	5/16	7 1/2	3	10-32	3/8
VPH-47	5/16	8	1 1/2	10-32	3/8
VPH-48	5/16	9	1 1/2	10-32	3/8
VPH-49	5/16	10	1 1/2	10-32	3/8
VPH-50	3/8	3	1 3/4	10-32	3/8
VPH-55	3/8	4	1 3/4	10-32	3/8
VPH-56	3/8	5	1 3/4	10-32	3/8
VPH-57	3/8	6	1 3/4	10-32	3/8
Aluminum - Black Anodized					
VPH-58	3/8	7	1 3/4	10-32	3/8
VPH-59	3/8	8	1 3/4	10-32	3/8
VPH-61	3/8	10	1 3/4	1/4-20	9/16
VPH-62	3/8	12	1 3/4	1/4-20	9/16
VPH-63	1/2	3	1 7/8	10-32	3/8
VPH-2510	1/2	3	3	10-32	3/8
VPH-60	1/2	4	1 7/8	10-32	3/8
VPH-2515	1/2	4	3	10-32	3/8
VPH-64	1/2	5	1 7/8	10-32	3/8
VPH-2520	1/2	5	3	10-32	3/8
VPH-3090	1/2	5	4	10-32	3/8
VPH-65	1/2	6	1 7/8	1/4-20	9/16
VPH-2540	1/2	6	3	1/4-20	9/16
VPH-70	1/2	7	1 7/8	1/4-20	9/16
VPH-2545	1/2	7	3	1/4-20	9/16
VPH-75	1/2	8	1 7/8	1/4-20	9/16
VPH-2550	1/2	8	3	1/4-20	9/16
VPH-80	1/2	10	1 7/8	5/16-18	9/16
VPH-2570	1/2	10	3	5/16-18	9/16
VPH-85	1/2	12	1 7/8	5/16-18	9/16
VPH-2575	1/2	12	3	5/16-18	9/16
303 Stainless Steel - Passivated, Dull Finish					
VPH-210	5/32	1	1	4-40	1/4
VPH-217	5/32	1 1/2	1	4-40	1/4
VPH-220	5/32	2	1	4-40	1/4
VPH-222	5/32	2 1/2	1	4-40	1/4
VPH-225	5/32	3	1	4-40	1/4
VPH-2410	1/4	1 1/2	1 1/2	8-32	5/16
VPH-2415	1/4	2	1 1/2	8-32	5/16
VPH-2420	1/4	2 1/2	1 1/2	8-32	5/16
VPH-2425	1/4	3	1 1/2	8-32	5/16
VPH-2430	1/4	3 1/2	1 1/2	8-32	5/16
VPH-2435	1/4	4	1 1/2	8-32	5/16
VPH-2440	1/4	4 1/2	1 1/2	8-32	5/16
VPH-2445	1/4	5	1 1/2	8-32	5/16
VPH-2450	1/4	6	1 1/2	8-32	5/16
VPH-227	5/16	2	1 1/2	10-32	3/8
VPH-228	5/16	2 1/2	1 1/2	10-32	3/8
303 Stainless Steel - Passivated, Dull Finish					
VPH-229	5/16	3	1 1/2	10-32	3/8
VPH-232	5/16	3 1/2	1 1/2	10-32	3/8
VPH-230	5/16	4	1 1/2	10-32	3/8
VPH-2465	5/16	4	3	10-32	3/8
VPH-237	5/16	4 1/2	1 1/2	10-32	3/8
VPH-242	5/16	5	1 1/2	10-32	3/8
VPH-2467	5/16	5	3	10-32	3/8
VPH-2460	5/16	5 1/2	1 1/2	10-32	3/8
VPH-245	5/16	6	1 1/2	10-32	3/8
VPH-2469	5/16	6	3	10-32	3/8
VPH-2471	5/16	6 1/2	3	10-32	3/8
VPH-246	5/16	7 1/2	1 1/2	10-32	3/8
VPH-247	5/16	8	1 1/2	10-32	3/8
VPH-248	5/16	9	1 1/2	10-32	3/8
VPH-250	3/8	3	1 3/4	10-32	3/8
VPH-255	3/8	4	1 3/4	10-32	3/8
VPH-256	3/8	5	1 3/4	10-32	3/8
VPH-257	3/8	6	1 3/4	10-32	3/8
VPH-258	3/8	7	1 3/4	10-32	3/8
VPH-259	3/8	8	1 3/4	10-32	3/8
VPH-262	3/8	12	1 3/4	1/4-20	9/16
VPH-260	1/2	4	1 7/8	10-32	3/8
VPH-2530	1/2	4	3	10-32	3/8
VPH-264	1/2	5	1 7/8	10-32	3/8
VPH-2535	1/2	5	3	10-32	3/8
VPH-265	1/2	6	1 7/8	1/4-20	9/16
VPH-2555	1/2	6	3	1/4-20	9/16
VPH-2560	1/2	7	3	1/4-20	9/16
VPH-275	1/2	8	1 7/8	1/4-20	9/16
VPH-2565	1/2	8	3	1/4-20	9/16
VPH-280	1/2	10	1 7/8	5/16-18	9/16
VPH-2580	1/2	10	3	5/16-18	9/16
VPH-285	1/2	12	1 7/8	5/16-18	9/16
VPH-2585	1/2	12	3	5/16-18	9/16
Brass - Zinc, Clear Chromate Plated Finish					
VPH-410	5/16	4	1 1/2	10-32	3/8
VPH-415	5/16	4 9/16	1 1/2	10-32	3/8
VPH-425	3/8	4	1 3/8	10-32	3/8

Aluminum or Stainless Steel
Round Offset, Internal Threads
Inch

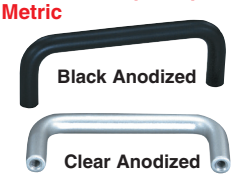
Item No.	A	B	C	Thread D	Min. E	F
Aluminum - Black Anodized Finish						
VPH-2610	5/16	3	1 1/2	10-32	3/8	7/8
VPH-2615	5/16	4	1 1/2	10-32	3/8	7/8
VPH-2620	5/16	4 1/2	1 1/2	10-32	3/8	7/8
VPH-2625	5/16	5	1 1/2	10-32	3/8	7/8
VPH-2635	5/16	6	1 1/2	10-32	3/8	7/8
VPH-2640	5/16	7	1 1/2	10-32	3/8	7/8
VPH-2645	5/16	8	1 1/2	10-32	3/8	7/8
VPH-2655	5/16	10	1 1/2	10-32	3/8	7/8
Stainless - Passivated, Dull Finish						
VPH-2660	5/16	3	1 1/2	10-32	3/8	7/8
VPH-2665	5/16	4	1 1/2	10-32	3/8	7/8
VPH-2670	5/16	4 1/2	1 1/2	10-32	3/8	7/8
VPH-2675	5/16	5	1 1/2	10-32	3/8	7/8
VPH-2685	5/16	6	1 1/2	10-32	3/8	7/8
VPH-2695	5/16	8	1 1/2	10-32	3/8	7/8
VPH-2705	5/16	10	1 1/2	10-32	3/8	7/8

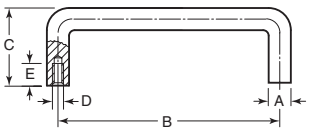
Aluminum, Black Anodized or Dull Finish
Round with Shoulder, External Threads
Inch

Item No.	A	B	C	Thread D	E
Aluminum - Black Anodized Finish					
VPH-1430	5/16	6	1 13/16	1/4-20	1/2
Aluminum - Passivated, Dull Finish					
VPH-1470	5/16	4	1 13/16	10-32	1/2
VPH-1480	5/16	6	1 13/16	1/4-20	1/2

KIPP
Aluminum - Black or Clear Anodized
Round, Stirrup Shaped, Internal Threads
Metric

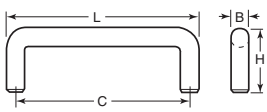




Item No.	A	B	C	Thread D	Min. E
Black Anodized					
KPB-1347	10	55	41	M5 x .80	10
KPB-1348	10	88	41	M5 x .80	10
KPB-1349	10	100	41	M5 x .80	10
KPB-1350	10	120	41	M5 x .80	10
KPB-1351	10	180	41	M5 x .80	10
Clear Anodized					
KPB-1355	10	55	41	M5 x .80	10
KPB-1356	10	88	41	M5 x .80	10
KPB-1357	10	100	41	M5 x .80	10
KPB-1358	10	120	41	M5 x .80	10
KPB-1359	10	180	41	M5 x .80	10

Stainless Steel - Type 316
Round
Inch

STAINLESS STEEL OPTION AVAILABLE

All handles are made from Type 316 stainless steel, with a satin finish. Supplied with stainless steel mounting screws.

Item No.	L	C	H	B	Thread
SUG-105	4.37	4	1.378	.394	8-32
SUG-106	5.374	5	1.378	.394	8-32
SUG-107	6.378	6	1.378	.394	8-32
SUG-108	9.37	9	1.378	.394	8-32
SUG-109	12.382	12	1.378	.394	8-32
SUG-110	3.315	3	1.339	.315	8-32
SUG-111	3.815	3 1/2	1.339	.315	8-32
SUG-112	4.094	3 25/32	1.339	.315	8-32
SUG-113	4.315	4	1.339	.315	8-32

Note: Part numbers SUG-110 through SUG-113 are NSF certified and meet the Food Equipment Industry Standards.

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

KIPP Big Handles

The newly designed Bighand tubular handle with its ergonomic oval shape and selected tube size provides a secure and comfortable grip. Its timeless elegant design makes it attractive and the variable color scheme means it can be optimally adapted to its surroundings.

Material:
Oval tube aluminum.
End piece thermoplastic polyamide.
End cap thermoplastic polyamide.
Adapter bushing stainless steel.

Temperature range:
Permanent temperature max. 100 °C.
Short time use up to 180 °C.

Part#
KBHH-5 to KBHH-720





color codes:



black gray
RAL 7021



Pure orange
RAL 2004



colza yellow
RAL 1021



traffic red
RAL 3020



signal green
RAL 6032



traffic blue
RAL 5017

NEW PRODUCT



Fasteners not included

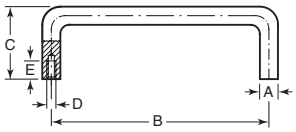
Scan QR Code to learn more and access PDF data sheet

PULL HANDLES

KIPP
Stainless Steel - Type 303
Round, Bow Shaped
Metric

STAINLESS STEEL OPTION AVAILABLE



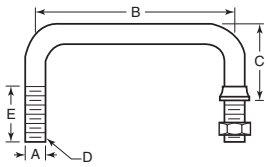


Item No.	A	B	C	Thread D	Min. E
KPB-1411	8	100	35	M5 x .80	10
KPB-1412	10	120	40	M5 x .80	10
KPB-1413	10	250	40	M5 x .80	10
KPB-1414	10	350	40	M5 x .80	10

Aluminum or 303 / 304 Stainless Steel
Round, External Threads Without Shoulder
Inch

STAINLESS STEEL OPTION AVAILABLE



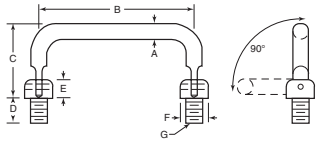


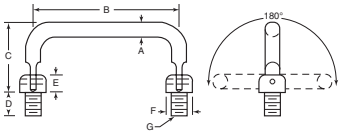
Supplied with nuts and ferrules to give a neat finished look.

Item No.	A	B	C	Thread D	E
Aluminum - Black Anodized Finish					
VPH-504	5/16	3	1 7/16	5/16-18	15/16
VPH-508	5/16	4	1 7/16	5/16-18	15/16
VPH-512	5/16	4 1/2	1 7/16	5/16-18	15/16
VPH-515	5/16	6	1 7/16	5/16-18	15/16
VPH-550	3/8	4	1 1/2	3/8-24	15/16
VPH-560	3/8	4 1/2	1 1/2	3/8-24	15/16
VPH-575	3/8	6	1 1/2	3/8-24	15/16
303/304 Stainless Steel - Passivated, Dull Finish					
VPH-704	5/16	3	1 7/16	5/16-18	15/16
VPH-706	5/16	3 3/4	1 7/16	5/16-18	15/16
VPH-708	5/16	4	1 7/16	5/16-18	15/16
VPH-710	5/16	4 1/4	1 7/16	5/16-18	15/16
VPH-712	5/16	4 1/2	1 7/16	5/16-18	15/16
VPH-714	5/16	5	1 7/16	5/16-18	15/16
VPH-715	5/16	6	1 7/16	5/16-18	15/16
VPH-750	3/8	4	1 1/2	3/8-24	15/16
VPH-760	3/8	4 1/2	1 1/2	3/8-24	15/16
VPH-770	3/8	5	1 1/2	3/8-24	15/16
VPH-775	3/8	6	1 1/2	3/8-24	15/16
VPH-780	3/8	9	1 1/2	3/8-24	15/16

Aluminum
Folding
Round, External Threads, 90°, Free Fall
Inch







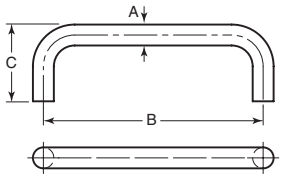
These folding handles fall freely when not in use. Supplied with washers and nuts.

Item No.	A	B	C	D	E	F	Thread G
Aluminum - Black Anodized Finish							
VPH-3760	1/4	3	1.46	3/8	5/16	7/16	1/4-28
VPH-3765	1/4	3 1/2	1.46	3/8	5/16	7/16	1/4-28
VPH-3770	1/4	4	1.46	3/8	5/16	7/16	1/4-28
VPH-3775	1/4	4 1/2	1.46	3/8	5/16	7/16	1/4-28

JW Winco
Stainless Steel - Type 300
Round Blank - No Mounting Threads
Metric

STAINLESS STEEL OPTION AVAILABLE





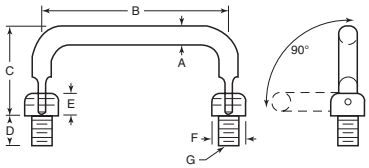
These U-Handles have no threads and are weldable. Can also be used on applications that require special threads or holes for mounting.

Item No.	A	B	C
WCH-705	10	125	43
WCH-710	10	160	43
WCH-715	12	125	51
WCH-720	12	160	51
WCH-725	12	200	51

Aluminum, 303 Stainless Steel or Brass
Folding
Round, External Threads, 90°
Two Position, Spring Loaded Detents
Inch

STAINLESS STEEL OPTION AVAILABLE





These folding handles work in two positions. They are held secure in both the open and retracted position by spring loaded detents. Supplied with nuts.

Item No.	A	B	C	D	E	F	Thread G
Aluminum - Black Anodized Finish							
VPH-3800	1/4	3	1.46	9/16	5/16	7/16	1/4-28
VPH-3810	1/4	4	1.46	9/16	5/16	7/16	1/4-28
VPH-3815	1/4	5	1.46	9/16	5/16	7/16	1/4-28
VPH-910	3/8	4	1.85	5/8	1/2	5/8	3/8-24
VPH-912	3/8	4 1/2	1.85	5/8	1/2	5/8	3/8-24
VPH-915	3/8	5	1.85	5/8	1/2	5/8	3/8-24
VPH-916	3/8	6	1.85	5/8	1/2	5/8	3/8-24
VPH-918	3/8	8	1.85	5/8	1/2	5/8	3/8-24
303 Stainless Steel - Passivated, Dull Finish							
VPH-3780	1/4	4 1/2	1.43	9/16	5/16	7/16	1/4-28
VPH-3785	1/4	5	1.43	9/16	5/16	7/16	1/4-28
VPH-930	3/8	4	1.85	5/8	1/2	5/8	3/8-24
VPH-950	3/8	4 1/2	1.85	5/8	1/2	5/8	3/8-24
VPH-960	3/8	5	1.85	5/8	1/2	5/8	3/8-24
VPH-970	3/8	6	1.85	5/8	1/2	5/8	3/8-24
VPH-980	3/8	8	1.85	5/8	1/2	5/8	3/8-24
Brass - Zinc, Clear Chromate Plated Finish							
VPH-920	3/8	4	1.85	5/8	1/2	5/8	3/8-24

Aluminum or 303 Stainless Steel
Folding
Round, External Threads, 180°
Three Position, Spring Loaded Detents
Inch

STAINLESS STEEL OPTION AVAILABLE



These folding handles work in three positions. They are held secure in the up, down and mid position by spring load detents. Supplied with nuts.

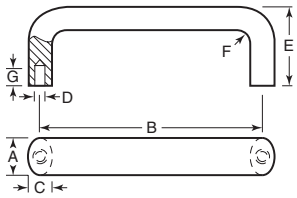
Item No.	A	B	C	D	E	F	Thread G
Aluminum - Black Anodized Finish							
VPH-1620	3/8	4	1.85	5/8	1/2	5/8	3/8-24
VPH-1630	3/8	4 1/2	1.85	5/8	1/2	5/8	3/8-24
VPH-1640	3/8	5	1.85	5/8	1/2	5/8	3/8-24
303 Stainless Steel - Passivated, Dull Finish							
VPH-1710	3/8	3	1.85	5/8	1/2	5/8	3/8-24
VPH-1740	3/8	5	1.85	5/8	1/2	5/8	3/8-24

PULL HANDLES

Aluminum, Brass or Stainless Steel
Oval, Internal Threads
Inch and Metric





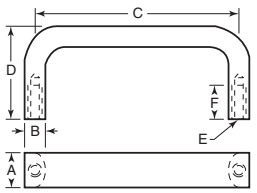


Item No.	A	B	C	D	E	F	Min. G	Vertical Lifting Load (lbs.)
Aluminum - Black Epoxy Finish - Inch								
VPH-1050	5/8	3	9/32	10-32	1 9/32	1/2	3/8	—
VPH-1052	5/8	3	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1070	5/8	4	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1310	5/8	4	9/32	10-32	3	1/2	3/8	—
VPH-1072	5/8	4 1/2	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1080	5/8	4 9/16	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1082	5/8	5	9/32	10-32	1 1/2	1/2	3/8	—
VPH-3050	5/8	6	9/32	10-32	1 3/8	1/2	3/8	—
VPH-1100	5/8	6	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1320	5/8	6	9/32	10-32	3	1/2	3/8	—
VPH-1102	5/8	7	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1104	5/8	8	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1330	5/8	8	9/32	10-32	3	1/2	3/8	—
VPH-1120	5/8	9	9/32	10-32	1 3/4	1/2	3/8	—
VPH-1340	5/8	10	9/32	10-32	3	1/2	3/8	—
VPH-1350	5/8	12	9/32	10-32	3	1/2	3/8	—
Aluminum - Black Anodized Finish - Inch								
VPH-3565	7/16	2	9/32	8-32	1 9/32	3/8	5/16	—
VPH-3675	7/16	2 1/4	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3535	7/16	2 1/2	9/32	10-32	1	3/8	5/16	—
VPH-3570	7/16	2 1/2	9/32	8-32	1 9/32	3/8	5/16	—
VPH-3605	7/16	2 1/2	9/32	10-32	1 9/32	3/8	5/16	—
VPH-3510	7/16	3	9/32	8-32	1	3/8	5/16	—
VPH-3540	7/16	3	9/32	10-32	1	3/8	5/16	—
VPH-3640	7/16	3	9/32	8-32	1 1/2	3/8	5/16	—
VPH-3610	7/16	3 1/2	9/32	10-32	1 9/32	3/8	5/16	—
VPH-3685	7/16	3 1/2	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3515	7/16	4	9/32	8-32	1	3/8	5/16	—
VPH-3545	7/16	4	9/32	10-32	1	3/8	5/16	—
VPH-3645	7/16	4	9/32	8-32	1 1/2	3/8	5/16	—
VPH-3690	7/16	4	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3695	7/16	4 1/4	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3590	5/16	4 1/2	9/32	8-32	1 9/32	3/8	5/16	—
VPH-3620	7/16	4 1/2	9/32	10-32	1 9/32	3/8	5/16	—
VPH-3655	7/16	4 9/16	9/32	8-32	1 1/2	3/8	5/16	—
VPH-3550	7/16	5	9/32	10-32	1	3/8	5/16	—
VPH-3660	7/16	5	9/32	8-32	1 1/2	3/8	5/16	—
VPH-3700	7/16	5	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3555	7/16	6	9/32	10-32	1	3/8	5/16	—
VPH-3665	7/16	6	9/32	8-32	1 1/2	3/8	5/16	—
VPH-3705	7/16	6	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3035	5/8	3	9/32	10-32	1 9/32	1/2	3/8	—
VPH-3060	5/8	4	9/32	10-32	1 1/2	1/2	3/8	—
VPH-3065	5/8	4 9/16	9/32	10-32	1 1/2	1/2	3/8	—
VPH-3075	5/8	4 9/16	9/32	10-24	1 1/2	1/2	3/8	—
VPH-3055	5/8	6	9/32	10-32	1 3/8	1/2	3/8	—
VPH-3085	5/8	9	9/32	10-24	1 3/4	1/2	3/8	—
Aluminum - Clear Anodized Finish - Inch								
VPH-1140	5/8	3	3/8	10-32	1 9/32	1/2	3/8	—
VPH-1150	5/8	4	3/8	10-32	1 3/4	1/2	3/8	—
VPH-1160	5/8	8	3/8	10-32	2	1/2	3/8	—

Item No.	A	B	C	D	E	F	Min. G	Vertical Lifting Load (lbs.)
Brass - Bright Nickel Plated Finish - Inch								
VPH-1090	5/8	4 9/16	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1130	5/8	9	9/32	10-32	1 3/4	1/2	3/8	—
Stainless - Passivated, Dull Finish - Inch								
VPH-1010	7/16	3	9/32	10-32	1 9/32	1/2	3/8	—
VPH-3710	7/16	3	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3715	7/16	4	9/32	10-32	1 1/2	3/8	5/16	—
VPH-1020	7/16	4 9/16	9/32	10-32	1 1/2	1/2	3/8	—
VPH-3720	7/16	5	9/32	10-32	1 1/2	3/8	5/16	—
VPH-3725	7/16	6	9/32	10-32	1 1/2	3/8	5/16	—
VPH-1030	7/16	9	9/32	10-32	1 3/4	1/2	3/8	—
VPH-1011	5/8	3	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1012	5/8	4	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1022	5/8	4	9/32	10-32	3	1/2	3/8	—
VPH-1013	5/8	4 1/2	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1014	5/8	4 9/16	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1015	5/8	5	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1016	5/8	6	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1023	5/8	6	9/32	10-32	3	1/2	3/8	—
VPH-1017	5/8	7	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1018	5/8	8	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1024	5/8	8	9/32	10-32	3	1/2	3/8	—
VPH-1019	5/8	10	9/32	10-32	1 1/2	1/2	3/8	—
VPH-1021	5/8	12	9/32	10-32	1 1/2	1/2	3/8	—
Aluminum - Tumbled Finish - Metric								
WCH-200	.79	3.94	.51	M6 x 1.0	1.85	.51	.39	899
WCH-220	.79	4.41	.51	M6 x 1.0	1.93	.51	.39	843
WCH-240	.79	5.04	.51	M6 x 1.0	2.01	.51	.39	618
WCH-260	.79	6.30	.51	M6 x 1.0	2.01	.51	.39	450
WCH-280	1.02	4.41	.67	M8 x 1.25	2.09	.67	.47	1349
WCH-300	1.02	5.04	.67	M8 x 1.25	2.17	.67	.47	1237
WCH-320	1.02	6.30	.67	M8 x 1.25	2.24	.67	.47	1124
WCH-340	1.02	7.56	.67	M8 x 1.25	2.24	.67	.47	899
WCH-380	1.02	15.75	.67	M8 x 1.25	2.24	.67	.47	180
Aluminum - Black Matte Plastic Finish - Inch								
WCH-480	.79	4.41	.51	1/4-20	1.93	.51	.39	843
WCH-490	.79	5.04	.51	1/4-20	2.01	.51	.39	618
WCH-500	1.02	5.04	.67	5/16-18	2.17	.67	.47	1237
WCH-510	1.02	6.30	.67	5/16-18	2.24	.67	.47	1124
WCH-520	1.02	7.56	.67	5/16-18	2.24	.67	.47	899
Aluminum - Black Matte Plastic Finish - Metric								
WCH-210	.79	3.94	.51	M6 x 1.0	1.85	.51	.39	899
WCH-230	.79	4.41	.51	M6 x 1.0	1.93	.51	.39	843
WCH-250	.79	5.04	.51	M6 x 1.0	2.01	.51	.39	618
WCH-270	.79	6.30	.51	M6 x 1.0	2.01	.51	.39	450
WCH-290	1.02	4.41	.67	M8 x 1.25	2.09	.67	.47	1349
WCH-310	1.02	5.04	.67	M8 x 1.25	2.17	.67	.47	1237
WCH-330	1.02	6.30	.67	M8 x 1.25	2.24	.67	.47	1124
WCH-350	1.02	7.56	.67	M8 x 1.25	2.24	.67	.47	899
WCH-370	1.02	11.81	.67	M8 x 1.25	2.24	.67	.47	337
WCH-390	1.02	15.75	.67	M8 x 1.25	2.24	.67	.47	180

Aluminum, Black Anodized Finish
Half Round, Internal Threads
Inch

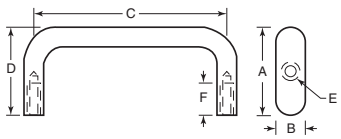




Item No.	A	B	C	D	E	Min. F
VPH-2010	5/8	5/16	3	1 1/2	10-32	3/8
VPH-2020	5/8	5/16	4	1 1/2	10-32	3/8
VPH-2030	5/8	5/16	5	1 1/2	10-32	3/8
VPH-2040	5/8	5/16	6	1 1/2	10-32	3/8

Aluminum, Black Anodized Finish
Rectangular, Internal Threads, Rounded Sides
Inch





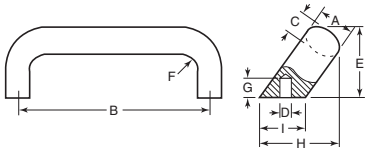
Item No.	A	B	C	D	Thread E	Min. F
VPH-855	7/8	1/4	3	1 1/2	8-32	5/16
VPH-860	7/8	1/4	4	1 1/2	8-32	5/16
VPH-865	7/8	1/4	6	1 1/2	8-32	5/16
VPH-870	7/8	1/4	8	1 1/2	8-32	5/16

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

PULL HANDLES

Aluminum, Black Anodized or Plastic Coated Finish
Ledge and Angle Pulls
35° Angle, Internal Metric Threads
Inch





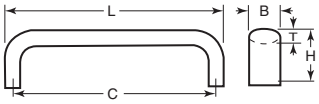
Item No.	A	B	C	D	E	F	G	H	I	Vertical Lifting Load (Lbs.)
Aluminum - Black Anodized Finish										
WCH-400	.79	4.41	.51	M6 x 1.0	1.89	.51	.39	1.97	.94	618
WCH-420	.79	5.04	.51	M6 x 1.0	1.89	.51	.39	1.97	.94	393
WCH-440	1.02	5.04	.67	M8 x 1.25	2.13	.67	.47	2.24	1.26	1012
WCH-460	1.02	6.30	.67	M8 x 1.25	2.13	.67	.47	2.24	1.26	731
Aluminum - Plastic Coated Black Matte Finish										
WCH-410	.79	4.41	.51	M6 x 1.0	1.89	.51	.39	1.97	.94	618
WCH-430	.79	5.04	.51	M6 x 1.0	1.89	.51	.39	1.97	.94	393
WCH-450	1.02	5.04	.67	M8 x 1.25	2.13	.67	.47	2.24	1.26	1012
WCH-470	1.02	6.30	.67	M8 x 1.25	2.13	.67	.47	2.24	1.26	731

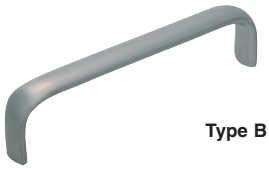
Pull Handles
Stainless Steel - Type 303
Oval, Mirror or Satin Finish
Inch

STAINLESS STEEL OPTION AVAILABLE

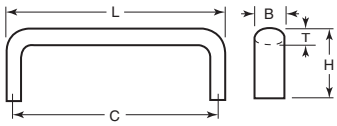


Type A



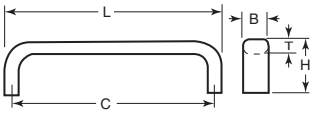


Type B



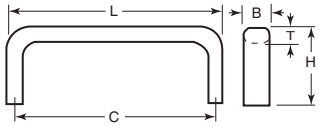


Type C





Type D



These stainless steel general use pull handles are available in a variety of sizes. They are also ideal for a wide range of applications. Handles are Type 303 stainless and are available with a mirror or satin finish. Handles are supplied with mounting screws.

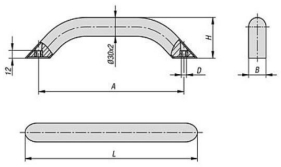
Item No.	L	C	H	Finish	B	T	Thread Size	Thread Depth
Type A								
SUG-7	2.756	2 33/64	.906	Mirror	.512	.236	M4 x .7	.394
SUG-8	2.756	2 33/64	.906	Satin	.512	.236	M4 x .7	.394
SUG-9	3.543	3 5/16	.925	Mirror	.512	.236	M4 x .7	.394
SUG-10	3.543	3 5/16	.925	Satin	.512	.236	M4 x .7	.394
SUG-11	4.331	4 5/32	.945	Mirror	.512	.236	M4 x .7	.394
SUG-12	4.331	4 5/32	.945	Satin	.512	.236	M4 x .7	.394
SUG-13	5.118	4 7/8	.965	Mirror	.512	.236	M4 x .7	.394
SUG-14	5.118	4 7/8	.965	Satin	.512	.236	M4 x .7	.394
SUG-16	5.906	5 43/64	.984	Satin	.512	.236	M4 x .7	.394
Type B								
SUG-18	1.969	1 25/32	.866	Satin	.394	.197	M3 x .5	.394
SUG-19	2.756	2 9/16	.886	Mirror	.394	.197	M3 x .5	.394
SUG-21	3.543	3 1/32	.906	Mirror	.394	.197	M3 x .5	.394
SUG-22	3.543	3 1/32	.906	Satin	.394	.197	M3 x .5	.394

Item No.	L	C	H	Finish	B	T	Thread Size	Thread Depth
Type C								
SUG-25	3.937	3 5/8	1.260	Mirror	.551	.315	M5 x .8	.394
SUG-26	3.937	3 5/8	1.260	Satin	.551	.315	M5 x .8	.394
SUG-27	4.724	4 13/32	1.339	Mirror	.551	.315	M5 x .8	.472
SUG-28	4.724	4 13/32	1.339	Satin	.551	.315	M5 x .8	.472
SUG-29	5.906	5 19/32	1.417	Mirror	.551	.315	M5 x .8	.472
SUG-30	5.906	5 19/32	1.417	Satin	.551	.315	M5 x .8	.472
SUG-32	7.087	6 25/32	1.457	Satin	.551	.315	M5 x .8	.472
Type D								
SUG-38	3.268	2 61/64	1.575	Satin	.551	.315	M5 x .8	.433
SUG-40	4.252	3 15/16	1.575	Satin	.551	.315	M5 x .8	.433
SUG-41	5.236	4 59/64	1.575	Mirror	.551	.315	M5 x .8	.433
SUG-42	5.236	4 59/64	1.575	Satin	.551	.315	M5 x .8	.433
SUG-43	6.220	5 29/32	1.969	Mirror	.551	.315	M5 x .8	.433
SUG-44	8.189	7 7/8	1.969	Mirror	.551	.315	M5 x .8	.433
SUG-45	10.157	9 27/32	1.969	Mirror	.551	.315	M5 x .8	.433
SUG-46	12.126	11 13/16	1.969	Mirror	.551	.315	M5 x .8	.433

Note: Part numbers SUG-7 through SUG-32 are NSF certified and meet the Food Equipment Industry Standards.

KIPP
Tubulaar Handle
Aluminum

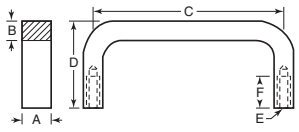




Item No.	A	B	D	H	L
1312657	250	30	M8	65	296.4
1312658	300	30	M8	65	346.4
1312659	400	30	M8	65	446.4
1312660	500	30	M8	65	546.4

Aluminum, Black Anodized Finish
Rectangular, Internal Threads
Inch

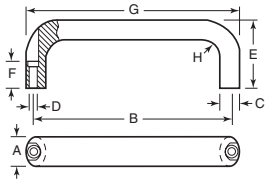




Item No.	A	B	C	D	Thread E	Min. F
VPH-3730	1/2	5/16	3	1	10-32	5/16
VPH-3750	1/2	5/16	4	1 1/2	10-32	5/16
VPH-3735	1/2	5/16	5	1	10-32	5/16
VPH-3755	1/2	5/16	6	1 1/2	10-32	5/16
VPH-810	5/8	1/4	2	1 1/2	8-32	5/16
VPH-812	5/8	1/4	3	1 1/2	8-32	5/16
VPH-815	5/8	1/4	4	1 1/2	8-32	5/16
VPH-817	5/8	1/4	4 1/2	1 1/2	8-32	5/16
VPH-3025	5/8	1/4	6	1 3/8	8-32	5/16
VPH-825	5/8	1/4	6	1 1/2	8-32	5/16
VPH-3030	5/8	1/4	6 1/2	1 3/4	8-32	5/16
VPH-828	5/8	1/4	8	1 1/2	8-32	5/16

Aluminum, Tumbled and Black Plastic Finish
Oval, Counterbored
Inch



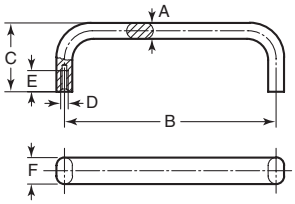


Counterbored so these handles can be fastened from the top using ¼" or 6.3mm cap screws.

Item No.	A	B	C	D	E	F	G	H	Vertical Lifting Load (lbs.)
Aluminum - Tumbled									
WCH-100	1.02	4.57	.67	¼	2.09	.67	5.12	.67	1349
WCH-120	1.02	5.20	.67	¼	2.17	.67	5.75	.67	1012
WCH-140	1.02	6.46	.67	¼	2.24	.67	7.01	.67	787
WCH-160	1.02	7.72	.67	¼	2.24	.67	8.27	.67	618
Aluminum - Plastic Coated Black Matte Finish									
WCH-110	1.02	4.57	.67	¼	2.09	.67	5.12	.67	1349
WCH-130	1.02	5.20	.67	¼	2.17	.67	5.75	.67	1012
WCH-150	1.02	6.46	.67	¼	2.24	.67	7.01	.67	787
WCH-170	1.02	7.72	.67	¼	2.24	.67	8.27	.67	618

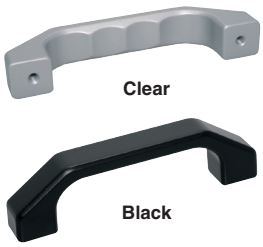
KIPP
Aluminum - Black Powder Coated or Clear Anodized
Oval, Bow Shaped, Internal Threads
Metric

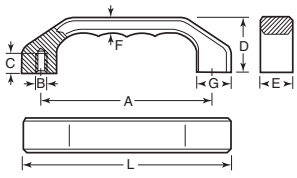




Item No.	A	B	C	Thread D	Min. E	F
Black Powder Coated						
KPB-1363	8	55	40	M5 x .8	10	12
KPB-1364	8	88	40	M5 x .8	10	12
KPB-1365	8	100	40	M5 x .8	10	12
KPB-1366	8	120	40	M5 x .8	10	12
KPB-1367	8	180	40	M5 x .8	10	12
KPB-1368	8	200	40	M5 x .8	10	12
KPB-1379	13	100	50	M6 x 1.0	12	20
KPB-1380	13	112	50	M6 x 1.0	12	20
KPB-1383	13	160	50	M6 x 1.0	12	20
KPB-1386	17	128	55	M8 x 1.25	14	26
KPB-1388	17	180	55	M8 x 1.25	14	26
Clear Anodized						
KPB-1374	8	120	40	M5 x .8	10	12
KPB-1392	13	112	50	M6 x 1.0	12	20
KPB-1394	13	128	50	M6 x 1.0	12	20
KPB-1395	13	160	50	M6 x 1.0	12	20
KPB-1400	17	180	55	M8 x 1.25	14	26
KPB-1402	17	350	55	M8 x 1.25	14	26

Rohde
Aluminum - Black or Clear
Inch



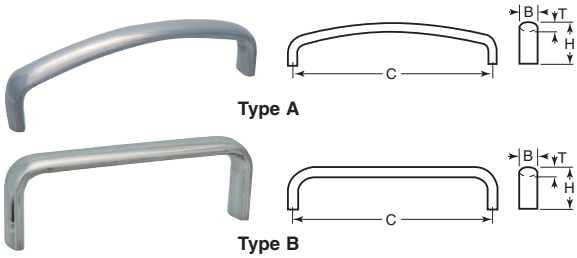


Similar in design to the handles above, except made from solid aluminum anodized in either clear or black satin finish.

Clear Item No.	Black Item No.	A	L	B	C	D	E	F	G
TCH-48	TCH-51	4.72	5.75	M6	.47	1.54	.87	.41	.95
TCH-54	TCH-57	5.51	6.70	M8	.59	1.77	.98	.47	1.10
TCH-60	TCH-63	6.23	7.64	M8	.59	2.05	1.10	.53	1.26

Stainless Steel - Type 316
Oval, Mirror or Satin Finish
Inch

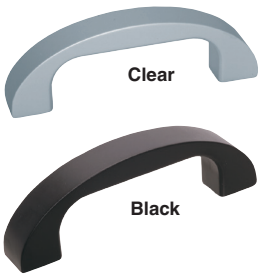
STAINLESS STEEL OPTION AVAILABLE

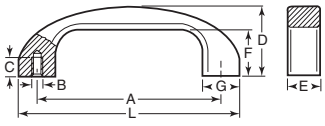


These stainless steel pull handles are available in a variety of sizes. They are also ideal for a wide range of applications. Handles are Type 316 stainless, and are available with a mirror or satin finish. Handles are well suited for marine and chemical environments. Supplied with 304 stainless steel mounting screws.

Item No.	C	H	Finish	B	T	Thread Size	Thread Depth
Type A							
SUG-49	4	1.26	Mirror	.551	.276	8-32	⅜
SUG-52	5	1.26	Satin	.551	.276	8-32	⅜
SUG-54	6	1.26	Satin	.551	.276	8-32	⅜
SUG-58	4	1.181	Satin	.551	.197	6-32	⅜
Type B							
SUG-63	3½	1.260	Mirror	.551	.276	8-32	⅜
SUG-65	4	1.260	Mirror	.551	.276	8-32	⅜
SUG-66	4	1.260	Satin	.551	.276	8-32	⅜
SUG-69	6	1.260	Mirror	.551	.276	8-32	⅜

Rohde
Aluminum - Black or Clear
Bow-Handles
Inch





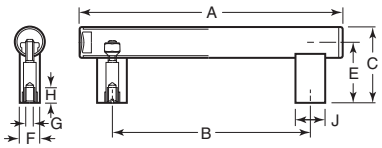
Made from aluminum and anodized with satin finish. Available in either clear or black colors.

Clear Item No.	Black Item No.	A	L	B	C	D	E	F	G
TCH-246	TCH-249	4.72	5.67	M6	.47	1.81	.87	1.22	.95
TCH-252	TCH-255	5.51	6.61	M8	.59	2.09	.98	1.42	1.10

PULL HANDLES

ELESA
Aluminum
Inch



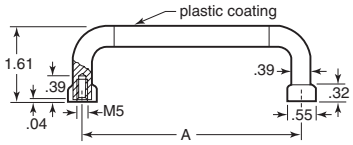


The handle is made from 1.18" aluminum tubing with a polyurethane coat on an epoxy base that is highly resistant to wear, scratches and chemical agents. Metal flake graphite color. The handle supports and end caps are made from plastic and are graphite color. Blind hole mounting.

Item No.	A	+/- .040 B	C	E	F	G	H	J
ESP-500	12.40	9.84	2.95	2.36	.71	M8 x 1.25	.59	1.18
ESP-505	14.37	11.81	2.95	2.36	.71	M8 x 1.25	.59	1.18
ESP-510	18.31	15.75	2.95	2.36	.71	M8 x 1.25	.59	1.18
ESP-515	26.18	23.62	2.95	2.36	.71	M8 x 1.25	.59	1.18

Rohde
Pull Handles
Steel with Plastic Covering
Inch





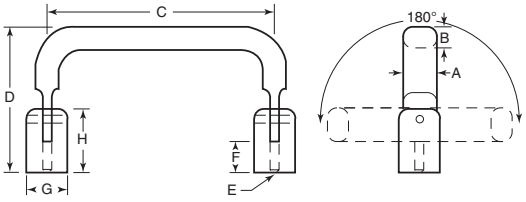
Item No.	A	Item No.	A
TCH-138	2.17	TCH-147	7.87
TCH-141	3.94	TCH-150	9.84
TCH-144	5.35		

High quality handles for front panels and similar applications. Made from round bar stock with matte gloss chromium plated finish. Smooth plastic covering provides a distinctive look and feel. Includes ferrules for nice clean finish. Fastens with M5 screws.

Aluminum or 303 / 304 Stainless Steel
Folding
Oval, Internal Threads, 180°, Free Fall
Inch

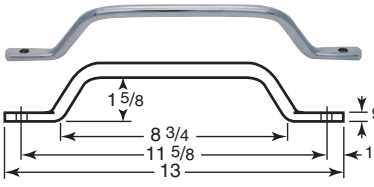


STAINLESS STEEL OPTION AVAILABLE

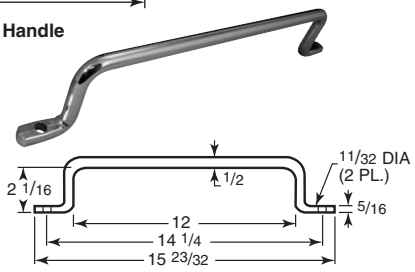


Item No.	A	B	C	D	E	F	G	H
Aluminum - Black Anodized Finish								
VPH-1820	5/8	9/32	4	2	10-32	7/16	5/8	1 1/16
VPH-1840	5/8	9/32	6	2	10-32	7/16	5/8	1 1/16
303 / 304 Stainless - Passivated, Dull Finish								
VPH-1920	5/8	9/32	4	2	10-32	7/16	5/8	1 1/16
VPH-1940	5/8	9/32	6	2	10-32	7/16	5/8	1 1/16

Chrome Plated
½" Diameter Rod
Inch



Small Grab Handle

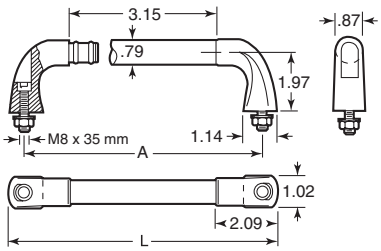


Long Grab Handle

Item No.	Description
HH-102	Small Chrome Grab Handle
HH-103	Long Chrome Grab Handle

Rohde
Stainless Steel - Type 316
Tubular Handles
.79" Tubing Bar Handle
Inch

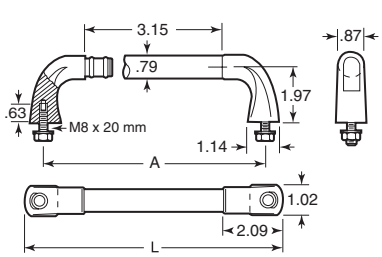




Type A

STAINLESS STEEL OPTION AVAILABLE





Type B

These high quality handles can be fastened from the front or back. The solid shanks are made from precision cast 316 type stainless and electropolished for a dull bright finish. The .093" thick stainless tubes are made from 302 type stainless and electroplated to a semi-matte finish. The shanks have two O-rings to hold and seal the tubing. Type A fastens from the front of the handle and includes M8 x 35mm socket head cap screws, nuts and washers. Type B fastens from the back of the handle and includes M8 x 20mm hex bolts and washers.

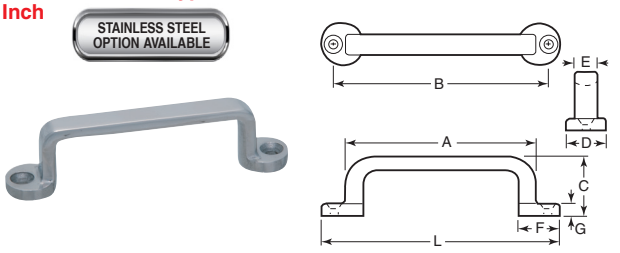
Type A Item No.	Type B Item No.	A	L
TCH-165	TCH-174	7.87	8.90
TCH-171	TCH-180	13.78	14.80

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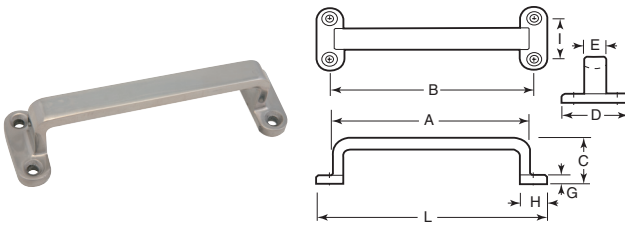
PULL HANDLES

Stainless Steel - Type 304
Inch

STAINLESS STEEL OPTION AVAILABLE



Type A

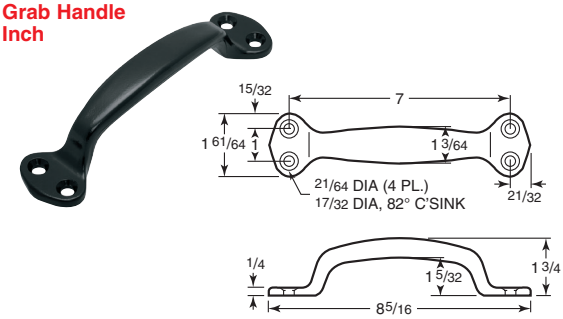


Type B

Handles are NSF certified and meet the Food Equipment Industry Standard. Mirror finish. Supplied with stainless steel mounting screws.

Item No.	Type	L	A	B	C	D	E	F	G	H	I
SUG-85	A	2.559	1.890	2 1/4	.630	.512	.276	—	.138	.512	—
SUG-86	A	3.150	2.520	2 27/32	.787	.551	.315	—	.157	.551	—
SUG-87	A	3.937	2.953	3 15/32	.984	.709	.394	—	.197	.709	—
SUG-88	B	4.724	4.016	4 1/64	1.063	1.417	.472	.551	.197	—	.944
SUG-89	B	5.906	4.961	5 3/16	1.299	1.772	.591	.709	.236	—	1.181

Black Die Cast
Grab Handle
Inch

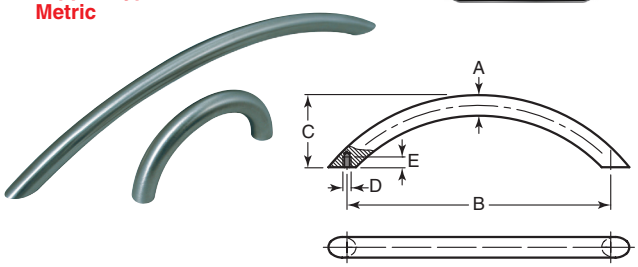


Die cast with black powder coat.

Item No.	Description
HH-101	Black Die Cast Grab Handle

Stainless Steel - Type 303
Arched
Tapped Type
Metric

STAINLESS STEEL OPTION AVAILABLE

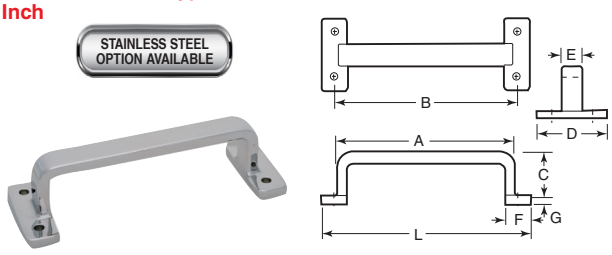


Modern designed handle particularly suitable in the food, chemical or pharmaceutical industry.

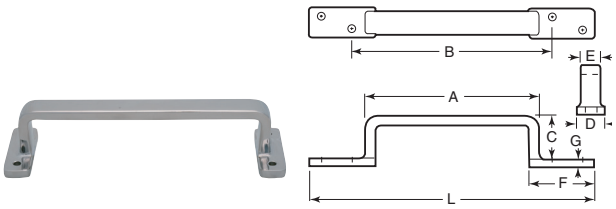
Item No.	A	B	C	D	E Min.
WCH-600	10	64	35	M4 x 0.7	5
WCH-605	10	96	35	M4 x 0.7	5
WCH-610	10	128	35	M4 x 0.7	5
WCH-615	10	160	35	M4 x 0.7	5
WCH-620	10	192	35	M4 x 0.7	5

Stainless Steel - Type 316
Inch

STAINLESS STEEL OPTION AVAILABLE



Type A

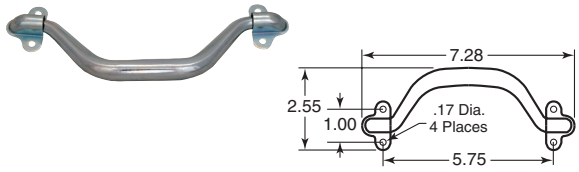


Type B

Handles are NSF certified, and meet the Food Industry Standard. Mirror finish. Supplied with stainless steel mounting screws.

Item No.	Type	L	A	B	C	D	E	F	G
SUG-90	A	7.874	6.693	6 57/64	1.969	2.756	.866	.984	.315
SUG-91	A	11.024	9.843	9 31/32	2.441	3.150	1.024	1.063	.394

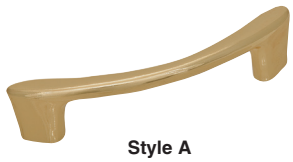
Steel
Toolbox Handle
Inch



Rugged steel, formed construction offering a very economical 180 degree swing handle for small box applications. Steel with zinc finish.

Item No.	Description
NSH-225	Steel Tool Box Handle

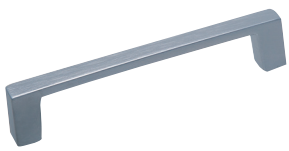
Amerock
Die Cast Zinc
Cabinet Hardware Pull Handles
Inch



Style A



Style B



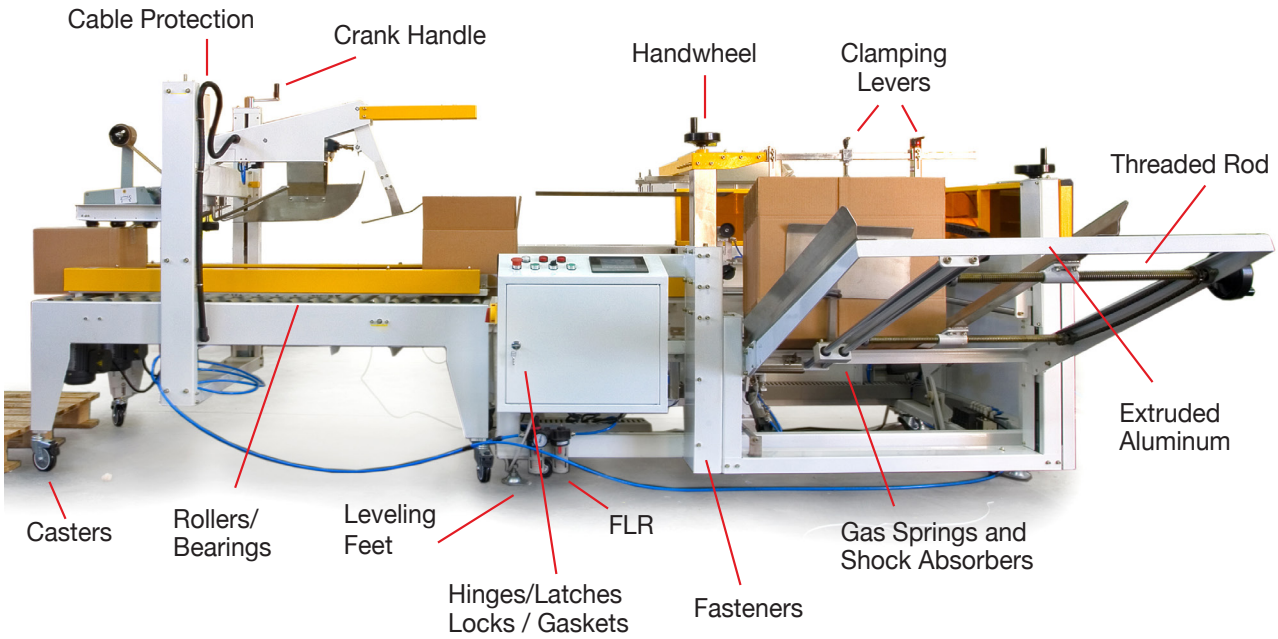
Style D

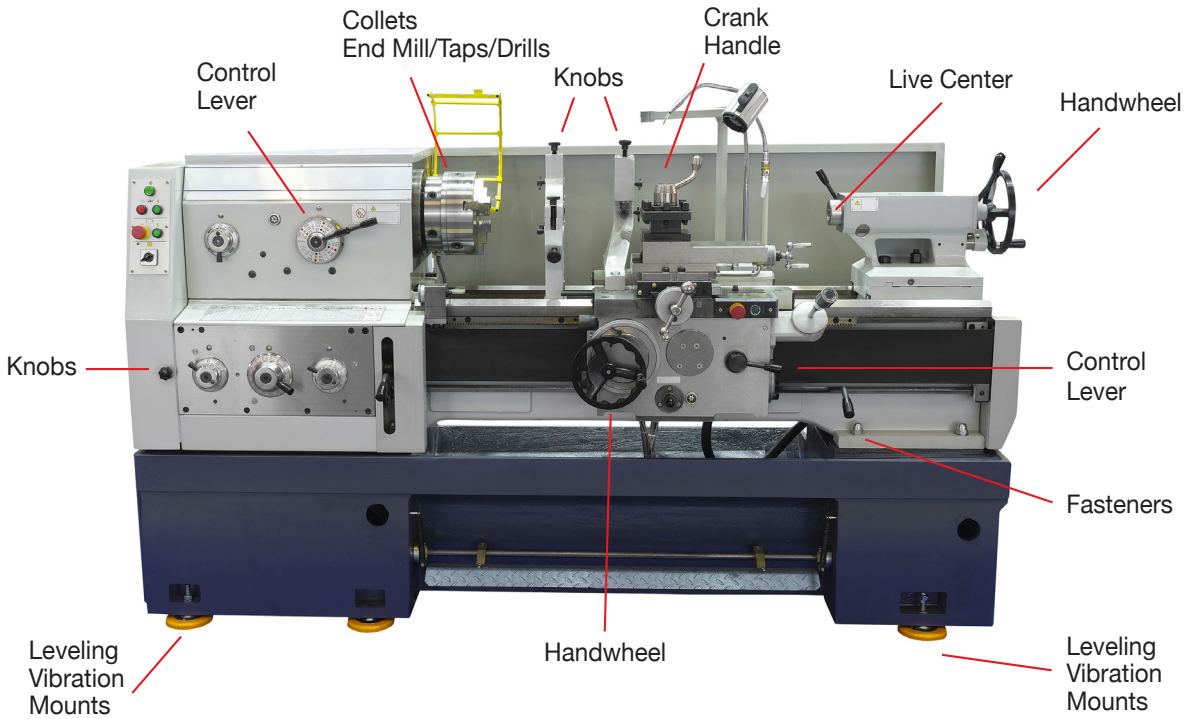
Has 8-32 mounting holes and is supplied with 1" long screw.

Item No.	Style	Finish	Centers	Length	Width	Height
AN-104	B	Bright Chrome	3	4	7/16	3/4

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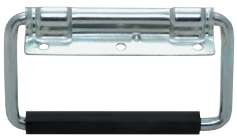




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Stainless Steel ½ Plate Style Handle Inch

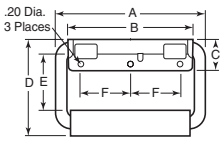
STAINLESS STEEL OPTION AVAILABLE



Type A



Type B

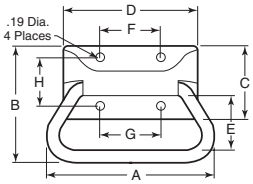


Reduced mounting plate area with three mounting holes for quick attachments. 90 degree stop. Stainless steel spring return and rubber grip. All components of NSH-120 are stainless steel, except the rubber grip.

Item No.	Type	A	B	C	D	E	F	Finish
NSH-100	A	5.12	4.20	1.09	3.09	1.70	1.69	Zinc
NSH-110	A	5.12	4.20	1.09	3.09	1.70	1.69	Black
NSH-120	A	5.12	4.20	1.09	3.09	1.70	1.69	Stainless
NSH-200	B	5.12	4.50	1.19	3.20	1.90	1.69	Zinc

Steel Chest Inch



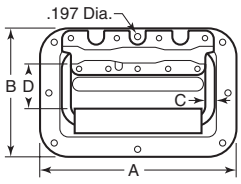


An economical handle that can lift up to 400 lbs. It has a 90 degree stop, no spring return. Made of steel.

Item No.	A	B	C	D	E	F	G	H	Finish
NSH-50	4.10	2.90	1.76	3.37	1.42	1.53	1.53	1.189	Zinc
NSH-60	4.10	2.90	1.76	3.37	1.42	1.53	1.53	1.189	Black
NSH-220	4.43	3.00	2.52	4.00	2.27	3.00	3.00	1.75	Zinc

Recessed Dished Style Handle Steel Inch



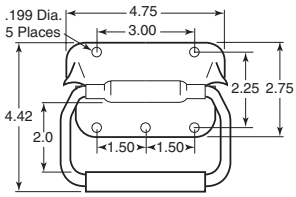


Provides compact flush mounting on containers and other enclosures. The handle includes a 90 degree stop for lifting heavy loads and a durable stainless steel spring to assure that the handle bail returns to the recessed position when released. NSH-10 and NSH-20 mount into a 3.10" x 5.20" rectangular opening. NSH-30 and NSH-40 mount into 3.90" x 5.7". Dish and bail are made of steel.

Item No.	A	B	C	D	Finish
NSH-10	6⅛	4	¼	1 3/16	Zinc
NSH-20	6⅛	4	¼	1 3/16	Black
NSH-30	7	5	5/16	2 1/16	Zinc
NSH-40	7	5	5/16	2 1/16	Black

Steel with Zinc Plated Finish Heavy Duty Style Handle Inch



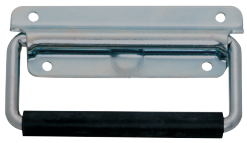


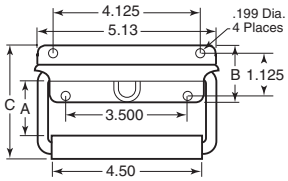
The rugged design makes these handles the mainstay on military containers and other applications where strength and durability are a must. It has a 90 degree stop and stainless steel spring return. A special aluminum sleeve located between the rubber grip and the bail assures the grip will not ride up on the bail during lifting. Made of steel with zinc plated finish.

Item No.	Description
NSH-70	Heavy Duty Spring Return

Steel and Stainless Chest, Box and Drawer Handles Rectangular Bail Style Handle Inch

STAINLESS STEEL OPTION AVAILABLE



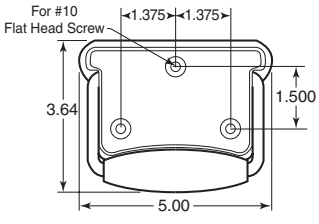


The rectangular bail gives this handle a clean appearance. 90 degree stop. All have a stainless steel double torsion spring for reliable return of the handle and a rubber grip. Steel models have a zinc plated steel bail and mounting plate. Stainless models have stainless bail and mounting plate.

Item No.	Type	A	B	C
NSH-130	Steel	1.50	1.56	3.25
NSH-140	Stainless	1.50	1.65	3.25
NSH-150	Steel	2.38	1.56	4.10
NSH-160	Stainless	2.38	1.65	4.10

Steel with Zinc Plated Finish Chest, Box and Drawer Handles Barrel Grip Style Handle Inch



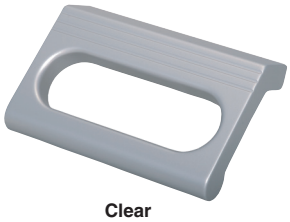


Bail stops at 90 degree when lifting and has two return springs to assure that the bail returns to the recessed position. Made from steel with zinc plated finish.

Item No.	Description
NSH-170	Barrel Grip Handles

PULL HANDLES

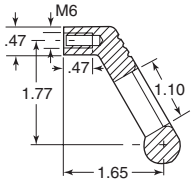
Rohde Aluminum Angle Handles with Hand Grip Inch



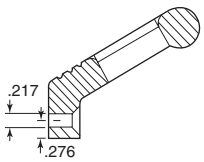
Clear



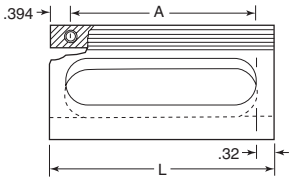
Black



Type A



Type B

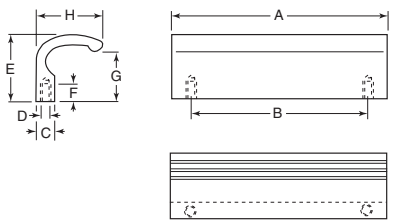


Made from profile aluminum ridges on the handle. Provide a distinctive look and feel. Type A has an internal M6 thread. Type B has a through hole M5 counter sunk screw for lateral assembly. Available in either clear or black anodized finish.

Clear Item No.	Black Item No.	A	L
Type A			
TCH-114	TCH-117	3.39	4.17
TCH-120	TCH-123	4.72	5.51
Type B			
TCH-126	TCH-129	3.39	4.17
TCH-132	TCH-135	4.72	5.51

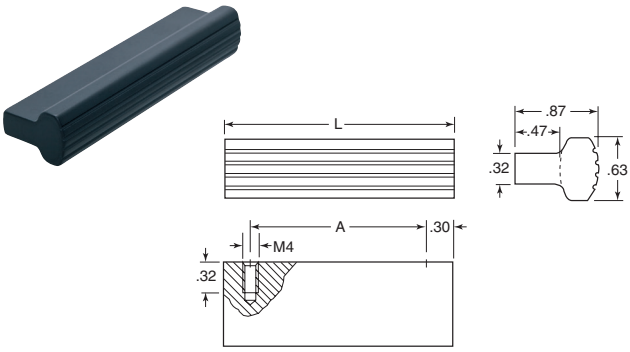
JW Winco Black Coated Aluminum Blind Hole Inch





Item No.	A	B	C	D	E	F	G	H
WGH-1	4.33	3.54	.37	M6 x 1.0	1.26	.35	.94	1.30
WGH-2	4.92	4.13	.37	M6 x 1.0	1.26	.35	.94	1.30
WGH-3	5.51	4.72	.37	M6 x 1.0	1.26	.35	.94	1.30

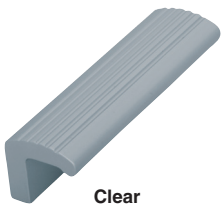
Rohde Aluminum T-Handle Inch



Vibropolished and anodized to a matte finish. Ridges on the handle provide a distinctive look and feel. Fastens with M4 screws.

Clear Item No.	Black Item No.	A	L
TCH-78	TCH-81	1.18	1.77
TCH-84	TCH-87	2.76	3.35
TCH-90	TCH-93	4.13	4.72

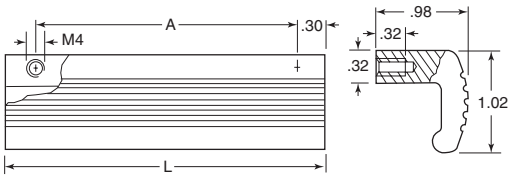
Rohde Aluminum Ledge Handle Inch



Clear



Black



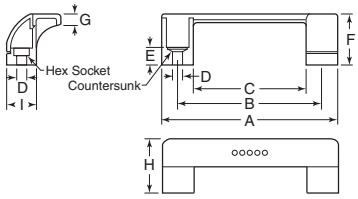
Vibropolished and anodized to a matte finish. Ridges on the handle provide a distinctive look and feel. Fastens with M4 screw.

Clear Item No.	Black Item No.	A	L
TCH-102	TCH-105	2.76	3.35
TCH-108	TCH-111	4.13	4.72

PULL HANDLES

ELESA
Black Plastic Handle with Orange Safety Covers
Wing Style
Inch

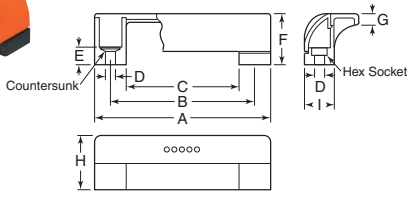




Item No.	Mounting	A	+/- .020 B	C	D	E	F	G	H	I
ESP-355	HH Socket	4.49	3.68	2.91	.26	.43	1.30	.28	1.38	.75
ESP-360	Countersunk	4.49	3.68	2.91	.26	.43	1.30	.28	1.38	.75

ELESA
Black Plastic
Guard Handles and Accessories
Safety Style
Inch





Item No.	Mounting	A	+/- .020 B	C	D	E	F	G	H	I
ESP-345	HH Socket	4.49	3.68	2.91	.26	.43	1.30	.28	1.38	.75
ESP-350	Countersunk	4.49	3.68	2.91	.26	.43	1.30	.28	1.38	.75

ELESA
Black or Yellow Plastic
Guard Handles and Accessories
Safety Covers
Inch



Item No.	Color
ESP-356	Black
ESP-358	Yellow

ELESA
Black or Yellow Plastic
Guard Handles and Accessories
Safety Covers
Inch



Item No.	Color
ESP-346	Black
ESP-348	Yellow

ELESA is the international reference for standard components designed for the mechanical, machinery and industrial equipment markets.



Reid Supply is a full-line distributor of ELESA products.

PULL HANDLES

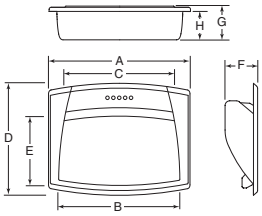
ELESA
Black Plastic
Recessed
Flush Mount
Inch


Colored Inset


Black


Colored Inset with Cover Flap


Black with Cover Flap



This special compact shape and the rounded lines offer a modern design. Made of glass fiber reinforced polyamide based technopolymer. Mounting choices are snap mounting or by two screws.

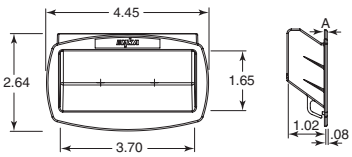
Available Colors: Black Orange Grey Yellow Blue Red

A	B	C	D	E	F	G	H
4.72	4.06	3.70	3.74	2.28	1.04	1.12	.94

Item No.	Description
ESP-700	Flush Pull Handle Snap Mount
ESP-701	Screw Mounted Flush Pull Handle Black
ESP-702	Screw Mounted Flush Pull Handle Orange
ESP-703	Screw Mounted Flush Pull Handle Gray
ESP-704	Screw Mounted Flush Pull Handle Yellow
ESP-705	Screw Mounted Flush Pull Handle Blue
ESP-706	Screw Mounted Flush Pull Handle Red
ESP-707	Screw Mounted Flush Pull Handle With Flap Black
ESP-708	Screw Mounted Flush Pull Handle With Flap Orange
ESP-709	Screw Mounted Flush Pull Handle With Flap Gray
ESP-710	Screw Mounted Flush Pull Handle With Flap Yellow
ESP-711	Screw Mounted Flush Pull Handle With Flap Blue
ESP-712	Screw Mounted Flush Pull Handle With Flap Red

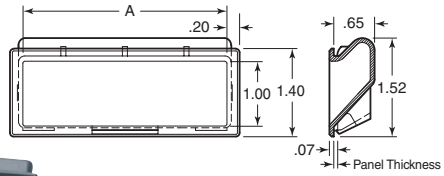
EMKA
Flush Mount
Recessed
Black
Inch





Item No.	Description	A
ELH-1144	Drawer Pull	.05 - .06
ELH-1145	Drawer Pull	.07 - .09

Southco
Black ABS
Recessed
Flush Mount
Inch

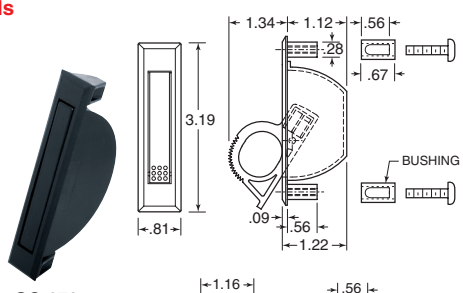




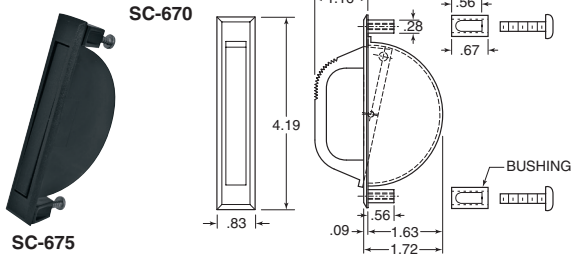
For lifting or pulling. Snap-in design for fast efficient installation. One piece design in ABS low gloss black.

Item No.	Panel Thickness	A	Installation Hole .06 Radius Corners Length	Width
SC-1241	.040 to .055	3.25	3.45	1.21
SC-1242	.055 to .070	3.25	3.45	1.21
SC-1243	.070 to .085	3.25	3.45	1.21
SC-1244	.085 to .100	3.25	3.45	1.21
SC-1251	.040 to .055	5.00	5.20	1.21
SC-1252	.055 to .070	5.00	5.20	1.21
SC-1253	.070 to .085	5.00	5.20	1.21
SC-1254	.085 to .100	5.00	5.20	1.21

Black Plastic
Recessed Pull Handles
Concealed Pulls
Inch



SC-670



SC-675

A pull when you need it, a flush surface when you don't. Completely enclosed housing. Black non-corrosive plastic materials, stainless steel screws and pin. Bushings and M4.2 x 1.4 screws supplied. Maximum panel thickness .25" with screws supplied.

Item No.	Southco	Installation Hole Size
SC-670	67-10	3.00 x .62
SC-675	67-25	3.94 x .62

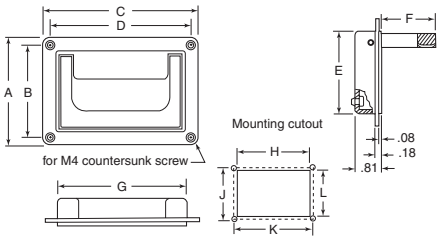
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PULL HANDLES

Rohde
Aluminum
Recessed Pull Handles
Collapsible Tray Handles
Inch



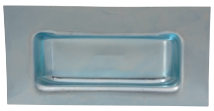


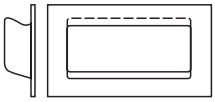
These contemporary tray handles can be used where durability and appearance are important. Mountable in front or behind the housing wall with the same cutout. The handle is spring loaded to retract when not in use.

Item No.	A	B	C	D	E	F	G	Cut Out H	Cut Out J	Cut Out K	Cut Out L
TCH-153	3.58	3.11	5.12	4.64	2.72	1.89	4.29	4.33	3.11	4.65	2.78
TCH-159	3.15	1.97	7.80	7.24	2.84	2.00	6.69	6.73	1.97	7.24	2.87

Steel and Stainless
Recessed
Flush Door or Drawer Pulls
Inch

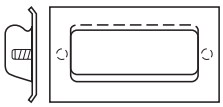
STAINLESS STEEL OPTION AVAILABLE



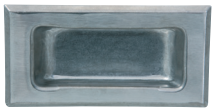


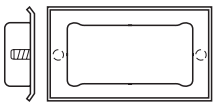
HG-92, 98





HG-93, 99





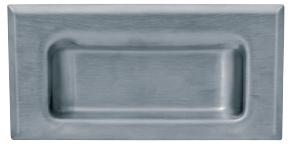
HG-97

Flush pulls are available with either mounting studs or plain for spot welding. Steel is barrel zinc with clear chromate finish. Stainless steel has a brushed satin finish top side only.

w/ Studs Item No.	w/o Studs Item No.	Thread	Stud Center to Center	Plate Size
Steel				
HG-93	HG-92	10-32	4	4.75 x 2.42
Stainless				
HG-99	HG-98	10-32	4	4.75 x 2.42
HG-97	—	10-32	4	4.75 x 2.42

Sugatsune
Stainless Steel - Type 304
Recessed
Flush Drawer Pull
Inch

STAINLESS STEEL OPTION AVAILABLE





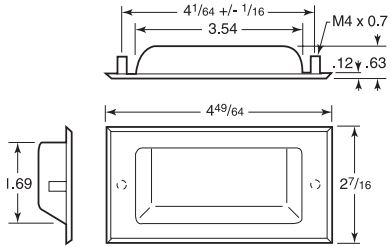
Flush Pull Handle with Male Studs



Flush Pull Handle with Female Studs



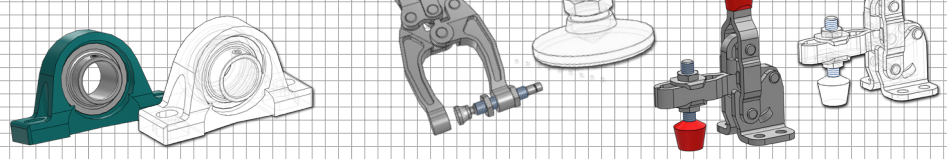
Weld On Flush Pull Handle



Stainless flush pulls are available with either male or female threaded mounting studs, or as a weld on mount. All are 304 stainless with a satin finish.

Item No.	Screw Size	Description
SUG-94	10-32	Flush Pull Handle with Male Studs
SUG-95	M4 x 25	Flush Pull Handle with Female Studs
SUG-96	—	Weld On Flush Pull Handle

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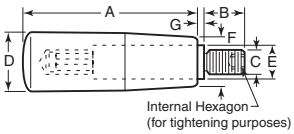


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MACHINE HANDLES

JW Winco
Black Phenolic or Thermoplastic
Revolving - Internal Hex
Inch and Metric



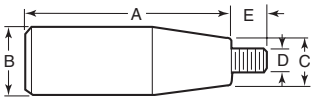


Available with black phenolic or thermoplastic handle. Threaded shaft is zinc plated steel.

Phenolic Item No.	Thermoplastic Item No.	A	B	C	D	E	F	G
Inch								
WPH-30	WPH-5	1.57	.47	¼-20	.71	.39	.59	.10
WPH-35	WPH-10	1.97	.51	¼-20	.83	.39	.67	.10
WPH-40	WPH-15	2.56	.55	5⁄16-18	.91	.51	.75	.10
WPH-45	WPH-20	3.15	.63	⅜-16	1.02	.51	.83	.10
WPH-50	WPH-25	3.54	.63	⅜-16	1.10	.51	.87	.10
WPH-55	—	4.02	.78	½-13	1.22	.55	.98	.10
Metric								
WPH-110	—	1.10	.39	M6 x 1	.55	.31	.43	.02
WPH-115	WPH-60	1.57	.47	M6 x 1	.71	.39	.59	.10
WPH-120	—	1.97	.51	M6 x 1	.83	.39	.67	.10
WPH-125	WPH-70	1.97	.51	M8 x 1.25	.83	.39	.67	.10
WPH-130	—	2.20	.51	M6 x 1	.87	.39	.71	.10
WPH-135	—	2.20	.51	M8 x 1.25	.87	.39	.71	.10
WPH-140	—	2.56	.55	M8 x 1.25	.91	.51	.75	.10
WPH-145	—	2.56	.55	M10 x 1.5	.91	.51	.75	.10
WPH-150	—	3.15	.63	M8 x 1.25	1.02	.51	.83	.10
WPH-155	—	3.15	.63	M10 x 1.5	1.02	.51	.83	.10
WPH-160	WPH-105	3.54	.63	M10 x 1.5	1.10	.51	.87	.10
WPH-165	—	4.02	.79	M12 x 1.75	1.22	.55	.98	.10

Reid Select
Black Plastic
Revolving - Internal Hex
Inch

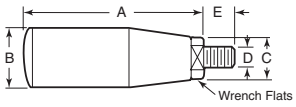




Item No.	A	B	C	D	E
JCL-755	1.57	.71	.59	10-32	.39
JCL-760	1.57	.71	.59	¼-20	.51
JCL-765	1.97	.79	.51	¼-20	.51
JCL-770	1.97	.79	.51	5⁄16-18	.51
JCL-775	2.36	.91	.67	¼-20	.51
JCL-780	2.36	.91	.67	5⁄16-18	.51
JCL-785	2.76	.98	.71	5⁄16-18	.51
JCL-790	3.15	1.06	.79	5⁄16-18	.51
JCL-795	3.15	1.06	.79	⅜-16	.63
JCL-800	3.54	1.14	.83	⅜-16	.63
JCL-805	3.54	1.14	.83	½-13	.79

Reid Select
Black Thermoplastic
Revolving - Wrench Flats
Inch and Metric

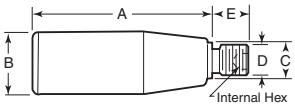




Item No.	A	B	C	D	E
Inch					
JCL-810	2.17	.79	.47	¼-20	.51
JCL-815	2.64	.91	.71	5⁄16-18	.51
JCL-820	3.03	.98	.71	5⁄16-18	.51
JCL-825	3.03	.98	.71	⅜-16	.63
JCL-830	3.43	1.06	.79	⅜-16	.63
JCL-835	3.43	1.06	.79	½-13	.79
JCL-840	3.82	1.14	.79	⅜-16	.63
JCL-845	3.82	1.14	.79	½-13	.79

Reid Select
Black Thermoplastic
Revolving - Internal Hex
Inch and Metric

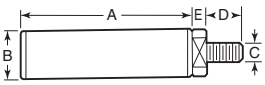




Item No.	A	B	C	D	E	Hex mm
Inch						
JCL-975	2.05	.79	.43	¼-20	.51	3
JCL-980	2.44	.91	.55	¼-20	.51	4
JCL-985	2.44	.91	.55	5⁄16-18	.51	4
JCL-990	2.83	.98	.55	5⁄16-18	.51	4.5
JCL-995	2.83	.98	.55	⅜-16	.63	4.5
JCL-1000	3.23	1.02	.55	⅜-16	.63	5
JCL-1005	3.23	1.02	.55	½-13	.79	5
JCL-1010	3.62	1.10	.55	⅜-16	.63	6
JCL-1015	3.62	1.10	.55	½-13	.79	6

Reid Select
Black Thermoplastic
Revolving and Folding - Straight
Inch and Metric

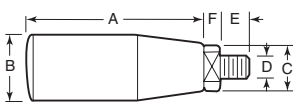




Item No.	A	B	C	D	E
Inch					
JCL-920	3.23	.98	⅜-16	.34	.29
JCL-925	3.54	.98	⅜-16	.34	.29

Reid Select
Black Thermoplastic
Revolving and Folding - Conical
Inch and Metric





Item No.	A	B	C	D	E	F
Inch						
JCL-910	1.97	.79	.55	¼-20	.51	.24
JCL-915	2.76	.98	.79	5⁄16-18	.51	.26

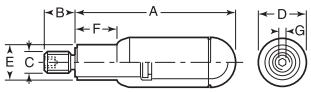
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MACHINE HANDLES

ELESA
Black Plastic
Revolving
Inch

elesa ERGOSTYLE®





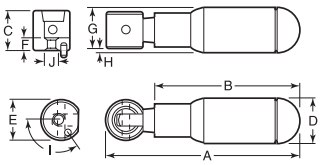
Made of high impact strength plastic. Zinc plated steel shank. Shank has hex socket in the end for installation. Threads on shank are metric.

Item No.	A	B	C	D	E	F	Hex G
ESP-130	2.56	.51	M6	.81	.59	.73	4mm
ESP-135	2.87	.59	M8	.87	.63	.75	4mm
ESP-140	3.39	.59	M8	.96	.69	.94	4mm
ESP-145	3.39	.67	M10	.96	.69	.94	5mm
ESP-150	3.74	.67	M10	1.04	.71	.98	5mm

ELESA
Black Plastic
Revolving and Fold Away
Inch

elesa ERGOSTYLE®



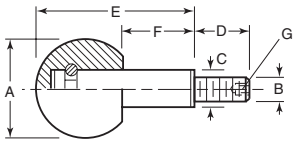


Made of high impact strength plastic. Steel double guide stud and base. Pull handle to engage and snap into upright position. Pull up and push it in to fold away. For installation: pin OD and length is .12" x .12". Threaded revolving also available.

Item No.	A	B	C	D	E	F	G	H	I (Degrees)	J
ESP-155	3.27	2.56	.59	.81	.63	.20	.75	.06	90	M4
ESP-160	3.58	2.87	.59	.87	.63	.20	.77	.10	90	M4
ESP-165	3.82	2.87	.77	.87	.79	.24	.85	.02	120	M6
ESP-170	4.33	3.39	.77	.96	.79	.24	.91	.06	120	M6
ESP-175	4.69	3.74	.77	1.04	.79	.24	.94	.10	120	M6

Zinc Plated Steel with Black Phenolic Ball
Revolving
Inch and Metric





The ball turns freely on the shaft making it useful for many turning applications, such as on hand wheels. Ball is black phenolic, shaft is zinc plated steel.

Item No.	A	B	C	D	E	F	G
Inch							
WRK-50	.98	¼-20	.39	.43	1.48	.59	.118
WRK-60	1.26	5/16-18	.51	.51	1.89	.75	.157
WRK-70	1.57	⅜-16	.63	.55	2.40	.94	.197
WRK-80	1.97	½-13	.79	.83	3.07	1.22	.236
Metric							
WRK-10	.98	M6 x 1	.39	.43	1.48	.59	.118
WRK-20	1.26	M8 x 1.25	.51	.51	1.89	.75	.157
WRK-30	1.57	M10 x 1.5	.63	.55	2.40	.94	.197
WRK-40	1.97	M12 x 1.75	.79	.83	3.07	1.22	.236

Ask Us About
Colors and Customizing Knobs

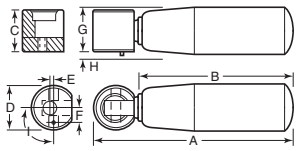


NOBODY WILL SERVE THE **CUSTOMER BETTER.**

MACHINE HANDLES

ELESA
Black Plastic
Fold Away
Inch



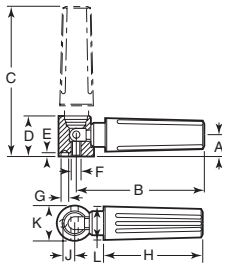


Pull handle to engage and snap into upright position. Pull up and push it toward center of wheel to fold away. For installation - pin OD and length is .118 x .118". Fastens with screw. Pin and screw included.

Item No.	A	B	C	D	E	F	G	H	Degrees I
KHG-5	2.91	2.20	.59	.630	.039	.217	.75	.10	90
KHG-10	3.27	2.56	.59	.630	.039	.217	.79	.12	90
KHG-15	4.09	3.15	.77	.787	.024	.276	.94	.10	120
KHG-20	4.65	3.54	.91	1.024	.059	.374	1.06	.04	90

KIPP
Black Thermoplastic
Novo-Grip®
Fold Away
Inch

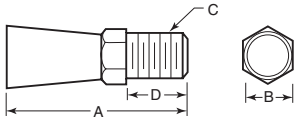




Item No.	A	B	C	D	E	F	G	H	J	K	L
GK-900	.315	1.85	2.15	.57	.18	M4 x .7	.098	1.38	.17	.51	.51
GK-905	.394	2.28	2.64	.71	.18	M5 x .8	.138	1.73	.21	.63	.63
GK-910	.492	2.81	3.23	.89	.24	M6 x 1	.177	2.16	.26	.79	.79
GK-915	.630	3.88	4.43	1.14	.26	M8 x 1.25	.217	2.78	.35	1.02	.98

Carbon Steel
Finger Handle
Inch



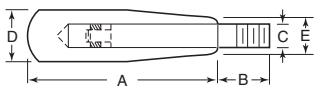


Made of low carbon steel. Black oxide finish.

Item No.	A	B	C	D
JFH-5	¾	¼	10-32	¼
JFH-10	1 3/16	⅜	5/16-18	5/16

Steel - Chrome Finish
Revolving - Externally Threaded
Inch



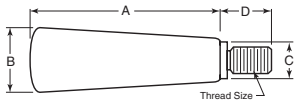


Two piece construction requiring assembly.

Item No.	A	B	C	D	E
B2-28	2	½	¼-20	⅝	15/32
B2-33	2½	9/16	5/16-18	¾	9/16
B2-39	3¼	⅝	⅜-16	⅞	⅝
B2-53	4	¾	½-13	1	23/32

Aluminum - Clear Anodized
Revolving or Solid
Inch



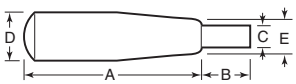


The handle is made from 2024 aluminum, the stem is made from low carbon steel. The finish on the revolving handle is either clear or black anodized. The solid handle is clear anodized.

Revolving Clear Item No.	Revolving Black Item No.	Solid Clear Item No.	A	B	C	D	Thread
JAH-901	JAH-911	—	1⅛	7/16	⅜	⅜	10-24
JAH-902	JAH-912	JAH-301	1 9/16	⅝	½	7/16	¼-20
JAH-903	JAH-913	JAH-302	2	⅞	9/16	½	5/16-18
JAH-904	JAH-914	JAH-303	2½	1	¾	½	⅜-16
JAH-905	JAH-915	—	2⅞	1⅛	15/16	½	½-13
JAH-906	JAH-916	JAH-304	3¼	1¼	15/16	½	½-13

Steel - Chrome Finish
Solid - Press Fit or Externally Threaded
Inch





Press Fit





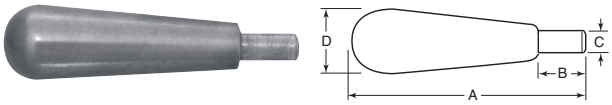
Threaded

Item No.	A	B	C	D	E
B1-25	2	7/16	¼	½	13/32
B1-28	2	7/16	¼-20	½	13/32
B1-31	2½	9/16	5/16	⅝	15/32
B1-33	2½	9/16	5/16-18	⅝	15/32
B1-38	3¼	11/16	⅜	¾	⅝
B1-39	3¼	11/16	⅜-16	¾	19/32
B1-50	4	13/16	½	1	23/32
B1-53	4	13/16	½-13	1	23/32

Note: Either ground for press fit or threaded as indicated

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Reid SUPPLY AN ESSENTRA COMPANY

Steel - Polished and Chrome Plated Finish
Conical Revolving - Press Fit
Inch



Item No.	A	B	C	D
CHR-1	2.625	.563	.3135-.3145	.75
CHR-2	3.781	.750	.376-.377	1.00
CHR-3	5.125	.938	.501-.502	1.25

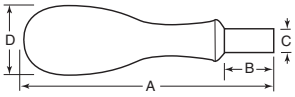
Steel - Polished Finish
Solid or Revolving - Press Fit
Inch



Solid



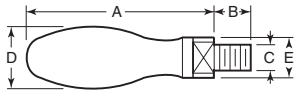
Revolving



Item No.	A	B	C	D
Solid				
HS-17	1.719	.375	.251-.252	.437
HS-19	1.906	.438	.251-.252	.625
HS-21	2.156	.438	.313-.314	.750
HS-24	2.438	.438	.313-.314	.812
HS-34	3.438	.688	.438-.439	1.125
HS-39	3.906	.688	.438-.439	1.187
HS-57	5.750	1.188	.626-.627	1.500
Revolving				
HR-26	2.625	.563	.313-.314	.875
HR-37	3.781	.750	.376-.377	1.125
HR-40	4.031	.750	.438-.439	1.187
HR-51	5.125	.938	.501-.502	1.375

Steel - Polished Chrome Finish
Solid and Revolving - Threaded
Inch



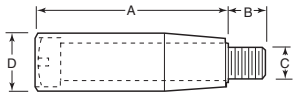


Item No.	A	B	C	D	E
Solid					
B5-19	1 11/16	3/8	10-24	1/2	.32
B5-25	2	1/2	1/4-20	5/8	.40
B5-31	2 5/8	9/16	5/16-18	13/16	.51
B5-37	3 3/16	11/16	3/8-16	1	.63
B5-50	3 3/4	13/16	1/2-13	1 1/4	.75
Revolving					
B6-19	1 7/8	3/8	10-24	1/2	.32
B6-25	2 1/4	1/2	1/4-20	5/8	.40
B6-31	2 13/16	9/16	5/16-18	13/16	.51
B6-37	3 3/8	11/16	3/8-16	1	.63
B6-50	4	13/16	1/2-13	1 1/4	.75

Stainless Steel Type 302
Revolving - Externally Threaded
Inch

STAINLESS STEEL OPTION AVAILABLE

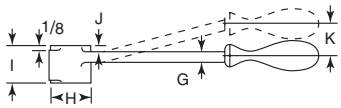




Item No.	A	B	C	D
B7-3S	1.50	.24	10-32	.39
B7-4S	1.57	.31	1/4-20	.47
B7-6S	2.50	.39	5/16-18	.75

Malleable Iron
Offset
Inch



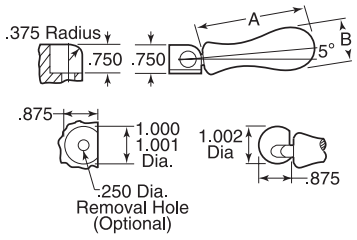


Item No.	A	B	C	D	E	F	G	H	I	J	K
OH-6	6 13/16	6	13/16	3 1/4	1 1/8	1/2	3/8	1 1/8	1	3/16	7/8
OH-8	8 15/16	8	15/16	3 5/8	1 1/4	1/2	3/8	1 1/2	1 1/4	3/16	1
OH-10	11	10	1	3 5/8	1 1/4	1/2	3/8	1 5/8	1 1/4	3/16	1 1/4

Aluminum Grips - Steel Spindle
Revolving Fold Away Safety Handles
Inch







Revolving handle folds away automatically when not in use. Eliminates a protruding handle to crack against knuckles or catch shirt cuffs. Replacement spring sold separately below.

Item No.	A	B
FAH-2	2.125	.875
FAH-3	3.063	1.125
FAH-10	Replacement Spring	

HAND WHEELS

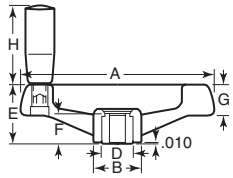
ELESA
Black Plastic
Dished
Two Spoke With or Without Revolving Handle
Inch



Without Revolving Handle



With Revolving Handle



A modern design hand wheel made from high strength technopolymer materials. Molded-in steel hub with anodized aluminum trim disc supplied. Available with or without a revolving handle.

Item No.	A	B	Bore	D	E	F	G	H
w/o Handle								
KHI-5	3.15	.91	.312	.71	1.38	.67	.71	—
KHI-10	3.90	.98	.375	.71	1.46	.67	.79	—
KHI-15	4.88	1.22	.375	.87	1.73	.87	.87	—
KHI-20	6.30	1.57	.500	1.02	2.01	1.06	.98	—
KHI-25	7.87	1.97	.625	1.18	2.40	1.34	1.10	—
KHI-30	9.84	2.32	.625	1.38	2.76	1.50	1.26	—
KHI-35	11.73	2.60	.750	1.57	3.07	1.69	1.42	—
w/ Handle								
KHI-60	3.15	.91	.312	.71	1.38	.67	.71	1.57
KHI-65	3.90	.98	.375	.71	1.46	.67	.79	2.20
KHI-70	4.88	1.22	.375	.87	1.73	.87	.87	2.56
KHI-75	6.30	1.57	.500	1.02	2.01	1.06	.98	2.56
KHI-80	7.87	1.97	.625	1.18	2.40	1.34	1.10	3.15
KHI-85	9.84	2.32	.625	1.38	2.76	1.50	1.26	3.54
KHI-90	11.73	2.60	.750	1.57	3.07	1.69	1.42	3.54

NEED HELP?

CALL 1.800.253.0421 OR EMAIL US
sales@reidsupply.com
FOR A QUOTE OR QUESTIONS
OUR TEAM IS HERE AND READY TO HELP

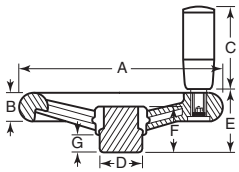
ELESA
Black Plastic
Dished
Three Spoke With or Without Revolving Handle
Inch



Without Revolving Handle



With Revolving Handle



Constructed of high strength reinforced plastic, fully polished. Steel hub molded in for strength. Available with or without through bore.

Item No.	A	B	Bore	C	D	E	F	G
w/o Handle								
KHK-5	3.86	.55	—	—	.94	1.57	1.42	.47
KHK-7	3.86	.55	.375	—	.94	1.57	1.42	.47
KHK-15	6.18	.87	—	—	1.26	1.97	1.50	.59
KHK-17	6.18	.87	.500	—	1.26	1.97	1.50	.59
KHK-20	7.09	.94	—	—	1.57	2.20	1.69	.59
KHK-25	7.80	.94	—	—	1.57	2.20	1.69	.59
KHK-27	7.80	.94	.625	—	1.57	2.20	1.69	.59
KHK-30	9.72	1.18	—	—	1.93	2.60	1.73	.59
w/ Handle								
KHK-60	3.86	.55	—	1.57	.94	1.57	1.42	.47
KHK-63	3.86	.55	.375	1.57	.94	1.57	1.42	.47
KHK-65	4.88	.71	—	1.97	.94	1.77	1.42	.47
KHK-67	4.88	.71	.375	1.97	.94	1.77	1.42	.47
KHK-70	6.18	.87	—	2.56	1.26	1.97	1.50	.59
KHK-73	6.18	.87	.500	2.56	1.26	1.97	1.50	.59
KHK-75	7.09	.94	—	3.15	1.57	2.20	1.69	.59
KHK-77	7.09	.94	.500	3.15	1.57	2.20	1.69	.59
KHK-80	7.80	.94	—	3.15	1.57	2.20	1.69	.59
KHK-83	7.80	.94	.625	3.15	1.57	2.20	1.69	.59
KHK-87	9.72	1.18	.625	3.54	1.93	2.60	1.73	.59
KHK-85	9.72	1.18	—	3.54	1.93	2.60	1.73	.59
KHK-90	11.34	1.26	—	3.94	2.28	3.07	2.20	.71
KHK-93	11.34	1.26	.750	3.94	2.28	3.07	2.20	.71

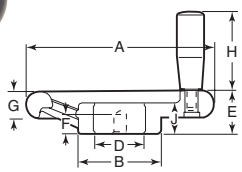
ELESA
Black Plastic
Extra Large Hub Dished
Three Spoke With or Without Revolving Handle
Inch



Without Revolving Handle



With Revolving Handle

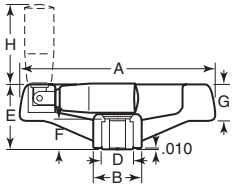


Made from high strength black reinforced plastic. Resistant to solvents, oils, grease and other chemical agents. Extra large molded in steel hub allows for greater mounting flexibility such as square hole, coaxial shafts, drive holes, etc.

Item No.	A	B	Bore	D	E	F	G	H	J
w/o Revolving Handle									
ESP-425	4.92	2.17	.394	1.26	1.10	.59	.71	—	.87
ESP-430	6.30	2.76	.394	1.65	1.38	.67	.87	—	1.02
ESP-435	7.83	3.35	.472	2.09	1.57	.79	1.02	—	1.06
ESP-440	9.80	4.13	.472	2.68	1.93	.87	1.18	—	1.18
w/ Revolving Handle									
ESP-405	4.92	2.17	.394	1.26	1.10	.59	.71	2.56	.87
ESP-410	6.30	2.76	.394	1.65	1.38	.67	.87	2.56	1.02
ESP-415	7.83	3.35	.472	2.09	1.57	.79	1.02	3.15	1.06
ESP-420	9.80	4.13	.472	2.68	1.93	.87	1.18	3.15	1.18

ELESA
Black Plastic
Dished
Two Spoke with Fold Away Handle
Inch





Same description as the above hand wheel, except it is supplied with a revolving fold away handle. The handle folds away by pulling up on it and moving towards the center. The handle snaps into use by pulling up.

Item No.	A	B	Bore	D	E	F	G	H
KHJ-5	3.15	.91	.312	.71	1.38	.67	.71	1.97
KHJ-10	3.90	.98	.375	.71	1.46	.67	.79	2.20
KHJ-15	4.88	1.22	.375	.87	1.73	.87	.87	2.56
KHJ-20	6.30	1.57	.500	1.02	2.01	1.06	.98	2.56
KHJ-25	7.87	1.97	.625	1.18	2.40	1.34	1.10	3.15
KHJ-30	9.84	2.32	.625	1.38	2.76	1.50	1.26	3.54
KHJ-40	14.67	2.72	.750	1.57	3.23	1.69	1.50	3.54

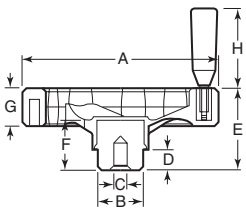
JW Winco
Black Plastic
Straight
Three Spoke With or Without Revolving Handle
Inch



Without Revolving Handle



With Revolving Handle

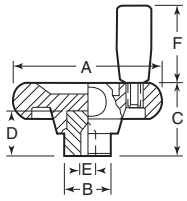


Constructed of black fiber reinforced thermoplastic. Zinc plated molded in steel hub. Available without handle or with a revolving plastic handle with zinc plated steel spindle. Hand wheels come with a pilot hole in the hub.

Item No.	A	B	Pilot Hole C	D	E	F	G	H
w/o Revolving Handle								
WHW-100	3.94	.94	.16	.47	1.81	.94	.79	—
WHW-105	4.92	.94	.24	.47	2.01	1.10	.94	—
WHW-110	6.30	1.26	.24	.59	2.40	1.22	1.10	—
WHW-115	7.87	1.57	.24	.59	2.91	1.57	1.26	—
w/ Revolving Handle								
WHW-120	3.94	.94	.16	.47	1.81	.94	.79	1.97
WHW-125	4.92	.94	.24	.47	2.01	1.10	.94	1.97
WHW-130	6.30	1.26	.24	.59	2.40	1.22	1.10	2.76
WHW-135	7.87	1.57	.24	.59	2.91	1.57	1.26	3.54

ELESA
Black Phenolic
Six or Eight Lobed w/ Revolving Handle
Steel Hub
Inch

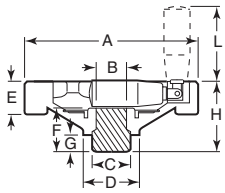




Item No.	A	B	C	D	E	F	No. of Lobes
KHN-20	3.27	.95	1.58	.91	.24	1.57	6
KHN-25	3.94	1.42	1.73	1.22	.31	1.97	6
KHN-65	5.12	1.57	1.85	1.18	.31	2.56	8

ELESA
Black Plastic
Dished
Solid With Fold Away Handle
Inch





This heavy duty solid wheel is made with high strength reinforced thermosetting plastic. Comes with molded-in steel hub and is available with or without through bore. The revolving fold away handle snaps into use by pulling up. It is folded away by pulling up on the handle and pushing it towards the center. Finger grips on front and back of rim.

Item No.	A	B	Bore	C	D	E	F	G	H	L
KHM-5	3.94	.79	—	.94	1.53	1.02	1.29	.47	2.04	2.20
KHM-7	3.94	.79	.375	.94	1.53	1.02	1.29	.47	2.04	2.20
KHM-10	4.92	.94	—	1.26	1.81	1.18	1.50	.59	2.36	2.56
KHM-12	4.92	.94	.375	1.26	1.81	1.18	1.50	.59	2.36	2.56
KHM-15	5.91	.94	—	1.26	1.89	1.26	1.50	.59	2.48	2.56
KHM-17	5.91	.94	.500	1.26	1.89	1.26	1.50	.59	2.48	2.56
KHM-18	7.01	1.22	—	1.57	2.20	1.26	1.69	.59	2.56	3.54
KHM-20	7.91	1.22	—	1.57	2.36	1.34	1.69	.59	2.76	3.54
KHM-22	7.91	1.22	.625	1.57	2.36	1.34	1.69	.59	2.76	3.54
KHM-25	9.80	1.50	—	1.93	2.76	1.42	1.73	.59	3.03	3.54
KHM-27	9.80	1.50	.625	1.93	2.76	1.42	1.73	.59	3.03	3.54

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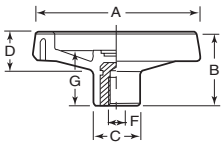
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HAND WHEELS

Reid Select Black Thermoplastic Dished Two Spoke Without Handle Inch

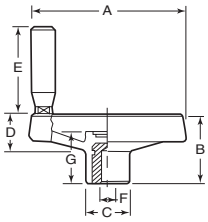




Item No.	A	B	C	D	Bore F	G
JCL-1020	3.15	1.34	.94	.55	.313	1.02
JCL-1025	3.94	1.65	1.10	.63	.375	1.30
JCL-1030	5.12	1.97	1.26	.79	.375	1.38
JCL-1035	6.46	2.20	1.57	.94	.500	1.57
JCL-1050	13.78	3.15	2.68	1.46	.750	1.97

Reid Select Black Thermoplastic Dished Two Spoke With Revolving Handle Inch

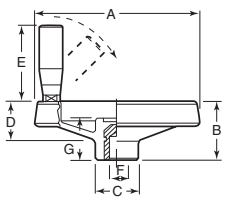




Item No.	A	B	C	D	E	Bore F	G
JCL-1055	3.15	1.34	.94	.55	2.20	.313	1.02
JCL-1060	3.94	1.65	1.10	.63	2.20	.375	1.30
JCL-1065	5.12	1.97	1.26	.79	2.60	.375	1.38
JCL-1070	6.46	2.20	1.57	.94	2.99	.500	1.57
JCL-1075	7.88	2.40	1.97	1.10	2.99	.625	1.54
JCL-1080	10.04	2.80	2.20	1.26	3.62	.625	1.85
JCL-1085	13.78	3.15	2.68	1.46	3.62	.750	1.97

Reid Select Black Thermoplastic Dished Two Spoke With Folding Handle Inch

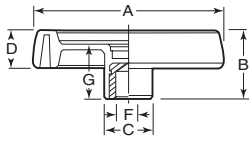




Item No.	A	B	C	D	E	Bore F	G
JCL-1105	3.15	1.33	.94	.55	2.20	.313	1.02
JCL-1110	3.94	1.69	1.10	.63	2.20	.375	1.30
JCL-1115	5.12	1.96	1.26	.78	2.99	.375	1.38
JCL-1120	6.46	2.20	1.57	.94	2.99	.500	1.57
JCL-1125	7.87	2.40	1.96	1.10	2.99	.625	1.53
JCL-1130	10.04	2.79	2.20	1.26	3.85	.625	1.85

Reid Select Black Thermoplastic Straight Solid Without Handle Inch

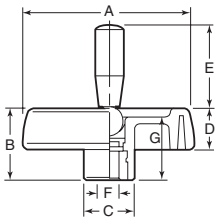




Item No.	A	B	C	D	Bore F	G
JCL-1420	3.15	1.30	.94	.67	.313	1.14
JCL-1425	3.94	1.54	1.18	.83	.375	1.34
JCL-1430	4.96	1.73	1.42	.94	.375	1.46
JCL-1435	5.91	2.09	1.50	1.14	.500	1.69
JCL-1440	6.81	2.20	1.57	1.26	.500	1.81
JCL-1445	7.99	2.32	1.73	1.34	.625	1.93

Reid Select Black Thermoplastic Straight Solid with Middle Fold Away Handle Inch

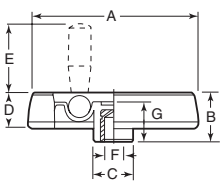




Item No.	A	B	C	D	E	Bore F	G
JCL-1530	3.15	1.30	.94	.71	1.54	.313	1.14
JCL-1535	3.94	1.65	1.18	.94	1.93	.375	1.42

Reid Select Black Thermoplastic Straight Solid with Fold Away Handle Inch

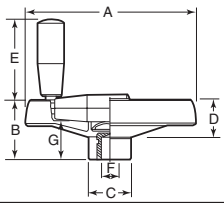




Item No.	A	B	C	D	E	Bore F	G
JCL-1515	5.91	2.09	1.50	1.10	2.36	.500	1.73
JCL-1520	6.89	2.28	1.57	1.30	3.15	.500	1.89
JCL-1525	7.87	2.48	1.73	1.50	3.54	.625	2.09

Reid Select Black Thermoplastic Dished Two Spoke With Fold Away Handle Inch





Item No.	A	B	C	D	E	Bore F	G
JCL-1090	5.12	2.05	1.22	.91	2.36	.375	1.32
JCL-1095	6.30	2.17	1.57	.94	2.75	.500	1.38
JCL-1100	13.78	3.14	2.68	1.45	3.54	.750	1.96

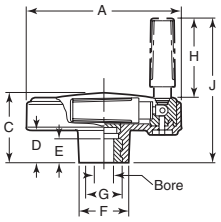
KIPP
Black Thermoplastic
Novo-Grip® Straight
Solid With Revolving or Fold Away Handle
Inch and Metric



With Fold Away Handle



With Revolving Handle

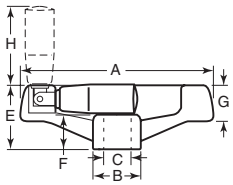


Made from black thermoplastic, this modern design gives an attractive look along with sure gripping and positioning. No spokes for hands to get caught in. The steel hub is molded in for strength and a cap is provided to cover shaft end for neat appearance. Available with revolving handle or a fold away revolving handle.

Item No.	A	Bore Size	C	D	E	F	G	H	J
w/ Fold Away Handle - Inch									
GK-575	3.15	⅜	1.48	.69	.51	.98	.75	1.57	2.95
GK-585	3.94	½	1.73	.79	.51	1.10	.75	1.93	3.54
GK-590	4.92	½	2.09	.93	.73	1.38	.98	2.34	4.29
GK-595	6.30	½	2.54	1.10	.73	1.77	.98	3.29	5.67
GK-600	6.30	⅝	2.54	1.10	.73	1.77	.98	3.29	5.67
w/ Fold Away Handle - Metric									
KPB-1519	80	8	37.5	17.5	13	25	19	40	75
KPB-1524	125	12	53	23.5	18.5	35	25	60	109
KPB-1525	125	14	53	23.5	18.5	35	25	60	109
KPB-1526	125	16	53	23.5	18.5	35	25	60	109
w/ Revolving Handle - Inch									
GK-550	3.15	⅜	1.48	.69	.51	.98	.75	1.57	2.95
GK-560	3.94	½	1.73	.79	.51	1.10	.75	1.93	3.54
w/ Revolving Handle - Metric									
KPB-1509	80	8	37.5	17.5	13	25	19	40	75
KPB-1510	80	10	37.5	17.5	13	25	19	40	75
KPB-1512	100	10	44	20	13	28	19	49	90

KIPP
Aluminum
Dished
Two Spoke With Fold Away Handle
Inch



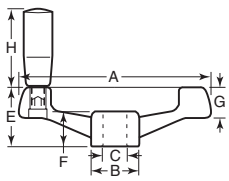


Constructed of cast aluminum with a matte black powder coat finish. The finish can withstand temperatures up to 500° F. Supplied with a revolving fold away handle. The handle folds away by pulling up on it and moving it towards the center. The handle snaps into use by pulling up.

Item No.	A	B	Bore C	E	F	G	H
KHV-105	4	1.25	.375	1.77	.812	.750	2.20
KHV-110	4	1.25	.500	1.77	.812	.750	2.20
KHV-115	5	1.31	.375	1.93	.875	.750	2.56
KHV-120	5	1.31	.500	1.93	.875	.750	2.56
KHV-125	6	1.44	.500	2.05	1.000	.750	2.56
KHV-130	6	1.44	.625	2.05	1.000	.750	2.56
KHV-135	8	1.94	.500	2.74	1.375	.937	3.15
KHV-140	8	1.94	.625	2.74	1.375	.937	3.15
KHV-145	10	1.94	.625	2.80	1.375	.937	3.15
KHV-150	10	1.94	.750	2.80	1.375	.937	3.15

KIPP
Aluminum
Dished
Two Spoke With or Without Revolving Handle
Inch





Constructed of cast aluminum with a matte black powder coat finish. The finish can withstand temperatures up to 500° F. Available with or without a revolving handle.

Item No.	A	B	Bore C	E	F	G	H
w/o Handle							
KHV-5	4	1.25	.375	1.77	.812	.750	—
KHV-10	4	1.25	.500	1.77	.812	.750	—
KHV-15	5	1.31	.375	1.93	.875	.750	—
KHV-20	5	1.31	.500	1.93	.875	.750	—
KHV-25	6	1.44	.500	2.05	1.00	.750	—
KHV-30	6	1.44	.625	2.05	1.00	.750	—
KHV-40	8	1.94	.625	2.74	1.375	.937	—
KHV-50	10	1.94	.750	2.80	1.375	.937	—
w/ Handle							
KHV-55	4	1.25	.375	1.77	.812	.750	2.20
KHV-60	4	1.25	.500	1.77	.812	.750	2.20
KHV-65	5	1.31	.375	1.93	.875	.750	2.56
KHV-70	5	1.31	.500	1.93	.875	.750	2.56
KHV-75	6	1.44	.500	2.05	1.00	.750	2.56
KHV-80	6	1.44	.625	2.05	1.00	.750	2.56
KHV-85	8	1.94	.500	2.74	1.375	.937	3.15
KHV-90	8	1.94	.625	2.74	1.375	.937	3.15
KHV-95	10	1.94	.625	2.80	1.375	.937	3.15
KHV-100	10	1.94	.750	2.80	1.375	.937	3.15

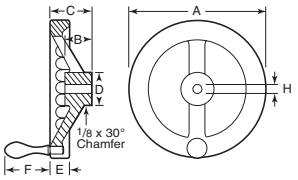
Coated Aluminum - Black
Dished
Two Spoke With or Without Revolving Handle
Inch



Without Handle



Revolving Handle



Available with deluxe chrome plated steel revolving handle or without handle. High-quality aluminum alloy casting color-coated with baked on enamel finish. Cleaner - no black rub-off from aluminum or rust from cast iron. Finger-grip design minimizes hand-slipping.

Item No.	A	Hub Lgth. B	C	D	E	F	H
w/o Handle							
AW-1045	4	.875	1.438	1.313	.750	—	.375
AW-1065	6	1.125	2.000	1.750	.875	—	.500
AW-1085	8	1.250	2.375	2.125	1.000	—	.625
w/ Chrome-Plated Revolving Handle							
AW-1145	4	.875	1.438	1.313	.750	2.063	.375
AW-1165	6	1.125	2.000	1.750	.875	3.031	.500
AW-1165A	6	1.125	2.000	1.750	.875	3.031	.625

HAND WHEELS

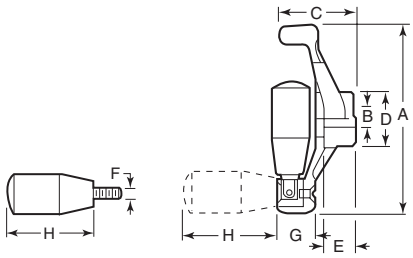
Aluminum Die Cast
Dished
Two Spoke With Fold Away or Revolving Handle
Inch



Fold Away Handle



Revolving Handle



Made from die cast aluminum and are available with fold away revolving handle or revolving handle.

Item No.	A	Ream B	C	D	E	F	G	H
Fold Away Handle								
A7-4	4.00	3/8	1 5/8	1 1/8	.67	1/4-20	3/4	2.19
A7-5	5.00	3/8	1 3/4	1 1/4	.70	5/16-18	7/8	2.50
A7-6	6.30	1/2	1 7/8	1 1/2	.80	3/8-16	1	3.15
A7-8	8.00	5/8	2 1/8	1 7/8	1.00	3/8-16	1 1/8	3.15
Revolving Handle								
A9-4	4.00	3/8	1 5/8	1 1/8	.67	1/4-20	3/4	1.96
A9-5	5.00	3/8	1 3/4	1 1/4	.70	5/16-18	7/8	2.49
A9-6	6.30	1/2	1 7/8	1 1/2	.80	3/8-16	1	3.24
A9-8	8.00	5/8	2 1/8	1 7/8	1.00	3/8-16	1 1/8	3.24

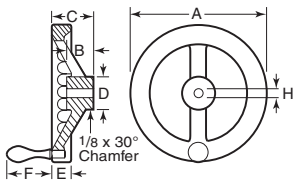
Aluminum
Dished
Two Spoke With or Without Revolving Handle
Inch



Revolving Handle



Without Handle



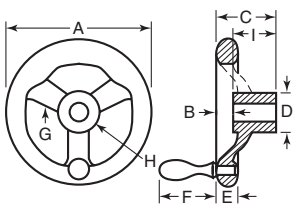
These wheels are cast from a non-pitting, non-rusting, corrosion-free aluminum alloy. Revolving handles are machined from steel. Finger-grips minimize hand slipping. Polished rim. Available with or without revolving handle.

Item No.	A	Hub Lgth. B	C	D	E	F	H
w/o Handle							
AW-1040	4	.875	1.438	1.313	.750	—	.375
AW-1040A	4	.875	1.438	1.313	.750	—	.500
AW-1050	5	1.000	1.625	1.500	.813	—	.375
AW-1060	6	1.125	2.000	1.750	.875	—	.500
AW-1070	7	1.250	2.250	1.750	1.000	—	.500
AW-1080	8	1.250	2.375	2.125	1.000	—	.625
w/ Handle							
AW-1140	4	.875	1.438	1.313	.750	2.063	.375
AW-1150	5	1.000	1.625	1.500	.813	2.063	.375
AW-1160	6	1.125	2.000	1.750	.875	3.031	.500
AW-1170	7	1.250	2.250	1.750	1.000	3.281	.500
AW-1180	8	1.250	2.375	2.125	1.000	3.281	.625

Cast Iron
Dished
Counter-Balanced
Three Spoked w/o Handle, w/Handle, w/Revolving Handle
Inch



Without Handle





Solid Handle

These hand wheels are made of the best quality line grain cast iron. Center hole and faces of hub are true with rim. Rim and handles are ground and polished to high luster.

Item No.	A	B	C	D	E	F	No. of Spokes G	Hole Size H	Hub Lgth. I
w/o Handle									
WND-6	6	.75	2	1.50	.875	—	3	.500	1.25
w/Solid Handle									
WSD-6	6	.75	2	1.50	.875	2.750	3	.500	1.25
w/ Revolving Handle									
WRD-6	6	.75	2	1.50	.875	3.031	3	.500	1.25

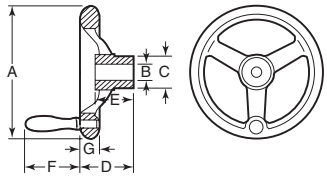
Cast Iron
Dished
Three Spoked With Solid or Revolving Handle
Inch



Solid Handle



Revolving Handle

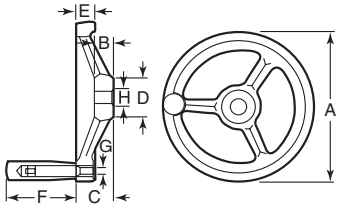


Made of cast iron with chrome plated finish. Rim and handle are ground and polished to high luster. Available with solid or revolving chrome plated handle. The 8", 10" and 12" wheels are scalloped for better gripping.

Item No.	No. of Spokes	A	Bore B	C	D	E	F	G
w/ Solid Handle								
A23-3S	3	3	⅜	1	1	1	1 1/16	½
A23-4S	3	4	⅜	1⅛	1½	1 1/16	1 1/16	9/16
A23-5S	3	5	⅜	1¼	1⅝	1 3/16	2	⅝
A23-6S	3	6	½	1⅜	1 13/16	1¼	2⅜	11/16
A23-8S	3	8	⅝	1⅝	2 3/16	1½	3 3/16	⅞
A23-10S	5	10	⅝	1⅞	2⅜	1⅝	3 3/16	15/16
A23-12S	5	12	¾	2 3/16	2½	1¾	3¾	1
w/ Revolving Handle								
A23-3R	3	3	⅜	1	1	1⅜	1⅞	½
A23-4R	3	4	⅜	1⅛	1½	1 1/16	1⅞	9/16
A23-5R	3	5	⅜	1¼	1⅝	1 3/16	2¼	⅝
A23-6R	3	6	½	1⅜	1 13/16	1¼	2 13/16	11/16
A23-8R	3	8	⅝	1⅝	2 3/16	1½	3⅜	⅞
A23-10R	5	10	⅝	1⅞	2⅜	1⅝	3⅜	15/16
A23-12R	5	12	¾	2 3/16	2½	1¾	4	1

Cast Iron with Satin Chrome Plating
Dished
Three Spoked with Revolving Handle
Inch

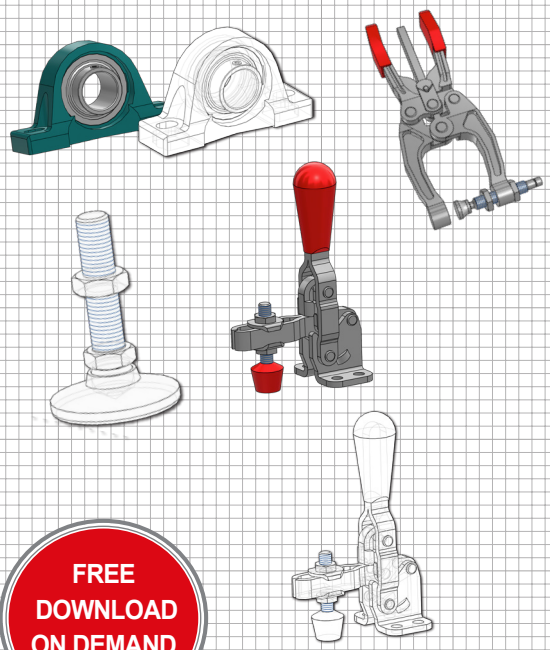




Made of high grade cast iron with polished finish and chrome plating. Center hole and face of hub are true with rim. Hand wheels have threaded hole for easy handle assembly. Steel revolving handle is included.

Item No.	A	B	C	D	E	F	G	Bore H
HA1-4A	4	¾	1¼	⅞	9/16	2	¼-20	⅜
HA1-5A	5	¾	1 1/16	1⅛	⅝	2½	5/16-18	⅜
HA1-6A	6¼	13/16	1 9/16	1¼	¾	3¼	⅜-16	½
HA1-8A	8	1	1¾	1 7/16	¾	3¼	⅜-16	⅝
HA1-10A	10	1 3/16	2	1¾	⅞	4	½-13	⅝
HA1-12A	12⅝	1¼	2⅛	2 3/16	15/16	4	½-13	¾

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HAND WHEELS

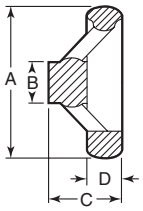
Unfinished Cast Iron and Aluminum Dished Hand Wheel Offset Two, Three, Four, Five or Six Spoke Without Handle Inch



Two Spoke



Three Spoke



Cast Iron Item No.	Aluminum Item No.	No. of Spokes	A	B	C	D
BOW-4	BAOW-4	2	4	1¼	1½	⅞
BOW-5	—	3	5	1¼	1¾	⅞
BOW-6	BAOW-6	3	6	1½	1⅞	⅞
BOW-7	—	3	7	1⅝	2¼	1
BOW-8	BAOW-8	3	8	1¾	2½	1
BOW-9	—	3	9	2	2¾	1⅛
BOW-10	BAOW-10	3	10	2⅛	3	1⅛
BOW-12	BAOW-12	4	12	2½	3¼	1¼
BOW-15	—	5	15	3	3⅛	1¼
BOW-18	—	6	18	3⅛	3⅞	1½
BOW-20	—	6	20	3⅛	3⅞	1½

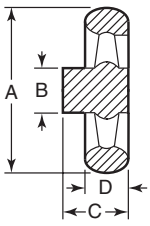
Unfinished Cast Iron or Aluminum Straight Two, Three or Four Spoke Without Handle Inch



Aluminum



Unfinished Cast Iron



All hand wheels are blank so that they can be modified to user's specifications. Hand wheels come with 2, 3 or 4 spokes as noted below. Made of unfinished cast iron or aluminum for more economical use.

Cast Iron Item No.	Aluminum Item No.	No. of Spokes	A	B	C	D
BSW-4	BASW-4	2	4	1¼	1⅛	⅞
BSW-5	—	3	5	1½	1⅛	⅞
BSW-6	BASW-6	3	6	1½	1¼	⅞
BSW-7	—	4	7	1¾	1¼	¾
BSW-8	BASW-8	3	8	1⅞	1½	⅞
BSW-10	BASW-10	3	10	2¼	2¼	1
BSW-12	BASW-12	4	12	3	3	1¼
BSW-14	—	4	14	3	3½	1¼
BSW-16	—	4	16	3	3½	1½

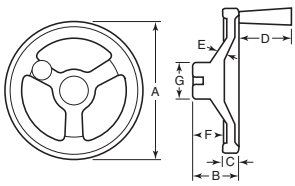
Aluminum Dished Two,Three, Five or Six Spoke With Revolving Handle Inch



Six Spoke



Two Spoke



Made from 319 aluminum alloy. The rims are machined to run concentric with center drill. Lightweight. Excellent for high speed applications. The hand wheels listed below are supplied with a revolving handle.

Item No.	A	B	C	D	E	F	G	No. of Spokes
JAW-308	4	1½	⅝	1⅝	¼	1	1³⁄₁₆	2
JAW-301	6	2	¾	2⁹⁄₁₆	⁵⁄₁₆	1⁷⁄₁₆	1½	3
JAW-302	8	2½	⅞	2¹⁵⁄₁₆	⅜	1⅞	2	3
JAW-303	10	3	⅞	3⅝₁₆	⁷⁄₁₆	2⅛	2⅜	3
JAW-304	12	3⅜	⅞	3⁵⁄₁₆	⁷⁄₁₆	2³⁄₁₆	2½	3
JAW-305	14	3¹³⁄₁₆	1	3⁵⁄₁₆	⁷⁄₁₆	2¹⁷⁄₃₂	2¾	5
JAW-306	18	4⅞	1¼	3⁵⁄₁₆	⁷⁄₁₆	3¹⁄₁₆	4⅛	5
JAW-307	23	7⅛	1¼	3⁵⁄₁₆	⁷⁄₁₆	4⅜	4½	6

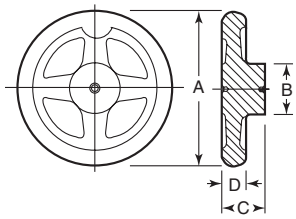
Plated Cast Iron Straight Four Spoked or Solid Without Handle Inch



Spoke



Solid Web



The cast iron has a chrome finish - provides high quality without the cost of our other hand wheels. All unmachined surfaces are tumbled smooth. Excellent alternative for lower cost machinery and proto-types. All are straight four spoke, except the 3" which is a solid web. Center hole and face of hub are true with rim.

Item No.	A	B	C	D
A3-3	3	1	1¹⁄₁₆	⅝
A3-4	4	1¼	1⅛	⅝
A3-5	5	1¼	1⅛	⅝
A3-6	6	1⅝	1¼	¾
A3-8	8	1⅞	1⅜	⅞
A3-10	10	2¼	2¼	1

* Solid Web

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Reid SUPPLY AN ESSENTRA COMPANY

HAND WHEELS

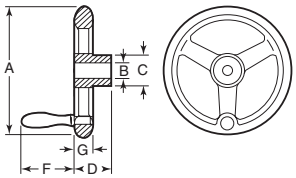
Cast Iron
Straight
Three or Five Spoked With Solid or Revolving Handle
Inch



Straight with Revolving Handle



8", 10", 12" Straight with Solid Handle



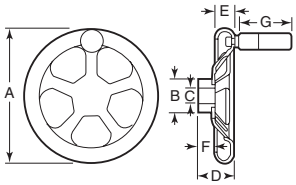
Made of cast iron with chrome plated finish. Rim and handle are ground and polished to high luster. Available with solid or revolving chrome plated handle. The 8", 10" and 12" wheels are scalloped for better gripping.

Item No.	No. of Spokes	A	Bore B	C	D	F	G
w/ Solid Handle							
A43-3S	3	3	3/8	1	1	1 11/16	1/2
A43-4S	3	4	3/8	1 1/8	1 1/16	1 11/16	9/16
A43-5S	3	5	3/8	1 1/4	1 3/16	2	19/32
A43-6S	3	6	1/2	1 3/8	1 1/4	2 5/8	21/32
A43-8S	3	8	5/8	1 21/32	1 1/2	3 1/16	7/8
A43-12S	5	12	3/4	2 5/32	1 25/32	3 3/4	1
w/ Revolving Handle							
A43-3R	3	3	3/8	1	1	1 7/8	1/2
A43-4R	3	4	3/8	1 1/8	1 1/16	1 7/8	9/16
A43-5R	3	5	3/8	1 1/4	1 3/16	2 1/4	19/32
A43-6R	3	6	1/2	1 3/8	1 1/4	2 3/16	21/32
A43-8R	3	8	5/8	1 21/32	1 1/2	3 3/8	7/8
A43-10R	5	10	5/8	1 7/8	1 21/32	3 3/8	15/16
A43-12R	5	12	3/4	2 5/32	1 25/32	4	1

Stainless Steel - Type 304
Straight
Four or Five Spoke With or Without Handle
Inch



With Handle





Without Handle

Made of pressed Type 304 stainless steel with satin finish. Stainless steel hub is welded to body. Available with revolving plastic handle with stainless steel stem or without handle.

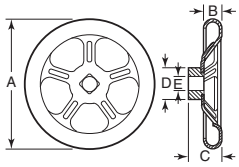
Item No.	No. of Spokes	A	B	C	D	E	F	G
w/ Handle								
WSH-1	4	6.30	1.18	.500	1.54	.87	.79	3.15
WSH-2	4	7.87	1.57	.625	1.73	.87	.94	3.15
WSH-3	5	9.84	1.77	.750	2.05	1.18	1.10	3.54
w/o Handle								
WSH-4	4	6.30	1.18	.500	1.54	.87	.79	—
WSH-5	4	7.87	1.57	.625	1.73	.87	.94	—
WSH-6	5	9.84	1.77	.750	2.05	1.18	1.10	—

JW Winco
Black Coated Steel
Straight
Three, Four or Five Spoke Without Handle
Inch

JW WINCO
A Ganter Company



Three Spoke Bored



Pressed steel hand wheels are black plastic coated. Have high mechanical strength and are not affected by shock or knocks. Welded steel hub. Available with bored round hole or square hole broached.

Bored Item No.	Broached Item No.	No. of Spokes	A	B	C	D	E
WHW-5	WHW-35	3	4.92	.71	1.14	1.18	.500
WHW-10	WHW-40	4	6.30	.87	1.46	1.18	.500
WHW-15	WHW-45	4	7.87	.87	1.81	1.57	.625
WHW-20	—	5	9.84	1.18	2.05	1.77	.750
WHW-25	—	5	12.40	1.38	2.52	2.17	.750
WHW-30	—	5	15.75	1.57	3.23	2.56	1.00

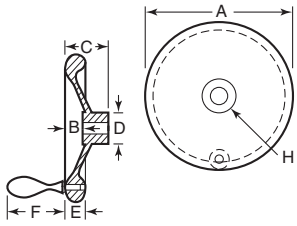
Cast Iron
Dished
Solid Web w/o Handle, w/ Solid Handle, w/ Revolving Handle
Inch



Without Handle



With Handle



Made of fine grain cast iron. Available as blanks-rough, unfinished castings without handle or bore or as finished wheels. Finished hand wheels have a starter hole which can be made larger by user. Rim polished to high luster. Handles are polished steel. Web contoured for maximum strength. Rear edge of rim cut back to provide better grasp for operator. Center hole and face of hub are true with rim. Used where safety regulations prohibit the use of spoked hand wheels or where the use of spoked hand wheels are not desirable.

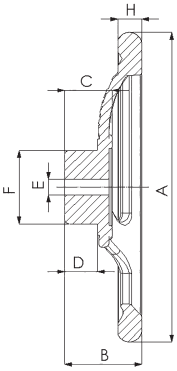
Item No.	A	B	C	D	E	F	H
Blank Casting - w/o Handle							
BOS-3	3	5/8	1	7/8	5/8	—	—
BOS-4	4	3/4	1 1/2	1	3/4	—	—
BOS-6	6	1	1 7/8	1 5/16	7/8	—	—
BOS-7	7	1 1/2	2 1/4	1 9/16	1	—	—
BOS-8	8	1 1/8	2 1/8	1 11/16	1	—	—
BOS-9	9	2 1/8	2 7/8	2	1 1/8	—	—
BOS-10	10	1 1/4	2 3/8	2 3/16	1 1/8	—	—
Finished Hand Wheel - w/o Handle							
RND-3	3	5/8	1	1 3/16	5/8	—	1/4
RND-4	4	3/4	1 1/2	1	3/4	—	1/4
RND-5	5	7/8	1 3/4	1 1/8	3/4	—	5/16
RND-6	6	1	1 7/8	1 1/4	7/8	—	5/16
RND-8	8	1 1/8	2 1/8	1 5/8	1	—	3/8
RND-9	9	2 1/8	2 7/8	2	1 1/8	—	1/2
Finished Hand Wheel - w/ Solid Handle							
RSD-4	4	3/4	1 1/2	1	3/4	2	1/4
RSD-5	5	7/8	1 3/4	1 1/4	3/4	2	5/16
RSD-6	6	1	1 7/8	1 3/8	7/8	3	5/16
RSD-9	9	2 1/8	2 7/8	2	1 1/8	3 1/4	1/2
Finished Hand Wheel - w/ Revolving Handle							
RRD-3	3	5/8	1	1 3/16	5/8	1 1/2	1/4
RRD-4	4	3/4	1 1/2	1	3/4	2	1/4
RRD-5	5	7/8	1 3/4	1 1/4	3/4	2	5/16
RRD-9	9	2 1/8	2 7/8	1 15/16	1 1/8	3 1/4	1/2
RRD-6	6	1	1 7/8	1 3/8	7/8	3	5/16
RRD-7	7	1 1/2	2 1/4	1 1/2	1	3	3/8
RRD-8	8	1 1/8	2 1/8	1 5/8	1	3 1/4	3/8

HAND WHEELS

Stainless Steel
Dished
Three Spoke Without Handle
Metric

STAINLESS STEEL OPTION AVAILABLE

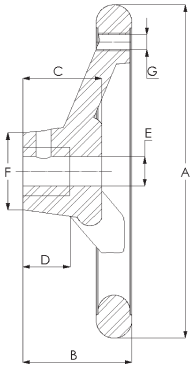




Item No.	A	B	C	D	E	F	H
1291706	80.0	28.0	17.0	12.0	6.0	29.0	7.5
1291707	100.0	31.0	19.0	14.0	8.0	30.0	8.0
1291708	125.0	31.0	20.0	15.0	8.0	34.0	9.0
1291709	140.0	36.0	20.0	15.0	8.0	36.0	11.0
1291710	160.0	40.0	22.0	16.0	8.0	38.0	12.5
1291711	200.0	46.0	23.0	17.0	8.0	45.0	14.0
1291712	250.0	52.0	26.0	19.0	8.0	48.0	16.0

Black Plastic
Dished
Three Spoke Without Handle
Metric

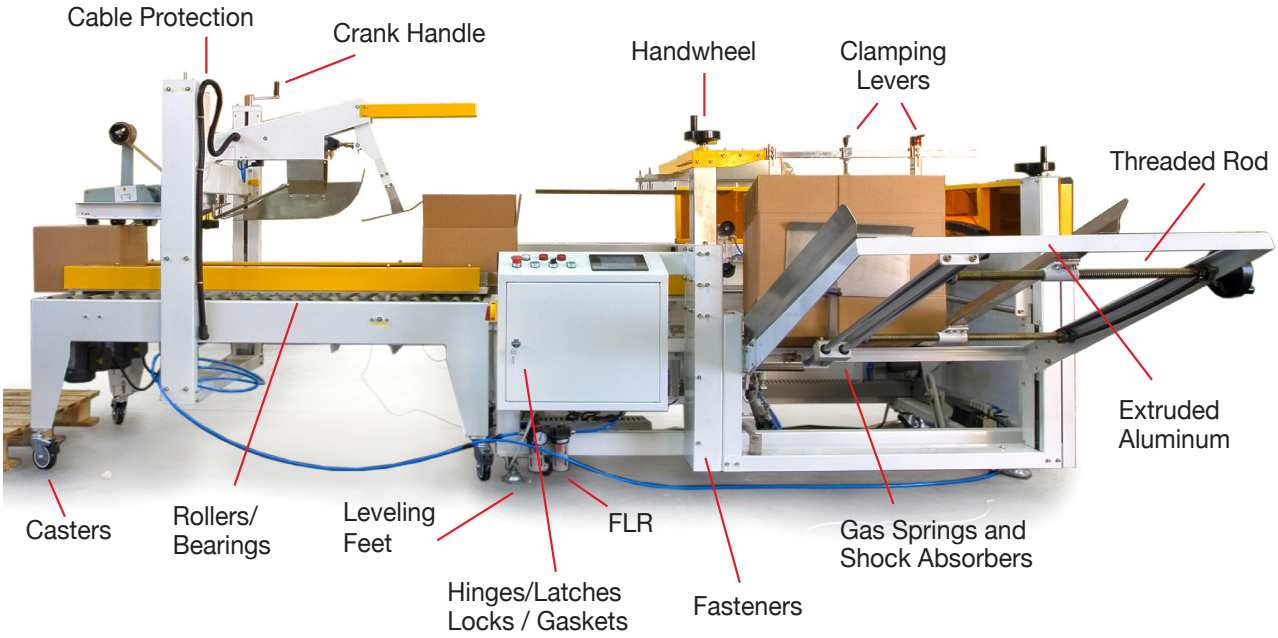




Item No.	A	B	C	D	E	F	G
1291717	88.0	36.0	23.0	12.0	8.0	31.0	5/16 - 18
1291718	97.0	43.0	29.0	17.0	12.7	31.0	5/16 - 18
1291719	115.0	41.0	28.0	14.0	12.7	32.0	5/16 - 18
1291720	123.0	45.0	30.0	16.0	12.7	33.0	5/16 - 18
1291721	155.0	54.0	36.0	20.0	12.7	41.0	3/8 - 16
1291722	178.0	58.0	42.0	23.0	15.2	41.0	3/8 - 16
1291723	196.0	61.0	39.0	16.0	20.3	35.0	3/8 - 16
1291724	250.0	91.0	46.0	31.0	15.0	50.0	3/8 - 16

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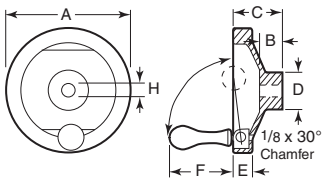
Coated Aluminum
Black Discomatic Dished
Without Handle or With Revolving Fold-Away Handle
Inch



With Revolving Fold-Away Handle



Without Handle



Revolving handle folds away automatically when not in use. Smooth, spokeless web with no hazardous openings. Finger-grip rim design for minimum slippage. Strong, tough, chemical resistant coating provides good gripping surface. Dished design for more distance between rim and possible machine cabinet pinch-points. The revolving handle has a highly polished aluminum grip with a clear, anodized finish for durability. Spindle is made of steel and packed with grease to last the life of the hand wheel.

Item No.	A	Hub Lgth. B	C	D	E	F	H
w/o Handle							
BDW-094	5	1.000	2.130	1.500	1.000	—	.375
BDW-097	8	1.250	2.500	2.125	1.000	—	.625
w/ Revolving Fold-Away Handle							
BDW-224	5	1.000	2.130	1.500	1.000	2.125	.375
BDW-225	6	1.125	2.375	1.750	1.000	3.063	.500
BDW-227	8	1.250	2.500	2.125	1.000	3.063	.625

Aluminum - Plain Finish or Black
Dished
Solid Web With or Without Revolving Handle
Inch



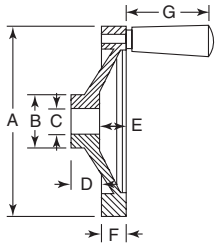
Plain Finish With Revolving Handle



Black Finish With Revolving Handle



Plain Finish Without Revolving Handle



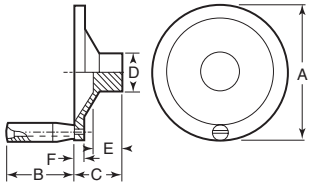
Made from cast aluminum with a highly polished rim. Also available with a black powder coating. The smooth spokeless web has no hazardous openings. Available with or without revolving handle. Handle is heavy duty black plastic with steel insert.

Plain Item No.	Black Item No.	A	B	Bore C	D	E	F	G
w/o Handle								
KHW-5	—	3.15	1.02	.500	.630	.413	.512	—
KHW-10	KHW-210	3.94	1.10	.500	.670	.512	.551	—
KHW-15	KHW-215	4.92	1.22	.500	.709	.609	.591	—
KHW-20	KHW-220	5.51	1.42	.625	.748	.687	.650	—
KHW-25	KHW-225	6.30	1.42	.625	.787	.748	.709	—
KHW-30	KHW-230	7.88	1.65	.750	.945	.827	.807	—
KHW-35	KHW-235	9.84	1.89	.875	1.100	.904	.904	—
w/ Plastic Revolving Handle								
KHW-105	KHW-305	3.15	1.02	.500	.630	.413	.512	1.67
KHW-110	KHW-310	3.94	1.10	.500	.670	.512	.551	2.07
KHW-115	KHW-315	4.92	1.22	.500	.709	.609	.591	2.66
KHW-120	KHW-320	5.51	1.42	.625	.748	.687	.650	2.66
KHW-125	KHW-325	6.30	1.42	.625	.787	.748	.709	3.25
KHW-130	KHW-330	7.88	1.65	.750	.945	.827	.807	3.25
KHW-135	—	9.84	1.89	.875	1.100	.904	.904	3.64

Stainless Steel - Type 300
Dished
Solid Web With Revolving Handle
Inch



STAINLESS STEEL OPTION AVAILABLE



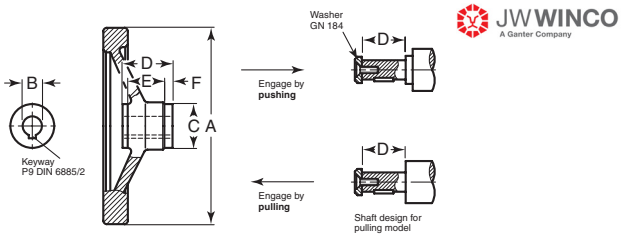
Made of Type 300 series stainless steel. Comes with stainless steel revolving handle. Hand wheel and handle are machined with a smooth finish.

Item No.	A	B	C	D	E	F
AS-3	3	1.49	1.10	.87	.67	.24
AS-4	4	1.57	1.25	1.02	.71	.31
AS-6	6	2.50	1.50	1.50	.87	.39

HAND WHEELS

JW Winco
Aluminum
Safety Clutch
Needle Bearing Mechanism
Without Handle
Metric





Pulling Item No.	Pushing Item No.	A	Bore B	C	D	E	F
WSH-10	WSH-16	125	12	29	42	18	12
WSH-11	WSH-17	140	12	29	42	18	12
WSH-12	WSH-18	140	14	33	48	20	14
WSH-13	WSH-19	160	14	33	48	20	14
WSH-14	WSH-20	200	18	39	50	24	13
WSH-15	WSH-21	250	22	46	54	28	13

Hand wheel body is made of aluminum. Hand wheel comes with no mounting hole in rim. Safety clutch hand wheels can be engaged by pulling or pushing.

JW Winco
Aluminum - Matte Black or Silver Textured Finish
Flat-Faced Solid Disk
With or Without Revolving Handle
Inch



Black Finish with Revolving Handle



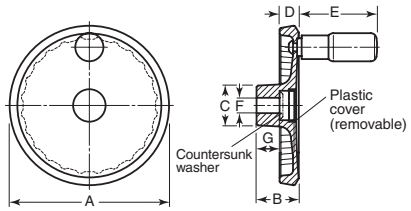
Black Finish without Handle



Silver Finish without Handle



Silver Finish with Revolving Handle

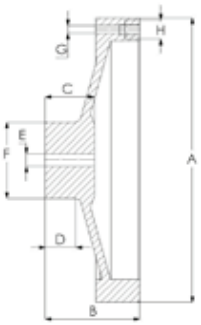


Black Item No.	Silver Item No.	A	B	C	D	E	Bore F	G
w/ Revolving Handle								
WHW-200	WHW-230	3.15	1.02	1.02	.51	1.63	.500	.63
WHW-205	WHW-235	3.94	1.18	1.10	.55	2.20	.500	.67
WHW-210	WHW-240	4.92	1.30	1.22	.59	2.32	.500	.71
WHW-215	WHW-245	5.51	1.42	1.42	.65	2.91	.625	.75
WHW-220	WHW-250	6.30	1.54	1.42	.71	2.91	.625	.79
WHW-225	WHW-255	7.87	1.77	1.65	.81	3.31	.750	.94
w/o Revolving Handle								
WHW-260	WHW-290	3.15	1.02	1.02	.51	—	.500	.63
WHW-265	WHW-295	3.94	1.18	1.10	.55	—	.500	.67
WHW-270	WHW-300	4.92	1.30	1.22	.59	—	.500	.71
WHW-275	WHW-305	5.51	1.42	1.42	.65	—	.625	.75
WHW-280	WHW-310	6.30	1.54	1.42	.71	—	.625	.79
WHW-285	WHW-315	7.87	1.77	1.65	.81	—	.750	.94

These flat-faced solid disk hand wheels are distinguished by their modern design. The removable plastic cover shrouds the assembly hardware such as screws and countersunk washers, as well as the shaft end. The hand wheel body is made of aluminum, pressure die-cast with powder coated matte black finish or silver textured finish. The rim is concentric and square to bore. The revolving handle is black nylon plastic with zinc plated steel threaded spindle. There is no mounting hole in the rim for hand wheels without a handle.

Steel - Chromium Plated
Dished With Folding Handle
Metric

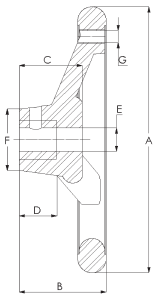




Item No.	A	B	C	D	E	F	G	H
1291704	200.0	64.0	30.0	22.0	9.0	49.0	M6 x 1	20.0
1291705	250.0	68.0	33.0	25.0	9.0	57.0	M6 x 1	20.0

Steel - Chromium Plated
Dished With Folding Handle
Metric

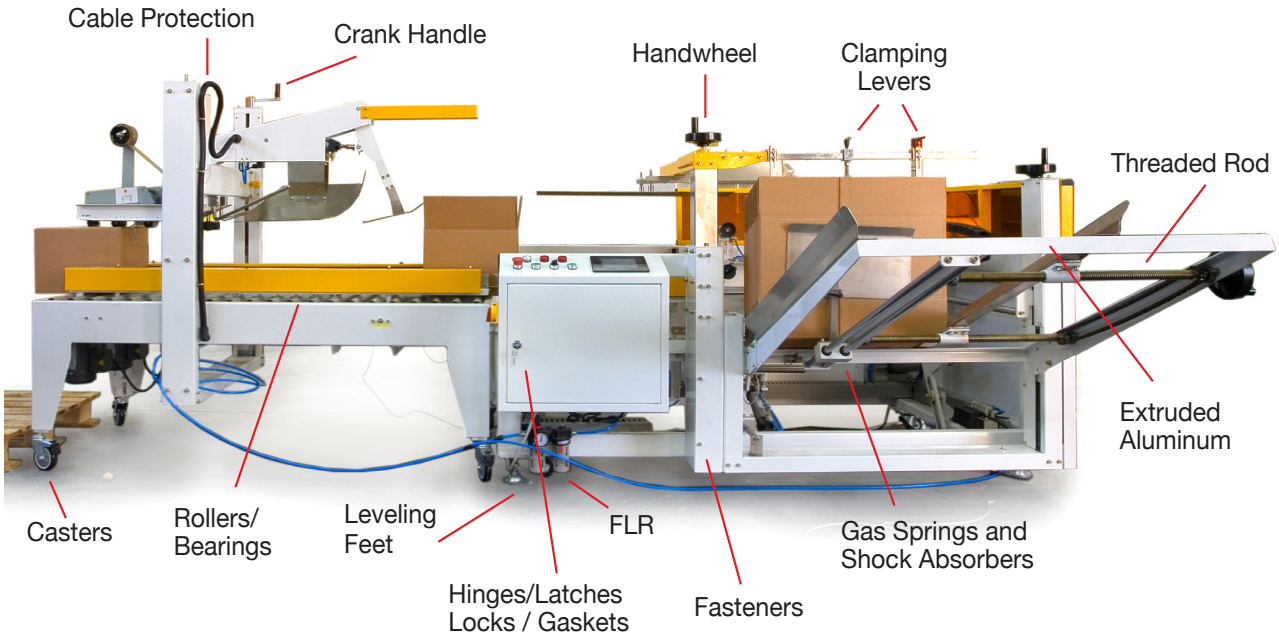


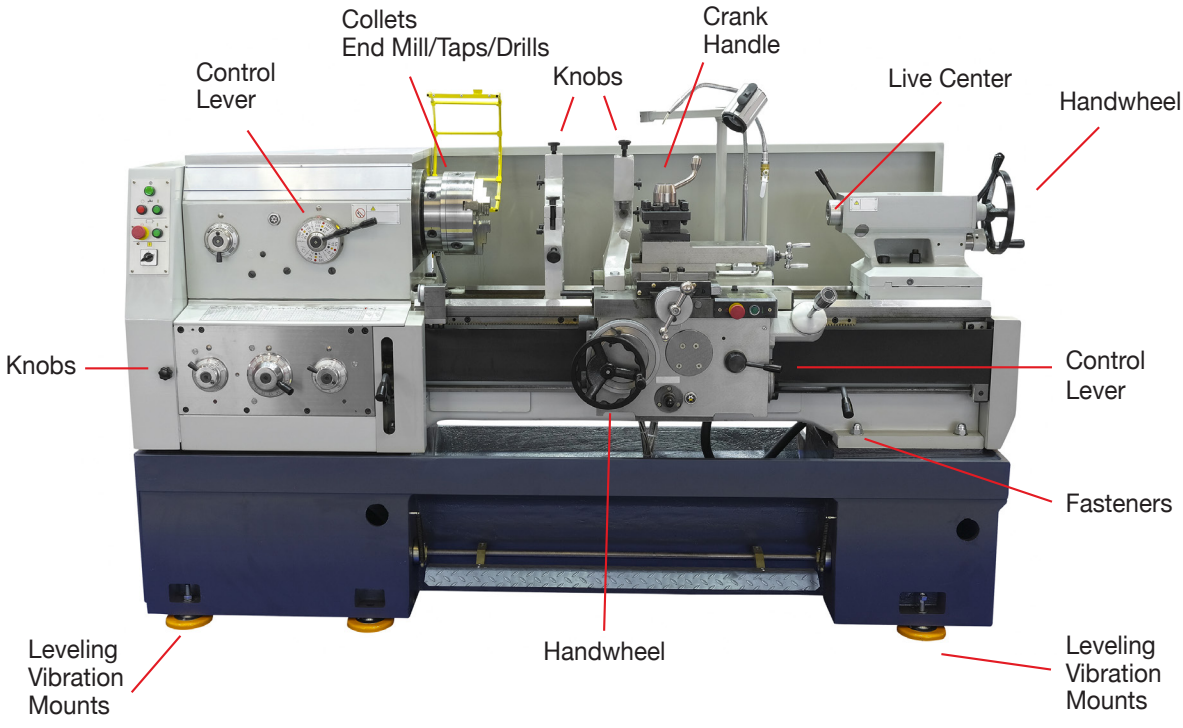


Item No.	A	B	C	D	E	F	G	H
1291713	160.0	50.0	33.0	21.0	8.0	40.0	M6 x 1	20.0
1291714	200.0	52.0	32.0	24.0	8.0	50.0	M6 x 1	20.0
1291715	160.0	50.0	33.0	21.0	8.0	40.0	M6 x 1	20.0
1291716	200.0	52.0	32.0	24.0	8.0	50.0	M6 x 1	20.0

We Have Production Machinery Parts For Any Industry

We work with many suppliers to give you solutions to fit your budget.



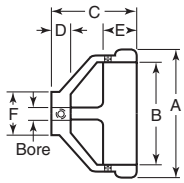


Don't See What You Need? Call Us, Our Team Is Here To Help.

POSITION INDICATORS

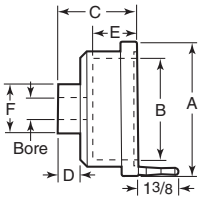
Cast Aluminum
Fluted, Round with Handle, Spoked
Inch





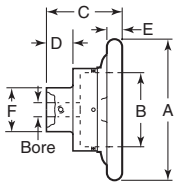
Fluted





Round with Handle





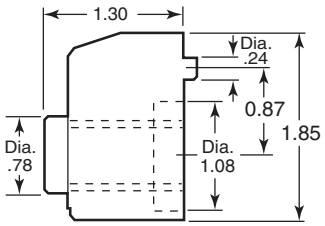
Spoked

Indicating hand wheels accurately display the position of a control shaft on even the latest and most sophisticated machines. These indicators give precise settings and enable the operator to return to these exact settings without guess work. Only applicable to stems and shafts placed in a horizontal position. Hand wheel and indicator are sold as one unit. Hand wheels are cast aluminum with black powder coat. Indicator case is solid metal construction with celluloid crystal cover. Dial faces available with numbers reading clockwise or counterclockwise. Dial has two pointers, one indicates whole turns up to 12 and the other indicates the proportion of the turn. Available in three styles, fluted, round with handle or spoked with either counter clockwise or clockwise rotation. All are bored with set screws.

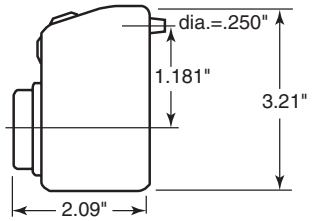
Clockwise Item No.	Counter Clockwise Item No.	Style	A	B	C	D	E	F	Bore
TJ-21	—	Fluted	2¾	2¼	1¾	½	¾	1	⅜
TJ-22	—	Fluted	2¾	2¼	1¾	½	¾	1	½
TJ-23	—	Fluted	2¾	2¼	1¾	½	¾	1	⅝
TJ-31	—	Fluted	3½	2¾	2⅜	½	15/16	1⅛	⅜
TJ-32	TJ-37	Fluted	3½	2¾	2⅜	½	15/16	1⅛	½
TJ-33	—	Fluted	3½	2¾	2⅜	½	15/16	1⅛	⅝
TJ-41	TJ-46	Round	5	3¾	3	⅞	1⅝	1¾	½
TJ-42	—	Round	5	3¾	3	⅞	1⅝	1¾	⅝
TJ-43	—	Round	5	3¾	3	⅞	1⅝	1¾	¾
TJ-50	—	Spoked	7 3/16	3¾	3 15/16	1⅜	¾	2¼	½
TJ-51	—	Spoked	7 3/16	3¾	3 15/16	1⅜	¾	2¼	⅝

ELESA
Dial Position Indicators
Orange Plastic
Direct Drive
Inch





½" Shaft



¾" Shaft

Counter Clockwise Item No.	Clockwise Item No.	Ratio	Bore
CE-983960	—	0.020	½
CE-983988	CE-983987	0.050	½
—	CE-984019	00.10	½
CE-984040	CE-984039	00.20	½
—	CE-984133	01.00	½
—	CE-984153	001.0	½
CE-984294	—	010.0	½
—	CE-986019	000.10	¾
CE-986040	CE-986039	000.20	¾
—	CE-986133	001.00	¾
—	CE-986153	0001.0	¾

Mounts on control spindles in any position for giving actual reading of the positioning of the machine component. Four figure digital counter with clockwise and counter clockwise rotation available in various standard ratios. High impact resistant, orange plastic case, sealed to prevent tampering and dust penetration. Resistant to solvents, oils, grease and other chemical agents. Black oxide steel inserts. Rear torque pin for positioning. Rear rubber gasket. Socket head grub screw for fitting to the shaft.

Reduction Sleeves
Inch



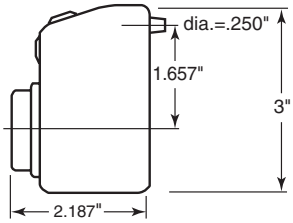
Item No.	Bore Size	Item No.	Bore Size	Item No.	Bore Size
CE-985950	½ to ⅝	CE-987940	¾ to ⅞	CE-987960	¾ to ⅞



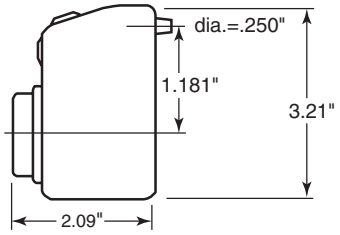
Front Readout



Top Readout



Plastic Housing



Metal Housing

Easily mounts on all types of machinery and equipment where there is an adjusting hand wheel or crank. Ideal for packaging, woodworking, textile, printing, and converting machines. Reduces setup time and allows repeatable manual position changes and settings. Provides exact, incremental position readings on manually adjusted control shafts or spindles from a fraction of a turn to multiple turns. Sealed to prevent cover separation and dust free operation. Steel black oxide shaft collar and "positive drive" internal gear mechanism for smooth, exact operation. Available in either injection molded plastic housing or heavy duty metal housing. Five digit counter with clockwise and counter-clockwise rotation available in various standard ratios. Rear foam mounting gasket included. Fastens on to shaft with set screw. Made in the U.S.A.

Digital Position Indicators
Plastic Housing
Front Readout, Top Readout
Inch

Clockwise Item No.	Counter Clockwise Item No.	Ratio	Bore	Clockwise Item No.	Counter Clockwise Item No.	Ratio	Bore
Top Readout Position				**Front Readout Position**			
TJ-0101	—	00010	3/8	TJ-0121	—	00010	3/8
TJ-0102	TJ-0112	00010	1/2	TJ-0122	TJ-0132	00010	1/2
TJ-0103	—	00010	5/8	TJ-0123	—	00010	5/8
TJ-0104	—	00010	3/4	TJ-0124	TJ-0134	00010	3/4
TJ-0105	—	00010	1	TJ-0222	—	00020	1/2
TJ-0202	—	00020	1/2	—	TJ-0235	00020	1
TJ-0203	TJ-0213	00020	5/8	—	TJ-0531	00050	1/2
TJ-0204	TJ-0214	00020	3/4	TJ-1022	—	00100	1/2
TJ-0502	—	00050	5/8				
TJ-0503	—	00050	3/4				
TJ-1001	TJ-1011	00100	3/8				
TJ-1002	TJ-1012	00100	1/2				
TJ-1003	—	00100	5/8				
TJ-1005	—	00100	1				

Note: Digital readout after one full revolution

Metal Housing
Front Readout, Top Readout
Inch

Clockwise Item No.	Ratio	Bore	Clockwise Item No.	Ratio	Bore
Top Readout Position					
TJ-2102	00010	1/2	TJ-2125	00010	1
TJ-2104	00010	3/4	TJ-2222	00020	1/2
TJ-2105	00010	1	TJ-2224	00020	3/4
TJ-2203	00020	5/8	TJ-2522	00050	5/8
TJ-3001	00100	3/8	TJ-3022	00100	1/2
TJ-3002	00100	1/2	TJ-3025	00100	1
TJ-3003	00100	5/8			
TJ-3004	00100	3/4			
TJ-3005	00100	1			

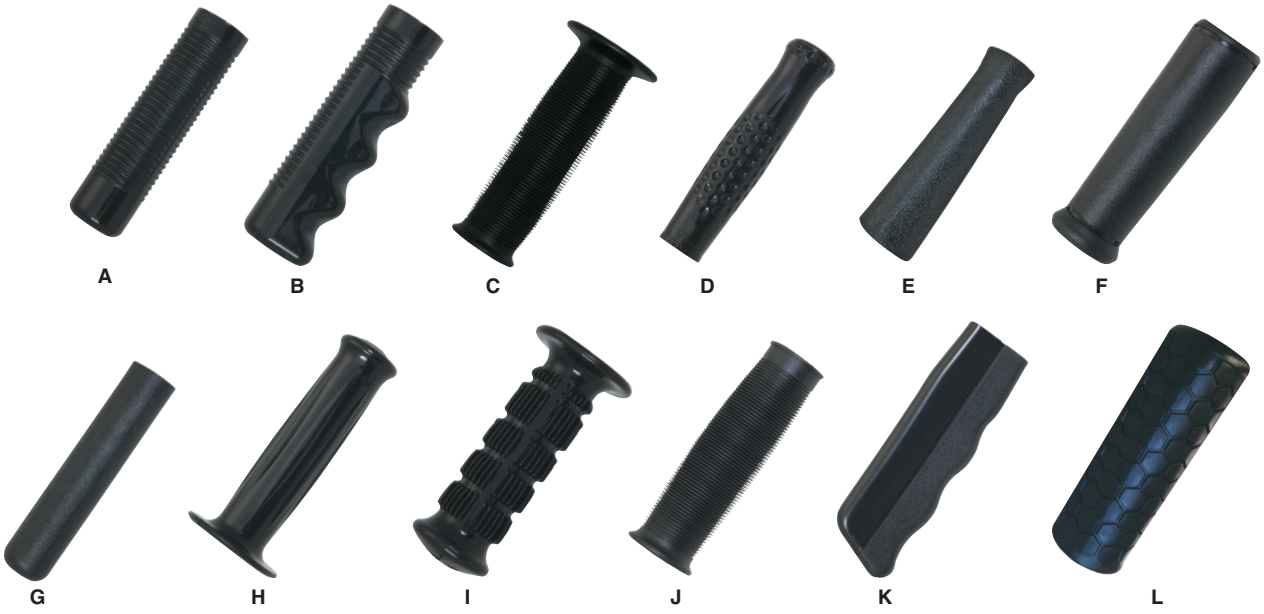
Note: Digital readout after one full revolution

STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

GRIPS

Black Vinyl
Round or Rectangle
Inch

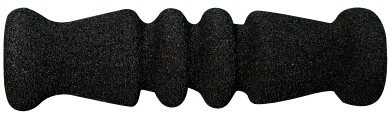


Grip replacements for worn grips on hand trucks, punch presses, tools and other equipment. Grips are molded of strong rigid black vinyl. They fit standard bar sizes and have a ¼" hole opposite the open end, except where noted otherwise. All grips for 1" bar diameter will work with ¾" I.P.S. pipe size.

Item No.	Style	Lgth.	For Bar Dia.	Item No.	Style	Lgth.	For Bar Dia.
GP-1R	A	4½	1	GP-213	G	5¼	1⅛
GP-118R	A	4 1/16	1⅛	GP-214	G	5¼	1¼
GP-114R	A	4 1/16	1¼	GP-206	H	5⅛	¾
GP-34F	B	4 3/16	¾	GP-207	H	5⅛	⅞
GP-1F	B	4 9/16	1	GP-208	H	5⅛	1
GP-118F	B	4 1/16	1⅛	GP-209	I	4¾	⅞
GP-114F	B	4 1/16	1¼	GP-210	I	4¾	1
GP-4*	C	4 9/16	⅞	GP-12D	J	4 9/16	½
GP-5*	D	4 9/16	⅞	GP-58D	J	4 9/16	⅝
GP-51*	D	4 9/16	1	GP-34D	J	4 9/16	¾
GP-211	G	4⅞	½	GP-18FB	K	4¾	⅛ x 1
GP-212	G	4⅞	⅝	GP-316FB	K	4¾	3/16 x 1
GP-203	G	5 1/16	¾	GP-14FB	K	4¾	¼ x 1

*No opposite end hole

Black Closed Cell Foam Rubber
Soffoam
Inch



Sculptured



Plain

Item No.	Grip Description	Lgth.	For Bar Dia.
GP-101	Sculptured	5	¾
GP-102	Sculptured	5	⅞
GP-103	Sculptured	5	1
GP-104	Plain	4½	¾
GP-105	Plain	4½	⅞
GP-106	Plain	4½	1

Made of closed cell foam rubber that can stand up to the duress of the most demanding industrial or consumer applications. The soffoam rubber material provides comfort and reduces hand fatigue especially when vibration is a factor. Excellent weathering capabilities for outdoor use. Black color.

NOBODY WILL SERVE THE **CUSTOMER BETTER.**



Ask Us About Colors and Customizing

Customize your plastic knobs and molded parts to fit YOUR PROJECT NEEDS.

- **Pad Printing**
- **Logo Printing**
- **Embedded Characters**
- **Raised Characters/Lettering**
- **Customize any Color in the PMS Chart**

Ask Us About Heat Resistant Materials Available



ASK US ABOUT BULK PRICING

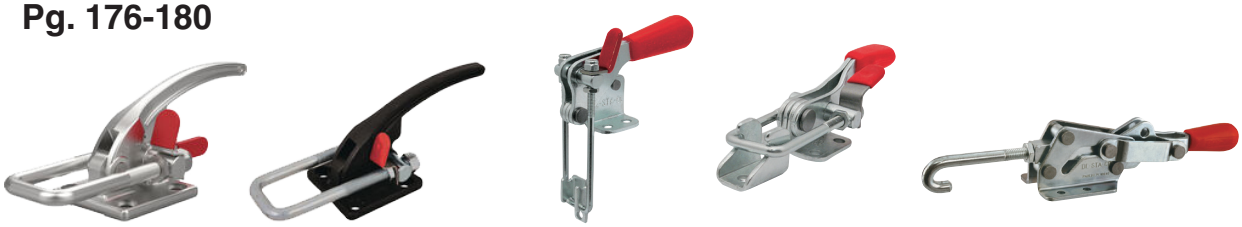
Hold Down Clamps

Pg. 154-175



Pull Action Latch Clamps

Pg. 176-180



Straight Line Action Clamps & Accessories

Pg. 182-189



Squeeze Action Plier Clamps

Pg. 190-192



Spring & Bar Clamps

Pg. 193

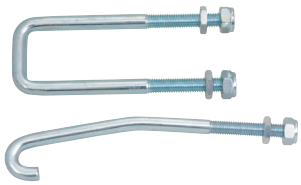


Products And Suppliers On This Catalog Are Subject To Change Without Notice

Manual Clamp Accessories

Pg. 194-196







Power Clamps & Accessories

Pg. 198-206

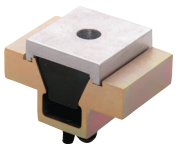


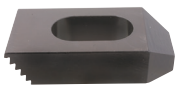




Jig-Fixture Clamps & Accessories

Pg. 207-218




Magnets & Magnetic Workholding

Pg. 219-224



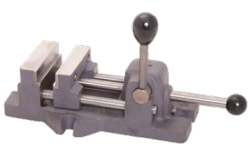






Vises & Accessories

Pg. 225-227







VERTICAL SWING & HOLD DOWN CLAMPS

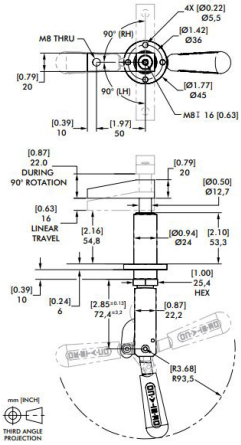
DESTACO Series TC-6004 SWL/SWR

NEW PRODUCT

- Left or right swing motion available
- 90° Swing clamp arm motion
- Higher clamping force than pneumatic version
- Though-hole mounting
- Clamp arm can be radially positioned 360°
- Handle can be radially positioned up to 180°

Applications:
- Assembly
- Checking fixtures
- Welding fixtures
- Tensioning devices





Item No.	Swing Direction	Total Stroke	Stroke During Rotation	Linear Stroke	Holding Cap. Lbs.
TC-6004SWL	Left	1.5	0.87	0.63	2,000
TC-6004SWR	Right	1.5	0.87	0.63	2,000

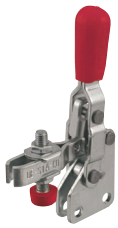
DESTACO Series TC-201



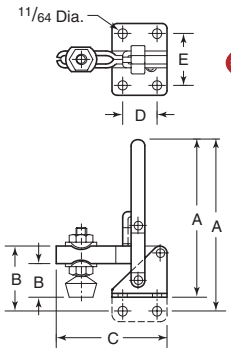
U-Bar, Flanged Base Straight Handle



U-Bar, Flanged Base Tee Handle



U-Bar, Straight Base Straight Handle



STAINLESS STEEL OPTION AVAILABLE

Steel models furnished with a low cushion neoprene tipped M5 spindle (TC-305208-M), flanged washers and lock nuts. Stainless models furnished with stainless steel hex head spindle (TC-201943), without neoprene tip.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel											
TC-201-U	3.03	.63	2.02	.63	.94	Straight	U-Bar	Flanged	55	100	100
TC-201-TU	2.25	.63	2.02	.63	.94	Tee	U-Bar	Flanged	55	100	100
TC-201-UB	3.13	.88	2.02	.63	.16	Straight	U-Bar	Straight	55	100	100
Stainless Steel											
TC-201-USS	3.03	.63	2.02	.63	.94	Straight	U-Bar	Flanged	55	100	126

Note: Also available as power Model TC-812.

GOOD HAND™ Economy Manual Vertical Hold Down Clamps

Supplied with 1 spindle and 2 jam nuts.

VALUE CHOICE

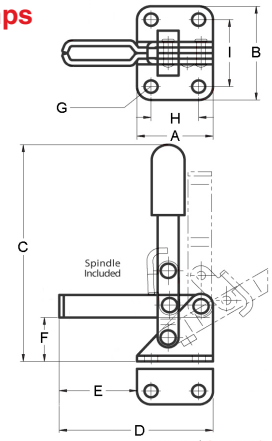
NEW PRODUCT



GHC-GH101A / GHC-GH101ASS



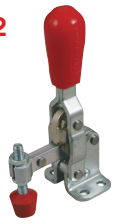
GHC-GH11002B



STAINLESS STEEL OPTION AVAILABLE

Item No.	A	B	C	D	E	F	G	H	I	Bar Type	Base Type	Spindle Size	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel															
GHC-GH101A	1.000	1.310	3.030	2.020	1.020	.750	0.170	0.630	0.940	U-Bar	Flanged	10-24 x 1-3/8	56°	100°	110 lbf
GHC-GH11002B	1.140	1.340	3.820	2.640	1.500	0.870	0.220	0.600	0.950	U-Bar	Flanged	10-24 x 1-3/8	66°	96°	165 lbf
Stainless Steel															
GHC-GH101ASS	1.000	1.310	3.030	2.020	1.020	.750	0.170	0.630	0.940	U-Bar	Flanged	10-24 x 1-3/8	56°	100°	110 lbf

DESTACO Series TC-202



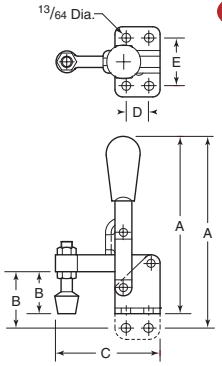
Fixed Bar, Flanged Base
Straight Handle



Fixed Bar, Flanged Base
Tee Handle



U-Bar, Straight Base
Straight Handle



STAINLESS STEEL OPTION AVAILABLE

Steel models furnished with M6 spindle (TC-202208-M) and lock nuts.
U-bar models also include flanged washers.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel											
TC-202	4.21	.94	2.31	.50	1.06	Straight	Fixed	Flanged	65	105	200
TC-202-T	2.81	.94	2.31	.50	1.06	Tee	Fixed	Flanged	65	105	200
TC-202-TU	2.81	.94	2.69	.50	1.06	Tee	U-Bar	Flanged	65	105	200
TC-202-B	4.40	1.13	2.31	.50	.25	Straight	Fixed	Straight	65	105	200
TC-202-U	4.21	.94	2.73	.50	1.06	Straight	U-Bar	Flanged	65	105	200
TC-202-UL	4.21	.94	3.27	.50	1.06	Straight	U-Bar	Flanged	65	105	200
TC-202-UB	4.40	1.13	2.73	.50	.25	Straight	U-Bar	Straight	65	105	200
Stainless Steel											
TC-202-SS	4.21	.94	2.31	.50	1.06	Straight	Fixed	Flanged	65	105	250
TC-202-USS	4.21	.94	2.73	.50	1.06	Straight	U-Bar	Flanged	65	105	250

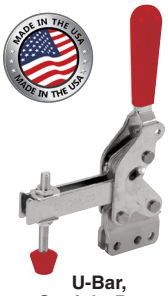
Note: Also available as power Model TC-802-U.

DESTACO Series TC-2002, 2007, 2010

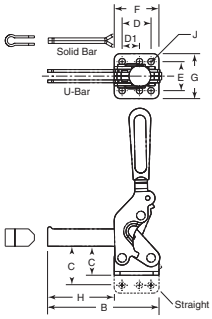
Now you can save valuable space in all your applications without sacrificing holding capacity or clamp performance. The open "U" bar has a knob on the end to prevent the spindle from slipping off the end of the arm. Unique design delivers greater hand clearance in the open position, eliminating pinch points and improving safety and ergonomics. Clamp comes complete with ergonomic handle grip, two flanged washers and spindle assembly ("U" bar models only). All "S" bar models supplied with bolt retainer.

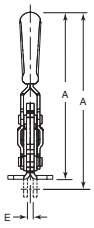


U-Bar,
Flanged Base



U-Bar,
Straight Base





Item No.	A	B	C	D	D1	E	F	G	H	J	Bar Type	Base Type	Handle Moves (degrees)	Bar Opening (degrees)	Holding Cap. Lbs.
TC-2002-S	4.73	3.29	.95	.90	.50	1.06	1.36	1.52	1.93	.22	Solid	Flanged	85	75	607
TC-2002-SB	5.07	3.29	1.27	.90	.50	.25	1.36	—	1.93	.22	Solid	Straight	85	75	607
TC-2002-U	4.73	3.29	.95	.90	.50	1.06	1.36	1.52	1.93	.22	U-Bar	Flanged	85	75	607
TC-2002-U207	5.01	3.39	1.25	.90	.50	1.25	1.34	1.76	1.95	.22	U-Bar	Flanged	72	90	607
TC-2002-UB	5.07	3.29	1.27	.90	.50	.25	1.36	—	1.93	.22	U-Bar	Straight	85	75	607
TC-2007-S	7.21	4.81	1.25	1.25	.75	1.25	1.93	1.94	2.88	.28	Solid	Flanged	76	65	1,000
TC-2007-U	7.21	4.81	1.25	1.25	.75	1.25	1.93	1.94	2.88	.28	U-Bar	Flanged	76	65	1,000
TC-2007-SB	7.64	4.81	1.68	1.25	.75	.25	1.93	—	2.88	.28	Solid	Straight	76	65	1,000
TC-2007-UB	7.64	4.81	1.68	1.25	.75	.25	1.93	—	2.88	.28	Solid	Straight	76	65	1,000
TC-2010-S	9.00	6.09	1.70	1.25	—	1.78	2.53	2.62	3.56	.34	Solid	Flanged	83	69	1,400
TC-2010-U	9.00	6.09	1.70	1.25	—	1.78	2.53	2.62	3.56	.34	Solid	Flanged	83	69	1,400
TC-2010-UB	9.612	6.09	2.20	1.25	—	.25	2.53	—	3.56	.34	U-Bar	Straight	83	69	1,400

Toggle Lock Plus clamps have a locking release lever for improved safety. Used in applications where there is severe stress or vibration on the clamps, or for over-head installations.

STANDARD QUOTES
IN 4 HOURS OR LESS

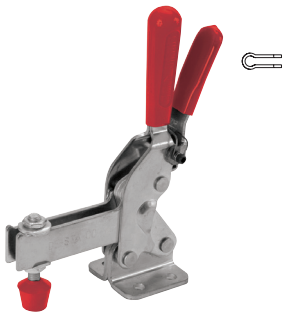
MOST PRODUCTS
SHIP SAME DAY

VERTICAL HANDLE HOLD DOWN CLAMPS

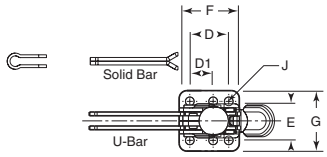
DESTACO Series TC-2002R, 2007R, 2010R Toggle Lock Plus

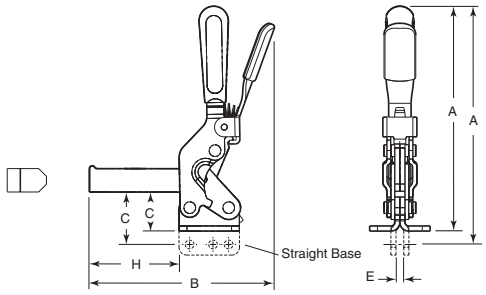
Designed with maximum safety and ergonomic benefits as its foundation, these Toggle Lock Plus clamps offer many outstanding features, including:

- Bushings at major pivot points for longer life
- Stop point locations at the base for added durability
- Greater hand clearance for ease of use
- Elimination of pinch points for added safety
- Extended handle length for improved ergonomics
- Longer clamping arm for greater flexibility
- Spindle contacts workpiece in vertical position for less workpiece marring or movement
- Clamping arm completely clears workpiece for easy load/unload
- Keeps part locked in place in closed position and keeps the clamp from falling back down while in open position



U-Bar, Flanged Base





Item No.	A	B	C	D	D1	E	F	G	H	J	Bar Type	Base Type	Bar Opening (degrees)	Holding Cap. Lbs.
TC-2002-SR	4.73	4.17	.95	.90	.50	1.06	1.36	1.52	1.93	.22	Solid	Flanged	85	607
TC-2002-SR207	5.01	3.39	1.25	.90	—	1.25	1.34	1.76	1.95	.22	S-Bar	Flanged	75	607
TC-2002-UR	4.73	4.17	.95	.90	.50	1.06	1.36	1.52	1.93	.22	U-Bar	Flanged	85	607
TC-2002-UR207	5.01	3.39	1.25	.90	.50	1.25	1.34	1.76	1.95	.22	U-Bar	Flanged	75	607
TC-2002-SBR	5.07	4.17	1.27	.90	.50	.25	1.36	—	1.93	.22	Solid	Straight	85	607
TC-2002-UBR	5.07	4.17	1.27	.90	.50	.25	1.36	—	1.93	.22	U-Bar	Straight	85	607
TC-2007-SR	7.21	5.94	1.25	1.25	.75	1.25	1.93	1.94	2.88	.28	Solid	Flanged	76	1,000
TC-2007-UR	7.21	5.94	1.25	1.25	.75	1.25	1.93	1.94	2.88	.28	U-Bar	Flanged	76	1,000
TC-2007-SBR	7.64	5.94	1.68	1.25	.75	.25	1.93	—	2.88	.28	Solid	Straight	76	1,000
TC-2007-UBR	7.64	5.94	1.68	1.25	.75	.25	1.93	—	2.88	.28	U-Bar	Straight	76	1,000
TC-2010-SR	9.00	7.28	1.70	1.25	—	1.78	2.53	2.62	3.56	.34	Solid	Flanged	83	1,400
TC-2010-UR	9.00	7.28	1.70	1.25	—	1.78	2.53	2.62	3.56	.34	U-Bar	Flanged	83	1,400

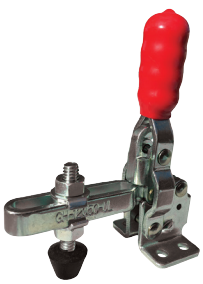
GOOD HAND™ Economy Vertical Handle Hold-Down

VALUE CHOICE

NEW PRODUCT



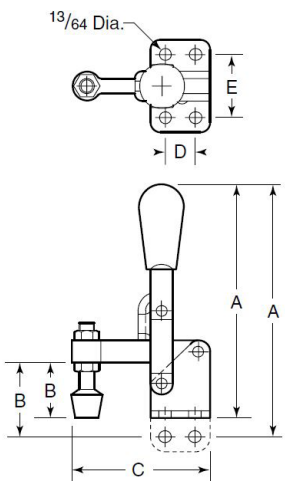
U-Bar, Flanged Base



Extra Long U-Bar, Flanged Base



Fixed Bar, Straight Base



Supplied with 1/4-20 x 1-3/4 spindle assembly.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH12050U	3.74	0.89	2.52	0.5	1.06	U-Bar	Flanged	60	100	200
GHC-GH12050UL	3.74	0.89	2.52	0.5	1.06	U-Bar	Flanged	60	100	200
GHC-GH12055	4.21	1.37	2.52	0.5	.24	Fixed	Straight	60	100	200

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VERTICAL HANDLE HOLD DOWN CLAMPS

DESTACO Series TC-207

STAINLESS STEEL OPTION AVAILABLE



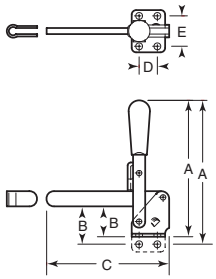
Solid Bar, Straight Base Straight Handle



U-Bar, Flanged Base Tee Handle



U-Bar, Flanged Base Straight Handle



Bolt retainers are furnished with solid bar models. Two flanged washers are furnished with U-bar models. Accommodates any 5/16" or M8 spindle.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel											
TC-207-L	6.89	1.25	5.02	.75	1.25	Straight	Solid	Flanged	57	99	500
TC-207-LB	7.48	1.55	5.02	.75	.25	Straight	Solid	Straight	57	99	500
TC-207-LBR	4.9	N/A	5.00	.75	N/A	Straight	Solid	Straight	57	99	500
TC-207-S	6.89	1.25	3.75	.75	1.25	Straight	Solid	Flanged	57	99	500
TC-207-SB	7.48	1.55	3.75	.75	.25	Straight	Solid	Straight	57	99	500
TC-207-U*	6.89	1.25	3.68	.75	1.25	Straight	U-Bar	Flanged	57	99	375
TC-207-UB*	7.48	1.55	3.68	.75	.25	Straight	U-Bar	Straight	57	99	375
TC-207-TU	4.36	1.25	3.75	.75	1.25	Tee	U-Bar	Flanged	57	99	375
TC-207-UL*	6.89	1.25	5.41	.75	1.25	Straight	U-Bar	Flanged	57	99	375
TC-207-ULB*	7.48	1.55	5.41	.75	.25	Straight	U-Bar	Straight	57	99	375
TC-207-TUL	4.36	1.25	5.41	.75	1.25	Tee	U-Bar	Flanged	57	99	375
Stainless Steel											
TC-207-USS	5.63	1.25	4.38	.75	1.25	Straight	U-Bar	Flanged	57	99	450

*Supplied with spindle TC-225208-M

Note: Also available as power Model TC-807-S, TC-807-U and as Toggle Lock Plus Model TC-207-LR and TC-207-UR.

GOOD HAND™ Economy Vertical Hold-Down Clamps



U-Bar, Flanged Base

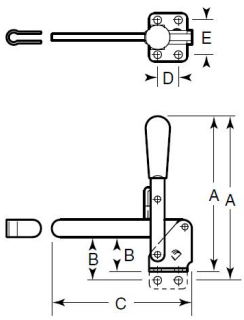


Solid Bar, Flanged Base, T-Handle

NEW PRODUCT



Extra Long Solid Bar, Straight Base



GOOD HAND™

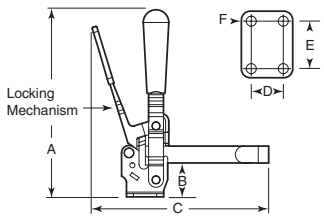
VALUE CHOICE

Supplied with 5/16-18 x 2-1/2 spindle assembly.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH12130	5.5	1.25	2.81	0.75	1.25	Straight	U-Bar	Flanged	60	100	500
GHC-GH12141	5.5	1.25	2.81	0.75	1.25	Tee	Solid	Flanged	60	100	500
GHC-GH12147	6.06	1.81	3.75	0.75	-	Straight	Solid	Straight	60	100	375

DESTACO Series TC-207, 210 Toggle Lock Plus

These clamps lock in both clamped and unclamped positions. Bolt retainer supplied with solid bar models. Flanged washers supplied with U-bar models. Series 207 accommodates any 5/16" or M8 spindle. Series 210 accommodates any 3/8" or M10 spindle.





Solid Bar, Flanged Base

Item No.	A	B	C	D	E	F	Bar Type	Base Type	Bar Opening (degrees)	Holding Cap. Lbs.
TC-207-LR	6.90	1.25	4.58	.75	1.25	.28	Solid	Flanged	100	500
TC-207-UR	6.90	1.25	4.58	.75	1.28	.25	U-Bar	Flanged	100	375
TC-210-SR	8.00	1.68	6.61	1.25	1.75	.33	Solid	Flanged	103	750
TC-210-UR	8.00	1.68	6.61	1.25	1.75	.33	U-Bar	Flanged	103	600

VERTICAL HANDLE HOLD DOWN CLAMPS

DESTACO Series TC-210

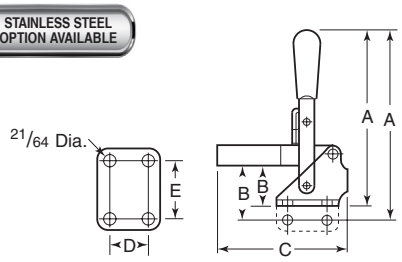


U-Bar, Flanged Base Straight Handle



Solid Bar, Straight Base Straight Handle

STAINLESS STEEL OPTION AVAILABLE



Two flanged washers (TC-235106) furnished with U-bar models and bolt retainer (TC-210114) supplied with solid bar models. Accommodates any ⅜ in. or M10 spindle.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel											
TC-210-U*	8.19	1.67	5.53	1.25	1.78	Straight	U-Bar	Flanged	58	103	600
TC-210-UB*	9.11	2.19	5.53	1.25	.31	Straight	U-Bar	Straight	58	103	600
TC-210-S	8.19	1.67	5.53	1.25	1.78	Straight	Solid	Flanged	58	103	750
TC-210-SB	9.11	2.19	5.35	1.25	.31	Straight	Solid	Straight	58	103	750
TC-210-TU	5.38	1.69	5.35	1.25	1.78	Tee	U-Bar	Flanged	58	103	600
Stainless Steel											
TC-210-USS	7.66	1.69	5.35	1.25	1.78	Straight	U-Bar	Flanged	58	103	600

*Supplied with spindle TC-240208-M.

Note: Also available as power Model TC-810-S, TC-810-U and as Toggle Lock Plus Model TC-210-SR and TC-210-UR.

GOOD HAND™ Economy Vertical Hold-Down Clamp

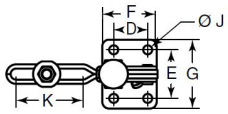
VALUE CHOICE

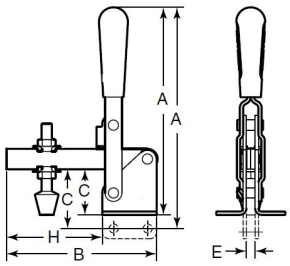
Hardened bushings and removable ground pins. Supplied with 3/8-16 x 3-1/2 spindle assembly.



NEW PRODUCT

U-Bar, Flanged Base





Item No.	A	B	C	D	E	F	G	H	J	K	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH12265	7.5	5.45	1.75	1.94	1.78	1.94	2.53	3.25	0.34	2.46	U-Bar	Flanged	58	105	750

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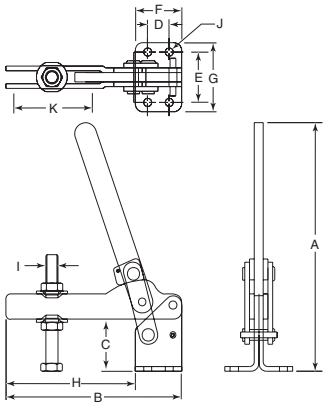
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VERTICAL HANDLE HOLD DOWN CLAMPS

DESTACO Series TC-229



U-Bar, Flanged Base



Featuring a unique cam action, these clamps will hold workpieces of inconsistent height. Ideal for castings or forgings. Overall clamping range is 5/16 in. Furnished with 1/2 in. spindle assembly.

Item No.	A	B	C	D	E	F	G	H	I	J	K	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-229	9.94	7.13	2.06	.88	2.0	1.88	2.75	5.25	½-13	.33	2.75	180	115	1,000

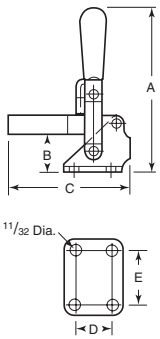
DESTACO Series TC-247



U-Bar, Flanged Base



Solid Bar, Flanged Base



Bolt retainer furnished with solid bar models. Flanged washers furnished with U-bar models. Accommodates any 1/2 in. or M12 spindle.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-247-U	8.69	2	6.87	1.25	1.78	Straight	U-Bar	Flanged	67	120	989
TC-247-S	8.69	2	6.87	1.25	1.78	Straight	Solid	Flanged	67	120	989

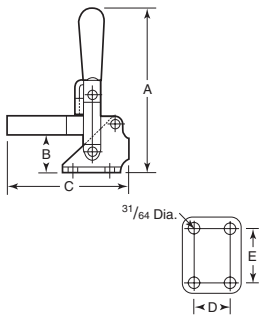
Note: Also available as power Model TC-847-U and TC-847-S.



U-Bar, Flanged Base



Solid Bar, Flanged Base



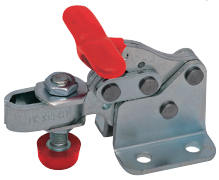
Bolt retainer furnished with solid bar models. Flanged washers furnished with U-Bar models. Accommodates any 5/8 in. or M16 spindle.

Item No.	A	B	C	D	E	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-267-U	11.88	3.08	8.92	2	2.75	Straight	U-Bar	Flanged	72	140	1,200
TC-267-S	11.88	3.08	8.88	2	2.75	Straight	Solid	Flanged	72	140	1,200

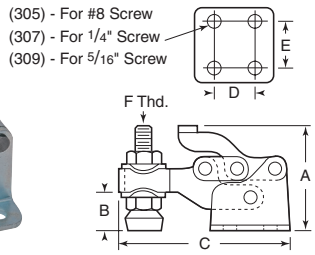
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VERTICAL HANDLE HOLD DOWN CLAMPS

DESTACO
Series TC-305, 307, 309



U-Bar
Flanged Base



STAINLESS STEEL OPTION AVAILABLE

Small compact clamps provide considerable holding capacity in a small size. T-handle can be operated from either side or from behind. All have U-Bar and flanged base. Handles move 170 degrees, bars move 90 degrees. Steel versions supplied with neoprene tipped spindle except TC-309 which comes with slip on neoprene cap. Stainless steel versions supplied with hex head spindle.

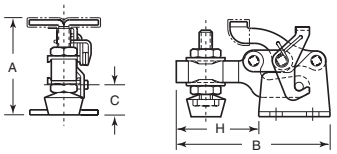
Item No.	A	B	C	D	E	F	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel									
TC-305-U	1.38	.50	2.22	.53	.63	M8	170	90	150
TC-307-U	2.40	.87	3.60	.91	1.16	M8	170	90	350
TC-309-U	3.55	1.30	5.18	1.38	1.50	M10	170	90	750
Stainless Steel									
TC-305-USS	1.38	.50	2.22	.53	.63	M8	170	90	200
TC-307-USS	2.40	.87	3.60	.91	1.16	5/16-18	170	90	350
TC-309-USS	3.55	1.30	5.18	1.38	1.50	3/8-16	170	90	750

DESTACO Series TC-305-UR, 307-UR

EXPANDED LINE



U-Bar
Flanged Based



STAINLESS STEEL OPTION AVAILABLE

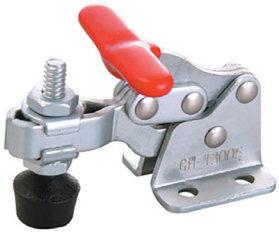
These clamps feature a compact locking lever, which locks in the clamped position only. Provided with red vinyl handle grip and flanged washers. Supplied with neoprene-tipped spindle assemblies.

Item No.	A	B	C	D	E	F	G	H	J	K	Flanged Washer	Spindle Assembly	Handle Moves (degrees)	Bar Opening (degrees)	Holding Cap. Lbs.
TC-305-UR	1.44	2.25	.50	.53	.63	1.03	1.00	1.22	.17	.50	TC-102111	TC-305208-M	175	92	150
TC-307-UR	2.44	3.61	.88	.91	1.16	1.72	1.81	1.89	.28	.75	TC-507107	TC-307208-M	175	92	350
TC-305URSS	1.44	2.25	0.50	0.53	0.63	1.03	1.00	1.22	0.17	0.50	TC-102911	-	175	92	200
TC-307URSS	2.44	3.61	0.88	0.91	1.16	1.72	1.81	1.89	0.28	0.75	TC-507907	TC-207943-M	175	92	350

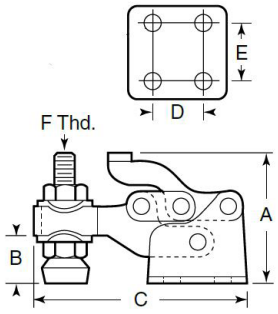
GOOD HAND™
Economy Vertical Hold-Down Clamp

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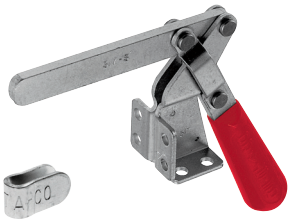
U-Bar, Flanged Base



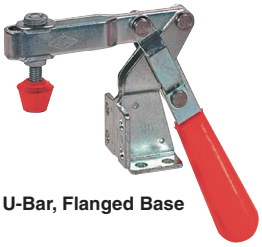
Item No.	A	B	C	D	E	F	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH13005	1.4	0.5	2.24	0.53	0.63	10-24 x 1-3/8	175	90	150
GHC-GH13007	2.31	0.87	3.69	1.06	1.16	5/16-18 x 2-1/2	175	90	330

VERTICAL HANDLE HOLD DOWN CLAMPS

DESTACO Series TC-317, TC-527



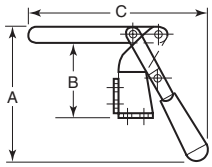
Solid Bar, Flanged Base



U-Bar, Flanged Base



Solid Bar, Flanged Base



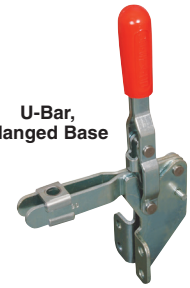
U-Bar model furnished with M8 bonded neoprene tipped spindle, flanged washers and lock nuts.

Item No.	A	B	C	D	E	Bar Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-317-S	5.62	2.67	6.44	.63	1	Solid	60	185	400
TC-317-U	5.62	2.67	6.07	.63	1	U-Bar	60	185	375
TC-527	6.79	2.17	8.14	-	1.25	Solid	65	195	1000

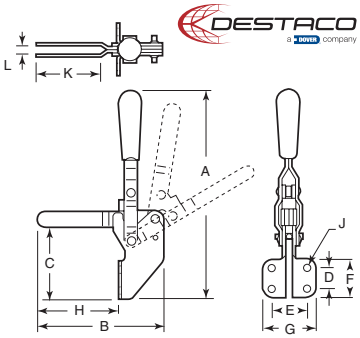
Note: Also available as Power Model TC-817-S and TC-817-U

DESTACO Series TC-91090

Front flange mount for mounting flexibility on vertical surfaces. Stainless steel rivets for increased strength. Guide bars allow for more clamp stability. Supplied with two flanged washers. Accommodates any 5/16" or M8 spindle. Spindle not included.



U-Bar, Flanged Base



Item No.	A	B	C	D	E	F	G	H	J	K	L	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-91090	7.68	4.72	2.68	.80	1.29	1.32	2.09	2.99	.28	2.40	.33	60	100	385

DESTACO Heavy Duty Modular Clamp W/ 1500 Lbf Capacity

Item No.	Base Length	Base Width	Height	Length	Arm Movement	Handle Movement	Holding Cap. Lbs.
TC-503MBLSC	1.12	.39	4.30	3.08	200	120	1500

This heavy duty clamp can be completely configured to meet the specifications of the application. It allows the designer complete flexibility to position the base, handle, and clamp arm. Manufacturer Part Number: 503-MBLSC

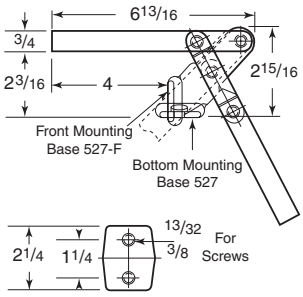


HEAVY DUTY

DESTACO Series TC-528



Solid Bar, Flanged Base



Item No.	Base Type	Handle Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-528	Flanged	Straight	177	180	1,000

For tough, heavy-duty workholding. Clamp has square, cold drawn steel hold down bar. Pivot points have serrated, hardened bushings. Large Bar opening for greater part clearance.

VERTICAL HANDLE HOLD DOWN CLAMPS

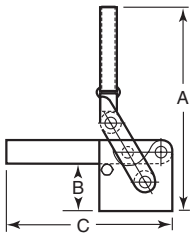
DESTACO Series TC-548, 578

Largest capacity clamps. The "bar-guide" feature provides extra support and improves rigidity and repeatability.

Item No.	A	B	C	Handle Type	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
TC-548	9.44	2.25	7.50	Straight	Solid	Straight	129	199	2,500
TC-578	11.00	2.75	8.63	Straight	Solid	Straight	129	199	4,000



Straight Base

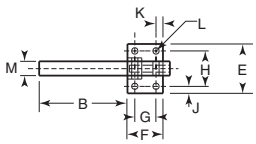


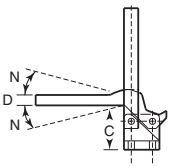
DESTACO Cam Action Clamps

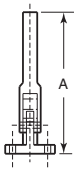
Automatically compensates for variations in part thickness. A high to low limit clamping range allows for normal part size variation and eliminates adjustments. Normalized cast steel construction for heavy duty use. Fast, one hand operation. Cam action resists vibration loosening. Accommodates from ⅛" to ¼" part size variation.



Solid Bar Flanged Base







Item No.	A	B	C	D	E	F	G	H	J	K	L	M	N	Bar Moves (degrees)	Max. Holding Cap. Lbs.
TC-7-101	5.00	3.13	1.44	.50	1.75	1.25	.75	1.25	.25	.25	.22	.50	.13	10	475
TC-7-58	7.00	2.55	1.88	.56	2.25	1.69	1.00	1.62	.31	.34	.28	.50	.13	12	600
TC-7-59	8.50	3.50	2.19	.63	2.50	2.06	1.38	1.88	.31	.39	.34	.63	.19	11	1,000
TC-7-60	9.50	4.38	2.50	.88	2.88	2.44	1.62	2.12	.38	.44	.41	.75	.25	12	1,600

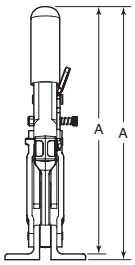
DESTACO Vertical Handle Hold-Down Clamps Series TC-5105, 5110

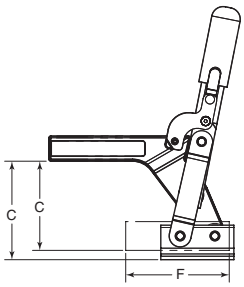


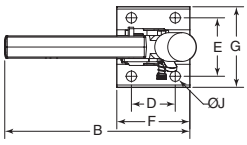
Solid Bar Flanged Base



Solid Bar Straight Base







Features:

- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar

Item No.	A	B	C	D	E	F	G	J	Bar Type	Base Type	Bar Opening (degrees)	Holding Capacity Lbs.
TC-5105	6.54	4.13	2.54	1.00	1.46	1.62	2.24	.26	Solid	Flanged	89	700
TC-5105-B	6.14	4.13	2.14	—	—	1.00	—	—	Solid	Straight	89	700
TC-5110	8.70	6.33	3.37	1.00	2.00	2.50	2.76	.35	Solid	Flanged	74	1,150
TC-5110-B	8.39	6.33	3.05	-	-	2.5	1.26	-	Solid	Straight	74	1,150

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VERTICAL HANDLE HOLD DOWN CLAMPS

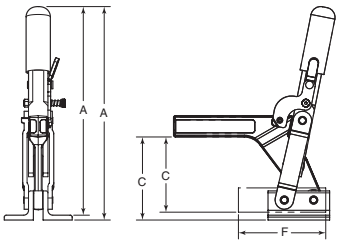
DESTACO
Vertical Handle Hold Down Clamps
Series TC-5105-R, 5110-R, 5105-BR



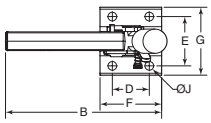
Solid Bar
Flanged Base
w/ Toggle Lock Plus



Solid Bar
Straight Base
w/ Toggle Lock Plus



Features:
- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar



Item No.	A	B	C	D	E	F	G	J	Bar Type	Base Type	Bar Opening (degrees)	Holding Capacity Lbs.
TC-5105-R	6.54	4.13	2.54	1.00	1.46	1.62	2.24	.26	Solid	Flanged	89	700
TC-5105-BR	6.14	4.13	2.14	—	—	1.62	—	—	Solid	Straight	89	700
TC-5110-R	8.70	6.33	3.37	1.00	2.00	2.50	2.76	.35	Solid	Flanged	74	1,150

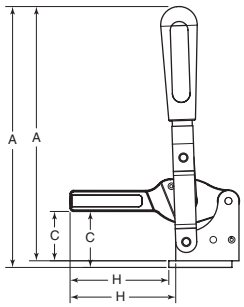
DESTACO
Vertical Handle Hold-Down Clamps
Series TC-5905, 5910, 5915



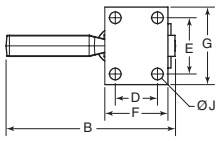
Solid Bar
Flanged Base



Solid Bar
Straight Base



Features:
- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar



Item No.	A	B	C	D	E	F	G	H	J	Bar Type	Base Type	Handle Moves (degrees)	Bar Opening (degrees)	Holding Capacity Lbs.
TC-5905	6.75	4.00	1.51	1.00	1.50	1.50	2.13	2.49	.24	Solid	Flanged	70	135	750
TC-5905-B	6.24	4.00	1.27	—	—	1.51	—	2.74	—	Solid	Straight	70	135	750
TC-5910	9.27	6.01	1.99	1.50	2.00	2.24	2.76	3.76	.35	Solid	Flanged	71	132	1,600
TC-5910-B	8.72	6.01	1.75	—	—	2.25	—	4.01	—	Solid	Straight	71	132	1,600
TC-5915	11.25	7.99	3.72	2.00	2.75	2.95	3.88	5.00	.55	Solid	Flanged	74	132	2,750

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Clamp Handle Grips



Indicators



Utility Carts

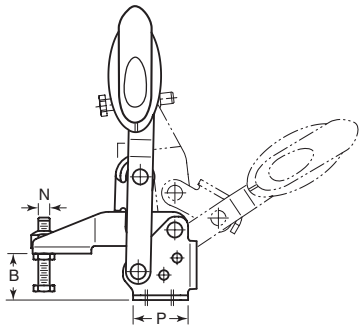


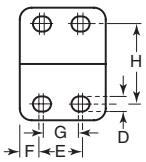
Socket Head Cap Screws

VERTICAL HANDLE HOLD DOWN CLAMPS

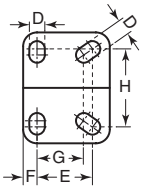
Kipp Vertical Hold Down Clamps with Safety Interlock and Flanged Base Series K0662



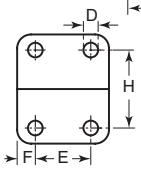




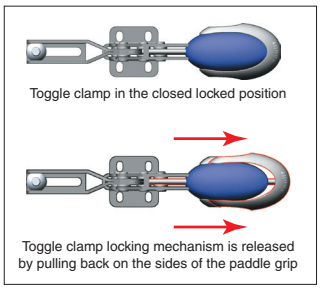
Hole arrangement for Item No. KC-350 and KC-355



Hole arrangement for Item No. KC-360



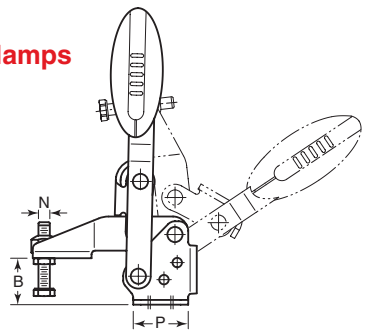
Hole arrangement for Item No. KC-365

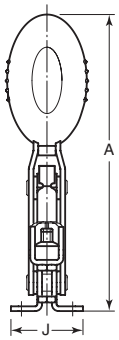


Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile. Includes an internal bar lock with automatic safety.

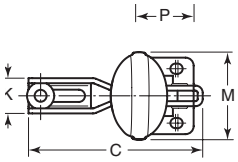
Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-350	162.9	24.7	86.5	5.5	14	7	12	27	38	53.4	M6 x 35	29.0	207
KC-355	191.4	32.7	107.0	6.8	21	9	19	32	45	51.1	M8 x 45	39.0	211
KC-360	230.5	38.7	153.0	9.0	32	8	27	45	64	56.5	M10 x 55	50.0	337
KC-365	249.1	46.7	173.5	8.8	32	10.5	—	45	63	56.5	M12 x 70	53.0	315

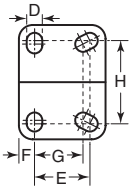
Kipp Vertical Hold Down Clamps with Safety Interlock and Flanged Base Series K0662



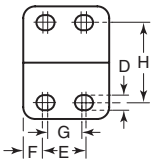




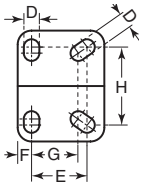




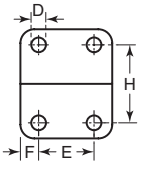
Hole arrangement for Item No. KC-300



Hole arrangement for Item No. KC-305 and KC-310



Hole arrangement for Item No. KC-315



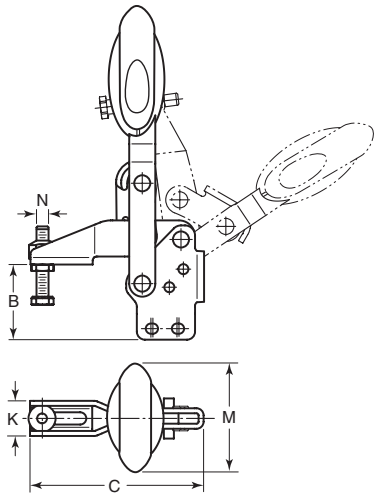
Hole arrangement for Item No. KC-320

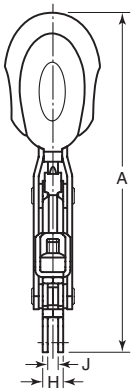
Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile.

Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-300	108.5	19.1	63.5	4.5	16	4.5	14	24	33	22.5	M5 x 25	25	140
KC-305	156.2	24.7	86.5	5.5	14	7	12	27	38	43.5	M6 x 35	29	207
KC-310	183.9	32.7	107.0	6.8	21	9	19	32	45	41.5	M8 x 45	39	211
KC-315	222.9	38.7	153.0	9.0	32	8	27	45	64	47.0	M10 x 55	50	337
KC-320	242.4	46.7	173.5	8.8	32	10.5	—	45	63	47.0	M12 x 70	53	315

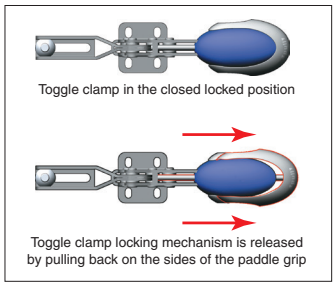
CHECK OUT OUR ACCESSORIES ON PAGE 56

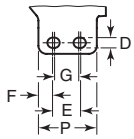
Kipp Vertical Hold Down Clamps with Safety Interlock and Straight Base Series K0663



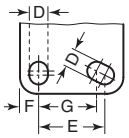




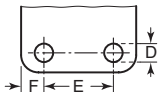




Hole arrangement for Item No. KC-450 and KC-455



Hole arrangement for Item No. KC-460

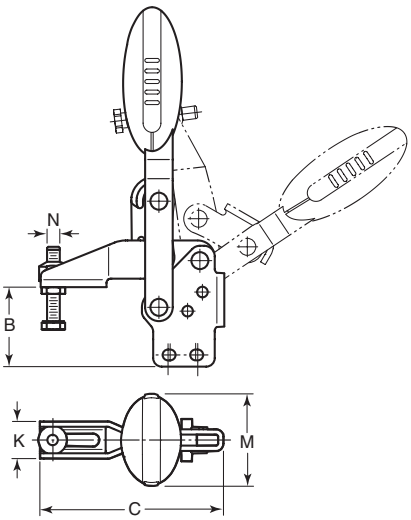


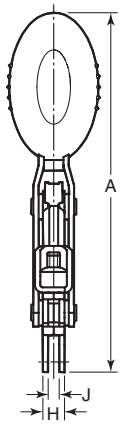
Hole arrangement for Item No. KC-465

Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile. Includes an internal bar lock with automatic safety.

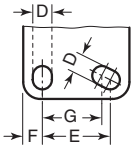
Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-450	175.7	37.6	86.5	5.5	14	7	12	10.2	5.2	53.4	M6 x 35	29	207
KC-455	207.6	49.0	107.0	6.8	21	9	19	10.2	5.2	51.1	M8 x 45	39	221
KC-460	254.0	62.3	153.0	9.0	32	8	27	14.1	7.1	56.5	M10 x 55	50	337
KC-465	271.9	69.8	173.5	8.8	32	10.5	—	14.1	7.1	56.5	M12 x 70	53	315

Kipp Vertical Hold Down Clamps with Safety Interlock and Straight Base Series K0663

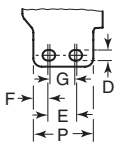




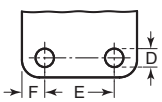




Hole arrangement for Item No. KC-400 and KC-415



Hole arrangement for Item No. KC-405 and KC-410



Hole arrangement for Item No. KC-420

Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile.

Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-400	120.3	30.8	63.5	4.5	16	4.5	14	8.1	4.1	22.5	M5 x 25	25	139
KC-405	169.1	37.6	86.5	5.5	14	7	12	10.2	5.2	43.5	M6 x 35	29	207
KC-410	200.1	49.0	107.0	6.8	21	9	19	10.2	5.2	41.5	M8 x 45	39	211
KC-415	247.4	62.3	153.0	9.0	32	8	27	14.1	7.1	47.0	M10 x 55	50	337
KC-420	265.5	69.8	173.5	8.8	32	10.5	—	14.1	7.1	47.0	M12 x 70	53	315

HORIZONTAL HANDLE HOLD DOWN CLAMPS

DESTACO Series TC-205



Solid Bar, Flanged Base



Solid Bar, Straight Base



Solid Bar, Left Flanged Base



Solid Bar, Right Flanged Base



U-Bar, Flanged Base

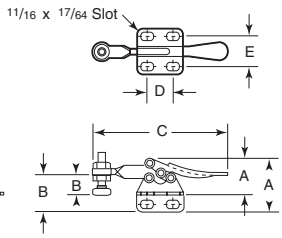


U-Bar, Straight Base



U-Bar, Right Flanged Base

STAINLESS STEEL OPTION AVAILABLE



The smallest of the horizontal handle, horizontal bar clamps. Steel models supplied with M4 neoprene tipped spindle assembly (TC-205208-M). Stainless steel models supplied with stainless steel hex head spindle (TC-205943).

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
TC-205-S	.67	.37	2.78	.53	.63	Solid	Flanged	80	90	60
TC-205-SB	.84	.63	2.78	.53	—	Solid	Straight	80	90	60
TC-205-SL	.67	.37	2.78	.53	—	Solid	Left Flanged	80	90	60
TC-205-SR	.67	.37	2.78	.53	—	Solid	Right Flanged	80	90	60
TC-205-U	.67	.31	2.65	.53	.63	U-Bar	Flanged	80	90	60
TC-205-UB	.84	.53	2.65	.53	—	U-Bar	Straight	80	90	60
TC-205-UL	.67	.31	2.65	.53	—	U-Bar	Left Flanged	80	90	60
TC-205-UR	.67	.31	2.65	.53	—	U-Bar	Right Flanged	80	90	60
Stainless										
TC-205-SSS*	.67	.37	2.75	.53	.63	Solid	Flanged	80	90	60
TC-205-USS*	.67	.31	2.66	.53	.63	U-Bar	Flanged	80	90	60

*Handle does not have vinyl grip.

GOOD HAND™ Economy Horizontal Hold-Down Clamps

VALUE CHOICE



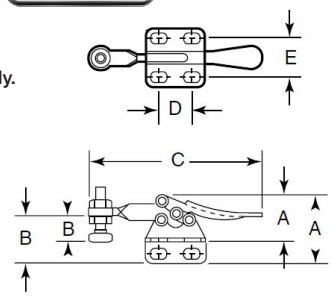
U-Bar, Flanged Base

NEW PRODUCT



Solid Bar, Flanged Base

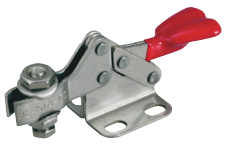
STAINLESS STEEL OPTION AVAILABLE



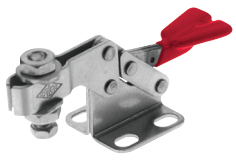
Most suitable for holding down sheet metal or circuit boards. Supplied with 8/32 x 3/4 spindle assembly.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
GHC-GH201	0.67	0.38	3.2	0.54	0.63	U-Bar	Flanged	80	90	60
GHC-GH201A	0.67	0.38	3.2	0.54	0.63	Solid	Flanged	80	90	60
GHC-GH201AL	0.67	0.38	3.2	0.54	0.63	Solid	Left Flanged	80	90	60
Stainless Steel										
GHC-GH201SS	0.67	0.38	3.2	0.54	0.63	U-Bar	Flanged	80	90	60

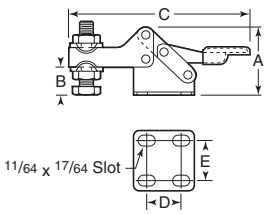
DESTACO Series TC-206-SS



Low U-Bar, Flanged Base



High U-Bar, Flanged Base



STAINLESS STEEL OPTION AVAILABLE

Made of stainless steel. Offers good clearance height under the bar, while maintaining a low profile. Optional high bar provides even more space to clamp for thicker material. Furnished with flanged washers (TC-105906) and stainless steel spindle assembly (TC-205943), two 8-32 jam nuts and one 8-32 x ¾" bolt.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Stainless Steel										
TC-206-SS	1.06	.40	2.75	.53	.63	Low U-Bar	Flanged	90	90	100
TC-206-HSS	1.06	.75	2.75	.53	.63	High U-Bar	Flanged	90	90	100

DESTACO Series TC-213, 217, 227, 237, 245

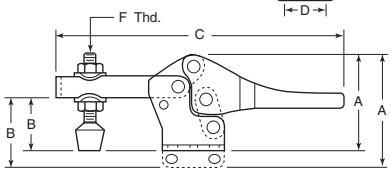
Safety designed to give more hand clearance between the bar and handle when clamps are in full, open position. Bar guide feature gives extra lateral support and rigidity to hold-down bar at front of base. Steel models are supplied with a neoprene tipped spindle assembly and flanged washers. Stainless Steel models are supplied with a stainless steel hex head spindle assembly. U-bar type.



STAINLESS STEEL OPTION AVAILABLE

U-Bar
Flanged Base





Item No.	A	B	C	D	E	F	Handle Moves (degrees)	Base Type	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
TC-213-U	1.39	.72	4.12	.53	.70	M5	60	Flanged	90	150
TC-217-U	1.95	.97	6.56	1.03	1.12	M6	76	Flanged	92	200
TC-227-U	2.43	1.30	7.56	1.03	1.22	M8	62	Flanged	92	500
TC-237-U	3.20	1.62	10.67	1.63	1.69	M10	63	Flanged	92	750
TC-245-U	4.25	2.25	12.33	1.63	1.63	½-13	67	Flanged	105	1,000
Stainless Steel										
TC-213-USS	1.36	.75	3.94	.53	.69	10-32	60	Flanged	90	150
TC-217-USS	1.97	.97	6.30	1.03	1.15	¼-20	76	Flanged	92	250
TC-227-USS	2.39	1.31	7.24	1.03	1.23	5/16-18	62	Flanged	92	600

GOOD HAND™ Economy Horizontal Hold-Down

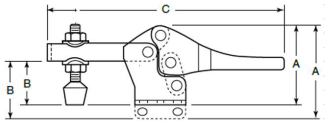
VALUE CHOICE

NEW PRODUCT



U-Bar
Flanged Base





Supplied with spindle assembly.

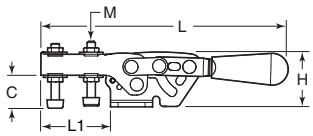
Item No.	A	B	C	D	E	Handle Moves (degrees)	Bar Moves (degrees)	Base Type	Holding Cap. Lbs.
GHC-GH20752B	1.12	0.75	4.11	0.53	-	76	94	Flanged	165
GHC-GH21502B	1.55	1	6.73	1.02	1	76	94	Flanged	330
GHC-GH22502B	2.03	1.34	8.62	1.02	1.12	76	94	Flanged	550

DESTACO TC-2013-U, 2017-U, 2027-U Flanged Base



Flanged Base





Features:

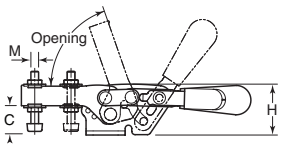
- Robust design offers increased holding capacity over TC-213-U, TC-217-U, TC-227-U
- Low arm deflection under load (greater stiffness)
- Mounting hole interchangeable with TC-213-U, TC-217-U, TC-227-U
- Large handle clearance reduces pinch points
- Fixed handle pivot provides smooth action

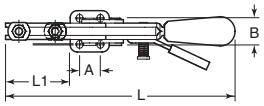
Item No.	A	C	H	L	L1	M	Bar Opening (degrees)	Holding Cap. Lbs.
TC-2013-U	.53	.75	1.27	5.88	1.65	10-32	71	295
TC-2017-U	1.03	.98	1.95	8.62	2.53	¼-20	73	560
TC-2027-U	1.03	1.32	2.20	9.88	2.86	5/16-18	68	840

DESTACO TC-2013-UR, 2017-UR, 2027-UR



Flanged Base





Features:

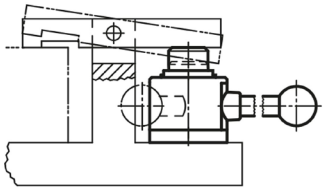
- Additional locking lever locks handle in closed and open positions
- Robust design offers increased holding capacity over TC-213-U, TC-217-U, TC-227-U
- Low arm deflection under load (greater stiffness)
- Mounting hole interchangeable with TC-213-U, TC-217-U, TC-227-U
- Large handle clearance reduces pinch points
- Fixed handle pivot provides smooth action

Item No.	A	B	C	H	L	L1	M	Bar Opening (degrees)	Holding Cap. Lbs.
TC-2013-UR	.53	.70	.75	1.27	5.88	1.65	10-32	70	295
TC-2017-UR	1.03	1.21	.98	1.95	8.62	2.53	¼-20	73	560
TC-2027-UR	1.03	1.21	1.32	2.20	9.88	2.86	5/16-18	70	840

CHECK OUT OUR ACCESSORIES ON PAGE 56



Actima Clamps

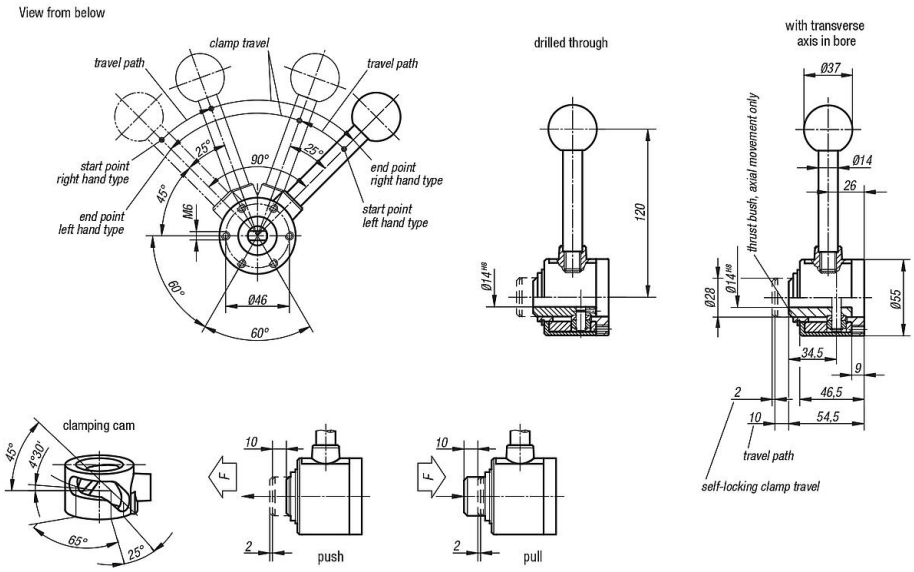


- Self-locking
- Available in thrust and tension options
- Ideally used in building clamp fixtures

Item No.	Mfg. No.	Material	Shoulder	Stud Length	Stud Dia	Length	Orientation
KAC-1	K0020.02	Steel	50 MM	24 MM	14 MM	40 MM	
KAC-2	K0020.03	Steel	24 MM	24 MM	14 MM	44 MM	
KAC-3	K0020.04	Steel	24 MM	24 MM	14 MM	44 MM	
KAC-4	K0020.10	Steel, Thermoplastic					Right Hand/ Thrust
KAC-5	K0020.15	Steel, Thermoplastic					Right Hand/Pull
KAC-6	K0020.20	Steel, Thermoplastic					Left Hand/ Thrust
KAC-7	K0020.25	Steel, Thermoplastic					Left Hand/ Pull
KAC-8	K0020.30	Steel, Thermoplastic					Right Hand/ Thrust
KAC-9	K0020.35	Steel, Thermoplastic					Right Hand/Pull
KAC-10	K0020.40	Steel, Thermoplastic					Left Hand/ Thrust
KAC-11	K0020.45	Steel, Thermoplastic					Left Hand/ Pull

The Actima clamping device is self-locking and designed for smooth, precise clamping that is both repeatable and very forceful. It can be used for thrust or tension clamping, and is ideal to build into clamping fixtures, such as a teeter-totter. The clamping plunger of every Actima clamp has a travel of 12 mm.

Reid Supply offers left hand and right hand thrust and pull Actima handles along with a variety of mounting hardware and accessories for toggle clamps of all diameters and latching applications



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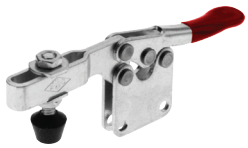
HORIZONTAL HOLD-DOWN CLAMPS

DESTACO Series TC-215

Steel models furnished with M6 bonded neoprene spindle (TC-202208-M), jam nuts and flanged washers or bolt retainer. Stainless steel model supplied with stainless steel hex head spindle (TC-202943), without neoprene tip.

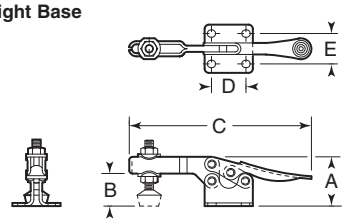


U-Bar Flanged Base



U-Bar, Straight Base

STAINLESS STEEL OPTION AVAILABLE

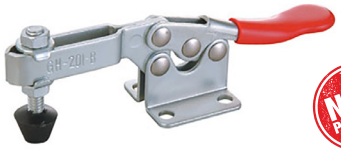


Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
TC-215-S	1.53	1.03	5.50	1	.88	Solid	Flanged	70	90	1931
TC-215-U	1.53	1.03	5.50	1	.88	U-Bar	Flanged	70	90	200
TC-215-UB	1.94	1.03	5.5	1	-	U-Bar	Straight	70	90	200
Stainless Steel										
TC-215-USS*	1.53	1.03	5.50	1	.88	U-Bar	Flanged	70	90	250

*Handle does not have vinyl grip.

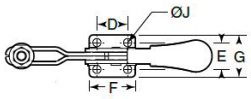
GOOD HAND™ Economy Horizontal Hold Down Clamp

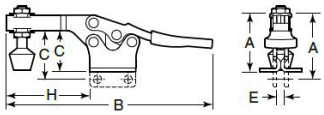
VALUE CHOICE



NEW PRODUCT

U-Bar, Flanged Base



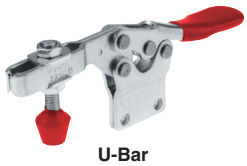


Supplied with spindle assembly.

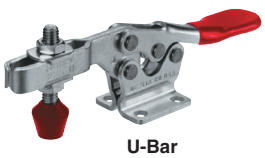
Item No.	A	B	C	D	E	F	G	H	J	Bar Type	Base Type	Spindle Size	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH201B	1.5	5.65	1	1.06	0.87	1.45	1.42	2.24	0.22	U-Bar	Flanged	1/4-20 x 1-3/4	60	85	200

DESTACO Series TC-225

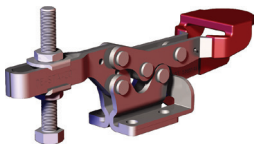
EXPANDED LINE

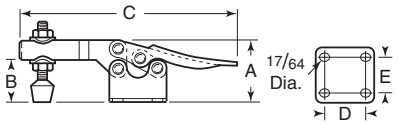


U-Bar Straight Base



U-Bar Flanged Base





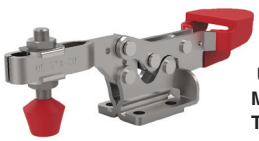
STAINLESS STEEL OPTION AVAILABLE

Steel model furnished with M8 bonded neoprene tipped spindle (TC-225208-M), flanged washers and lock nuts. Stainless steel model supplied with stainless steel hex head spindle (TC-207943), without neoprene tip.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
TC-225-U	1.84	1.32	6.70	1	.88	U-Bar	Flanged	70	92	500
TC-225-UB	1.84	1.32	6.70	1	-	U-Bar	Straight	70	92	500
Stainless Steel										
TC-225-USS*	1.84	1.32	6.70	1	.88	U-Bar	Flanged	70	92	620
TC-225-UBSS*	1.84	1.32	6.70	1	-	U-Bar	Straight	70	92	600
TC-225-URSS*	1.89	1.29	7.09	1	.88	U-Bar	Flanged	70	92	600

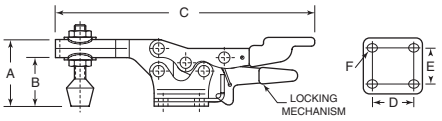
*Handle does not have vinyl grip.

DESTACO TC-225-UR, 235-UR



U-Bar, Flanged Base
M10 Bonded Neoprene Tipped Spindle

MADE IN THE USA



Equipped with a locking lever which locks in clamped position only. Large handle pad for greater comfort. TC-225-UR supplied with an M8 neoprene tipped spindle assembly (TC-225208-M) and two washers (TC-507107). TC-235-UR furnished with M10 bonded neoprene tipped spindle (TC-240208-M), flanged washers and jam nuts.

Item No.	A	B	C	D	E	F	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degree)	Holding Cap. Lbs.
TC-225-UR	1.92	1.32	7.14	1.00	.88	.27	U-Bar	Flanged	70	92	500
TC-235-UR	2.50	1.75	10.50	1.63	1.63	.33	U-Bar	Flanged	70	92	750

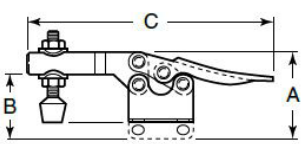
GOOD HAND™ Economy Horizontal Hold-Down Clamp

VALUE CHOICE

NEW PRODUCT



U-Bar, Flanged Base



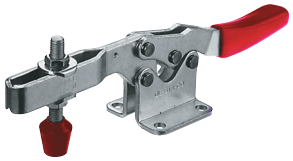


Supplied with spindle assembly.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Spindle Size	Holding Cap. Lbs.
GHC-GH225D	1.87	1.37	6.81	1	0.87	U-Bar	Flanged	65	90	5/16-18 x 2-1/2	500

DESTACO Series TC-235

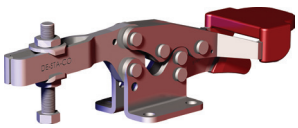
EXPANDED LINE



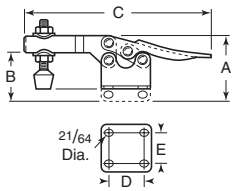
U-Bar, Flanged Base



U-Bar, Straight Base



U-Bar, Flanged Base



STAINLESS STEEL OPTION AVAILABLE

Steel model furnished with M10 bonded neoprene tipped spindle (TC-240208-M), flanged washers and lock nuts. Stainless steel model supplied with stainless steel hex head spindle (TC-237943), without neoprene tip.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
Steel										
TC-235-U	2.55	1.75	10.87	1.63	1.63	U-Bar	Flanged	55	90	750
TC-235-UB	2.55	1.75	10.87	1.63	-	U-Bar	Straight	70	90	750
Stainless Steel										
TC-235-USS	2.55	1.75	10.87	1.63	1.63	U-Bar	Flanged	70	90	850
TC-235-URSS	2.56	1.7	10.5	1.63	1.63	U-Bar	Flanged	70	90	850

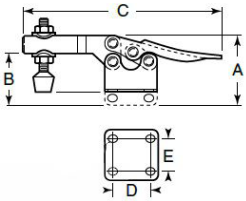
GOOD HAND™ Economy Horizontal Hold-Down Clamp

VALUE CHOICE



NEW PRODUCT

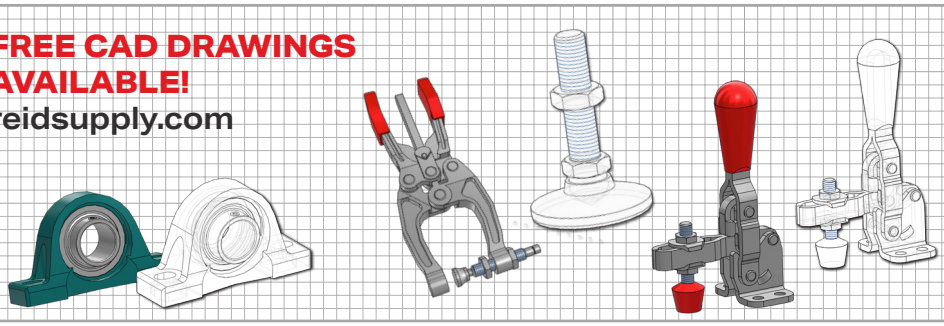
U-Bar, Flanged Base



Supplied with 3/8-16 x 3-1/2 spindle assembly.

Item No.	A	B	C	D	E	Bar Type	Base Type	Handle Moves (degrees)	Bar Moves (degrees)	Holding Cap. Lbs.
GHC-GH20235	2.5	1.75	11.64	1.63	1.63	U-Bar	Flanged	50	85	750

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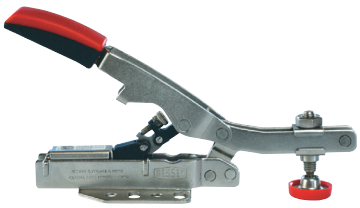
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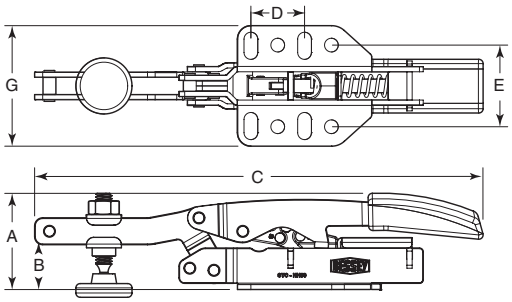
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HORIZONTAL HOLD-DOWN CLAMPS

Bessey® Horizontal Hold-Down Clamps





Auto-Adjust - The Bessey auto-adjust toggle clamp automatically adjusts to variations in work piece dimensions while maintaining constant clamping force. No more time-consuming manual adjustment of the spindle height to maintain safe and correct clamping force. The removable non-marring plastic cap is included on the ⅞" diameter pads.

Adjusting Clamping Force - The integrated clamping force adjustment screw can be used to create an actually applied clamping force from 25 to 550 lbs. (max holding capacity 700 lbs.) One Bessey auto -adjust toggle clamp can replace a range of competitive clamps.

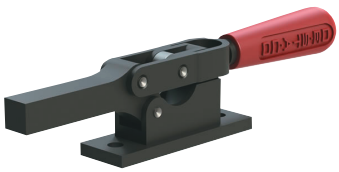
Adaptable Base Plate - The large (2¼" x 2½") flange base is designed for use with ¼" or M6 fasteners. Mounting holes are sized and spaced for easy mounting and versatility.

Extra Large Handle - The large 1" x 2⅛" handle offers greater user comfort and ease of operation.

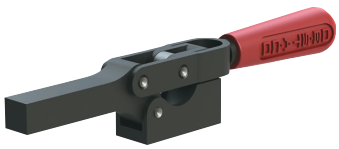
Item No.	A	B	C	D	E	G	Opening	Clamping Force Range	Holding Cap. Lbs.
STC-HH50	1.79	.84	8.25	1.00	1.52	2.24	2.00	25-550	700
STC-HH70	2.50	1.54	8.25	1.00	1.52	2.24	2.75	25-550	700

Note: Clamping force range is variable and dependent on spindle settings, pressure screw setting, force applied, etc.

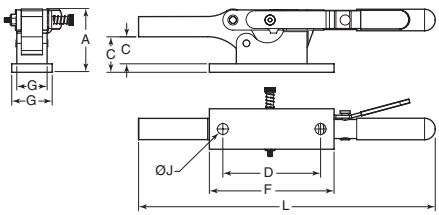
DESTACO Series TC-5305, 5310



Solid Bar
Flanged Base



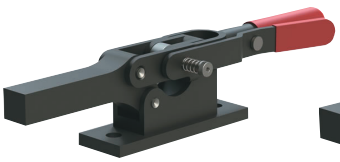
Solid Bar
Straight Base



Features:
- Solid clamping arm may be modified to suit requirements
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish

Item No.	A	L	C	D	F	G	J	Bar Type	Base Type	Bar Opening (degrees)	Holding Capacity Lbs.
TC-5305	1.51	8.36	.81	2.50	3.15	.98	.35	Solid	Flanged	90	600
TC-5305-B	1.51	8.36	1.12	—	—	.79	—	Solid	Straight	90	600
TC-5310	2.00	11.13	1.00	3.63	4.63	1.50	.41	Solid	Flanged	90	1,300
TC-5310-B	2.00	11.13	1.31	—	—	1.13	—	Solid	Straight	90	1,300

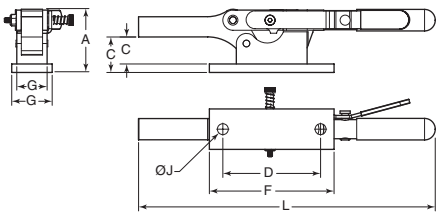
DESTACO Series TC-5305, 5310 Toggle Lock Plus



Solid Bar
Flanged Base
w/ Toggle Lock Plus



Solid Bar
Straight Base
w/ Toggle Lock Plus



Features:
- Solid clamping arm may be modified to suit requirements
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish

Item No.	A	L	C	D	F	G	J	Bar Type	Base Type	Bar Opening (degrees)	Holding Capacity Lbs.
TC-5305-R	1.51	8.36	.81	2.50	3.15	.98	.35	Solid	Flanged	90	600
TC-5305-BR	1.51	8.36	1.12	—	—	.79	—	Solid	Straight	90	600
TC-5310-R	2.00	11.02	1.00	3.63	4.63	1.50	.41	Solid	Flanged	90	1,300
TC-5310-BR	2.00	11.02	1.31	—	—	1.13	—	Solid	Straight	90	1,300

Color Code Your Work Area
With Destaco Colored Handle Grips!

DESTACO has a collection of colored manual clamp handles.
Now available with **5 handle colors**.

DESTACO a DOVER company

The range of colors can be used for:

- Implementing safety aspects using standardized color codes.
- Company branding
- Color code for different operations
- Designate specific handles for specialized uses
- Create standardized color codes for different operations



*The colored handles can be ordered on all models within the series listed, except for dipped handle.

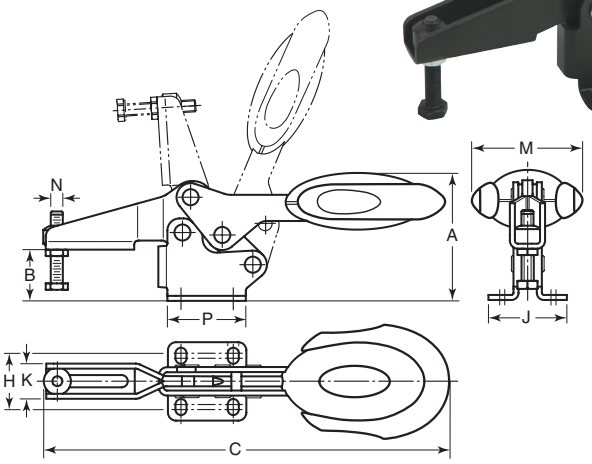


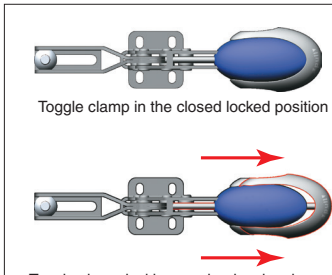
Manual Clamp Series	Standard Red Handle Popular Model Number Used	Green	Blue	Yellow	Black
202	202-U	202-U-G	202-U-B	202-U-Y	202-U-K
207	207-U	207-U-G	207-U-B	207-U-Y	207-U-K
602	602-MM	602-MM-G	602-MM-B	602-MM-Y	602-MM-K
604	604-MM	604-MM-G	604-MM-B	604-MM-Y	604-MM-K
624	624-MM	624-MM-G	624-MM-B	624-MM-Y	624-MM-K
213	213-USS	213-USS-G	213-USS-B	213-USS-Y	213-USS-K
227	227-U	227-U-G	227-U-B	227-U-Y	227-U-K
237	237-U	237-U-G	237-U-B	237-U-Y	237-U-K
2002	2002-U	2002-U-G	2002-U-B	2002-U-Y	2002-U-K
2007	2007-U	2007-U-G	2007-U-B	2007-U-Y	2007-U-K
2010	2010-U	2010-U-G	2010-U-B	2010-U-Y	2010-U-K
2013	2013-U	2013-U-G	2013-U-B	2013-U-Y	2013-U-K
2017	2017-U	2017-U-G	2017-U-B	2017-U-Y	2017-U-K
2027	2027-U	2027-U-G	2027-U-B	2027-U-Y	2027-U-K

HORIZONTAL HOLD-DOWN CLAMPS

Kipp Horizontal Hold Down Clamps with Safety Interlock and Flanged Base Series K0660

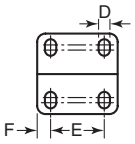




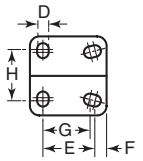


Toggle clamp in the closed locked position

Toggle clamp locking mechanism is released by pulling back on the sides of the paddle grip



Hole arrangement for Item No. KC-150, KC-155, and KC-160



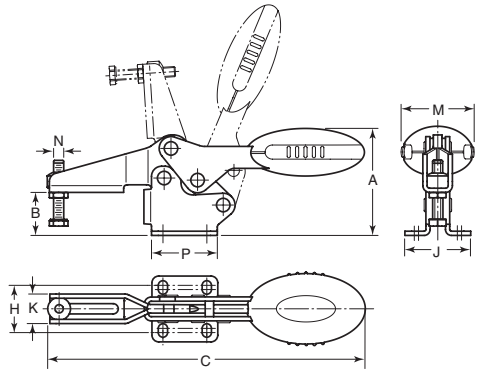
Hole arrangement for Item No. KC-165

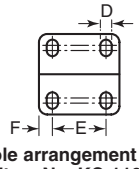
Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile. Includes an internal bar lock with automatic safety.

Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-150	63.3	25.5	193.3	5.5	26.0	6.5	—	28	39	53.4	M6 x 35mm	39	162
KC-155	73.9	32.2	230.3	6.2	26.0	9	—	31	45	51.1	M8 x 45mm	44	187
KC-160	94.8	40.0	286.0	8.8	41.5	9	—	43	59	56.5	M10 x 55mm	59	270
KC-165	104.9	52.3	321.3	8.5	44.0	10	40	42	67	56.5	M12 x 70mm	65	225

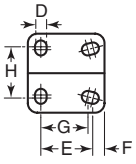
Kipp Horizontal Hold Down Clamps with Safety Interlock and Flanged Base Series K0660



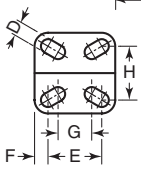




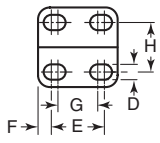
Hole arrangement for Item No. KC-110, KC-115, and KC-120



Hole arrangement for Item No. KC-125



Hole arrangement for Item No. KC-100



Hole arrangement for Item No. KC-105

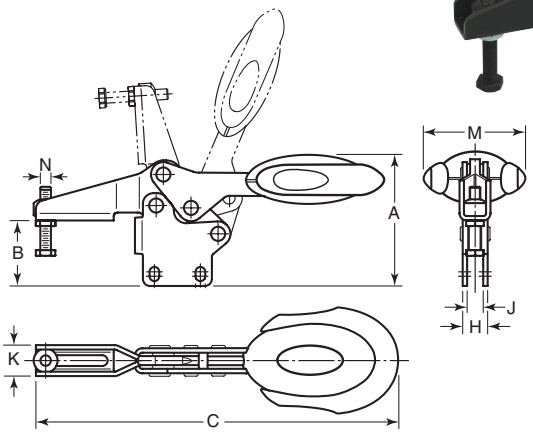
Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile.

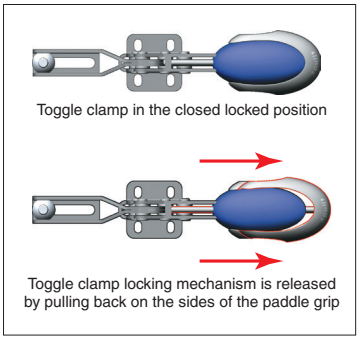
Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-100	29.3	11.7	91.8	4.2	16.0	4	12.74	16.0	24	20.0	M4 x 16	24	56
KC-105	43.4	18.0	126.3	5.5	18.0	4.5	13.5	16.8	27	22.5	M5 x 25	27	124
KC-110	63.2	25.5	186.7	5.5	26.0	6.5	—	28.0	39	43.5	M6 x 35	39	162
KC-115	73.9	32.2	223.2	6.2	26.0	9	—	31.0	45	41.5	M8 x 45	44	187
KC-120	94.8	40.0	279.4	8.8	41.5	9	—	43.0	59	47.0	M10 x 55	59	270
KC-125	104.8	52.3	314.7	8.5	44.0	10	40	42.0	67	47.0	M12 x 70	65	225

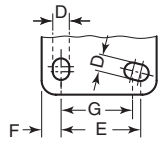
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Kipp Horizontal Hold Down Clamps with Safety Interlock and Straight Base Series K0661

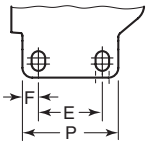








Hole arrangement for Item No. KC-265



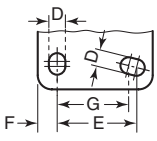
Hole arrangement for Item No. KC-250, KC-255, and KC-260

Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile. Includes an internal bar lock with automatic safety.

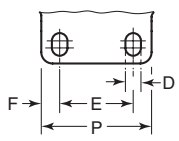
Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-250	74.3	37.0	193.7	5.5	26.0	6.5	—	14.1	9.1	53.4	M6 x 35	39	162
KC-255	88.2	46.5	230.3	6.2	26.0	9	—	14.1	9.1	51.1	M8 x 45	44	187
KC-260	114.4	59.6	286.4	8.8	41.5	9	—	16.2	9.2	56.5	M10 x 55	59	270
KC-265	128.4	75.9	321.3	8.5	44.0	10	40	16.2	9.2	56.5	M12 x 70	65	225

Kipp Horizontal Hold Down Clamps with Safety Interlock and Straight Base Series K0661

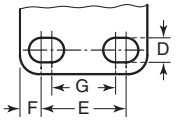




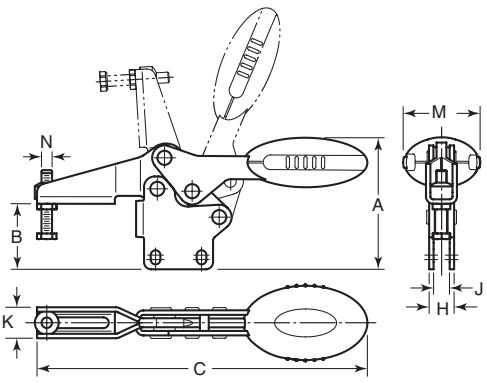
Hole arrangement for Item No. KC-220



Hole arrangement for Item No. KC-205, KC-210, and KC-215



Hole arrangement for Item No. KC-200



Maintenance-free, high quality swivel bushings. Constant use of force when opening and closing. Optimum stability is achieved through the conical clamping arm and U-profile.

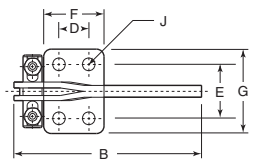
Item No.	A	B	C	D	E	F	G	H	J	M	N	P	Holding Capacity Lbs.
KC-200	51.8	26.0	125.7	5.5	18.0	4.5	13.5	8.1	4.1	22.5	M5 x 25	27	124
KC-205	74.2	37.0	186.8	5.5	26.0	6.5	—	14.1	9.1	43.5	M6 x 35	39	162
KC-210	88.2	46.5	273.5	6.2	26.0	9	—	14.1	9.1	41.5	M8 x 45	44	187
KC-215	114.4	59.6	279.3	8.8	41.5	9	—	16.2	9.2	47.0	M10 x 55	59	270
KC-220	128.4	75.9	314.7	8.5	44.0	10	40	16.2	9.2	47.0	M12 x 70	65	225

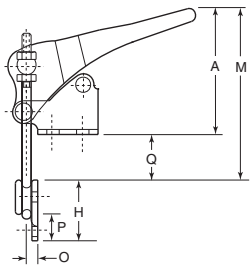
VERTICAL PULL-ACTION LATCH CLAMPS

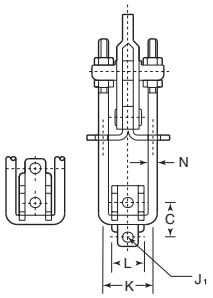
DESTACO Series TC-324, 334, 344, 374



STAINLESS STEEL OPTION AVAILABLE







Latch plate included with all clamps listed below except TC-374. Furnished with a thumb control lever.

Item No.	A	B	C	D	E	F	G	H	J	J1	K	L	M	N	O	P	Q	Thread Size	Drawing Movement	Holding Cap. Lbs.
Steel																				
TC-324	2.00	3.35	.56	.50	.88	1.00	1.38	1.00	.20	.17	.81	.53	2.69	.14	.19	.63	.91	M4	1.53	500
TC-334	2.44	4.25	.81	.75	1.00	1.31	1.56	1.50	.28	.22	1.13	.68	3.69	.25	.35	.69	1.35	M6	2.00	1,000
TC-344	3.24	5.35	1.06	1.25	1.44	1.94	2.13	2.13	.34	.34	1.75	1.19	5.31	.31	.50	1.25	1.93	M8	2.50	2,000
TC-374	2.67	5.69	.56	1.25	1.50	2.50	2.50	2.72	.41	.25	1.63	1.13	4.94	.39	.56	.75	2.34	M10	1.75	4,000
Stainless Steel																				
TC-324-SS	2.00	3.35	.56	.50	.88	1.00	1.38	1.00	.20	.17	.81	.53	2.69	.14	.19	.63	.91	M4	1.53	500
TC-334-SS	2.44	4.25	.81	.75	1.00	1.31	1.56	1.50	.28	.22	1.13	.68	3.69	.25	.35	.69	1.35	M6	2.00	1,000
TC-344-SS	3.25	5.35	1.06	1.25	1.44	1.94	2.13	2.13	.34	.34	1.75	1.19	5.31	.31	.50	1.25	1.93	M8	2.50	2,000

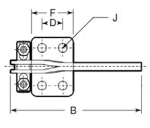
GOOD HAND™ Economy Vertical Hook & Latch Clamp

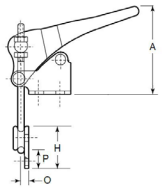
VALUE CHOICE

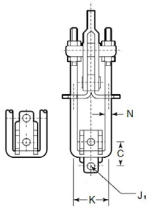


Model 40334, 40344

NEW PRODUCT





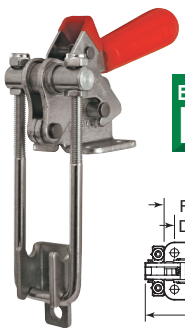


These unique latch clamps are designed for enclosure applications where the clamps are perpendicular to the latches. Supplied with latch plate.

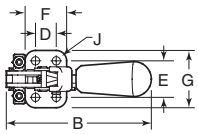
Item No.	A	B	C	D	F	H	J	J1	K	N	O	P	Holding Cap. Lbs.
GHC-GH40334	2.57	4.79	0.81	0.75	1.31	1.5	0.28	0.22	1.1	0.24	0.34	0.39	1000

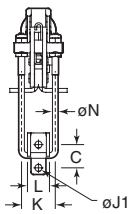
DESTACO Vertical Pull-Action Latch Clamps Series TC-324-R, 334-R, 344-R

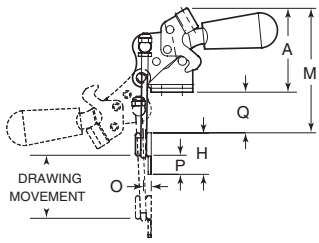
STAINLESS STEEL OPTION AVAILABLE



EXPANDED LINE







Features:

- Ergonomic thumb controlled locking lever
- Over-center toggle lock mechanism
- Durable carbon steel construction
- Locks to base

Applications: Ideal for quick clamping for the closure of covers and flaps on rotating or stationary containers, drums, boxes and molds—or any application where the possibility of unintentional opening exists due to vibration or abrupt movement.

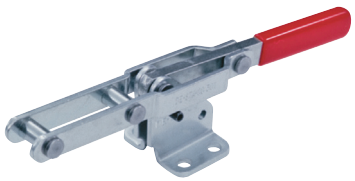
Item No.	A	B	C	D	E	F	G	H	J	J1	K	L	M	N	O	P	Q	Drawing Movement	Holding Cap. Lbs.
TC-324-R	2.07	3.47	.56	.50	.88	1.00	1.38	1.00	.20	.17	.81	.52	3.05	.14	.19	.46	.98	1.53	495
TC-334-R	2.55	4.12	.81	.75	1.00	1.38	1.56	2.13	.28	.22	1.13	.68	3.95	.25	.35	.69	1.40	2.04	1,000
TC-344-R	3.39	5.77	1.06	1.31	1.44	1.94	2.13	3.17	.34	.34	1.75	1.20	5.38	.31	.50	.92	1.99	2.46	2,000
Stainless Steel																			
TC-324RSS	2.07	3.47	0.56	0.50	0.88	1.00	1.38	1.00	0.20	0.17	0.81	0.52	3.05	0.14	0.19	0.46	0.98	1.53	495
TC-334RSS	2.55	4.12	0.81	0.75	1.00	1.38	1.56	2.13	0.28	0.22	1.13	0.68	3.95	0.25	0.35	0.69	1.40	2.04	1,000
TC-344RSS	3.39	5.77	1.06	1.31	1.44	1.94	2.13	3.17	0.34	0.34	1.75	1.20	5.38	0.31	0.50	0.92	1.99	2.46	2,000

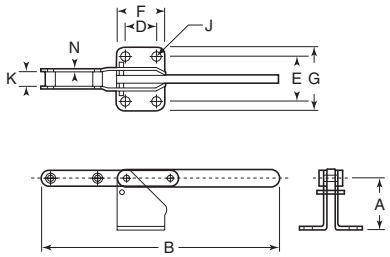
HORIZONTAL PULL-ACTION LATCH CLAMPS

DESTACO Series TC-301, 311

Fixed stop automatically limits handle travel at various clamping positions once the clamp is installed. Red vinyl handle for comfortable operation.

STAINLESS STEEL OPTION AVAILABLE



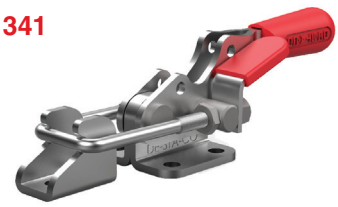


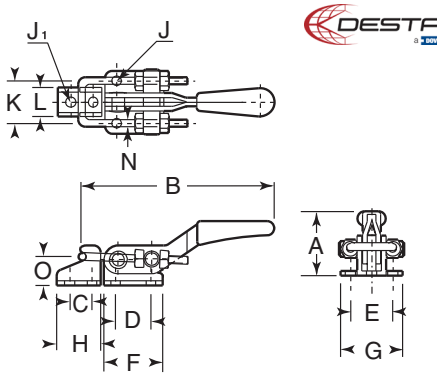
Item No.	A	B	D	E	F	G	J	K	N	Drawing Movement	Holding Cap. Lbs.
Steel											
TC-301	1.91	8.40	.75	1.25	1.38	1.75	.28	.56	.12	4.00	375
TC-311	2.44	9.52	1.25	1.78	1.91	2.53	.33	.56	.13	3.38	1,200
Stainless Steel											
TC-301-SS	1.91	8.40	.75	1.25	1.38	1.75	.28	.56	.12	4.00	450

DESTACO Series TC-323, 331, 341

The threaded U-bolt permits easy adjustment and provides a positive connection with the supplied latch plate. Furnished with a thumb control lever.

STAINLESS STEEL OPTION AVAILABLE





Item No.	A	B	C	D	E	F	G	H	Drawing Movement	J	J1	K	L	N	O	Holding Cap. Lbs.
Steel																
TC-323	1.13	4.00	.39	.63	.75	1.02	1.11	.79	1.81	.17	.17	.75	.52	.13	.47	360
TC-331	1.96	5.97	.56	.75	1.25	1.56	1.75	1.00	1.75	.27	.27	1.00	.69	.17	.66	720
TC-341	2.89	7.50	.75	1.63	1.50	2.38	2.13	1.50	2.50	.33	.33	1.75	1.19	.31	.94	2,000
Stainless Steel																
TC-323-SS	1.13	4.00	.39	.63	.75	1.02	1.11	.79	1.81	.17	.17	.75	.52	.13	.47	360
TC-331-SS	1.96	5.97	.56	.75	1.25	1.56	1.75	1.00	1.75	.27	.27	1.00	.69	.17	.66	720
TC-341-SS	2.89	7.50	.75	1.63	1.50	2.38	2.13	1.50	2.50	.33	.33	1.75	1.19	.31	.94	2,000

GOOD HAND™ Economy Horizotal Hook & Latch Clamps

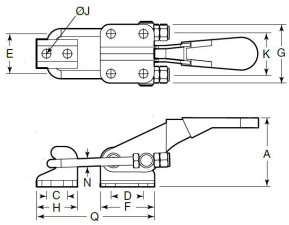
VALUE CHOICE



NEW PRODUCT



Model 40323



Supplied with latch plate.

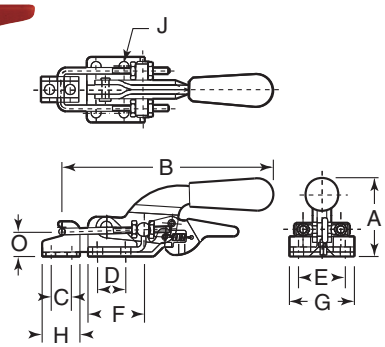
Item No.	A	C	D	E	F	G	H	J	K	N	Q	Holding Cap. Lbs.
GHC-GH40323	1.23	0.39	0.63	0.75	1.03	1.11	0.78	0.17	0.75	0.16	2.17	360
GHC-GH431	1.67	0.45	0.75	1.25	1.56	1.75	1	0.25	1.05	0.2	3.44	700
GHC-GH40341	0.37	0.75	1.63	1.5	2.37	2.13	1.5	0.33	1.75	0.31	4.5	2000

DESTACO Series TC-323-R, TC-331-R, 341-R

Supplied with a locking lever catch which allows clamp to lock in closed position only. The threaded U-bolt provides easy adjustment and a positive connection with the supplied latch plate.

STAINLESS STEEL OPTION AVAILABLE

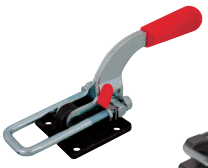


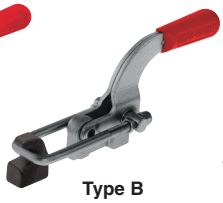


Item No.	A	B	C	D	E	F	G	H	J	O	Drawing Movement	Holding Cap. Lbs.
Steel												
TC-323-R	1.23	4.00	.39	.63	.75	1.02	1.11	.79	.17	.47	1.17	360
TC-331-R	2.08	5.97	.56	.75	1.25	1.56	1.75	1.00	.27	.68	1.75	700
TC-341-R	2.89	7.50	.75	1.63	1.50	2.38	2.12	1.50	.33	.94	2.50	2,000
Stainless Steel												
TC-323-RSS	1.23	4.00	.39	.63	.75	1.02	1.11	.79	.17	.47	1.17	360
TC-331-RSS	2.08	5.97	.56	.75	1.25	1.56	1.75	1.00	.27	.68	1.75	720
TC-341-RSS	2.89	7.50	.75	1.63	1.50	2.38	2.12	1.50	.33	.94	2.50	2,000

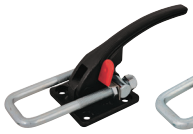
HORIZONTAL PULL-ACTION LATCH CLAMPS

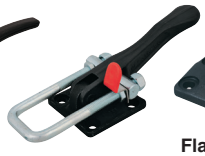
DESTACO Series TC-375, 375-B, 385, 385-L


Type A

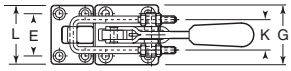

Type B

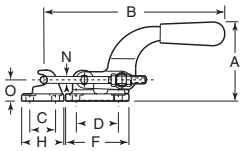

Weld-on Type C


Type C


Type D


Flanged Plate





Item No.	Type	A	B	C	D	E	F	G	H	K	L	N	O	Drawing Movement	Holding Cap. Lbs.
TC-375	A	4.19	9.63	1.38	2.25	2.25	3.44	3.19	2.25	1.75	3.13	.39	1.13	3.50	4,000
TC-375-B*	B	4.19	9.63	—	—	—	2.81	1.00	1.38	1.75	.88	.39	1.13	3.50	4,000
TC-385	C	3.63	8.75	1.38	2.25	2.25	3.44	3.19	2.25	2.13	3.13	.47	1.13	2.1875	7,486
TC-385-L	D	1.94	9.16	1.38	2.25	2.25	3.44	3.19	2.25	2.13	3.13	.47	1.13	2.1875	7,486
TC-375509	Weld-on	Latch Plate For TC-375 Series and TC-385 Series													
TC-385102	Flanged	Latch Plate For TC-375 and TC-385 only													

*Narrow base

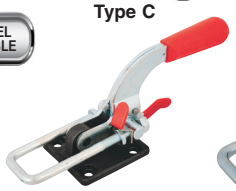
DESTACO Series TC-375, 385

EXPANDED LINE

STAINLESS STEEL OPTION AVAILABLE


Type C

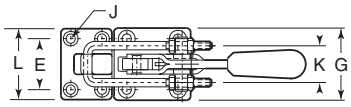

Type D

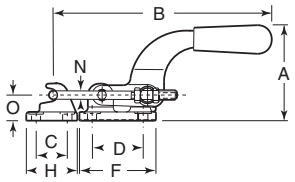

Type A


Type B


Flanged Plate


Weld-on





Heavy duty models. Supplied with a locking lever which locks into the forged steel base in closed position only. Latch plate not included.

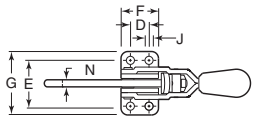
Item No.	Type	A	B	C	D	E	F	G	H	J	K	L	N	O	Drawing Movement	Holding Cap. Lbs.
Steel																
TC-375-R	A	4.19	9.63	1.28	2.25	2.25	3.44	3.13	2.25	.41	1.75	3.13	.39	1.13	3.50	4,000
TC-385-R	B	3.63	8.75	1.38	2.25	2.25	3.44	3.19	2.25	.41	2.13	3.13	.47	1.13	2.19	7,500
TC-375509	Weld-on	Latch Plate For TC-375 Series and TC-385 Series														
TC-385102	Flanged	Latch Plate For TC-375 and TC-385 only														
Stainless Steel																
TC-385SS	C	3.63	8.75	1.38	2.25	2.25	3.44	3.19	2.25	0.41	2.13	3.13	0.47	1.13	2.19	7,500
TC-385RSS	D	3.63	8.75	1.38	2.25	2.25	3.44	3.19	2.25	0.41	2.13	3.13	0.47	1.13	2.19	7,500

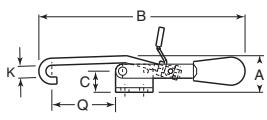
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DESTACO Series TC-330, 351, 371, 381

STAINLESS STEEL OPTION AVAILABLE







J-hook is threaded for convenient adjustment. Furnished with a thumb control lever.

Item No.	A	B	C	D	E	F	G	J	K	N	Q Min.	Q Max.	Drawing Movement	Holding Cap. Lbs.
Steel														
TC-330	.90	5.64	.56	.50	1.23	1.00	1.69	.22	.31	.19	1.60	1.85	2.31	200
TC-351	1.34	8.56	.75	.75	1.38	1.50	1.94	.20	.38	.31	1.75	2.18	4.00	375
TC-351-B*	1.34	8.56	.86	1.50	—	2.00	.56	.27	.44	.31	1.75	2.18	4.00	375
TC-371	2.23	12.00	1.42	1.25	1.94	1.94	2.62	.34	.50	.39	2.02	2.83	5.38	750
TC-381	2.71	13.45	1.81	1.13	2.38	2.13	3.38	.41	.63	.47	2.17	3.10	6.13	1,000
Stainless Steel														
TC-330-SS	.90	5.64	.56	.50	1.23	1.00	1.69	.22	.31	.19	1.60	1.85	2.31	200
TC-351-SS	1.34	8.56	.75	.75	1.38	1.50	1.94	.20	.44	.31	1.75	2.18	4.00	375
TC-351-BSS*	1.34	8.56	.86	1.50	—	2.00	.56	.27	.44	.31	1.75	2.18	4.00	375
TC-371-SS	2.23	12.00	1.42	1.25	1.94	1.94	2.62	.34	.50	.39	2.02	2.83	5.38	750
TC-381-SS	2.90	13.45	1.81	1.13	2.37	2.13	3.38	.41	N/A	N/A	N/A	N/A	6.13	1,000

HORIZONTAL PULL-ACTION LATCH CLAMPS

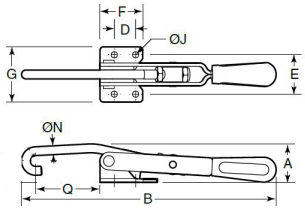
GOOD HAND™ Economy Horizontal Hook & Latch

VALUE CHOICE

NEW PRODUCT



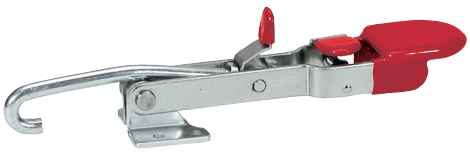


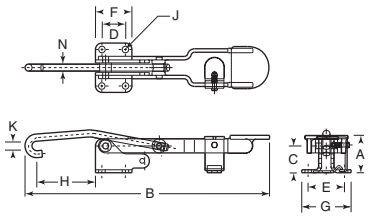


Item No.	A	B	D	E	F	G	J	N	Q	Holding Cap. Lbs.
GHC-GH451	1.44	8.35	0.75	1.37	1.5	1.94	0.22	0.31	2.3	375
GHC-GH40371	2.25	11.22	1.25	1.94	1.87	2.59	0.34	0.37	3.13	750

DESTACO Series TC-351-R, 371-R

STAINLESS STEEL OPTION AVAILABLE





EXPANDED LINE

Supplied with a locking lever catch which allows the clamp to lock in closed position only. Large handle pad improves operability. J-hook is threaded for adjustment.

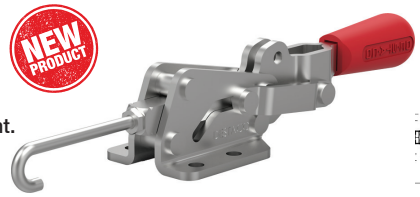
Item No.	A	B	C	D	E	F	G	H	J	K	N	Drawing Movement	Holding Cap. Lbs.
TC-351-R	1.42	9.10	.75	.75	1.38	1.50	1.94	2.18	.22	.38	.31	4.00	375
TC-371-R	2.25	12.88	1.42	1.25	1.94	1.94	2.62	2.83	.34	.50	.39	5.38	750
Stainless Steel													
TC-351RSS	1.42	9.10	0.75	0.75	1.38	1.50	1.94	2.18	0.22	0.38	0.31	4.00	375
TC-371RSS	2.25	12.88	1.42	1.25	1.94	1.94	2.62	2.83	0.34	0.50	0.39	5.38	750

DESTACO Series TC-3031

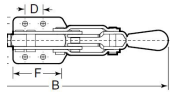
1) Fast, safe, one-handed operation.
2) Integrated lock-out hole for pin or lock
3) The clamp''s over-center condition is not affected by the elevation of the latch point.

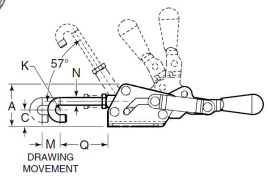
Applications: Molding, closures, assembly, checking fixtures.

NEW PRODUCT



STAINLESS STEEL OPTION AVAILABLE





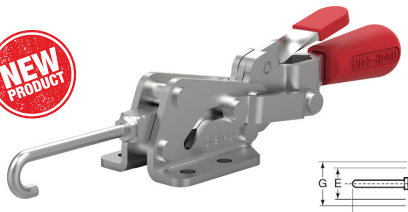
Item No.	A	B	C	D	E	F	G	K	N	Q Min.	Q Max.	Drawing Movement	Holding Cap. Lbs.
Steel													
TC-3031	1.35	8.06	0.48	0.75	1.22	1.65	1.69	0.32	0.17	1.62	2.02	0.50	200
Stainless Steel													
TC-3031SS	1.35	8.06	0.48	0.75	1.22	1.65	1.69	0.32	0.17	1.62	2.02	0.50	200

DESTACO Series TC-3031-R

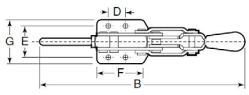
1) Secure toggle locking action
2) Fast, safe, one-handed operation.
3) Integrated lock-out hole for pin or lock
4) The clamp''s over-center condition is not affected by the elevation of the latch point.

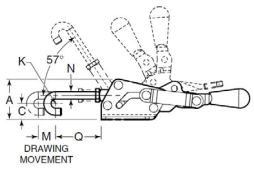
Applications: Molding, closures, assembly, checking fixtures.

NEW PRODUCT



STAINLESS STEEL OPTION AVAILABLE





Item No.	A	B	C	D	E	F	G	K	N	Q Min.	Q Max.	Drawing Movement	Holding Cap. Lbs.
Steel													
TC-3031R	1.35	8.06	0.48	0.75	1.22	1.65	1.69	0.32	0.17	1.62	2.02	0.50	200
Stainless Steel													
TC-3031RSS	1.35	8.06	0.48	0.75	1.22	1.65	1.69	0.32	0.17	1.62	2.02	0.50	200

HORIZONTAL PULL-ACTION LATCH CLAMPS

DESTACO Series TC-3051

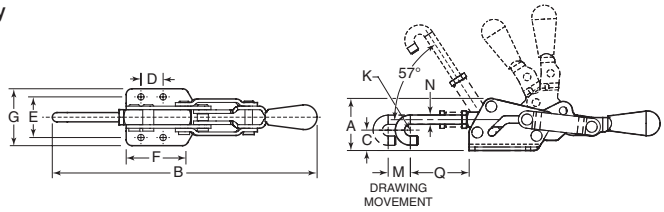
EXPANDED LINE

- Safe, single-handed operation
- Innovative controlled motion
- Simple setup and adjustment
- Clamp hook/arm moves and stays safely out of the way

Applications: Assembly checking and welding fixtures, closure devices for containers and latches for molds.

STAINLESS STEEL OPTION AVAILABLE





Item No.	A	B	C	D	E	F	G	K	N	Q Min.	Q Max.	Drawing Movement	Holding Cap. Lbs.
TC-3051	1.77	8.98	.69	.75	1.38	2.03	1.93	.39	.31	1.99	2.50	.75	1,500
Stainless Steel													
TC-3051SS	1.77	8.98	0.69	0.75	1.38	2.03	1.93	0.39	0.31	1.99	2.5	0.75	1,500

DESTACO Series TC-3051-R

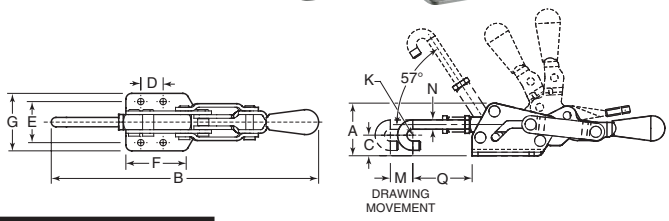
EXPANDED LINE

- Secure toggle locking action
- Safe single handed operation
- Innovative controlled motion
- Simple setup and adjustment
- Clamp hook/arm moves and stays safely out of the way

Applications: Assembly checking and welding fixtures, closure devices for containers and latches for molds.

STAINLESS STEEL OPTION AVAILABLE





Item No.	A	B	C	D	E	F	G	K	N	Q Min.	Q Max.	Drawing Movement	Holding Cap. Lbs.
TC-3051-R	1.77	8.98	.69	.75	1.38	2.03	1.93	.39	.31	1.99	2.50	.75	1,500
Stainless Steel													
TC-3051RSS	1.77	8.98	0.69	0.75	1.38	2.03	1.93	0.39	0.31	1.99	2.5	0.75	1,500



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Application Examples

This **Model 341-SS** is used here to provide a push action on conveyor take-up for quick tear down.





DESTACO a DOVER company

Model 351 safely secures equipment on this rescue vehicle, allowing fast access to vital equipment.



This modified (handle) **Model 311** provides quick and secure clamping of mold halves. This enables the mold to be opened much faster than with traditional fastening systems.



Model 351 makes for an ideal closure system for this vibratory finishing machine.





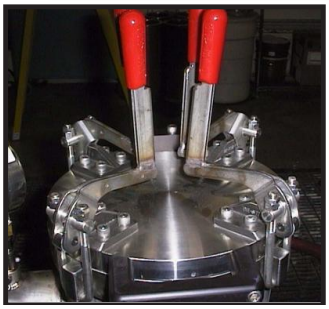
Stainless steel versions of DE-STA-CO toggle clamps are used often on stainless equipment. **Model 324-SS** shown here securing an access door.

Model 323 used for a vessel closure



We have access to Destaco engineers and support to help you find solutions to your application.

Model 374 (modified) used for a vessel closure





Potential application for latch clamps

STRAIGHT-LINE ACTION CLAMPS

DESTACO Series TC-601, 6001

STAINLESS STEEL OPTION AVAILABLE



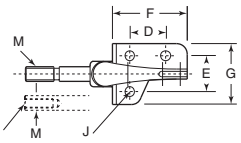
Type A

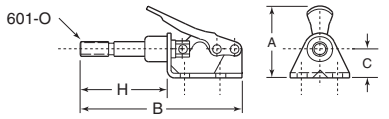


Type B

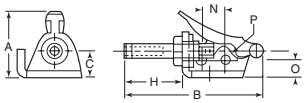


Type C





Type A, Type B



Type C

Smallest of the straight-line toggle clamps. Ideal for electronic applications and similar small fixturing. TC-601 has an 8-32 nylon spindle (TC-105203). TC-601-SS has an 8-32 stainless steel spindle (TC-205943). TC-601-0 and TC-601-0SS have externally threaded 1/4-20 plunger tips. TC-601-M has a M4 internal thread. TC-6001-M and TC-6001-SS are heavier duty versions and has 50% greater holding capacity. It is manufactured from heavy gauge material and has a more flexible mounting base to enable side-mounting the clamp. TC-6001-M has a M4 internal thread. TC-6001-SS has a 8-32 internal thread.

Item No.	Type	A	B	C	D	E	F	G	H	J	M	N	O	P	Plunger Type	Plunger Travel	Holding Cap. Lbs.
Steel																	
TC-601	A	1.19	2.62	.50	.63	.63	1.33	1.05	1.29	.17	.25	—	—	—	8-32 Tap	.63	100
TC-601-M	A	1.19	2.62	.50	.63	.63	1.33	1.05	1.29	.17	.25	—	—	—	M4 Tap	.63	100
TC-601-0	B	1.19	2.86	.50	.63	.63	1.33	1.05	1.53	.17	—	—	—	—	1/4-20 Thd	.63	100
TC-6001	C	1.26	2.63	.50	.63	.63	1.54	1.23	1.10	.19	.28	.43	.33	.19	8-32	.63	150
TC-6001-M	C	1.26	2.63	.50	.63	.63	1.54	1.23	1.10	.19	.28	.43	.33	.19	M4 Tap	.63	150
Stainless Steel																	
TC-601-SS*	A	1.19	2.63	.50	.63	.63	1.33	1.05	1.29	.17	.25	—	—	—	8-32 Tap	.63	100
TC-601-0SS*	B	1.19	2.86	.50	.63	.63	1.31	1.05	1.53	.17	—	—	—	—	1/4-20 Thd	.63	100
TC-6001-SS*	C	1.26	2.63	.50	.63	.63	1.54	1.23	1.10	.19	.28	.43	.28	.19	8-32 Tap	.63	150
TC-6001-MSS*	C	1.26	2.63	.50	.63	.63	1.54	1.23	1.10	.19	.28	.43	.33	.19	M4 Tap	.63	150

*Handle does not have vinyl grip

Note: TC-601, TC-601-SS and TC-6001-MSS are supplied with a spindle.

DESTACO Series TC-602, 604, 624

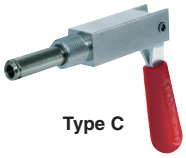
STAINLESS STEEL OPTION AVAILABLE



Type A



Type B



Type C

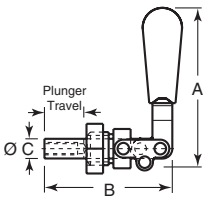


Type D



Type E

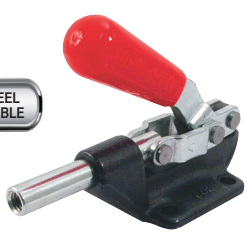
Fully retractable straight line action clamps mount directly through a member by a jam nut on the work side, or flush by drilling and tapping the member. Locks over-center in extended or retracted position. When flush mounted, plunger completely retracts from work area. An optional base mounting is available for TC-604 as TC-604106, and for TC-624 as TC-624108.

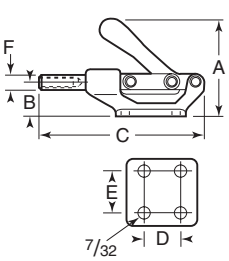


Item No.	Type	A	B	C	Thread	Internal Thread	Plunger Travel	Holding Cap. Lbs.
Steel								
TC-602	A	3.14	2.44	.37	5/8-18	1/4-20 x 5/8	.75	200
TC-602-MM	A	3.14	2.44	.37	M16 x 1.5	M6	.75	200
TC-604	B	4.16	4.78	.44	3/4-16	5/16-18 x 1	1.50	300
TC-604-MM	B	4.16	4.78	.44	M20 x 1.5	M8	1.50	300
TC-6004	C	4.12	5.63	.50	3/4-16	5/16-18	1.50	450
TC-624-MM	D	5.62	6.69	.62	M27 x 2	M10	2.63	700
TC-6004-MM	C	4.12	5.63	.50	M20 x 1.5	M8	1.50	450
TC-624	D	5.62	6.69	.62	1-14	3/8-16 x 1 1/4	2.63	700
TC-604106	E	Optional Mounting Plate for TC-604 and TC-6004 only						
Stainless Steel								
TC-602-SS	A	3.14	2.44	.38	5/8-18	1/4-20 x 5/8	.75	200
TC-604-SS	B	4.16	4.78	.44	3/4-16	5/16-18 x 1	1.50	400
TC-624-SS	C	5.62	6.69	.62	1-14	3/8-16 x 1 1/4	2.63	700

DESTACO Series TC-603

STAINLESS STEEL OPTION AVAILABLE





This straight-line action toggle clamp has a large holding capacity for its size. The TC-603 works well in confined areas because of its small size and low height. TC-603 plunger is tapped 5/16-18 x 1" deep for spindle. TC-603-M plunger has a M8x1.25 spindle thread.

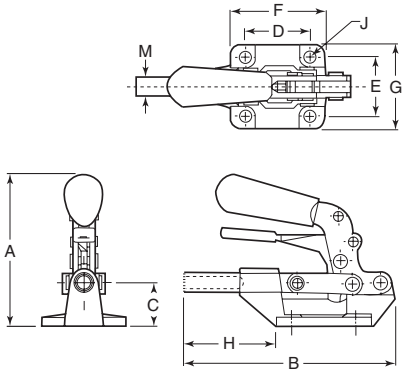
Item No.	A	B	C	D	E	F	Plunger Travel	Holding Cap. Lbs.
Steel								
TC-603	3.28	.97	4.71	1.44	1.31	.44	1 1/4	600
TC-603-M	3.28	.97	4.71	1.44	1.31	.44	1 1/4	600
Stainless Steel								
TC-603-SS	3.28	.97	4.71	1.44	1.31	.44	1 1/4	600

Note: Also available as Power Model TC-803.

STRAIGHT-LINE ACTION CLAMPS

DESTACO Series TC-603-R





For use in confined areas. The ergonomic handle is slanted forward to provide an adequate grip. Clamp locks over-center in both the extended and retracted positions while the locking lever secures the clamp in the extended position only. Plunger is tapped for $^{5}/_{16}$-18 adjustment spindle or detail.

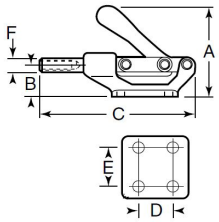
Item No.	A	B	C	D	E	F	G	H	J	M	Plunger Travel	Holding Cap. Lbs.
TC-603-R	3.42	4.69	.97	1.44	1.31	2.00	1.86	2.16	.27	.44	1.25	600

GOOD HAND™ Economy Push Pull Clamp

VALUE CHOICE



NEW PRODUCT

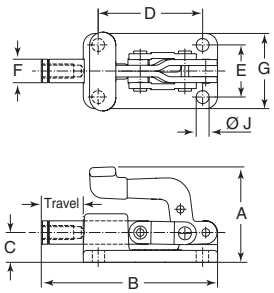


This clamp has a forged alloy steel base, and lower profile handle. Supplied with 5/16-18 spindle assembly.

Item No.	A	B	C	D	E	F	Plunger Travel	Holding Cap. Lbs.
GHC-GH36003	3.35	0.97	4.82	1.44	1.31	0.44	1.25	600

DESTACO Series 6015





STAINLESS STEEL OPTION AVAILABLE

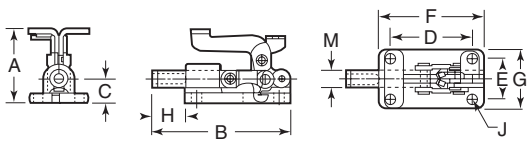
Compact size allows use in confined areas and have a high holding capacity. For push and pull clamping. Furnished with red vinyl grip. Base is heat treated for added strength.

Item No.	A	B	C	D	E	F	G	M	Plunger Travel	Holding Cap. Lbs.	Pack Qty.
Steel											
TC-6015	1.60	2.95	.50	1.75	.88	2.25	1.26	.39	.70	560	1
Stainless Steel											
TC-6015-SS	1.60	2.95	.50	1.75	.88	2.25	1.26	.39	.70	630	1
Steel											
TC-6015-M	1.60	2.95	.50	1.75	.88	2.25	1.26	.38	.70	560	1
Stainless Steel											
TC-6015-MSS	1.60	2.95	.50	1.75	.88	2.25	1.26	.38	.70	630	1

Note: TC-6015-SS and TC-6015-MSS are supplied with a spindle.

DESTACO Series TC-6015-R and TC-6015-MR - Compact Size





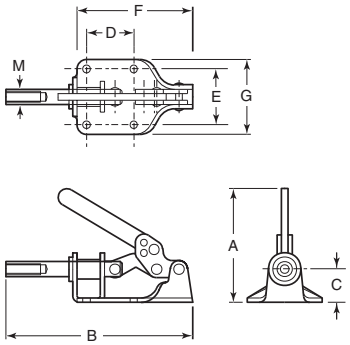
Compact size allows use in confined areas and on small fixtures, where safety is a concern. Features a locking lever which locks in the clamped position only.

Item No.	A	B	C	D	E	F	G	H	J	M	Plunger Thread	Plunger Travel	Holding Cap. Lbs.
						Steel							
TC-6015-R	1.60	2.95	.50	1.75	.88	2.25	1.25	.70	.22	.38	$^{1}/_{4}$-20	.70	560
TC-6015-MR	1.60	2.95	.50	1.75	.88	2.25	1.25	.70	.22	.38	M6	.70	560

STRAIGHT-LINE ACTION CLAMPS

DESTACO Series TC-605



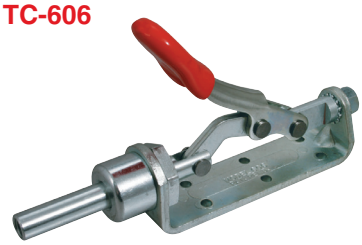


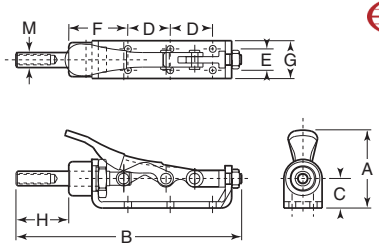
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For push and pull clamping. Furnished with red vinyl grip. Plunger on TC-605 is tapped $^{5}/_{16}$-18 x 1" deep for adjustment spindle. Base is heat treated for added strength. TC-605-M has M8 x 1.25 spindle thread.

Item No.	A	B	C	D	E	F	G	M	Plunger Travel	Holding Cap. Lbs.
TC-605	3.16	5.47	.97	1.38	1.63	3.41	2.19	.44	1.25	300
TC-605-M	3.16	5.47	.97	1.38	1.63	3.41	2.19	.44	1.25	300

DESTACO Series TC-606

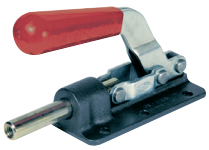


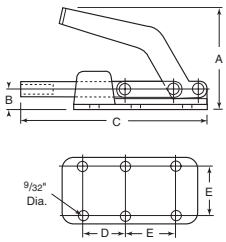


Features an unusual 180 degrees swiveling handle and linkage. Can be mounted in many positions with the handle remaining in an up-right or other convenient position. This feature along with a narrow base permits use where other clamps won't fit. Heat treated base. TC-606 has a $^{7}/_{16}$" diameter plunger tapped $^{5}/_{16}$-18 x 1" deep.

Item No.	A	B	C	D	E	F	G	M	Plunger Travel	Holding Cap. Lbs.
TC-606	2.62	6.72	.88	1.25	.63	1.75	1.13	.44	1 1/2	450

DESTACO Series TC-607

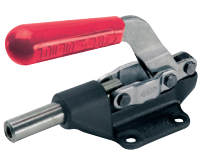


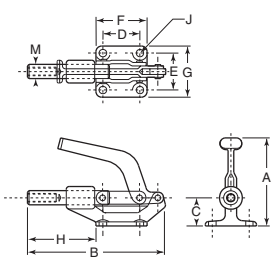


Compact, low silhouette clamp locks in either extended or retracted position. Available with $^{1}/_{2}$" round plunger or $^{1}/_{2}$" square plunger for multiple point locating. TC-607 and TC-607-SQ are drilled and tapped $^{5}/_{16}$-18 x 1" deep for spindle and TC-607-M.

Item No.	A	B	C	D	E	Plunger Type	Plunger Travel	Holding Cap. Lbs.
TC-607	3.59	.69	6.02	1.38	1.63	1/2 dia.	1 5/8	800
TC-607-M	3.59	.69	6.02	1.38	1.63	1/2 dia.	1 5/8	800
TC-607-SQ	3.59	.69	6.02	1.38	1.63	1/2 sq.	1 5/8	800

DESTACO Series TC-608



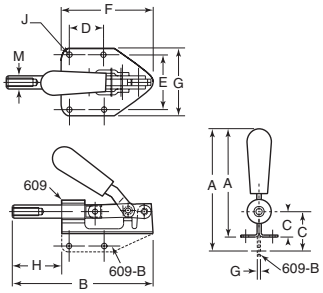


Low profile clamp with cast base. Plunger locks over-center in either retracted or extended positions. Plunger is tapped for $^{3}/_{8}$-16 adjustment spindle.

Item No.	A	B	C	D	E	F	G	H	J	M	Plunger Travel	Holding Cap. Lbs.
TC-608	4.04	6.13	1.25	1.63	1.63	2.31	2.25	3.00	.33	.62	1 5/8	850

DESTACO Series TC-609



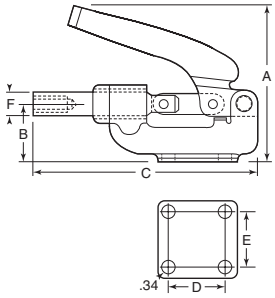


Locks over-center in either extended or retracted positions. The 1/2" diameter plunger is drilled and tapped 5/16-18 to accept customized fixture or neoprene tipped spindle. Plunger retracts completely to clear the work area. Available with a straight base,TC-609-B or a flanged base TC-609.

Item No.	A	B	C	D	E	F	G	H	J	M	Plunger Travel	Holding Cap. Lbs.
TC-609	3.25	5.48	.97	1.38	1.62	3.60	2.19	1.88	.27	.44	1 1/4	300
TC-609-B	4.28	5.48	1.56	1.38	—	3.60	.25	1.88	.27	.44	1 1/4	300

DESTACO Series TC-610



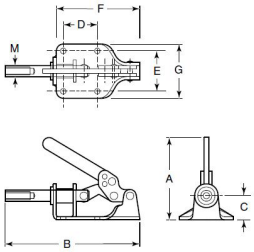


TC-610 features balanced construction for rigid holding and assured long life. Plunger tip is drilled and tapped 3/8-16 x 1" deep for spindle.

Item No.	A	B	C	D	E	F	Base Type	Plunger Travel	Holding Cap. Lbs.
TC-610	4.38	1.70	6.72	1.63	1.63	.63	Flanged	1.63	800

DESTACO Series TC-615

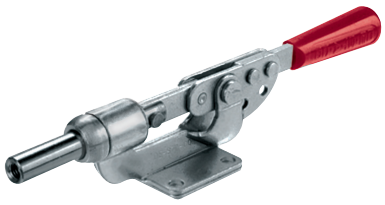


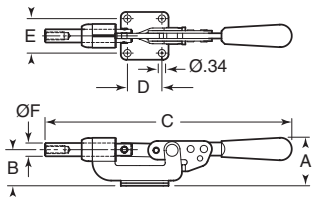


TC-615 features a reverse handle action. Plunger locks into extended position as the handle is moved downward. TC-615 plunngers are tapped 5/16-18 x 1" deep. Ideal applications: assembly and test, woodworking, tensioning devices.

Item No.	A	B	C	D	E	F	G	M	Plunger Travel	Holding Cap. Lbs.
TC-615	2.29	8.53	0.97	1.38	1.63	3.53	2.19	0.44	1	300

DESTACO Series TC-620





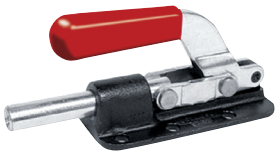
TC-620 features a reverse handle action. As handle moves back and down to horizontal lock position, plunger moves forward. Can be positioned for angular clamping by drilling base or may be used without base. TC-620 plungers are tapped 3/8-16 x 1" deep. TC-620-M plunger has M10 thread.

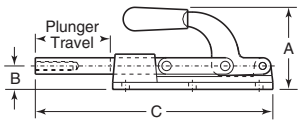
Item No.	A	B	C	D	E	F	Plunger Travel	Holding Cap. Lbs.
TC-620	2.25	1.67	11.70	1.63	1.63	.62	1 1/8	600
TC-620-M	2.25	1.67	11.70	1.63	1.63	.62	1 1/8	600

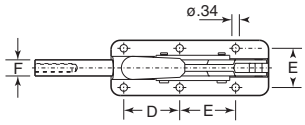
NOBODY WILL SERVE THE **CUSTOMER BETTER.**

STRAIGHT-LINE ACTION CLAMPS

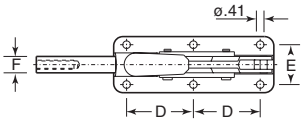
DESTACO Series TC-630, 640







TC-630, 630-M



TC-640

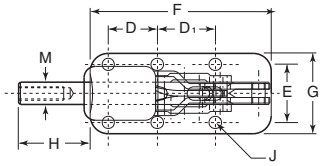
Forged alloy steel base designed for heavy duty service. Rugged handle features an ergonomic grip for easy operation. Low silhouette, maximum capacity for the size. Plunger locks over-center in extended or retracted position. TC-630 plunger is tapped $^{3}/_{8}$-16 x $1^{1}/_{4}$" deep for adjustment spindle. TC-640 plunger is tapped $^{1}/_{2}$-13 x 2" deep for adjustment spindle. TC-630-M has M10 thread.

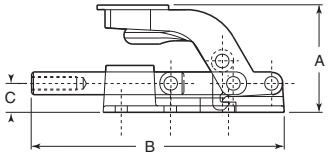
Item No.	A	B	C	D	E	F	Plunger Travel	Holding Cap. Lbs.
TC-630	3.09	.81	7.03	1.38	1.63	.63	2	2,500
TC-630-M	3.09	.81	7.03	1.38	1.63	.63	2	2,500
TC-640	4.38	1.25	12.66	3.56	2.12	.87	4	7,500

Note: Also available as Power Model TC-830

DESTACO Series TC-630-R





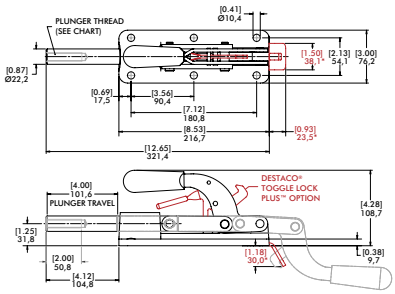


Locking lever locks into the rugged forged steel base. Large handle pad for greater comfort. Plunger is tapped $^{3}/_{8}$-16 x $1^{1}/_{4}$" deep to accommodate spindle assembly.

Item No.	A	B	C	D	D1	E	F	G	H	J	M	Plunger Travel	Holding Cap. Lbs.
TC-630-R	3.06	7.03	.81	1.38	1.63	1.63	5.03	2.30	2	.34	.62	2	2,500

Series TC-640-R Push Pull Clamp



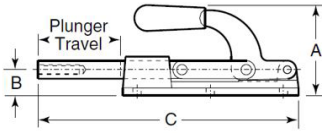


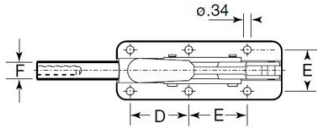
This clamp is designed for heavy duty service. Locks in both extended and retracted position. Features toggle lock plus.

GOOD HAND™ Economy Push Pull Clamp

VALUE CHOICE





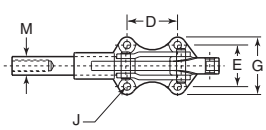


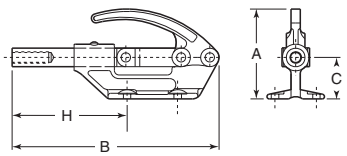
This heavy duty clamp has a forged alloy steel base. Supplied with 3/8-16 spindle assembly.

Item No.	A	B	C	D	E	F	Plunger Travel	Holding Cap. Lbs.
GHC-GH36330	2.95	0.81	7	1.37	1.63	0.62	2	2,500

DESTACO Series TC-650







Largest holding capacity of the straight line action clamps. TC-650 is precision built with forged alloy steel handle and base. Removable pivot pin construction allows easy removal of plunger even after unit is mounted. TC-650 plunger is tapped $^{5}/_{8}$-11 x 2" deep.

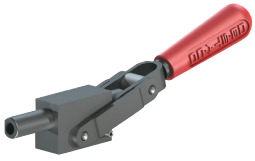
Item No.	A	B	C	D	E	G	H	J	M	Plunger Travel	Holding Cap. Lbs.
TC-650	4.88	11.25	2.25	2.75	2.25	3.13	6.25	.41	1	3	16,000

Note: Also available as Power Model TC-850.

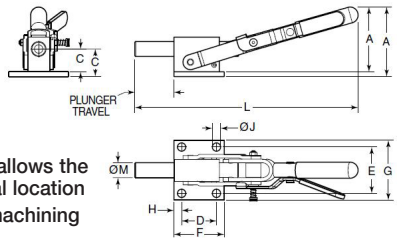
DESTACO Series TC-5130, 5131, 5133



Flanged Base



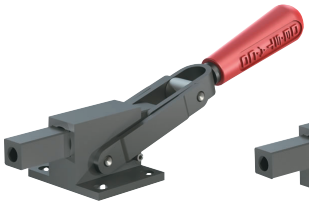
Straight Base



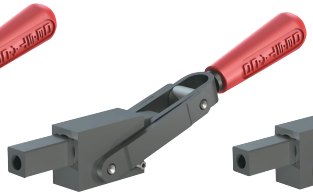
Hardened plungers, steel pivots and bushings for long life. Reverse action allows the handle to stay out of the work zone. Square plunger provides positive radial location
Black oxide finish. Applications: Welding fixtures, assembly fixtures, light machining

Item No.	A	L	C	D	E	F	G	H	J	M	Base Type	Plunger Travel	Holding Cap. Lbs.
TC-5130	3.63	11.14	1.38	1.75	2.31	2.52	2.99	.38	.41	0.75	Flanged	1.75	5,800
TC-5130-B	3.4	11.14	1.14	—	—	2.52	—	—	—	0.75	Straight	1.75	5,800
TC-5131	2.49	7.61	1.1	1.13	1.87	1.73	2.52	0.3	0.34	0.51	Flanged	1	2,500
TC-5131-B	2.25	7.61	0.87	—	—	1.73	—	—	—	0.51	Straight	1	2,500
TC-5133	3.84	13.05	1.38	1.75	2.31	2.52	2.99	0.38	0.41	0.75	Flanged	3.13	4,600
TC-5133-B	3.6	13.05	1.14	—	—	2.52	—	—	—	0.75	Flanged	3.13	4,600

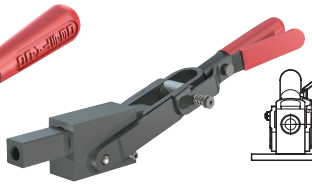
DESTACO Series TC-5150



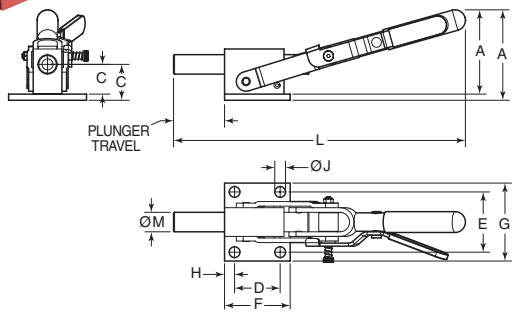
Flanged Base



Straight Base



Straight Base with Toggle Lock



- Square plunger provides positive radial location
- Reverse action allows the handle to stay out of the work zone
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish with hardened plungers

Item No.	A	L	C	D	E	F	G	H	J	M	Base Type	Plunger Travel	Holding Capacity Lbs.
TC-5150	3.84	11.68	1.37	1.75	2.31	2.52	2.99	.38	.41	.75	Flanged	1.00	5,800
TC-5150-B	3.60	11.68	1.14	—	—	—	—	—	—	.75	Straight	1.00	5,800
TC-5150-BR	3.6	11.68	1.14	—	—	—	—	—	—	.75	Straight	1.00	5,800
TC-5150-MB	3.60	11.68	1.14	—	—	—	—	—	—	.75	Straight	1.00	5,800

DESTACO TC-614M
Through Hole; Side Mount Manual Push Pull Clamp

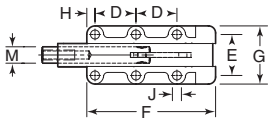
Ideal for all applications in which highly precise clamping is required with holding forces of up to 5000N (1200 lbf).

TC-614M - Manufacturing Part No. 614M

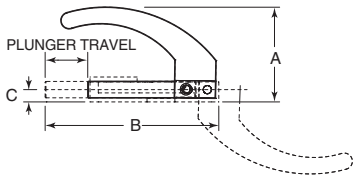


DESTACO Series TC-95030, 95040, 95050

Low profile to use where overhead clearance is a problem.
Plunger is tapped with metric thread.





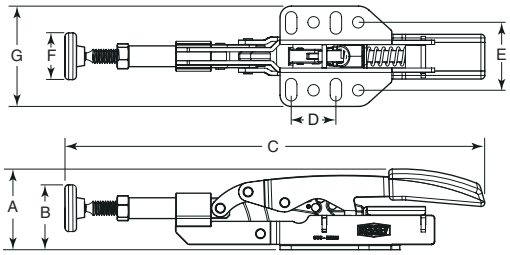


Item No.	A	B	C	D	E	F	G	H	J	M	Plunger Thread	Plunger Travel	Holding Cap. Lbs.
TC-95030	2.32	4.13	.31	.98	.98	3.07	1.38	.20	.22	.39	M6	.98	550
TC-95040	3.00	5.91	.39	1.38	1.38	4.33	1.97	.33	.26	.55	M8	1.50	1,100
TC-95050	3.50	7.52	.55	1.77	1.77	5.59	2.56	.39	.33	.75	M12	1.97	1,650

STRAIGHT-LINE ACTION CLAMPS

Bessey® Inline Toggle Clamp Auto-Adjust





Auto-Adjust - The Bessey auto-adjust toggle clamp automatically adjusts to variations in work piece dimensions while maintaining constant clamping force. No more time-consuming manual adjustment of the spindle height to maintain safe and correct clamping force. The removable non-marring plastic cap is included on the $^{7}/_{8}$" diameter pads.

Adjusting Clamping Force - The integrated clamping force adjustment screw can be used to create an actual applied clamping force from 25 to 550 lbs. (max holding capacity 700 lbs.) One Bessey auto -adjust toggle clamp can replace a range of competitive clamps.

Adaptable Base Plate - The large ($2^{1}/_{4}$" x $2^{1}/_{2}$") flange base is designed for use with $^{1}/_{4}$" or M6 fasteners. Mounting holes are sized and spaced for easy mounting and versatility.

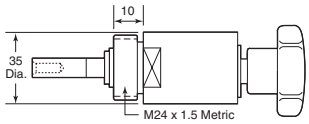
Extra Large Handle - The large 1" x $2^{1}/_{8}$" handle offers greater user comfort and ease of operation.

Item No.	A	B	C	D	E	F	G	Opening	Clamping Force Range	Holding Cap. Lbs.
STC-IHH25	1.80	1.45	9.39	1.00	1.52	1.00	2.24	1.00	25-550	700

Note: Clamping force range is variable and dependent on spindle settings, pressure screw setting, force applied, etc.

DESTACO Series TC-1000 Through Hole Mount - Hand Knob

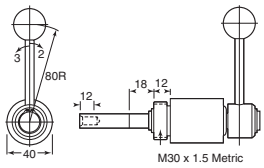




Item No.	De-Sta-Co	Plunger Dia. mm	Plunger Tapped Thread mm	Stroke Lgth. mm	Handle Type	Interchg. Plungers	Holding Cap. Lbs.
TC-1000	G-082/40	8	M5 x .80	40	Hand Knob	No	337

DESTACO Series TC-1010 Through Hole Mount - Lever



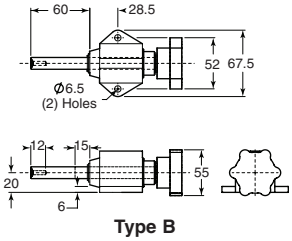


Item No.	De-Sta-Co	Plunger Dia. mm	Plunger Tapped Thread mm	Stroke Lgth. mm	Interchg. Plungers	Holding Cap. Lbs.
TC-1010	G-121/45	12	M6 x 1.00	45	No	674

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DESTACO Series TC-2030 Foot Mount - Hand Knob

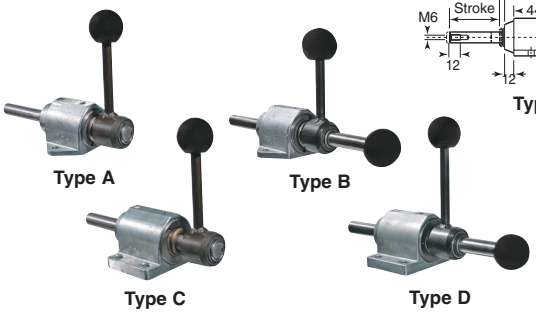


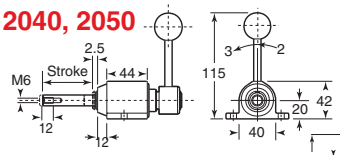


Type B

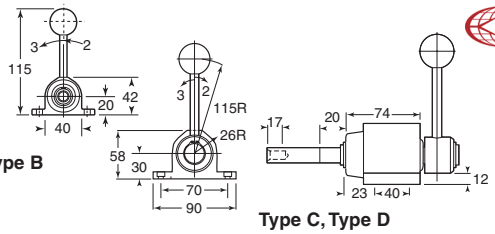
Item No.	De-Sta-Co	Type	Plunger Dia. mm	Plunger Tapped Thread mm	Stroke Lgth. mm	Holding Cap. Lbs.
TC-2030	FO-122/45	B	12	M6 x 1.00	45	674

DESTACO Series TC-2010, 2020, 2040, 2050
Foot Mount - Locking Lever





Type A, Type B

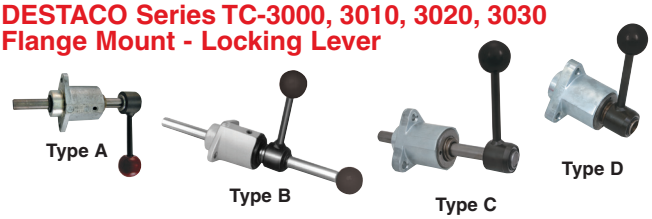


Type C, Type D

Item No.	De-Sta-Co	Type	Plunger Dia. mm	Plunger Tapped Thread mm	Stroke Lgth. mm	Interchg. Plungers	Holding Cap. Lbs.
TC-2010	FO-121/45	A	12	M6 x 1.00	45	No	674
TC-2020*	FO-120/--	B	12	M6 x 1.00	—	Yes	674
TC-2040	FO-161/60	C	16	M8 x 1.25	60	No	2,023
TC-2050*	FO-160/--	D	16	M8 x 1.25	—	Yes	2,023

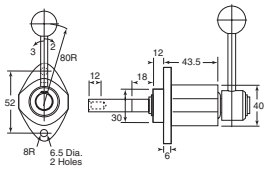
*Long stroke models. Attached lever. Interchangeable plungers sold separately.

DESTACO Series TC-3000, 3010, 3020, 3030
Flange Mount - Locking Lever

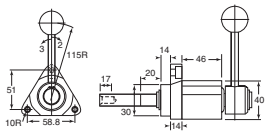


Item No.	De-Sta-Co	Type	Plunger Dia. mm	Plunger Tapped Thread mm	Stroke Lgth. mm	Interchg. Plungers	Holding Cap. Lbs.
TC-3000	FL-121/45	A	12	M6 x 1.00	45	No	674
TC-3010*	FL-120/--	B	12	M6 x 1.00	—	Yes	674
TC-3020	FL-161/60	C	16	M8 x 1.25	60	No	2,023
TC-3030*	FL-160/--	D	16	M8 x 1.25	—	Yes	2,023

*Long stroke models. Attached levers. Interchangeable plungers sold separately.



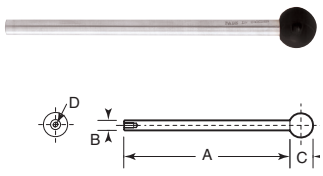
Type A, Type B



Type C, Type D

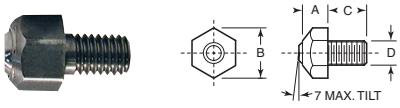
DESTACO Series TC-4000
Plungers for Long Stroke Models

Item No.	De-Sta-Co	A mm	B mm	C mm	D mm	Stroke mm
TC-4000	12/100	198	12	29	M6 x 1.00	100
TC-4010	12/200	298	12	29	M6 x 1.00	200
TC-4020	12/300	400	12	29	M6 x 1.00	300
TC-4030	16/100	215	16	35	M8 x 1.25	100
TC-4040	16/200	315	16	35	M8 x 1.25	200
TC-4050	16/300	416	16	35	M8 x 1.25	300



DESTACO Series TC-5000
Swivel Face Thrust Pads for Plunger Tips

Item No.	De-Sta-Co	A mm	B mm	C mm	Thread D mm
TC-5010	K612	8.5	12.5	10	M6 x 1.00
TC-5020	K816	10	14.8	14	M8 x 1.25



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SQUEEZE ACTION PLIER CLAMPS

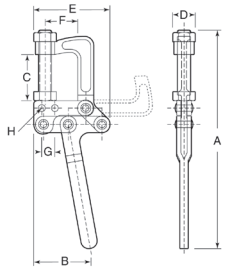
DESTACO Series TC-325

Designed for attachment by welding front of top of base to container or cover. Forged alloy steel jaw moves 90 degrees to clear completely. Red vinyl grip provides easy operation and good-looking appearance. TC-325 is furnished with M12 hex head spindle (TC-325203-M) and jam nut. TC-325-SS furnished with stainless steel M12 hex head spindle (TC-325943-M) and jam nut.

Item No.	A	B	C	D	E	F	G	H	Jaw Moves (degrees)	Handle Moves (degrees)	Holding Cap. Lbs.
Steel											
TC-325	8.68	2.62	1.78	.75	2.94	1.25	.50	.27	90	50	800
Stainless Steel											
TC-325-SS	8.68	2.62	1.78	.75	2.94	1.25	.50	.27	90	50	800

STAINLESS STEEL OPTION AVAILABLE





GOOD HAND™ Economy Plier Clamp

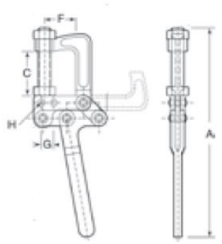
VALUE CHOICE

The bottom jaw is designed to be welded to container or cover. Supplied with 1/2-13 hex spindle assembly.

Item No.	A	C	F	G	H	Jaw Moves (degrees)	Holding Cap. Lbs.
GHC-GH80325	8.27	1.78	0.59	0.5	0.26	90	750

NEW PRODUCT



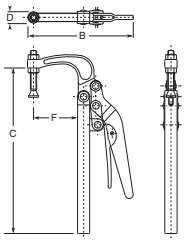


DESTACO Series TC-345

Designed for bolting or welding to a fixture at any point along base, or base can be cut off for end welding. This model has a forged steel jaw with M10 swivel foot spindle assembly (TC-468206-M).

Item No.	B	C	D	F	Spindle Thread	Jaw Moves (degrees)	Handle Moves (degrees)	Holding Cap. Lbs.
TC-345	6.56	10.12	.69	2.69	M10	86	60	800



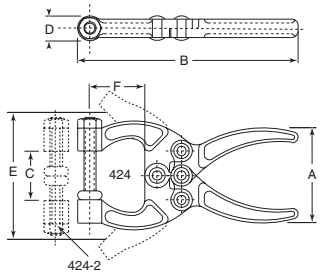


DESTACO Squeeze Action Plier Clamps Series TC-424

Smallest of the forged alloy steel squeeze action clamps. TC-424 has a single M6 neoprene tipped adjustment spindle (TC-424208-M). TC-424-2 has two neoprene tipped adjustment spindles (TC-431208-M). Maximum jaw opening is $2^{1}/_{16}$".

Item No.	A	B	C	D	E	F	Holding Cap. Lbs.
TC-424	1.94	4.75	1	.50	2.06	1.08	200
TC-424-2	1.94	4.75	1	.50	2.06	1.08	200

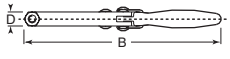


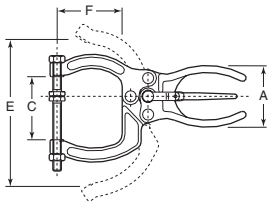


DESTACO TC-435

These high strength squeeze action clamps are ideal for rugged clamping applications. Made from SAE 1045 steel for strength. Two way trigger release allows for fast unclamping. Supplied with spindle.

Item No.	Type	A	B	C	D	E	F	Spindle Supplied	Holding Cap. Lbs.
TC-435	B	1.63	5.55	1.77	.39	3.23	1.83	(2) M6 x 1.0	500



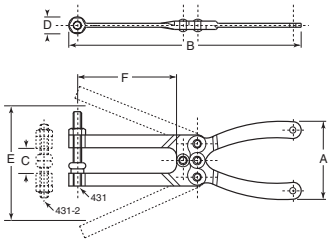


Type B



DESTACO Series TC-431



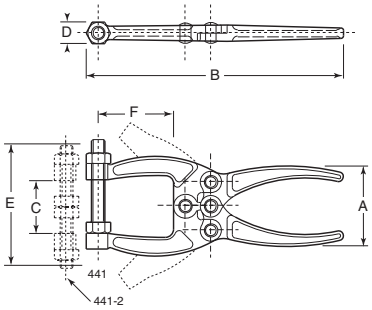


Tempered spring-steel jaws have exceptional $2^{15}/_{16}$" jaw depth. TC-431 has single neoprene tipped adjustment spindle (TC-424208-M). Maximum opening is $3^{1}/_{16}$".

Item No.	A	B	C	D	E	F	Holding Cap. Lbs.
TC-431	2.41	6.88	.75	.50	3.06	2.92	100

DESTACO Series TC-441





TC-441 has a M8 adjustment spindle (TC-441203-M). TC-441-2 has two adjustment spindles (TC-461203-M). Maximum jaw opening is $2^{55}/_{64}$".

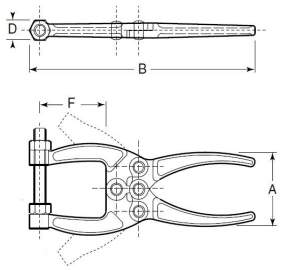
Item No.	A	B	C	D	E	F	Holding Cap. Lbs.
TC-441	1.97	6.06	1.25	.50	2.86	1.77	350
TC-441-2	1.97	6.06	1.25	.50	2.86	1.77	350

GOOD HAND™ Economy Plier Clamp

VALUE CHOICE

NEW PRODUCT



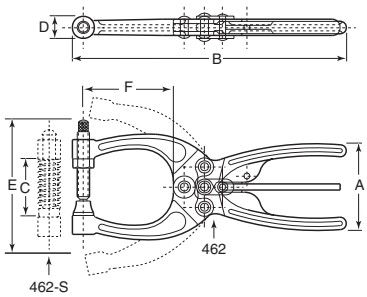


Supplied with spindle assembly.

Item No.	A	B	D	F	Spindle Thread
GHC-GH50360	2.37	6.5	0.5	1.75	$5\ ^{16}/_{18}$ x 2

DESTACO Squeeze Action Plier Clamp Series TC-462





Furnished with M10 swivel-foot adjustment spindle (TC-468206-M) and two-way trigger release. Forged alloy steel components, clevis type construction with stainless steel rivets.

Item No.	A	B	C	D	E	F	Holding Cap. Lbs.
TC-462	2.69	8.47	1.75	.69	4.10	2.78	700

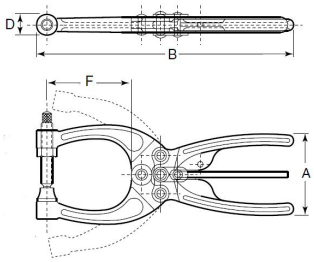
SQUEEZE ACTION PLIER CLAMPS

GOOD HAND™ Economy Plier Clamp

VALUE CHOICE



NEW PRODUCT



Supplied with spindle assembly.

Item No.	A	B	D	F	Spindle Thread
GHC-GH50380	2.69	8.5	0.69	2.75	3/8 16 x 3

DESTACO Squeeze Action Plier Clamps Series TC-463, 482, 484, 486



Type A



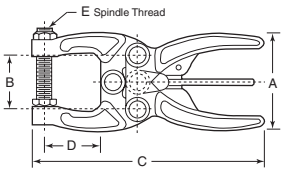
Type B



Type C



Type D



Most models have trigger release for easy one hand operation. Ideal for clamping and fixturing, holding and processing, etc.

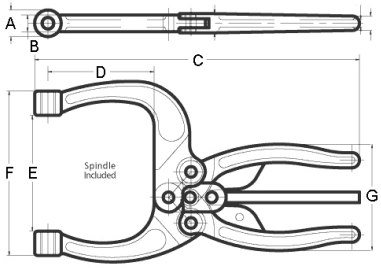
Item No.	Type	No. of Spindles	Spindle(s) Furnished	Trigger Release	A	B	C	D	E Spindle Thread	Holding Cap. Lbs.
TC-463	A	2	TC-468206-M & TC-210203-M	Yes	2.69	8.50	3.00	2.72	M10	700
TC-482	B	1	TC-468206-M	Yes	2.80	9.19	1.70	2.56	M10	1,200
TC-484	C	2	TC-468206-M & TC-210203-M	Yes	2.69	9.06	3.83	2.56	M10	1,200
TC-486	D	2	TC-240203-M	Yes	2.88	9.22	6.00	2.56	M10	1,000

GOOD HAND™ Economy Plier Clamp

VALUE CHOICE



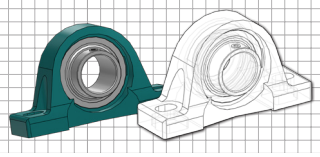
NEW PRODUCT

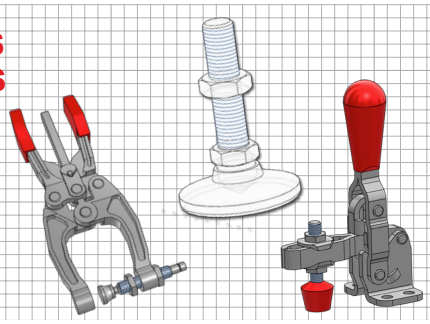


Swivel foot and hex head spindle assemblies supplied.

Item No.	No. of Spindles	Spindle Thread	A	B	D	F	G
GHC-GH50450	2	3/8 16 x 3	0.69	0.43	2.75	4.25	2.69

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Bessey® Clippix Plastic Spring Clamps



Features:

- Made from durable, lightweight polyamide
- Ergonomic 2-component handle designed for comfort and a firm grip

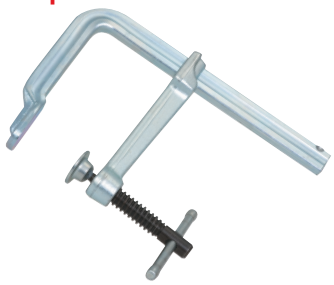
Item No.	Throat Depth	Clamping Capacity
BLC-300	3/4	3/4
BLC-301	1 1/8	1
BLC-302	1 1/2	1 3/4
BLC-303	1 15/16	2
BLC-304	1 1/2	2
BLC-305	2 3/4	3

C-Clamp Deep Throat Pattern



Item No.	Capacity Max.	Capacity Min.	Throat Depth from Center of Screw
ABT-78-404	4	0	3 1/4
ABT-78-406	6	0	4 1/8
ABT-78-408	8	0	5
ABT-78-410	10	3	6

Bessey® F-Style All Steel Bar Clamps



Easy to use. Slide moveable arm into position and tighten screw spindle. Provides instant clamping at any opening. Saves time over ordinary C-clamps. Deep throat allows for greater reach.

Item No.	Jaw Opening	Throat Depth	Spindle Dia.	Clamp Pressure
Regular Duty				
BLC-15	0-4	4 3/4	.563	1,330
Heavy Duty				
BLC-25	0-8	5 1/2	.775	2,600
BLC-50	0-12	5 1/2	.775	2,600
BLC-60	0-20	5 1/2	.775	2,600
Extra Heavy Duty				
BLC-70	0-12	7	.850	4,880
BLC-80	0-18	7	.850	4,880
BLC-90	0-36	7	.850	4,880

Bessey® Bar Clamps DuoKlamps One-Handed Clamping and Spreading



Features:

- Change from clamping to spreading by simply twisting the dial - no disassembly
- Handle with pump lever parallel to the rail
- Convenient one-handed operation
- All around clamping - in front of, behind and at the side of the rail

Item No.	Throat Depth	Clamping Capacity	Clamping Force
BLC-100	2 1/2	6	180
BLC-101	2 1/2	12	180
BLC-102	3 1/4	6	260
BLC-103	3 1/4	12	260
BLC-104	3 1/4	18	260
BLC-105	3 1/4	24	260

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CLAMP ACCESSORIES

DESTACO Flat Head Spindle Assemblies with Neoprene Cap and Jam Nuts



Flat Tip

Available in Black or Red Cap



Low Cushion

Item No.	Thread	Thread Lgth.	OAL
Flat Tip - Inch			
TC-201208	10-32	1.00	1.38
TC-431208	1/4-20	.63	1.00
TC-424208	1/4-20	1.13	1.50
TC-202208	1/4-20	1.25	1.63
TC-215208	1/4-20	1.66	2.19
TC-225208	5/16-18	1.50	2.25
TC-507208	5/16-18	2.31	3.06
TC-240208	3/8-16	2.31	3.31
TC-527208	3/8-16	2.50	3.50
TC-235208	3/8-16	4.88	5.88
TC-247208	1/2-13	2.69	4.00
TC-267208	5/8-11	3.63	5.00
Flat Tip - Metric			
TC-213208-M-L	M5	1.18 in	1.34 in
TC-431208-M	M6	.63	1.00
TC-424208-M	M6	1.13	1.50
TC-202208-M	M6	1.25	1.73
TC-215208-M	M6	1.66	2.19
TC-225208-M	M8	1.50	2.25
TC-507208-M	M8	2.31	3.06
TC-2007208-M	M8	1.77 in	2.48 in
TC-240208-M	M10	2.31	3.31
TC-235208-M	M10	4.88	5.88
TC-247208-M	M12	2.68	3.82
Flat Tip Low Cushion w/ Jam Nuts - Metric			
TC-205208-M	M4	.76	.87
TC-201208-M	M4	1.06	1.26
TC-213208-M	M5	1.14	1.34
TC-305208-M	M5	.94	1.14
TC-307208-M	M8	1.34	1.69

DESTACO Cone Head Spindle Assemblies with Neoprene Cap and Jam Nuts



Item No.	Thread	Thread Lgth.	OAL
TC-305208	10-32	1.00	1.44
TC-213208	1/4-20	1.50	2.13
TC-509208	5/16-18	2.25	2.94
TC-519208	5/16-18	4.75	5.38
TC-210208	3/8-16	2.50	3.44

STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

DESTACO Hex Head Spindle Assemblies with Jam Nuts

STAINLESS STEEL OPTION AVAILABLE



Nylon Bolt



Stainless Steel Bolt

Item No.	Thread	Thread Lgth.	OAL
Steel - Inch			
TC-105203	8-32 Nylon Bolt	.75	.84
TC-305203	10-32	1.00	1.09
TC-205203	1/4-20	1.69	1.88
TC-202203	1/4-20	3.00	3.13
TC-461203	5/16-18	.81	1.00
TC-441203	5/16-18	1.75	1.94
TC-207203	5/16-18	2.50	2.75
TC-491203	3/8-16	1.25	1.50
TC-210203	3/8-16	2.75	3.00
TC-240203	3/8-16	4.00	4.25
TC-527203	3/8-16	5.00	5.25
TC-325203	1/2-13	2.50	2.75
TC-220203	1/2-13	3.00	3.31
TC-250203	5/8-11	4.00	4.38
Steel - Metric			
TC-205203-M	M6	1.77	1.93
TC-461203-M	M8	.81	1.00
TC-207203-M	M8	2.76	2.97
TC-491203-M	M10	1.25	1.50
TC-210203-M	M10	2.76	3.03
TC-240203-M	M10	4.00	4.25
TC-267203-M	M16	4.72	5.12
Stainless Steel - Inch			
TC-205943	8-32	.75	.86
TC-201943	10-32	1.03	1.13
TC-202943	1/4-20	1.38	1.50
TC-207943	5/16-18	2.31	2.50
TC-237943	3/8-16	2.25	2.50
Stainless Steel - Metric			
TC-207943-M	M8	2.56	2.77

DESTACO Swivel Foot Spindle Assemblies with Jam Nuts



Fully Threaded



Knurled End

Item No.	Thread	Thread Lgth.	OAL
Inch			
TC-207206	1/4-20	1.50	2.38
TC-507206	5/16-18	1.94	2.75
TC-468206*	3/8-16	2.00	3.00
TC-210206	3/8-16	2.44	3.38
TC-250206	1/2-13	3.50	4.63
Metric			
TC-468206-M	M10	2.00	3.00

*Threaded to the foot with knurled end

DESTACO Clamp Accessories Neoprene Swivel Foot Assemblies



Item No.	Thread	Thread Lgth.	OAL	Pad Dia.
TC-207209	1/4-20	1.50	2.63	1.00
TC-507209	5/16-18	1.94	3.00	1.50
TC-210209	3/8-16	2.44	3.63	2.00

DESTACO Clamp Accessories Plunger-Matic Assemblies



Automatically compensates for variations in part thicknesses. To be mounted to plunger clamps.

Item No.	Thread	Thread Lgth.	OAL	Lbs. Pressure	Max. Spring Compression
TC-905	5/16-18	.75	2.50	135	3/16
TC-920	3/8-16	1.13	3.63	308	3/8

Note: Pressure value is per 1/8 deflection.

Plunger-Matic Spindle Assembly For Straight-Line Clamps M8 Thread



Accessory for straight line action clamps. Internal compression spring compensates for variations in material thickness. Zinc plated. Includes jam nut. Manufacturer Part Number: 905-M

Item No.	Thread Size	Thread Length	Overall Length	Material
TC-905M	M8x1.25	.75"	2.50"	Steel

DESTACO Round Head Neoprene Spindle Caps



Slip on the heads of the hex head spindles.

Item No.	OD	Height	ID	For Spindle Dia.
TC-215119	.63	.44	.25	1/4
TC-225119	.75	.50	.31	5/16
TC-235119	.78	.53	.38	3/8

DESTACO Clamp Accessories Neoprene Caps



Designed to fit over the threaded end of a spindle.

Item No.	For Spindle Dia.
TC-235110	11/32
TC-424107	7/32

DESTACO Clamp Accessories Polyurethane Caps



Flat Tip



Cone Tip

Internally threaded to screw on to spindle. High oil and abrasion resistance. Good memory.

Item No.	For Spindle Dia.
Flat Tip	
TC-215219	1/4
TC-225219	5/16
TC-235219	3/8
Cone Tip	
TC-215319	1/4
TC-225319	5/16
TC-235319	3/8

DESTACO Clamp Accessories Bolt Retainers for Clamps with Solid Hold Down Bars



Item No.	Description
TC-207105	1.25 Bolt Retainer for 5/16 Spindle
TC-210114	1.50 Bolt Retainer for 3/8 Spindle
TC-247110	1.63 Bolt Retainer for 1/2 Spindle

DESTACO Clamp Accessories Flanged Washers for U-Bar Clamps

STAINLESS STEEL OPTION AVAILABLE



Item No.	For Spindle Dia.	Item No.	For Spindle Dia.
Steel		**Stainless Steel**	
TC-102111	#10 Spindle	TC-102911	#10 Spindle
TC-105106	#8 Spindle	TC-105906	#8 Spindle
TC-215105	1/4 Spindle	TC-215905	1/4 Spindle
TC-507107	5/16 Spindle	TC-507907	5/16 Spindle
TC-235106	3/8 Spindle	TC-235906	3/8 Spindle
TC-247109	1/2 Spindle		
TC-267102	5/8 Spindle		

SAVE BIG STOCK UP!

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UP TO 75% OFF OR MORE

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CLAMP ACCESSORIES

DESTACO Clamp Accessories
Hook Assemblies with Locknuts



U-Hook



J-Hook

STAINLESS STEEL OPTION AVAILABLE

EXPANDED LINE

Item No.	Style	For Use w/ Clamp	Item No.	Style	For Use w/ Clamp
Steel			**Stainless Steel**		
TC-323215	U-Hook	TC-323	TC-323915	U-Hook	TC-323-SS
TC-324215	U-Hook	TC-324	TC-331915	U-Hook	TC-331-SS
TC-331215	U-Hook	TC-331	TC-341915	U-Hook	TC-341-SS
TC-334215	U-Hook	TC-334	TC-344915	U-Hook	TC-344-SS
TC-341215	U-Hook	TC-341	TC-324915	U-Hook	TC-324-SS
TC-344215	U-Hook	TC-344	TC-334915	U-Hook	TC-334-SS
TC-375215	U-Hook	TC-375, 375-R	TC-351915	J-Hook	TC-351-SS
TC-385215	U-Hook	TC-385	TC-371915	J-Hook	TC-371-SS
TC-351215	J-Hook	TC-351	TC-385915	U-Hook	TC-385SS, TC-385RSS
TC-330215*	J-Hook	TC-330	TC-385915M100	U-Hook	TC-385SS, TC-385RSS
TC-371215	J-Hook	TC-371	TC-385915M50	U-Hook	TC-385SS, TC-385RSS
TC-3031208	J-Hook	TC-3031, TC-3031R	TC-385915M25	U-Hook	TC-385SS, TC-385RSS
			TC-3031808	J-Hook	TC-3031SS, TC-3031RSS
			TC-3051808	J-Hook	TC-3051SS, TC-3051RSS
			TC-351915M100	J-Hook	TC-351RSSM100
			TC-351915M50	J-Hook	TC-351RSSM50
			TC-351915M25	J-Hook	TC-351RSSM25
			TC-371915M100	J-Hook	TC-371RSSM100
			TC-371915M50	J-Hook	TC-371RSSM50
			TC-371915M25	J-Hook	TC-371RSSM25

*Supplied with two jam nuts

DESTACO Clamp Accessories
Latching & Mounting Plates

STAINLESS STEEL OPTION AVAILABLE

EXPANDED LINE



Bolt-on Type A



Bolt-on Type B



Weld-on Type C



Flanged Plate Type D



Type E

Item No.	Type	For Use w/ Clamp	Item No.	Type	For Use w/ Clamp
Steel			**Stainless Steel**		
TC-323104-M	A	TC-323	TC-323104-MSS	A	TC-323-SS
TC-324101	B	TC-324	TC-331905	A	TC-331-SS
TC-331005	A	TC-331, 331-R	TC-341905	A	TC-341-SS
TC-334101	B	TC-334	TC-324901	B	TC-324-SS
TC-341005	A	TC-341,341-R	TC-334901	B	TC-334-SS
TC-344101	B	TC-344	TC-344901	B	TC-344RSS
TC-375509	C	Series TC-375 & TC-385	TC-385902	D	TC-385RSS
TC-385102	D	TC-375, 385			
TC-604106	E	TC-604, 6004			

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

Color Code Your Work Area
With Destaco Colored Handle Grips!

DESTACO has a collection of colored manual clamp handles.
Now available with **5 handle colors**.

The range of colors can be used for:

- Implementing safety aspects using standardized color codes.
- Company branding
- Color code for different operations
- Designate specific handles for specialized uses
- Create standardized color codes for different operations



*The colored handles can be ordered on all models within the series listed, except for dipped handle.

Manual Clamp Series	Standard Red Handle Popular Model Number Used	Green	Blue	Yellow	Black
202	202-U	202-U-G	202-U-B	202-U-Y	202-U-K
207	207-U	207-U-G	207-U-B	207-U-Y	207-U-K
602	602-MM	602-MM-G	602-MM-B	602-MM-Y	602-MM-K
604	604-MM	604-MM-G	604-MM-B	604-MM-Y	604-MM-K
624	624-MM	624-MM-G	624-MM-B	624-MM-Y	624-MM-K
213	213-USS	213-USS-G	213-USS-B	213-USS-Y	213-USS-K
227	227-U	227-U-G	227-U-B	227-U-Y	227-U-K
237	237-U	237-U-G	237-U-B	237-U-Y	237-U-K
2002	2002-U	2002-U-G	2002-U-B	2002-U-Y	2002-U-K
2007	2007-U	2007-U-G	2007-U-B	2007-U-Y	2007-U-K
2010	2010-U	2010-U-G	2010-U-B	2010-U-Y	2010-U-K
2013	2013-U	2013-U-G	2013-U-B	2013-U-Y	2013-U-K
2017	2017-U	2017-U-G	2017-U-B	2017-U-Y	2017-U-K
2027	2027-U	2027-U-G	2027-U-B	2027-U-Y	2027-U-K

PNEUMATIC HOLD-DOWN CLAMPS

DESTACO Pneumatic cylinders provides the activating force for these over-center toggle clamps. Built to perform repetitive production operations. Portable and economical for use on short run jobs with temporary fixturing. By adding a sensing switch, the position of the cylinder can be sensed. All these models come with magnetic ring for sensing capability.

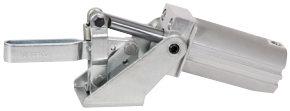
Series TC-802-U



Type B

TC-802 provides 200 lbs. holding capacity in a package less than 7" long. Threaded spindle is adjustable to accommodate work piece height and is neoprene tipped for part protection. Double acting power cylinder has built-in speed control (restriction) and needs only to be hooked up to a controlled air or hydraulic power source. Hold down bar opens 95 degrees to facilitate easy part loading/unloading.

Series TC-807



Type C

Two versions available. TC-807-S with solid steel hold-down bar and TC-807-U (illustrated) with U-bar. TC-807-S is furnished with a separate bolt retainer which can be welded onto the hold-down bar (bar can be cut or modified). TC-807-U is furnished with flanged washers. A wide range of spindles are available to suit your application. Bar opens 92 degrees.

Series TC-810



Type E

Similar to Series 807 but larger and higher capacity. TC-810-S with solid bar and TC-810-U with U-bar. Bar opens 90 degrees. Accommodates any $^{3}/_{8}$-16 spindle assembly (not included).

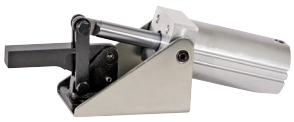
Series TC-812



Type A

Smallest of hold-down models, this miniature clamp is the power version of TC-201. The 10-32 spindle is adjustable for height and location along the bar. Cylinder has built in speed controls for smooth operation. Clamp and base are stainless steel. Bar opens 90 degrees. TC-812 uses the TC-810156 reed switch.

Series TC-846, 847



Type F



Type G

TC-846 is the pneumatic version of the TC-516. TC-847-S (solid bar) and TC-847-U have patented bar guide feature. This provides additional side support to the hold-down bar and allows a take-up adjustment to compensate for misalignment or wear. Other features are similar to preceding models. The hold-down bar opens 95 degrees. Accommodates any $^{1}/_{2}$-13 spindle assembly (not included).

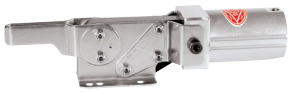
Series TC-858



Type H

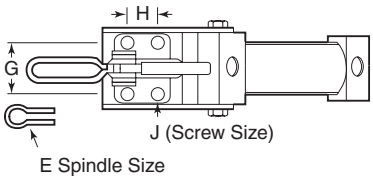
Heavy-duty model uses forged alloy steel links and steel components machined to close tolerances. Base is a $^{1}/_{2}$" thick steel plate. All pivot points have hardened bushings fitted with hardened steel pivot pins. The 1" x $1^{3}/_{8}$" steel hold-down bar may be cut, drilled, tapped or welded to adapt to application. Bar opens 92 degrees.

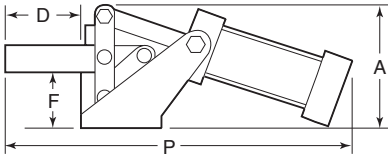
Series TC-8021, 8071



Type D

Ideal for dirty environments such as spot and MIG welding. Similar to TC-802 and TC-807-U except the internal mechanism is totally enclosed. Stationary cylinder allows hard piping. Low and narrow mounting profile. U-bar opens 90 degrees. Comes with magnetic ring for sensing switches as a standard feature.



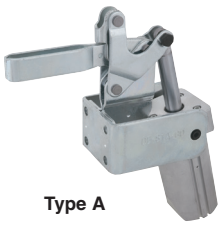


Item No.	Type	A	D	E Spindle Size	F	G	H	J	P	Port Size	Cyl. Bore	Max. Inlet Press. at Max. MA psig	Exert. Force 80 psig Lbs.	Max. Holding Cap. Lbs.
TC-812	A	1.50	1.02	10-32	.69	.94	.69	.17	5.60	10-32 NF	.75	80	98 - 135	150
TC-802-U	B	2.34	1.72	M6	1.06	1.06	.50	.22	7.39	$^{1}/_{8}$ NPT	1.13	40	160 - 200	200
TC-807-S	C	3.00	3.13	$^{5}/_{16}$	1.38	1.25	.75	.28	9.96	$^{1}/_{8}$ NPT	1.13	80	150 - 500	500
TC-807-U	C	3.00	2.50	$^{5}/_{16}$	1.38	1.25	.75	.28	9.21	$^{1}/_{8}$ NPT	1.13	55	150 - 350	350
TC-8021	D	2.19	2.25	.38	1.56	1.50	.79	.21	9.31	$^{1}/_{8}$ NPT	1.12	105	100 - 175	390
TC-8071	D	2.59	2.50	.31	1.66	1.58	1.97	.28	10.93	$^{1}/_{8}$ NPT	1.50	105	250 - 450	450
TC-810-S	E	3.79	3.48	.38	1.80	1.78	1.25	.33	12.13	$^{1}/_{8}$ NPT	1.50	80	400 - 700	750
TC-810-U	E	3.79	3.58	—	1.80	1.78	1.25	.33	12.28	$^{1}/_{8}$ NPT	1.50	70	400 - 600	600
TC-846	F	3.63	2.13	—	1.63	1.50	1.00	.28	10.50	$^{1}/_{8}$ NPT	1.50	125	500 - 750	750
TC-847-S	G	4.34	4.88	.50	2.25	1.78	1.25	.34	16.00	$^{1}/_{8}$ NPT	2.00	80	450 - 1,000	1,000
TC-847-U	G	4.34	4.88	—	2.25	1.78	1.25	.34	16.00	$^{1}/_{8}$ NPT	2.00	60	450 - 750	800
TC-858	H	7.12	4.88	—	3.84	2.75	4.25	.41	18.09	$^{1}/_{8}$ NPT	2.50	200	900 - 1,600	4,000

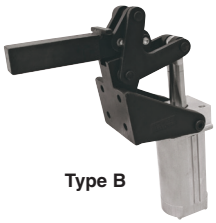
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DESTACO Pneumatic cylinders provide the activating force for these over-center toggle clamps. Built to perform repetitive production operations. Portable and economical for use on short run jobs with temporary fixturing. By adding a sensing switch, the position of the cylinder can be sensed. All these models come with magnetic ring for sensing capability.

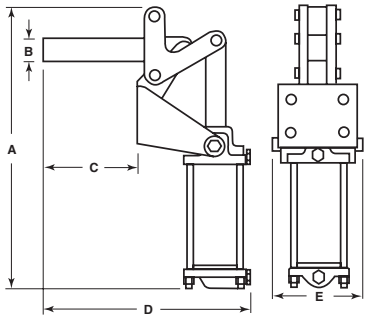
Pneumatic Hold-Down Clamps
Series TC-817, 827, 868 - Right Angle



Type A



Type B

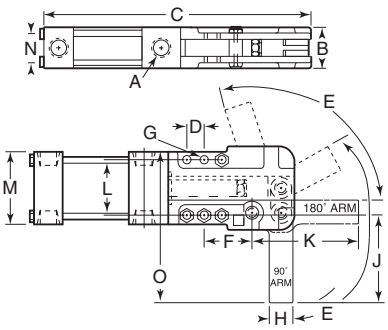


Used where space dictates such as rotary indexing tables and injection molding operations. Can also be used with the cylinder horizontal in which case the hold-down bar pulls back toward itself. All models can be mounted on the side of the fixture. TC-817-U and TC-817-S can also be top mounted.

Item No.	Type	A	B	C	D	E	Port Size	Cyl. Bore	Max. Inlet Press. at Max. A psig	Exerting Force 80 psi Lbs.	Max. Holding Cap. Lbs.
TC-817-U	A	7.42	.63	2.44	6.18	2.41	1/8 NPT	1.125	80	200/320	350
TC-817-S	A	7.42	.63	3.06	6.75	2.41	1/8 NPT	1.125	100	200/400	450
TC-827-U	A	9.66	.75	3.26	8.75	2.94	1/8 NPT	1.500	95	300/500	600
TC-827-S	A	9.66	.75	3.19	8.64	2.94	1/8 NPT	1.500	110	300/500	700
TC-868	B	14.32	1.25	4.69	10.11	4.00	1/8 NPT	2.500	200	900/1,600	4,000

Series TC-840, 841





Designed for high production applications, these pneumatic clamps offer exceptional clamping forces and holding capabilities. Does not require greater pressure to open than to close. The TC-840 and TC-841 have oval cylinders which allows them to be used in close quarters or they can be ganged together in multiple installations. The even numbered models feature a 180 degrees clamping arm which travels to an over-center locked position parallel (180 degrees) to the clamps center line. The corresponding odd numbered models have a 90 degrees arm. The angular locked position of both versions is precisely controlled by the hardened steel insert. The magnetic ring cylinders are used when there is a need to sense the open or closed position of the cylinder. Then by adding a tie rod mounted reed switch, the position of the cylinder can be sensed.

Item No.	A	B	C	D	E (degrees)	F	G	H	J	K	L	M	N	O	Bore	Range of Arm (degrees)	Hold Cap. @ 3" from Pivot to Load Point	Max. Exert. Force @ 80 psig 2" from Pivot Point	Mechanical Advantage 2" from Pivot Point
TC-840	.375	1.375	10	.625	100	1.812	.28	.875	—	3.69	1.875	2.563	1.000	—	1.5 Equiv.	180	1,500	475	3:1
TC-841	.375	1.375	10	.625	100	1.812	.28	.875	3.25	—	1.875	2.563	1.000	5.47	1.5 Equiv.	90	1,500	475	3:1

Note: Maximum inlet pressure: 150 psig.



STANDARD QUOTES
IN 4 HOURS OR LESS

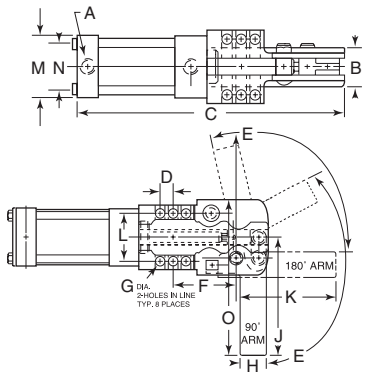
MOST PRODUCTS
SHIP SAME DAY



PNEUMATIC HOLD-DOWN CLAMPS

DESTACO Series TC-860, 861, 890, 891,1001A





Designed for high production applications, these pneumatic clamps offer exceptional clamping forces and holding capabilities. Does not require greater pressure to open than to close. The even numbered models feature a 180 degrees clamping arm which travels to an over-center locked position parallel (180 degrees) to the clamps center line. The corresponding odd numbered models have a 90 degrees arm. The angular locked position of both versions is precisely controlled by the hardened steel insert. The magnetic ring cylinders are used when there is a need to sense the open or closed position of the cylinder. Then by adding a tie rod mounted reed switch, the position of the cylinder can be sensed.

Item No.	A	B	C	D	E (degrees)	F	G	H	J	K	L	M	N	O	Bore	Range of Arm (degrees)	Hold Cap. @ 3" from Pivot to Load Point	Max. Exert. Force @ 80 psig 2" from Pivot Point	Mechanical Advantage 2" from Pivot Point
TC-860	.375	1.75	11.63	.625	96	2.50	.34	1.130	—	4.50	2.188	2.500	2.313	—	2.00	180	3,000	1,250	5:1
TC-861	.375	1.75	12.25	.625	110	2.50	.34	1.130	4.00	—	2.188	2.500	2.313	6.47	2.00	90	3,000	1,250	5:1
TC-890	.375	2.00	13.00	.690	96	3.06	.41	1.250	—	5.50	2.500	3.560	2.760	—	2.50	180	5,000	2,600	6.5:1
TC-891	.375	2.00	13.63	.690	119	3.06	.41	1.250	5.00	—	2.500	3.560	2.760	8.06	2.50	90	5,000	2,600	6.5:1
TC-1001A	.500	2.63	17.88	1.000	122	3.75	.53	1.750	7.00	—	3.500	3.750	3.500	11.31	3.25	90	10,000	6,000	9:1

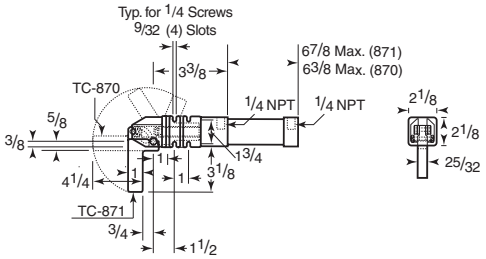
DESTACO Series TC-870, 871 Power Roller



Type A



Type B



These models use a roller and cam principle to enable clamping work of inconsistent thickness while still maintaining a locked condition. Modular units $2^1/_8$" square can stack together for minimum distance between clamping points. Four-way mounting surface for full mounting flexibility. Built-in pre-stop eliminates need to bottom out cylinder. Gives extra travel to automatically compensate for wear. Also permits arm to be machined accurately relative to mounting surface. TC-870-2 maximum opening is 112 degrees, cylinder stroke is $2^3/_8$". TC-871-2 maximum opening is 126 degrees, cylinder stroke is $2^7/_8$". The magnetic ring cylinders are used when there is a need to sense the open or closed position of the cylinder. By adding a tie rod mounted reed switch, the position of the cylinder can be sensed. All these models come with magnetic ring for sensing capability.

Item No.	Type	Cyl. Bore	Cyl. Area Sq. In.	Max. Cylinder Air Pressure psig	Max. Hold Capacity Lbs.	Mechanical Advantage	Exerting Force 80 psig Lbs.
TC-870-2	A	1.5	1.767	250 psig	2,000	1.2 to 2.5:1	170/350
TC-871-2	B	1.5	1.767	250 psig	2,000	1.2 to 2.5	170/350

You May Also Need

Solenoid Operating Valve



FRL Units



Air Hoses

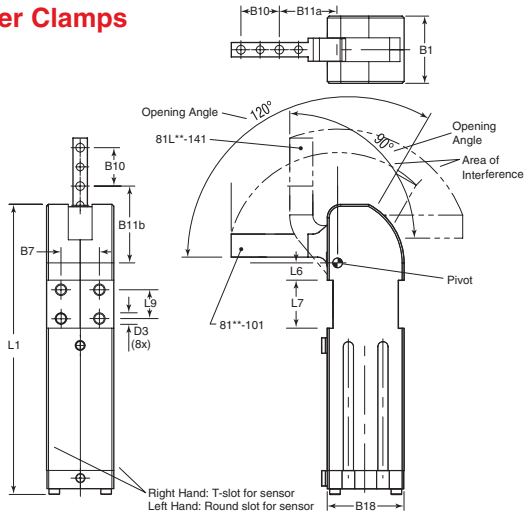


DESTACO Automation Power Clamps Series TC-81L Miniature Design



Horizontal Clamping Arm

Vertical Clamping Arm

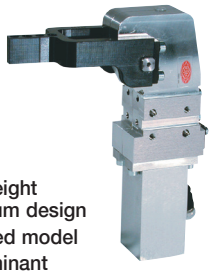


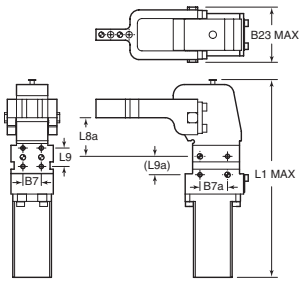
Powered with compressed air max. 6 Bar
Operation with oil-free air is permissible

Clamping, holding, gripping and positioning of metal sheets and other parts in jigs and handling systems. Features compact design, long life cycle, high holding torques, two mounting areas (front and rear), and toggle action mechanism. These models can be quickly fitted with magnetic position sensors. Horizontal clamping arms have 120 degrees standard opening angle and the vertical clamping arms have 90 degrees standard opening angle.

Item No.	Holding Torque Max. (In.-Lbs.)	Clamping Torque Max. (In.-Lbs.)	D3	B1	B7	B10	B11a	B11b	B18	L1	L6	L7	L9
Horizontal													
TC-81L12-10100	221	39	M4 x 6	24	15	9	27	31.5	28	104	4.5	15	9
TC-81L16-10100	531	53	M5 x 5	30	20	15	30	39.5	30	119	5.75	20	12
TC-81L20-10100	885	57	M6 x 8	35	20	20	30.5	40	40	151	9	25	15
TC-81L25-10100	885	159	M6 x 8	35	20	20	40.5	50	40	151	9	25	15
Vertical													
TC-81L12-14100	177	39	M4 x 6	24	15	9	27	31.5	28	104	4.5	15	9
TC-81L16-14100	354	57	M5 x 5	30	20	15	30	39.5	30	119	5.75	20	12
TC-81L25-14100	708	150	M6 x 8	35	20	20	40.5	50	40	151	9	25	15

DESTACO Automation Power Clamps Series TC-82L Without Hand Lever



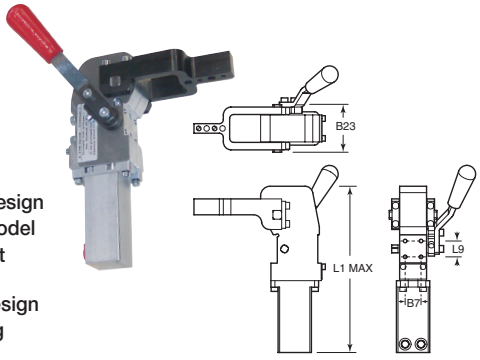


Features:

- Lightweight aluminum design
- Enclosed model
- Contaminant resistant
- Compact design
- High holding torques
- Long life cycle

Item No.	Max. Holding Torque Lbs.	B7	B7a	B23	L1	L8a	L9
Without Sensor							
TC-82L2G2030000	55	25	—	53	179.5	—	18
TC-82L3G2030000	132	20	3	60	211	42	20
TC-82L4G2030000	280	25	35	74	242	50	20
With Sensor							
TC-82L2G203B800	55	25	—	53	179.5	—	18
TC-82L3G203B800	132	20	3	60	211	42	20
TC-82L4G203B800	280	25	35	74	242	50	20

DESTACO Automation Power Clamps Series TC-82L With Hand Lever



Features:

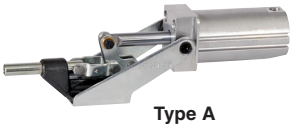
- Lightweight aluminum design
- Enclosed model
- Contaminant resistant
- Compact design
- High holding torques
- Long life cycle

Item No.	Max. Holding Torque Lbs.	Opening Angle (degrees)	Air Connection	B7	B23	L1	L9
Without Sensor							
TC-82L2G20300H0	55	105	1/8	25	53	179.5	18
TC-82L3G20300H0	132	105	1/8	20	60	211	20
TC-82L4G20300H0	280	105	1/4	25	74	242	20
With Sensor							
TC-82L2G203B8H0	55	105	1/8	25	53	179.5	18
TC-82L3G203B8H0	132	105	1/8	20	60	211	20
TC-82L4G203B8H0	280	105	1/4	25	74	242	20

Download FREE CAD drawings with PDF Data Sheets at reidsupply.com

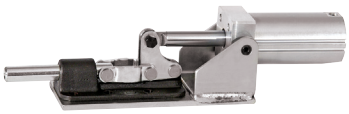
PNEUMATIC STRAIGHT-LINE ACTION CLAMPS

DESTACO Pneumatic Straight-Line Action Clamps



Type A

This compact plunger action clamp is less than 10" long but provides a holding capacity of up to 600 lbs. The $^{7}/_{16}$" diameter plunger extends $^{3}/_{4}$" to a locked position. The end of the plunger is drilled and tapped for a $^{5}/_{16}$-18 spindle. Also available as a fully enclosed clamp (TC-8031).



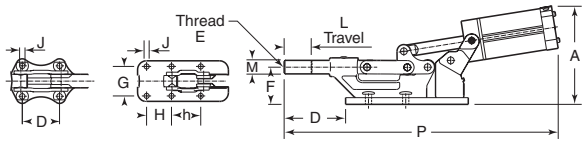
Type B

The $^{5}/_{8}$" dia. plunger travels forward $1^{1}/_{4}$" from an open to a closed and locked position. Plunger is drilled and tapped to accept a $^{3}/_{8}$-16 spindle or to receive your custom fixture.



Type C

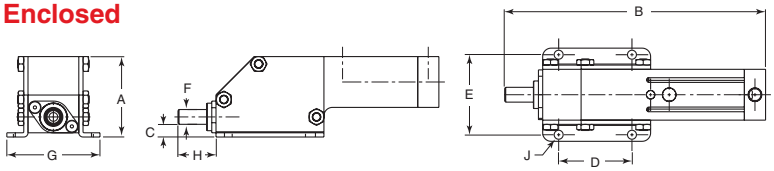
The largest of the straight-line actions, this model has a full 1" dia. plunger that extends 2" and goes into a mechanical lock. A $^{3}/_{8}$" thick steel base provides rigidity and can be welded or bolted into position. Removable pivot pins permit easy removal of the plunger without demounting the entire unit.



Item No.	Type	A	D	E	F	G	H	h	J	L	M	P	Port Size	Cyl. Bore	Cyl. Area (Sq. In.)	Max. Cyl. Air Pressure psi	Max. Mechanical Advantage	Exert. Force at 80 psi Lbs.	Max. Holding Cap. Lbs.
TC-803	A	2.88	2.19	$^{5}/_{16}$-18	1.09	1.31	1.44	—	.27	.75	.44	9.82	$^{1}/_{8}$ NPT	1.13	.99	80	7.5:1	600	600
TC-830	B	$3^{1}/_{4}$	2.00	$^{3}/_{8}$-16	1.06	1.63	—	1.63	.34	1.25	.63	14.08	$^{1}/_{8}$ NPT	1.50	1.77	145	5.7:1	800	2,500
TC-850	C	7.50	4.50	$^{5}/_{8}$-11	2.63	2.25	2.75	—	.41	2.00	1.00	21.17	$^{1}/_{8}$ NPT	2.50	4.90	125	5.2:1	2050	16,000

DESTACO Pneumatic Straight-Line Action Clamps Series TC-8031 - Fully Enclosed

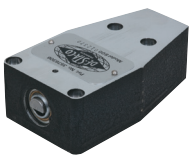


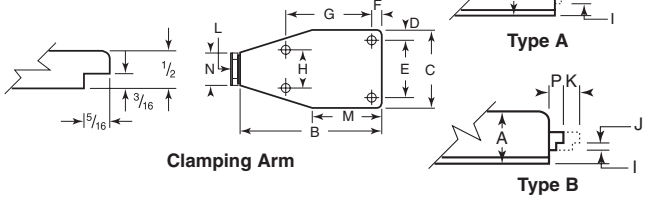


TC-8031 is the fully enclosed version of TC-803. It can be used in the harshest environments. Cylinder is sensor ready and the clamp can be hard piped.

Item No.	A	B	C	D	E	F	G	H	J	Plunger Travel	Plunger Thread	Port Size	Holding Cap. Lbs.
TC-8031	2.37	7.83	.037	2.17	2.36	.44	2.75	1.25	.27	.75	M8	$^{1}/_{8}$ NPT	2,000

DESTACO Pneumatic Retractor Clamps Series TC-800





Clamping Arm

Type A

Type B

Operates on an ordinary shop line air (properly filtered and lubricated). Clamp arm completely retracts from the work area for ease in part loading/unloading. Model 800-E has an extended arm. Min. operating pressure is 70 psig.

Item No.	Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Mtg. Holes	Input Pressure	Exerting Force
TC-800	A	1.63	4.81	2.72	.25	2.21	.25	3.13	1.19	.59	.19	.50	$^{1}/_{4}$ NPT	2.31	1.50	—	.26	70-150	850 - 1,500
TC-800-E	B	1.63	4.81	2.72	.25	2.21	.25	3.13	1.19	.59	.16	.50	$^{1}/_{4}$ NPT	2.31	1.50	.50	.26	70-150	650 - 1,200

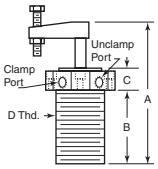
Note: Use with pneumatic power only. 3-Way air valve required to power unit (single-acting, spring return).

PNEUMATIC SWING CLAMPS

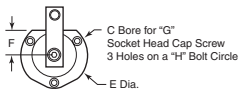
90 degrees swing of clamping arm minimizes obstruction in the work space and makes loading and unloading of parts easy. Ideal for installations where hydraulic power is not suitable. These double acting clamps are intended for quick clamping. Made of aluminum, red anodized, with either a threaded body that permits three mounting options, or a block style mounting body. Available with or without arm. Separate arm options available below. TC-8015, 8016, 8115 and 8116 are supplied with a 10-32 hex head steel spindle (TC-305203). TC-8415 and 8416 are supplied with a $^{3}/_{8}$-16 hex head spindle assembly (TC-485203-AL) and neoprene cap (TC-235110). TC-8215, 8216, 8315 and 8316 are supplied with a $^{3}/_{8}$-16 hex head aluminum spindle (TC-485203-AL). **Swing Cylinder Rotation:** Frame of reference for specifying rotation is the clamp arm viewed from above during the clamping stroke. A right-hand unit rotates clockwise and then clamps down; a left-hand unit rotates counter-clockwise, and then clamps down.

DESTACO Series TC-8000, 8200, 8400
Threaded Body with or without Arm

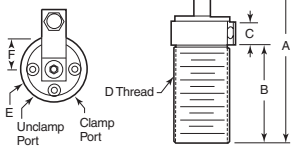




With Arm







Without Arm

w/ Arm Item No.	w/o Arm Item No.	Swing	Rot. Trvl.	Vertical Clamp Stroke	Exerting Force @ 80 psi w/ Standard Arm	A	B	C	D	E	F	G	H	Port Size
TC-8015	TC-8015-LA	RH	.466	.38	22	4.88	2.87	.62	1 1/8-16	1.25	—	—	—	10-32
TC-8016	TC-8016-LA	LH	.466	.38	22	4.88	2.87	.62	1 1/8-16	1.25	—	—	—	10-32
TC-8215	TC-8215-LA	RH	.75	.50	80	6.36	3.36	.87	2 1/4-12	3.00	1.16	.25	2.66	1/8 NPT
TC-8216	TC-8216-LA	LH	.75	.50	80	6.36	3.36	.87	2 1/4-12	3.00	1.16	.25	2.66	1/8 NPT
TC-8415	TC-8415-LA	RH	.75	.50	62	6.14	3.17	.88	1 3/4-12	2.13	.98	—	—	1/8 NPT
TC-8416	TC-8416-LA	LH	.75	.50	62	6.14	3.17	.88	1 3/4-12	2.13	.98	—	—	1/8 NPT

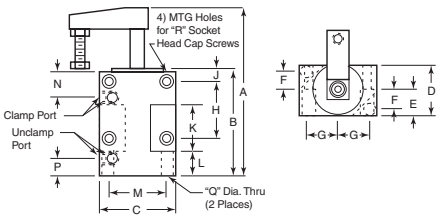
DESTACO Series TC-8100, 8300
Block Style - Standard Sensing Feature - with or without Arm



With Arm



Without Arm



w/ Arm Item No.	w/o Arm Item No.	Swing	Rot. Trvl.	Vertical Clamp Stroke	Exerting Force @ 80 psi w/ Standard Arm	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	Port Size
TC-8115	TC-8115-LA	RH Hand	.466	.38	22	4.88	3.50	1.25	1.25	.62	.47	.47	1.00	1.12	1.00	.25	1.00	1.57	.35	.20	#10	10-32
TC-8116	TC-8116-LA	LH Hand	.466	.38	22	4.88	3.50	1.25	1.25	.62	.47	.47	1.00	1.12	1.00	.25	1.00	1.57	.35	.20	#10	10-32
TC-8315	TC-8315-LA	RH Hand	.75	.50	80	6.36	4.27	3.00	2.00	1.00	.72	1.22	2.25	.53	2.37	.44	2.25	1.016	.65	.40	.313	1/8 NPT
TC-8316	TC-8316-LA	LH Hand	.75	.50	80	6.36	4.27	3.00	2.00	1.00	.72	1.22	2.25	.53	2.37	.44	2.25	1.016	.65	.40	.313	1/8 NPT

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HYDRAULIC POWER WORKHOLDING

DESTACO Hydraulic Cylindrical Swing Clamps

Features:

- Advanced seals and wipers utilize a special, highly wear-resistant construction for long cycle life and operation
- Triple track piston rod design for field adjustable swing direction
- Hardened and hard chrome plated piston rod for increased strength and wear resistance
- Advanced metal treated body for superior wear and corrosion resistance
- MRO interchange design
- Straight pull capacity 600 lbs. at max (TBSC-SA-475)
- Straight pull capacity 1,400 lbs. at max (TBSC-SA-1100, TBSC-SA-1100-R, TBSC-DA-1100, TBSC-DA-1100-R)
- Straight pull capacity 3,150 lbs. at max (TBSC-SA-2400, TBSC-SA-2400-R. TBSC-DA-2400, TBSC-DA-2400-R)

The premium threaded body swing/pull clamps are available in both single-acting and double-acting versions. They incorporate the latest hydraulic swing clamp technology. The top port design allows easy access for plumbing connections. They are available with 90 degree left- or right-hand rotation, or with guided straight pull. The breather port on single-acting models may be replaced with tubing for remote venting. The optional arms clamp securely to the piston rod to reduce fatigue and deflection. Arms may be easily modified or custom arms may be substituted.



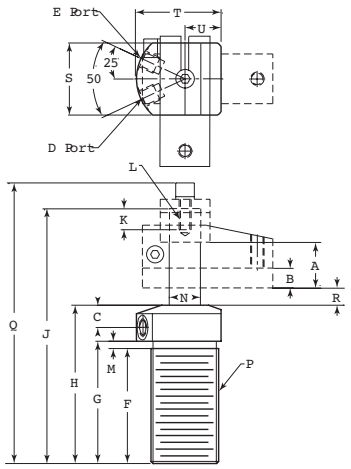
Type A



Type B



Type C



Item No.	Total Stroke A	Clamping Stroke B	C	Clamp D	Unclamp E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
TBSC-SA-475	.65	.21	.59	#2 SAE	#2 SAE	1.929	2.086	3.07	4.429	.8	M6x1	.157	.393	1 1/8-16	4.96	.495	1.3	1.55	.61
TBSC-SA-475-R	.65	.21	.59	#2 SAE	#2 SAE	1.929	2.086	3.07	4.429	.8	M6x1	.157	.393	1 1/8-16	4.96	.495	1.3	1.55	.61
TBSC-SA-1100	.89	.39	.6	#4 SAE	#4 SAE	2.4	2.6	3.58	5.31	.94	M8x1.25	.196	.629	1 3/8-18	5.965	.40	1.5	1.87	.75
TBSC-SA-1100-R	.89	.39	.6	#4 SAE	#4 SAE	2.4	2.6	3.58	5.31	.94	M8x1.25	.196	.629	1 3/8-18	5.965	.40	1.5	1.87	.75
TBSC-DA-1100	.89	.39	.6	#4 SAE	#4 SAE	2.4	2.6	3.58	5.31	.94	M8x1.25	.196	.629	1 3/8-18	5.965	.40	1.5	1.87	.75
TBSC-DA-1100-R	.89	.39	.6	#4 SAE	#4 SAE	2.4	2.6	3.58	5.31	.94	M8x1.25	.196	.629	1 3/8-18	5.965	.40	1.5	1.87	.75
TBSC-SA-2400	1.12	.5	.62	#4 SAE	#4 SAE	3.18	3.38	4.38	6.8	1.28	M10x1.5	.196	.87	1 7/8-16	7.543	.517	2	2.38	1
TBSC-SA-2400-R	1.12	.5	.62	#4 SAE	#4 SAE	3.18	3.38	4.38	6.8	1.28	M10x1.5	.196	.87	1 7/8-16	7.543	.517	2	2.38	1
TBSC-DA-2400	1.12	.5	.62	#4 SAE	#4 SAE	3.18	3.38	4.38	6.8	1.28	M10x1.5	.196	.87	1 7/8-16	7.543	.517	2	2.38	1
TBSC-DA-2400-R	1.12	.5	.62	#4 SAE	#4 SAE	3.18	3.38	4.38	6.8	1.28	M10x1.5	.196	.87	1 7/8-16	7.543	.517	2	2.38	1

Item No.	Type	Swing	Operation	Clamping Force		Effective Area Clamp	Sq. Inch Unclamp	Oil Capacity Clamp	Cu. Inch Unclamp	Max. Oil Flow In 3/m in
				Straight Line	With Arm					
TBSC-SA-475	A	LH	Single-Acting	600	475	.12	—	.08	—	12
TBSC-SA-475-R	A	RH	Single-Acting	600	475	.12	.24	.08	.15	12
TBSC-SA-1100	B	LH	Single-Acting	1,400	1,100	.28	—	.25	—	25
TBSC-SA-1100-R	B	RH	Single-Acting	1,400	1,100	.28	.59	.25	.52	25
TBSC-DA-1100	B	LH	Double-Acting	1,400	1,100	.28	—	.25	—	25
TBSC-DA-1100-R	B	RH	Double-Acting	1,400	1,100	.28	.59	.25	.52	25
TBSC-SA-2400	C	LH	Single-Acting	3,150	2,400	.63	—	.70	—	100
TBSC-SA-2400-R	C	RH	Single-Acting	3,150	2,400	.63	1.23	.70	1.4	100
TBSC-DA-2400	C	LH	Double-Acting	3,150	2,400	.63	—	.70	—	100
TBSC-DA-2400-R	C	RH	Double-Acting	3,150	2,400	.63	1.23	.70	1.4	100

Hydraulic Cylinders



You May Also Like



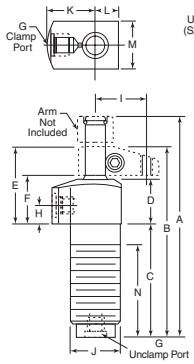
Hydraulic Pumps

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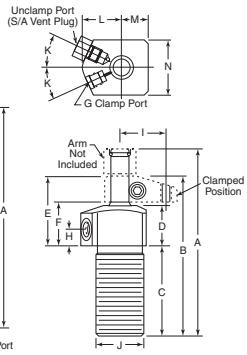
ENERPAC Hydraulic Cylindrical Swing Clamps

ENERPAC

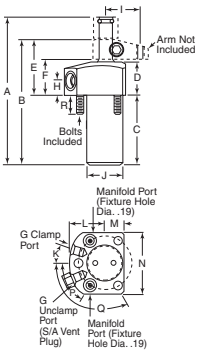




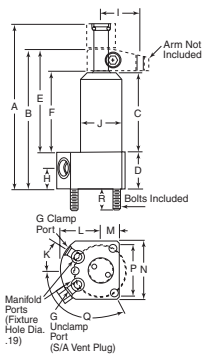
Threaded Single Acting



Threaded Double Acting



Upper Flange Single and Double Acting



Lower Flange Single and Double Acting

These swing cylinders rotate 90 degrees as they begin their stroke, continuing without rotation for the final clamping stroke. Cylinders can be changed to left swing, right swing or pull applications by loosening the bottom plug. All single acting cylinders come with a retract spring for single-acting operations. Max. psi 5,000. Body styles available are threaded with upper flange or non-threaded with lower or upper flange.

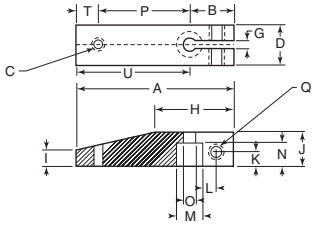
Item No.	Enerpac	Body Style	Cylinder Capacity w/ Std. Arm	Hydraulic Stroke Total	Hydraulic Stroke Clamping	Effective Area (Sq. In.)	Oil Capacity (Cu. In.)	A	B	C	D	E	F	G	H	I	J	K (degrees)	L	M	N
Double Acting																					
VE-70	SURD-51	Upper Flange	1,250	.89	.39	.28	.28	5.31	4.42	2.60	.98	1.82	1.08	SAE #4	.39	1.57	1 3/8-18	25	1.12	.75	1.50
VE-71	SLRD-51	Lower Flange	1,250	.89	.39	.28	.28	5.31	4.42	2.60	.98	1.08	1.50	SAE #4	.39	1.57	1 3/8-18	25	1.12	.75	1.50
VE-72*	STRD-121	Threaded	2,600	1.12	.50	.63	.70	6.75	5.63	3.38	1.00	2.25	1.06	SAE #4	.38	2.00	1 7/8-16	.81	1.38	1.00	2.00
VE-73	SURD-121	Upper Flange	2,600	1.12	.50	.63	.70	6.75	5.63	3.38	1.00	2.25	1.06	SAE #4	.38	2.00	1 7/8-16	25	1.38	1.00	2.00
VE-74	SLRD-121	Lower Flange	2,600	1.12	.50	.63	.70	6.75	5.63	3.38	1.00	2.25	1.06	SAE #4	.38	2.00	1 7/8-16	25	1.38	1.00	2.00
Single Acting																					
VE-600-1*	STRS-21	Threaded	475	.65	.32	.12	.08	4.41	3.76	2.09	.98	1.67	1.04	SAE #2	.39	.97	1 1/8-16	25	.94	.61	1.30
VE-75	SURS-51	Upper Flange	1,100	.89	.39	.28	.28	5.31	4.42	2.60	.98	1.82	1.08	SAE #4	.39	1.57	1 3/8-18	25	1.12	.75	1.50
VE-76	SLRS-51	Lower Flange	1,100	.89	.39	.28	.28	5.31	4.42	2.60	.98	1.82	1.08	SAE #4	.39	1.57	1 3/8-18	25	1.12	.75	1.50
VE-610-1*	STRS-121	Threaded	2,400	1.12	.50	.63	.70	6.75	5.63	3.38	1.00	2.25	1.06	SAE #4	.38	2.00	1 7/8-16	25	1.38	1.00	2.00

*All threaded bodies have upper flange

DESTACO Clamp Arm Extensions

DESTACO a DOVER company





- Do not exceed the maximum speed and pressure ratings for standard arms
- Do not use meter-out circuitry for controlling double-acting clamp speeds

Custom built arms of any length must clamp to the swing/pull clamp's piston rod in a manner similar to the arms or some derating of the clamp will be necessary. **IMPORTANT:** Any clamp using a modified or custom arm that is longer or heavier than standard arms must be derated to prevent internal damage.

Item No.	A	B	C	D	G	H	I	J	K	L	M	N	O	P	Q	T	U
HSCA-S-475	1.929	.709	M6	.63	.126	1.139	.394	.63	.236	.217	.394	.394	.256	.984	M6	.236	1.22
HSCA-L-475	3.959	.709	—	.63	.126	1.166	.394	.63	.236	.217	.394	.394	.256	—	M6	—	3.25
HSCA-S-1100	2.598	.709	M8	.748	.126	1.294	.433	.748	.236	.217	.63	.472	.335	1.575	M6	.315	1.889
HSCA-L-1100	6.019	.709	—	.748	.126	1.412	.433	.748	.236	.217	.63	.472	.335	—	M6	—	5.31
HSCA-S-2400	3.268	.866	M10	1	.126	1.459	.63	1	.236	.217	.866	.709	.413	1.969	M8	.433	2.402
HSCA-L-2400	7.226	.866	—	1	.126	1.696	.63	1	.236	.217	.866	.709	.413	—	M8	—	6.36

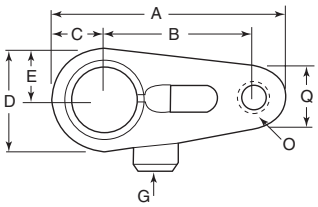
HYDRAULIC POWER WORKHOLDING & ACCESSORIES

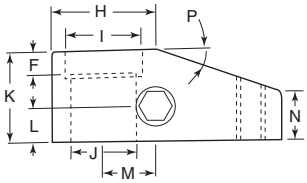
ENERPAC Clamp Arm Extensions

ENERPAC



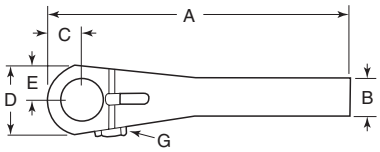
Short Arm

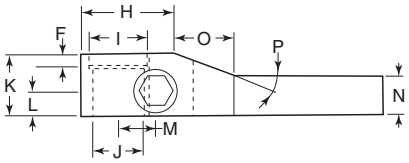






Long Arm





Clamp arms can be positioned and tightened without removing the swing cylinder from the fixture. Clamp arm design eliminates the use of a vise when securing to a plunger. Short arms have a tapped hole for buttons and toggle pads. Long arms can be shortened to desired length.

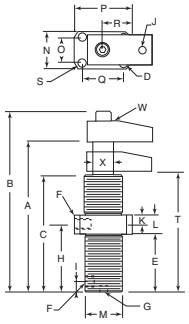
Item No.	Enerpac	For Use With Cylinder Cap.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P (degrees)	Q
Short Arm																			
VE-600-2	CAS-21	500	1.60	.97	.38	.76	.38	.13	.25-28	.68	.466	.394	.63	.28	.37	.40	.25-20	14	.50
VE-605-2	CAS-51	1,250	2.39	1.57	.50	1.00	.50	.17	.312-24	1.02	.728	.630	.75	.31	.51	.45	.312-18	12	.63
VE-610-2	CAS-121	2,600	3.13	2.00	.70	1.39	.69	.28	.375-24	1.40	1.000	.875	1.19	.44	.66	.63	.375-16	18	.82
Long Arm																			
VE-14	CAL-22	500	3.63	.44	.38	.76	.38	.13	M6 x 1	.68	.466	.394	.63	.28	.37	.40	.92	14	—
VE-15	CAL-52	1,250	5.81	.55	.50	1.00	.50	.17	M8 x 1	1.02	.728	.630	.75	.31	.51	.45	1.37	12	—
VE-16	CAL-122	2,600	7.06	.72	.70	1.39	.69	.28	M10 x 1.5	1.40	1.000	.875	1.19	.44	.66	.63	1.73	18	—
VE-17	CAL-202	3,900	7.95	1.00	.95	1.90	.95	.20	M12 x 1.25	2.59	1.400	1.259	1.18	.47	.94	.82	1.11	18	—

ENERPAC "Hydraulic Cylindrical Swing Clamps with Arms

ENERPAC



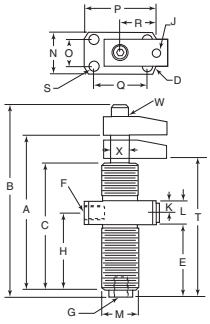
Type A



Type A



Type B



Type B

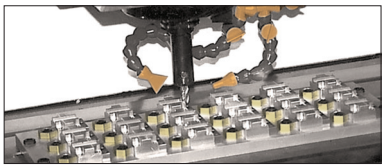
Item No.	Enerpac	Arm Swing	Cylinder Type	Cylinder Capacity @ Max. psi (Lbs.)	Hydraulic Stroke Total	Hydraulic Stroke Clamping	Retracted Height	Cylinder Effective Area (Sq. In.) Pull	Cylinder Effective Area (Sq. In.) Push	Oil Max. Capacity (Cu. In.) Pull	Oil Max. Capacity (Cu. In.) Push	Arm Lgth.	Max. Pressure PSI
VE-354	SC-1	Straight, Left or Right	Single or Double-acting, Pull	2,640	1.50	.50	7.37	.980	1.767	1.470	2.650	None	3,000
				2,164	1.50	.50	7.37	.980	1.767	1.470	2.650	2.00	3,000
				1,960	1.50	.50	7.37	.980	1.767	1.470	2.650	3.00	3,000
				1,740	1.50	.50	7.37	.980	1.767	1.470	2.650	4.00	3,000
				1,200	1.50	.50	7.37	.980	1.767	1.470	2.650	5.00	2,400
				840	1.50	.50	7.37	.980	1.767	1.470	2.650	6.00	2,000
VE-352	SC-3	Straight, Left or Right	Single or Double-acting, Pull	700	.75	.25	4.52	.245	.442	.184	.331	None	3,000
				500	.75	.25	4.52	.245	.442	.184	.331	1.00	3,000
				250	.75	.25	4.52	.245	.442	.184	.331	2.00	2,000

These swing cylinders rotate 90 degrees as they begin their stroke, continuing without rotation for the final clamping stroke. Cylinders can be changed to left swing, right swing, or pull applications by loosening the side plug and then rotating the plunger to a desired position. The VE-354 and VE-352 have a retract spring for single-acting operations. Clamp arm provided. Can be mounted with the built-in flange by securing the swinger to the top or bottom of a tooling plate or by screwing the threaded body into a mounting bracket.

Item No.	Enerpac	Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W	X
VE-354	SC-1	A	7.37	8.88	5.74	3.00	2.87	1/4-18	1/8-27	3.31	.50	.38-16	.44	.88	1 7/8-16	1.88	1.28	2.90	2.06	2.00	.40	5.87	1/2-13	1.000
VE-352	SC-3	B	4.26	5.27	3.48	2.13	2.03	1/8-27	1/8-27	2.15	—	.250-20	.32	.63	1-12	1.13	.75	2.00	1.50	1.00	.20	3.71	5/16-24	.500

Note: Standard clamping arm supplied. Longer arms indicated in chart can be fabricated by the user.

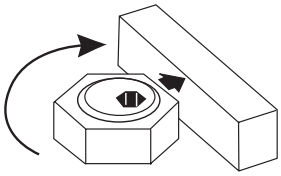
MITEE-BITE Hex Cam Edge Clamps



The Mitee-Bite® clamping system combines strength, versatility and performance with economy and ease of use. Consisting of a cam action socket cap screw with a brass hex washer, set ups are simplified even for hard to hold parts. Its small size allows more parts per load on multiple series jobs. The low profile makes programming easier because there are no clamps to jump over. Fast to use (just 1/4 turn of screw loosens clamp) and no loose parts to set up each time. Economical- all six sides of the hex nut can be used. Available in six sizes for use on multiple part fixtures. Metric sizes are in millimeters. MB-10203 and MB-50207 are stainless steel.

STAINLESS STEEL OPTION AVAILABLE



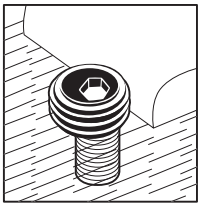


Item No.	Screw Size	Thread Lgth.	Hex Size	Hex Ht.	Max. Holding Force Lbs.	Total Throw	Pack Qty.
Inch							
MB-2	8-32	.350	.312	.110	205	.030	10
MB-3	10-32	.340	.500	.160	350	.040	10
MB-4	1/4-20	.470	.625	.190	800	.040	10
MB-10203*	1/4-20	.470	.625	.190	—	.040	4
MB-5	5/16-24	.460	.812	.190	750	.040	12
MB-5C	5/16-18	.460	.812	.190	750	.040	12
MB-6	3/8-16	.710	.812	.250	2,000	.050	10
MB-8	1/2-13	.900	1.000	.375	4,000	.100	8
Metric							
MB-50204	M4	9.6	7.93	2.80	93	.76	10
MB-50207*	M8	15	20.6	6.35	364	1.01	4
MB-50206	M6	11.2	15.86	4.75	364	1.01	10
MB-50208	M8	15.0	20.61	4.75	340	1.01	12
MB-50210	M10	19.0	20.61	6.35	910	1.52	10
MB-50212	M12	22.8	25.38	9.52	1,818	2.03	8
MB-50216*	M16	28.5	30.13	12.69	2,720	2.54	4

*Stainless steel

MITEE-BITE Knife Cam Edge Clamps



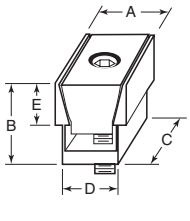


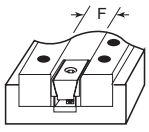
Low profile, fast cam action. Hardened steel bites into workpiece for secure clamping for castings and rough cut stock. Follows contour of part for maximum contact.

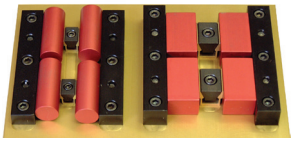
Sets		
Item No.	Thread Size	
MB-22584	3/8-16	8
MB-22588	1/2-13	8
MB-22592	5/8-11	4

MITEE-BITE Wedge Clamps









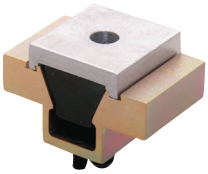
Compact and economical, uniforce® clamps enable you to fixture more parts on the machine table. The specially designed steel wedge spreads the clamping force uniformly on both sides of the aluminum channel. Minimizes tool changes. Ideal for clamping flat or round work pieces. Please note that these are sold in packages.

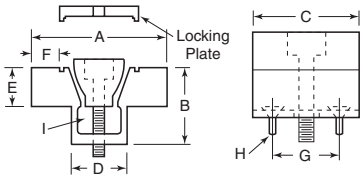
Item No.	A	B	C	D	E	F	Thread Size	Max. Spread	Holding Force Lbs.	Pack Qty.
MB-6025	.240	.250	.320	.210	.140	.250	2-56	.260	200	6
MB-6037	.360	.375	.470	.310	.375	.375	4-40	.390	310	6
MB-6050	.485	.500	.625	.410	.220	.500	8-32	.530	500	8
MB-6075	.735	.750	.940	.635	.375	.750	1/4-20	.785	1,500	6
MB-6100	.980	1.000	1.250	.820	.500	1.000	5/16-18	1.050	2,000	4
MB-6150	1.470	1.500	1.875	1.215	.750	1.500	1/2-13	1.560	3,500	2

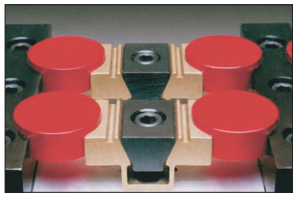
Note: A shallow slot a little wider than D dimension will insure clamp remains in line with workpiece. F is the distance needed between workpieces for clamp clearance. Drill and tap mounting hole on the center of F dimension.

WEDGE, EDGE & TOE CLAMPS

MITEE-BITE Machinable Wedge Clamps







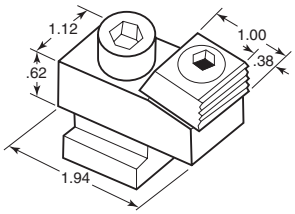
The compact clamp is available with extra material on the clamping jaws so it can be machined to conform to the shape of your work piece, enabling you to fixture unusual applications easily. The specially designed steel wedge spreads the clamping force uniformly on both sides of the aluminum channel. A unique locking plate is provided to make the clamp rigid while machining the jaws to your specifications. Order one piece and you will receive one complete assembly with mounting screws and locking plate.

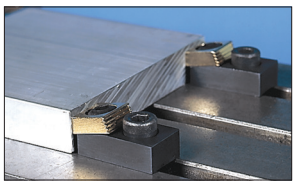
Item No.	A	B	C	D	E	F	G	H	I
MB-250	1.125	.50	.62	.42	.25	.18	.400	2-56	8-32
MB-750	1.50	.750	.94	.64	.38	.28	.625	6-32	1/4-20
MB-1000	2.00	1.000	1.25	.82	.50	.38	.810	6-32	5/16-18
MB-1500	3.00	1.500	1.87	1.87	.75	.62	1.20	10-32	1/2-13

Note: A is the distance needed between work pieces for clamp clearance, drill and tap mounting holes on the center of the A dimension. F dimension is the amount of machinable stock.

MITEE-BITE T-Slot Toe Clamps





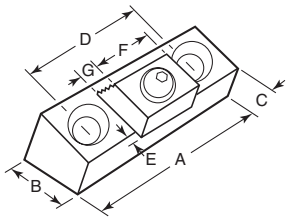


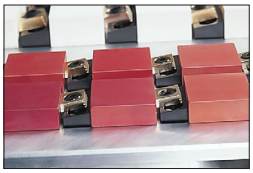
A low profile cam action clamp with positive down force. This clamp is mounted in the T-slots of machine tables by sliding the clamp to the work piece and tightening the locking screw. Total distance of movement .100". Two clamping edges, smooth for machined surface, and serrated for rough cut material.

Item No.	T-Slot Size	Price Each	Item No.	T-Slot Size
MB-24128	9/16		MB-24168	11/16
MB-24148	5/8			

MITEE-BITE Compact Toe Clamps







Cam action, positive down force clamps can be used in series. Clamp base should be installed in a slot to retain location. Clamp base provides for higher clamping; height is determined by depth of slot. Mounting screws included.

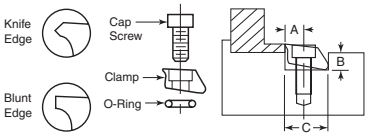
Item No.	A	B	C	D	E	F	G	Total Distance of Movement	Key Size	Mounting Screw
MB-24106	1.70	.75	.50	1.00	.090	.75	.25	.050	3/16	5/16-18 x 3/4
MB-24108	2.12	1.00	.45	1.32	.110	1.00	.38	.100	5/16	3/8-16 x 3/4

MITEE-BITE Pitbull® Clamps


Steel, Knife


Steel, Blunt


Brass, Blunt



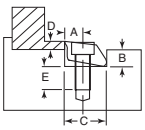
The Pitbull clamp is a revolutionary new fixture clamp with positive down force and a low gripping profile. High vertical and horizontal clamping forces are generated, considering the size of the Pitbull Clamps. It uses a standard cap screw and an oil resistant O-ring. The Pitbull Clamp is available in 5 sizes and several styles, a tool steel knife edge for aggressive stock removal, a tool steel blunt edge for general purpose and a brass version to help prevent marring in the work piece.

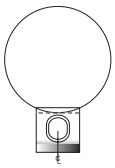
Item No.	Material/Edge	A	B	C	Screw Size	Max. Holding Force Lbs.	Total Throw	Pack Qty.
PBCL-2	Steel/Blunt	.150	.140	.375	4-40	650	.0075	8
PBCL-3	Brass/Blunt	.150	.140	.375	4-40	650	.0075	8
PBCL-4	Steel/Knife	.200	.187	.500	8-32	1,500	.0160	8
PBCL-5	Steel/Blunt	.200	.187	.500	8-32	1,500	.0160	8
PBCL-6	Brass/Blunt	.200	.187	.500	8-32	1,500	.0160	8
PBCL-7	Steel/Knife	.300	.280	.750	1/4-20	3,600	.0240	6
PBCL-8	Steel/Blunt	.300	.280	.750	1/4-20	3,600	.0240	6
PBCL-9	Brass/Blunt	.300	.280	.750	1/4-20	3,600	.0240	6

These hardened and ground clamps can produce holding forces of over 19,000 lbs. The OK-Vise clamp achieves this by its cross-wedge construction, which allows the clamp to lock firmly in every direction as it is tightened down. Jaws with 30-34 HRC can be machined to suit the geometry of the workpiece. Includes mounting screws.

MITEE-BITE Machinable Pitbull® Clamps





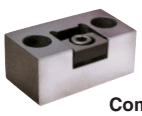


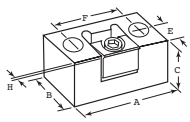
This new Pitbull fixture clamp is a machinable version of the popular Pitbull clamp. The clamp has positive down force and a very low gripping profile. The machinable Pitbull clamp is made of tool steel and heat treated to about 43 Rc for long life, yet still machinable. There is additional material on the clamping face to allow for machining a radius. A dowel pin is included in each package to locate the clamp during the machining process.

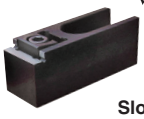
Item No.	Description	A	B	C	D	E	Clamp Width	Screw Size	Max. Holding Force Lbs.	Torque In-Lbs.	Total Throw	Dowel Pin Size	Pack Qty.
MB-26077	Tool Steel, Machinable	.400	.450	1.00	.250	.710	1.00	3/8-16	6,000	360	.050	1/8	4
MB-26088	Tool Steel, Machinable	.600	.640	1.50	.375	.770	1.50	1/2-13	12,000	1,300	.075	1/4	2

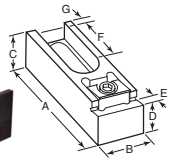
Note: D is clamp height.

MITEE-BITE Modular Pitbull® Clamps


Compact




Slotted



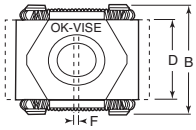
The slotted modular Pitbull® clamp with a step offers increased versatility through its unique riser design. This clamp supports the work piece off the machine table for through milling and drilling. The hardened and ground clamps are designed for use on work cubes, as well as machined tables with tapped holes or T-slot configurations. The compact modular Pitbull® clamp is ideal for clamping work pieces in a series by using the back surface of a clamp to locate the next work piece. The back of the clamp is ground square to the bottom for precise location of parts. The height of the clamp can be adjusted by the depth of the milled slot used to locate the clamp.

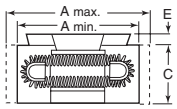
Item No.	Description	A	B	C	D	E	F	G	H Max. Movement	Holding Force Lbs.
MB-26220	Medium/Compact	2.25	1.23	.98	NA	.62	1.50	—	.024	3,600
MB-26230	Large/Compact	2.70	1.48	1.24	NA	.74	1.85	—	.050	6,000
MB-26240	Medium/Slotted	4.08	1.25	.99	.730	.36	1.70	.50	.024	3,600
MB-26250	Large/Slotted	4.20	1.50	1.61	1.378	.36	1.52	.43	.050	6,000

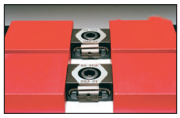
WEDGE, EDGE & TOE CLAMPS

MITEE-BITE OK-Vise Low Profile Clamps Single Wedge







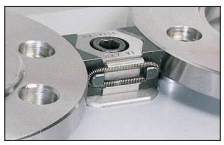


Completely free of play.

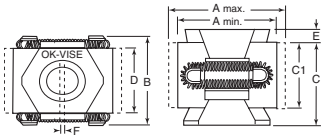
Item No.	A Min.	A Optimum	A Max.	B	C	D	E	F	Mounting Screw	Pressing Force of Jaws Lbs.	Jaw Hardness (HRC)
MB-471	1.06	1.14	1.22	1.14	.59	.83	.10	.040	5/16-18 x 3/4	3,300	48-52
MB-479	1.06	1.14	1.22	1.14	.59	.83	.10	.040	5/16-18 x 3/4	3,300	48-52
MB-472	1.65	1.77	1.93	1.61	.87	1.18	.16	.080	1/2-13 x 1 1/4	6,600	48-52
MB-474	1.3	1.38	1.46	1.14	.59	.83	.1	.06	5/16-18 x 3/4	5,000	30-34
MB-475	2.05	2.17	2.32	1.61	.87	1.18	.16	.080	1/2-13 x 1 1/4	6,600	30-34

*Ends of jaws are smooth

MITEE-BITE OK-Vise Low Profile Clamps Double Wedge







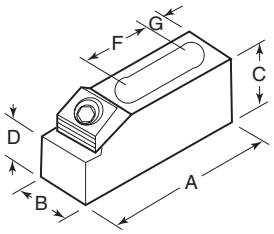
Pull down action towards the work piece.

Item No.	A Min.	A Optimum	A Max.	B	C	C1	D	E	F	Mounting Screw	Pressing Force of Jaws Lbs.	Jaw Hardness (HRC)
MB-477	1.65	1.77	1.93	1.61	1.42	1.18	1.18	.20	.080	1/2-13 x 1 1/2	11,000	48 - 52
MB-478	2.24	2.40	2.64	2.20	1.97	1.65	1.65	.20	.120	5/8-11 x 2 1/4	19,800	48 - 52

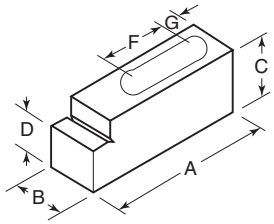
MITEE-BITE Multi-Fixture Clamps and Stops







Clamp



Stop

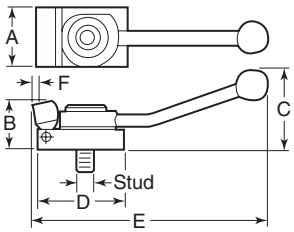
Works in plates with tapped hole layouts or T-slot configurations providing flexible set ups for hard to hold parts. Can be mounted vertically or horizontally. Stops locate workpiece for repeat positioning. Tapered mounting slots prevents movement when clamping pressure is applied. Closed slot.

Item No.	Description	A	B	C	D	F	G	Mounting Screws
MB-150	Clamp	3.75	1.12	.62	.480	.37	.50	1/2
MB-200	Stop	3.75	1.12	.87	.480	.37	.50	1/2

Cam Action Clamps

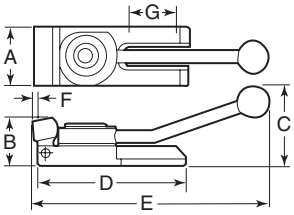


Standard





Extended

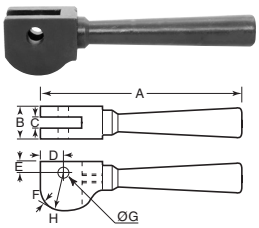


Low profile quick action clamp. Jaw pivots forward and downward at the same time when the handle is turned. Locks positively at any position within its 180 degrees turn, so that it will hold parts that vary slightly in dimension. Clamps with extended base allow position adjustment on machine tables.

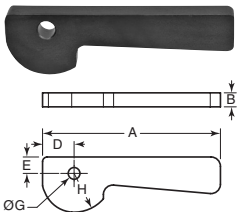
Item No.	Base	Stud	A	B	C	D	E	F	G
CAC-5	Standard	5/16-18	1 1/4	1	1 5/8	1 3/4	5	1/8	–
CAC-10*	Extended	5/16-18	1 1/4	1	1 5/8	3 1/8	5	1/8	1
CAC-15	Standard	1/2-13	1 7/8	1 1/2	2 1/2	2 3/4	7 1/2	5/32	–
CAC-20*	Extended	1/2-13	1 7/8	1 1/2	2 1/2	4 3/4	7 1/2	5/32	1 1/2

*Stud not included in extended base clamps

Steel Cam Handles



Double



Single

These cams provide quick action locking with high holding pressure. Can be used for many types of operations. Heat treated for long life. Black oxide finish. The slot on the double cam is milled. Can be used with our eye bolts or forged rod ends.

Item No.	A	B	C	D	F	G	H
Double							
DC-1	–	9/16	1/4	3/16	3/8	3/16	9/16
DC-2	3 1/2	5/8	5/16	9/32	1/2	1/4	11/16
DC-3	5	1 1/8	1/2	13/32	5/8	3/8	15/16
DC-4	5 3/8	1 1/4	5/8	9/16	7/8	5/8	1 3/16
Single							
SC-0	2 3/8	3/16	–	27/64	–	5/32	33/64
SC-15	3 1/4	1/4	–	1/2	–	1/4	39/64
SC-1A	4 1/2	3/8	–	41/64	–	5/16	25/32
SC-2A	5	1/2	–	29/32	–	3/8	1 3/32

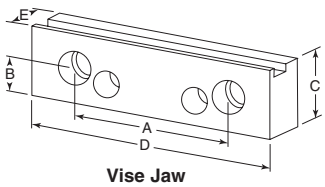
Mitee-Bite Talon Grip vise jaws systems is a new and innovative product that will increase the versatility of your standard 4" and 6" vises. It is a simple bolt on system that will allow you to perform aggressive machining operations while clamping on as little as .060 of an inch. Ideal for small lot sizes, difficult application or prototype work when building a fixture would not be beneficial. TalonGrips are also available with the Pitbull clamp or soft jaw applications.



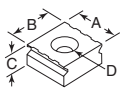


TalonGrip™ Vise Jaws Systems
Steel Vise Jaw Set
Set includes 4 TalonGrips™, 1 stop with M5 screws.

Item No.	Vise Size	A	B	C	D	E
MB-32044	4	2.5	.688	1.49	4.0	1.0
MB-32066	4 / 6	2.5/3.88	.688/.94	1.74	6.0	1.0
MB-32068	6	3.88	.94	1.74	8.0	1.0



Vise Jaw



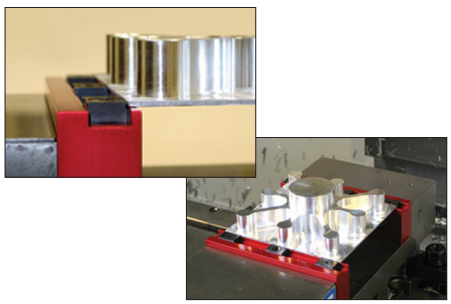
Grip

TalonGrip™ Vise Jaw Systems
Vise Jaw Grips

Item No.	Description	A	B	C	D	Recommended Gripping Height	Pack Qty.
MB-32050	Grips	.75	.500	.250	10-32	.06 - .075	2
MB-33050	Grips	.75	.500	.250	M5	.06 - .075	2

TalonGrip™ Vise Jaws Systems
Fixture Grips

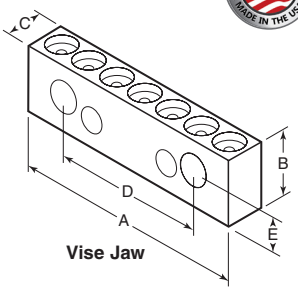
Item No.	A	B	C	D	Recommended Gripping Height	Pack Qty.
MB-32075	.75	.75	.312	10-32	.06 - .120	2
MB-33075	.75	.75	.312	M5	.06 - .120	2
MB-32100	.75	1.00	.312	10-32	.06 - .120	2
MB-33100	.75	1.00	.312	M5	.06 - .120	2



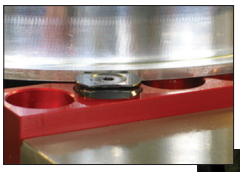
ID EXPANSION, EDGE & TOE CLAMPS

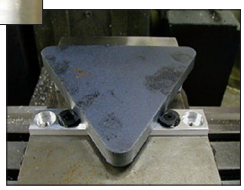
MITEE-BITE PRODUCTS INC.

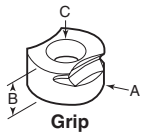




Vise Jaw







Grip

MITEE-BITE VersaGrip allows you the versatility of clamping standard vise work as well as providing a solution for difficult applications that would normally require fixturing or machining soft-jaws. By simply replacing your current jaws with the VersaGrip system you can securely hold odd shaped parts while machining at speeds and feeds you never thought possible. This system can accommodate a wide range of part sizes as well as holding multiple parts in a single cycle. The hardened (52-54 RC) VersaGrip has penetrating teeth designed to bite into your workpiece preventing lateral and horizontal movements. These grips will hold flame cut parts, castings, even parts with a negative draft.

VersaGrip™ Vise Jaws Systems
Steel Vise Jaw Sets
Set includes 4 VersaGrips™

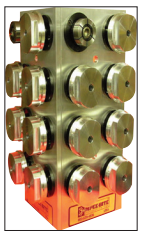
Item No.	Vise Size	A	B	C	D	E
MB-32166	4 / 6	6.00	1.88	1.0	2.5/3.88	.688/.94
MB-32168	6	8.00	1.88	1.0	3.88	.94

VersaGrip™ Vise Jaws Systems
VersaGrips™

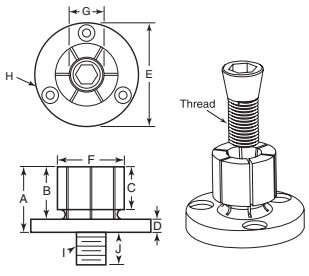
Item No.	A	B	C	Recommended Gripping Height	Pack Qty.
MB-32175	.750	.375	M5	.060 - .140	2

MITEE-BITE ID Xpansion™ Clamps

MITEE-BITE PRODUCTS INC.







Applications:
- Ideal for secondary operations on lathe parts
- Excellent for palletized setups

Features:
- Easily machined to size on lathe or mill
- Allows more parts per work cube or fixture plates
- Clamp body made of mild steel for machinability
- Tighten with hex key or hydraulic pull cylinders (drill clearance hole for longer bolt into cylinder)
- Three mounting screws included

These clamps are ideal to hold multiple parts on an inside diameter for machining on a machining center. These clamps are produced in ten sizes and can hold internal diameters from .16" to 4.06". Expand clamp approximately .005" over relaxed diameter and machine to fit work piece bore.

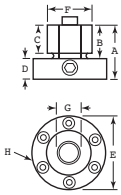
Item No.	A	B	C	D	+.000/-.002 E	F	G	H Mounting Screws	I Thread	J
MB-31000	.42	.30	.24	.12	.787	.29	.16	2-56 on .540 BHC	2-56	.16
MB-31050	.86	.63	.59	.23	1.170	.49	.28	6-32 on .825 BHC	8-32	.30
MB-31100	.98	.75	.59	.23	1.240	.56	.48	6-32 on .910 BHC	1/4-20	.50
MB-31150	.98	.75	.59	.23	1.476	.79	.53	6-32 on 1.140 BHC	5/16-18	.56
MB-31200	1.13	.88	.69	.25	1.968	1.06	.71	8-32 on 1.550 BHC	3/8-16	.71
MB-31250	1.25	1.00	.81	.25	2.205	1.39	.90	8-32 on 1.790 BHC	1/2-13	.71
MB-31300	1.56	1.25	1.06	.31	2.736	1.65	1.15	10-32 on 2.200 BHC	5/8-11	.79
MB-31350	1.56	1.25	1.06	.31	2.972	2.03	1.15	10-32 on 2.515 BHC	5/8-11	.79
MB-31400	1.79	1.48	1.27	.31	4.232	3.06	1.15	1/4-20 on 3.646 BHC	5/8-11	.79
MB-31450	1.79	1.48	1.27	.31	5.232	4.06	1.15	1/4-20 on 4.648 BHC	5/8-11	.79
MB-31500	1.79	1.48	1.27	.31	5.232	6.89	1.15	1/4-20 on 4.648 BHC	5/8-11	.79

Note: The G dimension is the minimum diameter that the F dimension can be machined or turned (down) to.

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MITEE-BITE Side-Loc Xpansion Clamps

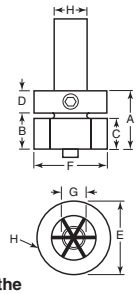




Used for Milling



Used for Lathe

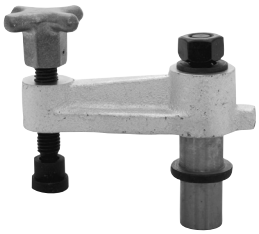


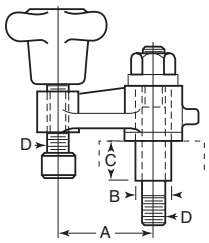
The side-loc xpansion clamp is an ideal way to clamp on the I.D. when the part has a blind bore. It is actuated by turning a socket head cam on the side, which moves a tapered plunger to expand the clamp. The side-loc xpansion clamp is designed in two styles, one for milling operations and one for lathe applications. Presently one size is available for each model. The mill side-loc xpansion clamp can be machined from 1.120 to .710 and the lathe version from 2.09 to .710. The lathe version has a straight mounting shank of 1".

Item No.	Used For	A	B	C	D	E	F	G	H	Hex Key Size	Holding Force Lbs.
MB-31210	Milling	1.625	.875	.69	.75	1.968	1.13	.71	8-32 on 1.550 BHC	M6	4,000
MB-31370	Lathe	1.750	1.00	.84	.75	2.10	2.10	.71	1.0	M6	4,000

Note: Six mounting screws included.

Swing Clamp Assemblies Reamed Hole Mounting

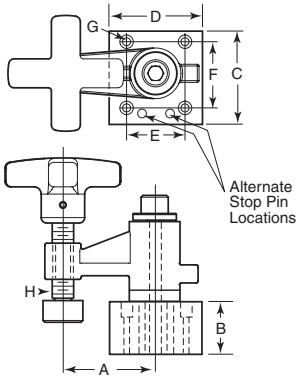


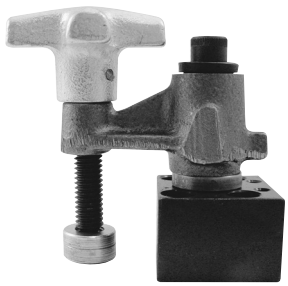


Very useful in limited space applications. Knob swivel screw assembly allows for quick clamping and release and for protection against marring the work piece. The shoe of the swivel screw stops rotation upon contact with the work piece. To compensate for irregular work surfaces, the shoe swivels approximately three degrees in all directions. Arm may be used for right or left hand swing. Knob and arm are cadmium plated cast iron. All other parts are heat treated steel with black oxide finish.

Item No.	A	+.000/-.001 B	C	D	Thread Travel
SCA-21205	2	.874	1 1/8	1/2-13	1.00
SCA-21219	3	1.123	1 3/8	5/8-11	1.50

Swing Clamp Assemblies Flange Base

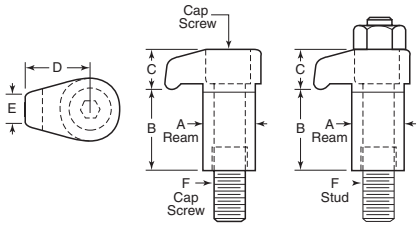




Item No.	A	B	C	D	E	F	G	H	Thread Travel
SCA-21202	1 1/2	1	1 7/16	1 1/2	3/4	1	#10	5/16-18	.40
SCA-21211	3	1.25	2 1/4	2 1/4	1 1/8	1 3/8	1/4	1/2-13	1.00
SCA-21223	4	1.25	2 1/4	2 1/4	1 1/4	1 1/2	3/8	5/8-11	1.25

Hook Clamp Assemblies



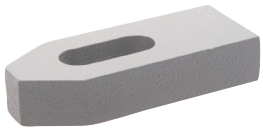


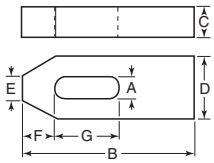
Alloy steel, black oxide finish. Ideal for jig and fixture quick build systems. Hook rotates 360 degrees. Screws and springs provided.

Item No.	A	B	C	D	E	F
HCA-C1	.625	15/16	1/2	11/16	3/8	5/16-18 x 1 3/4
HCA-S1	.625	15/16	1/2	11/16	3/8	5/16-18 x 2 1/2
HCA-C2	.875	1 5/8	5/8	1	1/2	1/2-13 x 3
HCA-S2	.875	1 5/8	5/8	1	1/2	1/2-13 x 4
HCA-C3	1.125	1 13/16	7/8	1 7/16	3/4	5/8-11 x 3 1/2
HCA-S3	1.125	1 13/16	7/8	1 7/16	3/4	5/8-11 x 5

MACHINE STRAP CLAMPS

AMF Strap Clamps
Tempered Steel - Varnished Finish
Plain

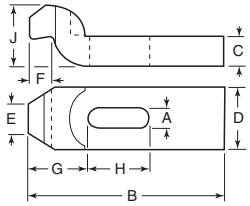




Item No.	A	Bolt Size	B	C	D	E	F	G
AMF-9	.43	3/8, M10	3.15	.59	1.18	.47	.59	1.18
AMF-10	.55	1/2, M12, M14	3.94	.79	1.57	.55	.83	1.57
AMF-12	.71	5/8, M16, M18	4.92	.98	1.97	.71	1.02	1.77
AMF-13	.71	5/8, M16, M18	6.30	.98	1.97	.71	1.02	2.56
AMF-14	.87	3/4, M20, M22	6.30	1.18	2.36	.87	1.18	2.36
AMF-15	.71	3/4, M20, M22	7.87	1.18	2.36	.87	1.18	3.15

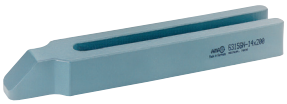
AMF Strap Clamps
Tempered Steel - Varnished Finish
Single Goose-Neck

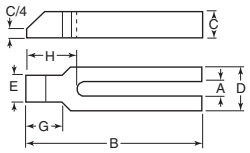




Item No.	A	Bolt Size	B	C	D	E	F	G	H	J
AMF-35	.55	1/2, M12, M14	4.92	.79	1.57	.79	.63	1.57	1.57	1.10
AMF-38	.87	3/4, M20, M22	6.30	1.18	2.36	1.18	.94	2.17	2.17	1.74

AMF Strap Clamps
Tempered Steel - Varnished Finish
Forked Clamp with Shoe

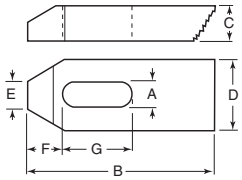




Item No.	A	Bolt Size	B	C	D	E	G	H
AMF-34	.87	3/4, M20, M22	9.84	1.58	2.36	1.38	1.77	2.68

AMF Strap Clamps
Tempered Steel - Varnished Finish
Step Clamps



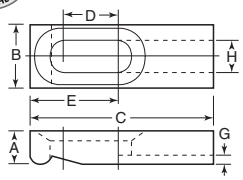


Compatible with universal step blocks AMF-40, 41, and 42.

Item No.	A	Bolt Size	B	C	D	E	F	G
AMF-17	.43	3/8, M10	3.15	.59	1.18	.47	.59	1.18
AMF-18	.55	1/2, M12, M14	3.94	.79	1.57	.55	.83	1.57

Morton Machine Works
Strap Clamps
Radius
304 Stainless Steel

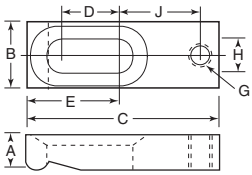




Item No.	A	B	C	D	E	G	H
CSS-1501	1/4	1/2	1 3/4	7/16	3/4	3/32	7/32
CSS-1876	1/2	7/8	3 1/2	1	1 1/2	1/8	13/32

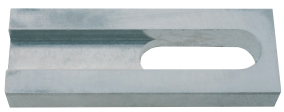
Morton Machine Works
Strap Clamps
Tapped End Radius
304 Stainless Steel

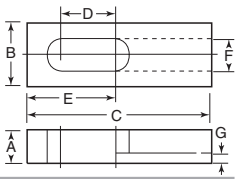




Item No.	A	B	C	D	E	G	H	J
CSS-1503	1/4	1/2	1 1/2	5/16	5/8	10-32	7/32	11/16
CSS-1504	1/4	1/2	1 3/4	7/16	3/4	10-32	7/32	13/16
CSS-1629	5/16	5/8	2	1/2	7/8	1/4-20	9/32	7/8
CSS-1755	3/8	3/4	3	7/8	1 5/16	5/16-18	11/32	1 3/8
CSS-1878	1/2	7/8	3	3/4	1 5/16	3/8-16	13/32	1 5/16

Morton Machine Works
Strap Clamps
Flat
304 Stainless Steel





Item No.	A	B	C	D	E	F	G
CSS-1632	1/4	5/8	1 3/4	1/2	3/4	9/32	1/8
CSS-1881	1/2	7/8	3	1	1 3/8	13/32	1/8

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Machinist Clamping Kit
1" Step Blocks



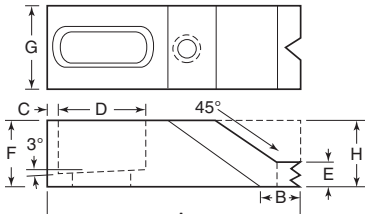
Contains 57 pieces in a strong metal holder that can be mounted or can stand on a bench.

Item No.	Stud Size	Table Slot	T-Nut Part No.	Step Clamp Part No.	Step Blocks Part No.
DCK-1	3/8-16	7/16	TN-2	CS-1, CS-2, CS-3	1-S, 2-S, 3-S
DCK-2	3/8-16	1/2	TN-3	CS-1, CS-2, CS-3	1-S, 2-S, 3-S
DCK-4	1/2-13	9/16	TN-4	CS-4, CS-5, CS-6	1-S, 2-S, 3-S
DCK-5	1/2-13	5/8	TN-5	CS-4, CS-5, CS-6	1-S, 2-S, 3-S
DCK-7	5/8-11	11/16	TN-6	CS-7, CS-8, CS-9	1-S, 2-S, 3-S
DCK-8	5/8-11	3/4	TN-7	CS-7, CS-8, CS-9	1-S, 2-S, 3-S

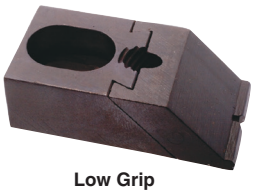
Kit includes:

- Six T-slot nuts
- Twenty-four studs - four each of 3", 4", 5", 6", 7" and 8" lengths
- Four flange nuts
- Four coupling nuts
- Twelve step blocks
- Six step clamps
- One T-slot cleaner
- One metal stand

Powerful, low profile clamp that grips on the side of the work leaving the top surface open. No interference with cutting tools or reading and measuring instruments. Ideal for use on mills, planers, jig bores, drill presses or faceplates. Heat treated steel, black oxide finish. Toe is moved by an actuating screw. T-wrenches are sold separately. Toe moves on a 45 degree angle, forcing the workpiece down. 3 degree taper prevents back-off. To help prevent possible damage by the anchor screw, a special washer is provided with each clamp.



Toe Clamps
Slotted for 5/16 or M8 Socket Head Cap Screw



Low Grip



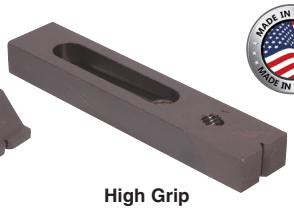
High Grip

Steel Toe Item No.	Brass Toe Item No.	A	B	C	D	E	F	G	H
Low Grip									
NTC-41101	NTC-41131	2	1/2	1/16	3/4	1/8	5/8	1	1/8
NTC-41102	—	2 1/2	1/2	1/16	1 1/4	1/8	5/8	1	1/8
NTC-41103	—	3	1/2	1/16	1 3/4	1/8	5/8	1	1/8
High Grip									
NTC-41110	NTC-41121	2	1/2	1/16	3/4	5/8	5/8	1	5/8
NTC-41111	—	2 1/2	1/2	1/16	1 1/4	5/8	5/8	1	5/8
NTC-41112	—	3	1/2	1/16	1 3/4	5/8	5/8	1	5/8

Toe Clamps
Slotted for 1/2 or M12 Socket Head Cap Screw



Low Grip



High Grip

Item No.	A	B	C	D	E	F	G	H
Low Grip								
NTC-41001	4 1/16	13/16	1/8	2	1/4	7/8	1 1/2	1/4
NTC-41002	5 1/2	13/16	1/2	2 3/4	1/4	7/8	1 1/2	1/4
NTC-41003	7 7/16	13/16	1	3 3/4	1/4	7/8	1 1/2	1/4
High Grip								
NTC-41010	4 1/16	13/16	1/8	2	7/8	7/8	1 1/2	7/8
NTC-41011	5 1/2	13/16	1/2	2 3/4	7/8	7/8	1 1/2	7/8
NTC-41012	7 7/16	13/16	1	3 3/4	7/8	7/8	1 1/2	7/8

Toe Clamps
Slotted for 5/8 or M16 Socket Head Cap Screw



Low Grip

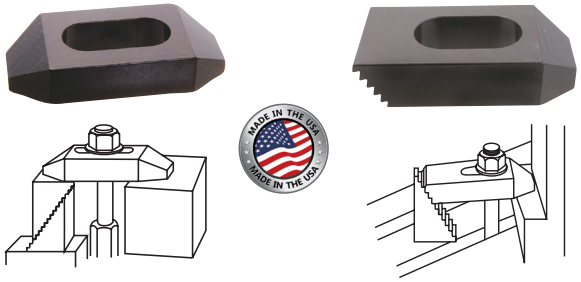


High Grip

Item No.	A	B	C	D	E	F	G	H
Low Grip								
NTC-41051	4 1/16	13/16	1/8	2	1/4	7/8	1 1/2	1/4
NTC-41052	5 1/2	13/16	1/2	2 3/4	1/4	7/8	1 1/2	1/4
High Grip								
NTC-41061	4 1/16	13/16	1/8	2	7/8	7/8	1 1/2	7/8
NTC-41062	5 1/2	13/16	1/2	2 3/4	7/8	7/8	1 1/2	7/8

MACHINE STRAP CLAMPS & ACCESSORIES

Plain and Positive Grip Step Clamps



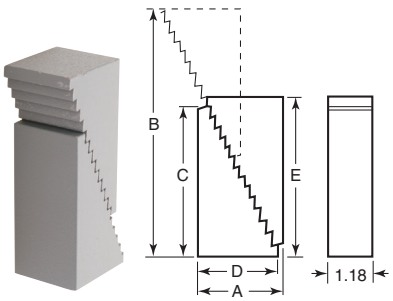
Plain Grip | Positive Grip

Machined from solid bar stock, case hardened and black oxide finish. When used in conjunction with step setup blocks, positive grip step clamps simplify and quicken setting up operations considerably. Eliminates shimming to obtain the right height.

Plain Item No.	Positive Item No.	Bolt Size	OAL	Width	Thickness	Slot Length
CP-1	CS-1	5/16 or 3/8	2 1/2	1	1/2	1 1/4
CP-2	CS-2	5/16 or 3/8	4	1	5/8	1 7/8
CP-3	CS-3	5/16 or 3/8	6	1 1/8	3/4	2 5/8
CP-4	CS-4	1/2	2 1/2	1 1/8	1/2	1 1/4
CP-5	CS-5	1/2	4	1 1/4	3/4	1 7/8
CP-6	CS-6	1/2	6	1 1/4	7/8	2 5/8
CP-7	CS-7	5/8	2 1/2	1 1/4	5/8	1 1/4
CP-8	CS-8	5/8	4	1 1/2	3/4	1 7/8
CP-9	CS-9	5/8	6	1 1/2	7/8	2 5/8
CP-10	CS-10	3/4	4	1 1/2	3/4	1 7/8
CP-11	CS-11	3/4	6	1 5/8	1	2 3/4
CP-12	CS-12	3/4	8	1 3/4	1 1/8	3

Note: Clamps for 5/16, 3/8, 1/2 and 5/8 bolts work with metric bolts M8, M10, M12 and M16 respectively.

AMF Universal Step Blocks



Tempered steel, varnished finish. Step increments are vertically .183" and horizontally .091". Step blocks sold individually. For use with AMF step clamps AMF-17 and 18.

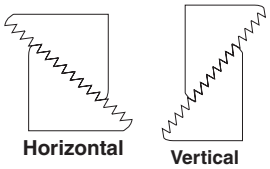
Item No.	A	B	C	D	E
AMF-40	.87	2.01	1.30	.75	1.50
AMF-41	1.54	4.21	2.60	1.40	2.76
AMF-42	2.80	8.19	5.16	2.68	5.32

Reid Select Positive Grip Step Setup Blocks Steel or Aluminum

Two triangular pieces make up one block.

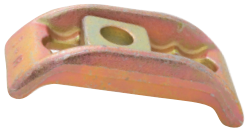
Steel Item No.	Aluminum Item No.	Range	Width
1-S	1-A	3/4 to 1 1/2	1
2-S	2-A	1 1/8 to 2 1/2	1
3-S	3-A	2 1/2 to 6	1
4-S	—	1 3/4 to 3 3/4	1 1/2
5-S	—	2 1/2 to 6	1 1/2
6-S	—	3 1/2 to 9	1 1/2
7-S	—	1 3/4 to 3 3/4	2
8-S	—	2 1/2 to 6	2
9-S	—	3 1/2 to 9	2



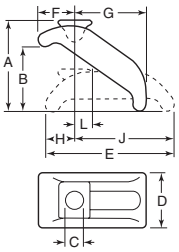


Horizontal | Vertical

AMF Stepless Universal Height Clamps

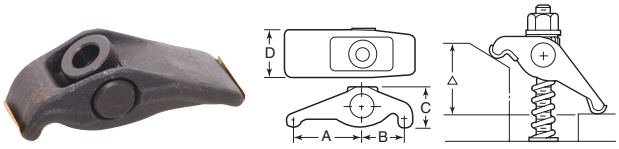


Quickly adapts to various clamping heights without supports or blocks. Allows for quick set-ups. Holds work on planers, boring mills, milling machines and other applications. Made from hardened steel, yellow passivated.



Item No.	A	B	C	D	E	F	G	H	J	L
AMF-6	2.24	0 - 1.38	.51	1.50	3.47	1.10	1.89	.91	2.68	.55
AMF-7	3.54	0 - 2.17	.71	2.21	5.12	1.50	2.91	1.14	3.98	.71
AMF-8	4.06	0 - 2.56	.87	2.60	5.51	1.81	3.15	1.26	4.41	.79

One Piece Adjustable Clamps



Forged steel clamp offers instant height adjustment without blocks or shims. One piece assembly allows quick setups. Removable brass shims protect machine table and work piece. Clamp swings 90 degrees in either direction for loading clearance.

Item No.	A	B	C	D	Stud Size	Clamping Range
USC-40	1 7/8	1 1/8	1	1 1/4	3/8	0-1 3/4
USC-50	2 5/16	1 7/16	1 7/16	1 5/8	1/2	0-2 1/16
USC-60	3 1/4	2	1 7/8	1 7/8	5/8	0-3
USC-70	3 1/2	2 1/8	2 1/4	2 5/8	3/4	0-4 1/4

Bessey® Rite Hite Self Positioning Hold Down Clamps



These clamps have instant adjustment up to 5". The main body of the clamp will move from 0" to whatever the max. height of the particular clamp is, instantly. Two models are available; longer reach for normal requirements and shorter reach where table space is at a premium. Up to 65,000 lbs. load limits. Clamps have a rocker design which allows for "instant set-ups" when held in place by a T-nut in a T-slot.

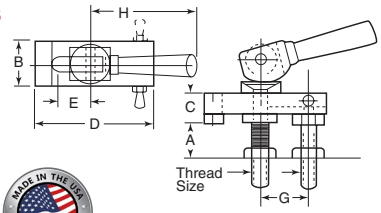
Item No.	Max. Stud Size	Clamping Range	Dimensions	Load Limit Lbs.
Longer Reach				
JMC-375	3/8	0 - 5	1 1/8 x 3 1/2	7,000
JMC-500	1/2	0 - 2 1/2	1 7/16 x 5 3/4	8,800
JMC-625	5/8	0 - 3 1/2	1 7/8 x 6 3/4	14,500
JMC-750	3/4	0 - 5	2 1/8 x 9	24,000
Shorter Reach				
JMC-376	3/8	0 - 1	1 1/8 x 3	8,800
JMC-501	1/2	0 - 1 3/4	1 3/8 x 4 1/4	13,200
JMC-626	5/8	0 - 2 3/4	1 7/8 x 5 1/2	19,000

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MACHINE STRAP CLAMP ASSEMBLIES

Center Cam Single End Clamp Assemblies

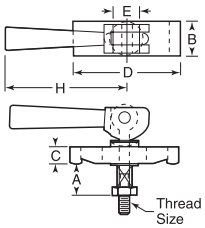




Item No.	A	B	C	D	E	G	H	Thread
ACA-305	3/4	5/8	3/8	2	5/8	7/8	2 1/2	1/4-20
ACA-307	3/4	5/8	3/8	2 1/2	1	7/8	2 1/2	1/4-20
JCA-12513	1 1/8	7/8	1/2	2 1/2	3/4	1 1/4	3 7/16	5/16-18
JCA-12514	1 1/8	7/8	1/2	3 1/2	1 1/4	1 1/4	3 7/16	5/16-18
JCA-12515	1 1/2	1 1/4	5/8	3 1/2	1 1/8	1 7/16	3 7/16	3/8-16
JCA-12516	1 1/2	1 1/4	5/8	4 1/2	1 5/8	1 7/16	3 7/16	3/8-16
ACA-332	1 3/8	1 1/2	3/4	4 1/2	1 1/4	1 7/8	5	1/2-13
JCA-12518	1 3/8	1 1/2	3/4	6	2	1 7/8	5	1/2-13
JCA-12519	1 5/8	1 3/4	7/8	5	1 1/2	1 15/16	5 1/16	5/8-11

Center Cam Double End Clamp Assemblies



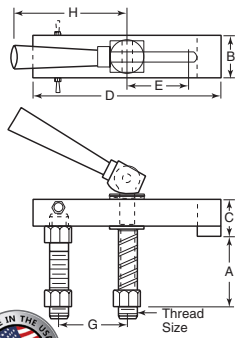


Item No.	Jergens	A	B	C	D	E	H	Thread
ACA-350	12523	1 3/8	1 1/2	3/4	4	1 1/4	5	1/2-13
ACA-354	12524	1 3/8	1 1/2	3/4	5	1 1/4	5	1/2-13
ACA-368	12526	1 5/8	1 5/8	7/8	6	1 1/2	5 1/16	5/8-11

Double Cam Clamp Assemblies



Features fast-action, light duty holding of plain surface work where quick movements are required in a restricted space. Long end slot for lateral adjustment. Spring loaded stud member under sturdy double cam lever.

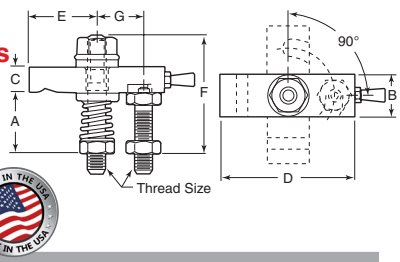


Item No.	A	B	C	D	E	G	H	Thread
JCA-12501*	5/8	5/8	1/2	2	5/8	7/8	2 1/2	1/4-20
JCA-12502	1 5/16	1 1/4	7/8	3 1/2	1 1/8	1 7/16	3 7/16	3/8-16

Note: G dimension represents an optimum dimension.

Radius Swing Clamp Assemblies

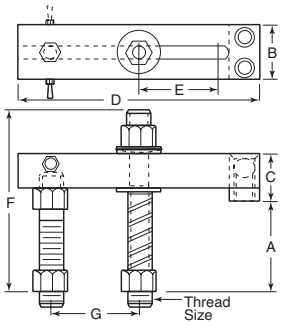




Item No.	A	B	C	D	E	F	G	Thread
JCA-14123	7/8	5/8	3/8	2	1	1 5/8	11/16	1/4-20
JCA-14125	1 3/4	1 1/4	5/8	3 1/2	1 1/2	2 15/16	1 1/4	3/8-16
JCA-14128	1 1/2	1 1/2	3/4	4 1/2	1 13/16	3	1 15/16	1/2-13
JCA-14134	2 1/4	1 3/4	1	5	2 1/16	4 3/8	2 3/16	3/4-10

Flange Nut Clamp Assemblies





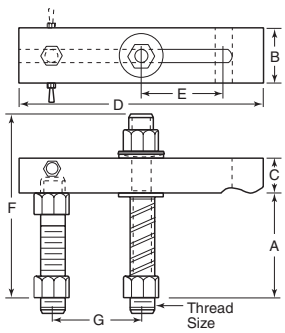
Used where high clamping pressures are needed and vibration could cause loosening. They have a spherical flange nut and washer for greater flexibility. Extra long, true milled slot allows more clearance for placing and removing work.

Item No.	A	B	C	D	E	F	G	Thread
JCA-12701*	3/4	5/8	1/2	2	5/8	1 5/8	7/8	1/4-20
JCA-12703	1 1/2	1 1/4	7/8	3 1/2	1 1/8	2 15/16	1 7/16	3/8-16
JCA-12705	1 1/2	1 1/4	7/8	4 1/2	1 5/8	2 15/16	1 15/16	3/8-16
JCA-12707	1 1/8	1 1/2	1 1/8	4 1/2	1 1/4	3	2 1/8	1/2-13
JCA-12710	1 1/8	1 1/2	1 1/8	6	2	3	2 7/8	1/2-13
JCA-12711	2 5/8	1 3/4	1 3/8	5	1 1/2	5 1/16	2 1/8	5/8-11
JCA-12713	2 5/8	1 3/4	1 3/8	7	2 1/2	5 1/16	3 1/8	5/8-11
JCA-12714	1 3/4	1 3/4	1 1/2	5	1 1/2	4 3/8	2 1/8	3/4-10
JCA-12716	1 3/4	1 3/4	1 1/2	7	2 1/2	4 3/8	3 1/8	3/4-10

Note: G dimension represents an optimum dimension.

Radius End Flange Nut Clamp Assemblies



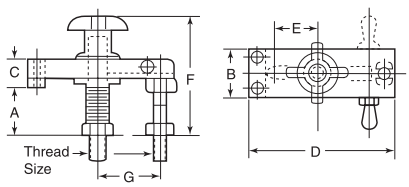


For heavy duty clamping of plain surfaces with spherical flange nut and washer for angular flexibility. Radius end strap and spring loaded stud for quick release.

Item No.	A	B	C	D	E	F	G	Thread
JCA-14103	7/8	5/8	3/8	2	5/8	1 5/8	7/8	1/4-20
JCA-14105	1 3/4	1 1/4	5/8	3 1/2	1 1/8	2 15/16	1 7/16	3/8-16
JCA-14108	1 1/2	1 1/2	3/4	4 1/2	1 1/4	3	1 7/8	1/2-13
JCA-14111	3 1/8	1 3/4	7/8	5	1 1/2	5 1/16	2	5/8-11
JCA-14114	2 1/4	1 3/4	1	5	1 1/2	4 3/8	2 1/8	3/4-10

Strap Clamp Assemblies





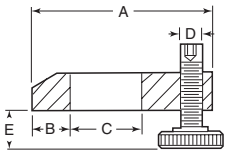
Spherical washers compensate for irregularities between clamp strap and part being clamped allowing for more rigid clamping. Double end clamp straps can be used for clamping flat work pieces or they can be inverted for holding round work pieces in V-blocks or other nesting arrangements. All parts (except jam nuts) are heat treated steel with black oxide finish.

Item No.	A	B	C	D	E	F	G	Thread Size
ACA-107	7/8	5/8	3/8	2 1/2	1	2 1/4	7/8	1/4-20
JCA-13515	1 3/4	1 1/4	5/8	3 1/2	1 1/8	3 1/2	1 7/16	3/8-16
JCA-13516	1 3/4	1 1/4	5/8	4 1/2	1 5/8	3 1/2	1 7/16	3/8-16

MACHINE STRAP CLAMPS & ACCESSORIES

AMF Strap Clamps
Plain with Adjusting Screw





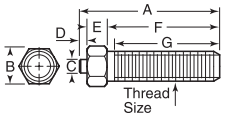
Best suited for low work pieces. Clamping height is easily adjusted with adjusting screw. Adjusting screw (included) has knurled screw or socket head. Made from tempered steel, varnished finish.

Item No.	A	B	C	D	E	Slot Width
AMF-1	3.94	.83	1.58	M12	.39 - 1.81	.55
AMF-2	4.92	1.02	1.77	M16	.51 - 2.05	.71
AMF-3	6.30	1.18	2.36	M20	.63 - 2.56	.87

Note: Clamping Range depends on depth of slot and position of fixture nut

Clamp Rests



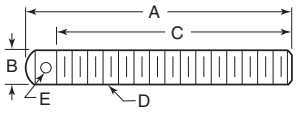


Item No.	A	B	C	D	E	F	G	Thread Size
ACA-200	1 1/4	7/16	5/32	5/64	11/64	1	29/32	1/4-20
ACA-205	1 7/8	1/2	7/32	3/16	7/32	1 15/32	1 5/16	5/16-18
ACA-220	2 1/2	9/16	11/32	5/32	11/32	2	1 13/16	3/8-16
ACA-225	2 3/8	7/8	11/32	3/16	1/2	1 11/16	1 1/2	1/2-13
ACA-230	3 7/8	9/16	11/32	5/32	11/32	3 3/8	3 3/16	3/8-16
ACA-235	3 7/8	7/8	11/32	3/16	1/2	3 3/16	3	1/2-13
ACA-240	2 5/8	7/8	11/32	3/16	1/2	1 15/16	1 11/16	5/8-11
ACA-245	3 27/32	7/8	11/32	3/16	1/2	3 5/32	2 15/16	5/8-11
ACA-250	2 3/4	7/8	11/32	3/16	1/2	2 1/16	1 7/8	3/4-10
ACA-255	3 1/2	7/8	11/32	3/16	1/2	2 13/16	2 3/8	3/4-10

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Morton Machine Works Adjustable Clamp Rests



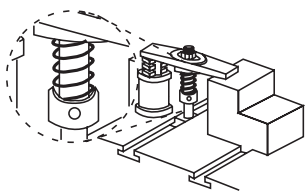


Item No.	A	B	C	D	E
CSS-6205	1	.190	3/4	10-32	1/16
CSS-6256	1	1/4	11/16	1/4-20	5/64
CSS-6258	1 1/2	1/4	1 3/16	1/4-20	5/64
CSS-6320	1 5/8	5/16	1 3/8	5/16-18	3/32
CSS-6321	1 7/8	5/16	1 5/8	5/16-18	3/32
CSS-6382	1 5/8	3/8	1 3/8	3/8-16	1/8
CSS-6384	2 5/8	3/8	2 3/8	3/8-16	1/8

TE-CO Strap Clamp Spring Lifters

Designed to speed set-ups wherever strap clamps are used. Spring lifter slides over T-slot bolt or stud and is held by tightening the set screw on locking collar. The strap clamp rests on the support collar and the spring holds the clamp just above the final tightened height, permitting the work to be quickly and easily slid underneath.





Item No.	Fits Dia.	Item No.	Fits Dia.
SCL-801	1/4	SCL-805	5/8
SCL-803	3/8	SCL-806	3/4
SCL-804	1/2		

CYLINDRICAL FIXTURE MAGNET ASSEMBLY


A


B


C


D


E


F



G


H


I


J


K


M

Cylindrical fixture magnets provide high holding values in a compact design. They can be used in fixtures, jigs, panel mounts, end of retrieving tools, hold work on machines, catches/latches, insert molding, etc. Use non-ferrous bolts for mounting.

A: Powerful compact magnet that is insulated for press fit or use tapped hole for mounting.
B: Extended poles can be lightly machined. Insulated for press fit or use tapped thru-hole for mounting.
C: Extended poles can be lightly machined. Insulated for press fit or use thru-hole for mounting.
D: Maximum strength in a compact design. Insulated for press fit or use thru-holes for mounting.
E: Extended poles can be lightly machined. Press fit for all, some have tapped hole for mounting.
F: Extended poles can be lightly machined. Insulated for press fit or use tapped hole for mounting.
G: Alcomax magnet pressed into a steel cup. Painted red. Supplied with keepers on the face.
H: Extremely powerful and compact. Ideal for shallow fixtures. Encased in durable steel cup.
I: Extremely powerful magnet designed for press fit applications using metric sizes.
J: Extremely powerful flush face magnet. Insulated for press fit or use tapped hole or thru-hole for mounting.
K: Extended poles can be lightly machined. Press fit for all, use tapped hole or thru-hole for mounting.
M: Neodymium 42 magnet with a nickel plate. Accuracy tolerance of 0.005.

Magnet Material Specifications:

- Rare earth magnets are heat resistant up to 200°F (94°C)
- Ceramic magnets are heat resistant up to 300°F (148°C)
- Alcomax magnets are heat resistant up to 800°F (427°C)
- Neodymium magnets are heat resistant up to 180°F (82°C)

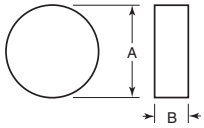
Item No.	Style	Holding Value (Lbs.)	Diameter	Length	Hole Size	Hole Depth
1 Pole - Rare Earth Magnet - Insulated Aluminum Cup - Press Fit or Tapped Blind Hole						
IM-125	A	0.5	1/4	1/2	6-32	1/4
IM-126	A	2.6	3/8	1/2	8-32	1/4
IM-127	A	5.3	1/2	1/2	10-24	1/4
IM-128	A	8.7	5/8	1/2	10-24	1/4
IM-129	A	12	3/4	1/2	10-24	1/4
IM-130	A	15	1	1/2	1/4-20	1/4
3 Pole - Rare Earth Magnet - Insulated Aluminum Cup - Press Fit or Tapped Thru Hole						
IM-131	B	15.5	1	3/4	1/4-20	–
IM-132	B	26	1 1/4	3/4	5/16-18	–
4 Pole - Rare Earth Magnet - Insulated Aluminum Cup - Press Fit or Thru Hole						
IM-133	C	45	2	1/2	1/4	–
IM-134	C	50	2	3/4	1/4	–
IM-135	C	60	2	1	1/4	–
IM-136	C	90	2 1/2	1	1/4	–
3 Pole - Rare Earth Magnet - Insulated Aluminum Cup - Press Fit or Thru Hole						
IM-137	D	145	3	1	1/4	–
2 Pole - Ceramic Magnet - Insulated Aluminum Cup - Press Fit						
MAG-2	E	0.4	1/4	1/2	–	–
MAG-4	E	0.5	1/4	3/4	–	–
MAG-6	E	1	3/8	1/2	–	–
MAG-8	E	2	3/8	3/4	–	–
MAG-10	E	2.5	3/8	1	–	–
MAG-12	E	3	1/2	1/2	–	–
MAG-14	E	4	1/2	3/4	–	–
MAG-16	E	5	1/2	1	–	–
2 Pole - Ceramic Magnet - Insulated Aluminum Cup - Press Fit or Tapped Blind Hole						
MAG-62	E	3	5/8	1/2	8-32	3/16
MAG-64	E	7	5/8	3/4	8-32	3/16
MAG-66	E	8	5/8	1	8-32	3/16
MAG-68	E	4	3/4	1/2	10-32	3/16
MAG-70	E	12	3/4	3/4	10-32	3/16
MAG-72	E	17	3/4	1	10-32	3/16
MAG-74	E	20	3/4	1 1/4	10-32	3/16
MAG-76	E	3.3	1	1/2	1/4-20	1/4
MAG-78	E	15	1	3/4	1/4-20	1/4
MAG-80	E	23	1	1	1/4-20	1/4
MAG-84	E	32	1	1 1/2	1/4-20	1/4
MAG-86	E	10	1 1/4	1/2	1/4-20	3/16
MAG-88	E	24	1 1/4	3/4	1/4-20	3/16
MAG-90	E	32	1 1/4	1	1/4-20	1/4
MAG-92	E	40	1 1/4	1 1/4	1/4-20	1/4
MAG-94	E	48	1 1/4	1 1/2	1/4-20	1/4
3 Pole - Ceramic Magnet - Insulated Aluminum Cup - Press Fit or Tapped Blind Hole						
MAG-100	F	8	5/8	1/2	8-32	3/16
MAG-102	F	13	5/8	3/4	8-32	3/16
MAG-104	F	14	5/8	1	8-32	3/16
MAG-106	F	10	3/4	1/2	10-32	3/16
MAG-108	F	18	3/4	3/4	10-32	3/16
MAG-110	F	23	3/4	1	10-32	3/16
MAG-112	F	24	3/4	1 1/4	10-32	3/16
MAG-114	F	10	1	1/2	1/4-20	3/16
MAG-116	F	32	1	3/4	1/4-20	3/16
MAG-118	F	42	1	1	1/4-20	1/4
MAG-120	F	43	1	1 1/4	1/4-20	1/4
MAG-122	F	45	1	1 1/2	1/4-20	1/4
2 Pole - Alcomax III Magnet - Mild Steel Cup - Press Fit or Tapped Thru Hole						
830NF	G	4	1/2	5/8	M4	–
831NF	G	6	11/16	5/8	10-32	–
832NF	G	9	13/16	3/4	10-32	–
833NF	G	14	1 1/16	1	10-32	–
834NF	G	44	1 3/8	13/16	10-32	–
2 Pole - Rare Earth Magnet - Steel Cup - Press Fit or Tapped Blind Hole						
IM-61	H	6	3/8	1/2	8-32	.085
IM-63	H	16	1/2	1/2	10-32	.15
IM-65	H	44	3/4	1/2	10-32	.15
IM-67	H	92	1	1/2	1/4-20	.15
IM-69	H	102	1 1/4	1/2	5/16-18	.15
2 Pole - Rare Earth Magnet - Insulated Brass Cup - Press Fit						
IM-316	I	0.9	6	20	–	–
IM-317	I	4.4	10	20	–	–
IM-318	I	6.6	13	20	–	–
IM-319	I	13.8	16	20	–	–
2 Pole - Rare Earth Magnet - Insulated Cup - Press Fit and Tapped Blind Hole						
IM-75	J	36	3/4	1 3/16	1/4-20	1/4
IM-77	J	86	1	1 5/16	1/4-20	5/16
IM-81	J	204	1 1/2	2 1/16	5/16-18	5/16
IM-83	J	344	2	2 7/8	3/8-16	5/16
3 Pole - Ceramic Magnet - Insulated Aluminum Cup - Tapped Thru Hole						
MAG-208	K	10	1	1/2	8-32	–
MAG-210	K	27	1	3/4	8-32	–
MAG-212	K	30	1	1	8-32	–
MAG-214	K	33	1	1 1/4	8-32	–
MAG-218	K	10	1 1/4	1/2	10-32	–
MAG-220	K	33	1 1/4	3/4	10-32	–
MAG-222	K	50	1 1/4	1	10-32	–
MAG-224	K	61	1 1/4	1 1/4	10-32	–
MAG-226	K	66	1 1/4	1 1/2	10-32	–
MAG-224	K	61	1 1/4	1 1/4	10-32	–
MAG-226	K	66	1 1/4	1 1/2	10-32	–
Neodymium 42 Magnet - Nickel Plated - Tapped Blind Hole						
MAG-1152	M	20.3	0.74	0.32	M5	0.19
MAG-1156	M	26.5	1.26	0.32	M5	0.19
MAG-1158	M	34.0	0.98	0.32	-	-

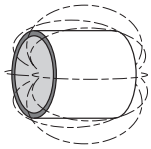
DISC & CYLINDRICAL MAGNETS

Plug Style Magnets
Neodymium 42, 50

EXPANDED LINE







Magnetic Field Pattern

All Neodymium-Iron-Boron plugs are nickel plated to protect the brittle magnet material and avoid corrosion. They are commonly used in miniature applications such as linear actuators, sensing applications, gyroscopes, flow meters, recording devices, pacemakers, and alternators. Temperature range is -100 to +180 degree Fahrenheit (-73 to 93 degree Celsius) unless noted. All measurements are in inches and tolerances are ±.005.

Item No.	A	B	Approximate Holding Value Lbs.
Neodymium 42			
MAG-1090	0.12	0.51	0.8
MAG-1092	0.12	0.79	0.9
MAG-442	0.12	0.06	0.5
MAG-1096	0.16	0.24	1.3
MAG-444	0.19	0.06	0.9
MAG-1088	0.20	0.79	2.2
MAG-1162	0.20	0.39	2.1
MAG-1176	0.20	1.18	2.3
MAG-448	0.22	0.25	2.6
MAG-446	0.22	0.10	1.7
MAG-450	0.22	0.50	3.0
MAG-1020	0.24	0.04	0.7
MAG-1022	0.24	0.04	0.7
MAG-1128	0.24	0.32	3.1
MAG-452	0.25	0.10	2.0
MAG-454	0.25	0.13	2.3
MAG-456	0.25	0.20	3.0
MAG-458	0.25	0.25	3.2
MAG-460	0.25	0.50	3.8
MAG-1064	0.32	0.04	0.9
MAG-1068	0.32	0.08	1.8
MAG-1066	0.32	0.04	0.9
MAG-1070	0.32	0.08	1.8
MAG-1072	0.32	1.18	6.2
MAG-1116	0.32	0.79	6.0
MAG-462	0.32	0.25	4.9
MAG-464	0.38	0.06	1.7
MAG-466	0.38	0.10	3.1
MAG-468	0.38	0.13	3.8
MAG-470	0.38	0.25	6.1
MAG-472	0.38	0.50	7.9
MAG-375375	0.38	0.38	6.7
MAG-1024	0.39	0.04	1.1
MAG-1164	0.39	0.20	6.0
MAG-1178	0.39	0.16	4.9
MAG-1182	0.39	0.12	3.5
MAG-1026	0.39	0.04	1.1
MAG-1130	0.39	0.08	2.2
MAG-1028	0.39	0.04	1.1
MAG-1132	0.39	0.08	2.2
MAG-1094	0.39	0.39	8.2
MAG-1118	0.39	0.79	9.7
MAG-1120	0.39	1.18	10.6
MAG-1108	0.47	0.08	2.9
MAG-1030	0.47	0.04	1.4
MAG-1032	0.47	0.04	1.4
MAG-474	0.50	0.06	2.1
MAG-476	0.50	0.20	7.9
MAG-478	0.50	0.25	9.3
MAG-480	0.50	0.38	11.6
MAG-500125	0.50	0.13	5.1
MAG-500187	0.50	0.19	9.1
MAG-500500	0.50	0.50	12.0
MAG-1144	0.55	0.20	0.7
MAG-1104	0.55	0.16	6.8
MAG-1034	0.59	0.04	1.8
MAG-1138	0.59	0.16	7.3
MAG-1036	0.59	0.04	1.8
MAG-1038	0.59	0.04	1.8
MAG-1110	0.71	0.12	7.5
MAG-1180	0.75	0.20	13.2
MAG-750250	0.75	0.25	14.0
MAG-750375	0.75	0.38	19.5
MAG-750500	0.75	0.50	23.0
MAG-1146	0.79	0.20	0.9
MAG-1010	0.79	0.08	6.2
MAG-1084	0.79	0.20	14.1
MAG-1124	0.79	0.79	44.8
MAG-1134	0.79	0.12	7.9
MAG-1136	0.79	0.04	2.4
MAG-1142	0.79	0.02	1.0
MAG-1166	0.79	0.39	24.3
MAG-1100	0.87	0.39	28.7
MAG-1140	0.87	0.24	18.7
MAG-1102	0.98	0.39	34.2
MAG-1000187	1.00	0.19	22.3
MAG-1000250	1.00	0.25	20.0
MAG-1000500	1.00	0.50	35.0
MAG-1106	1.58	1.97	30.9

Item No.	A	B	Approximate Holding Value Lbs.
Neodymium 50			
MAG-550	3/16	.06	1.3
MAG-552	.22	.10	2.3
MAG-554	1/4	.10	2.7
MAG-556	1/4	1/4	4.4
MAG-558	3/8	.10	4.2
MAG-560	1/2	1/4	12.7

Cup / Cylindrical / Disc

Item No.	
KMAG-11	CERAMIC MAGNET-25MM DIAM.-M4 INT.
KMAG-12	CERAMIC MAGNET-32MM DIAM.-M4 INT.
KMAG-13	CERAMIC MAGNET-40MM DIAM.-M5 INT.
KMAG-14	CERAMIC MAGNET-50MM DIAM.-M6 INT.
KMAG-15	CERAMIC MAGNET-63MM DIAM.-M8 INT.
KMAG-16	CERAMIC MAGNET-80MM DIAM.-M10 INT.
KMAG-17	CERAMIC MAGNET-99MM DIAM.-M12 INT.
KMAG-18	CERAMIC MAGNET-125MM DIAM.-M14 INT.
KMAG-19	NEODYM. MAGNET-8MM DIAM.-M3 INT.
KMAG-20	NEODYM. MAGNET-10MM DIAM.-M4 INT.
KMAG-21	NEODYM. MAGNET-13MM DIAM.-M4 INT.
KMAG-22	NEODYM. MAGNET-16MM DIAM.-M4 INT.
KMAG-23	NEODYM. MAGNET-20MM DIAM.-M5 INT.
KMAG-24	NEODYM. MAGNET-25MM DIAM.-M6 INT.
KMAG-25	NEODYM. MAGNET-35MM DIAM.-M8 INT.
KMAG-26	NEODYM. MAGNET-50MM DIAM.-M12 INT.
KMAG-27	NEODYM. MAGNET-6MM DIAM.-NO THREAD
KMAG-28	NEODYM. MAGNET-8MM DIAM.-NO THREAD
KMAG-29	NEODYM. MAGNET-10MM DIAM.-NO THREAD
KMAG-30	NEODYM. MAGNET-13MM DIAM.-NO THREAD
KMAG-31	NEODYM. MAGNET-16MM DIAM.-NO THREAD
KMAG-32	NEODYM. MAGNET-20MM DIAM.-NO THREAD
KMAG-33	NEODYM. MAGNET-25MM DIAM.-NO THREAD
KMAG-34	NEODYM. MAGNET-32MM DIAM.-NO THREAD
KMAG-35	NEODYM. MAGNET-6MM DIAM.-M3 INT.
KMAG-36	NEODYM. MAGNET-8MM DIAM.-M3 INT.-SHALLOW
KMAG-37	NEODYM. MAGNET-10MM DIAM.-M3 INT.
KMAG-38	NEODYM. MAGNET-13MM DIAM.-M3 INT.
KMAG-39	NEODYM. MAGNET-16MM DIAM.-M4 INT.-SHALLOW
KMAG-40	NEODYM. MAGNET-20MM DIAM.-M4 INT.
KMAG-41	NEODYM. MAGNET-25MM DIAM.-M4 INT.
KMAG-42	NEODYM. MAGNET-32MM DIAM.-M5 INT.-SHALLOW
KMAG-43	NEODYM. MAGNET-40MM DIAM.-M6 INT.-SHALLOW
KMAG-44	NEODYM. MAGNET-47MM DIAM.-M6 INT.-SHALLOW
KMAG-45	NEODYM. MAGNET-50MM DIAM.-M8 INT.-SHALLOW
KMAG-46	NEODYM. MAGNET-10MM DIAM.-M3 EXT.
KMAG-47	NEODYM. MAGNET-13MM DIAM.-M5 EXT.
KMAG-48	NEODYM. MAGNET-16MM DIAM.-M6 EXT.
KMAG-49	NEODYM. MAGNET-20MM DIAM.-M6 EXT.
KMAG-50	NEODYM. MAGNET-25MM DIAM.-M6 EXT.
KMAG-51	NEODYM. MAGNET-32MM DIAM.-M6 EXT.
KMAG-52	NEODYM. MAGNET-40MM DIAM.-M8 EXT.
KMAG-53	NEODYM. MAGNET-47MM DIAM.-M8 EXT.



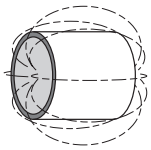




Rare earth magnets are used because of their high strength-to-weight properties.

Rare Earth Magnets Shielded





Magnetic Field Pattern

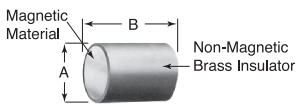
Features:

- The insulator prevents loss of magnetic flux when inserted into steel components or fixtures
- Shielded magnets supply holding force in limited areas of steel tools, dies and fixtures

Item No.	Dia. -0.005	Lgth. -0.015	Insulator Thickness	Max. Pull Lbs.
IM-27	1/8	1/4	0.018	.20
IM-28	3/16	1/4	0.032	.54
IM-29	1/4	1/4	0.032	1.3
IM-30	1/4	1/2	0.032	1.50
IM-31	5/16	1/4	0.032	2.00
IM-32	3/8	3/8	0.032	5.00
IM-35	1/2	1/4	0.062	4.30
IM-36	1/2	1/2	0.062	7.00
IM-37	3/4	3/8	0.062	10.00

Alnico Magnets Shielded

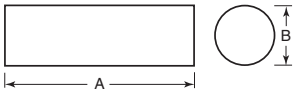




Used to supply holding force in limited areas of steel tools, dies and fixtures. The shield prevents undue loss of magnetic strength when inserted directly into steel components.

Item No.	A	B	Insulator Thickness	Max. Pull Lbs.
IM-38	3/16	1/4	.018	.050
IM-39	3/16	1/2	.018	.080
IM-41	1/4	1/4	.032	.110
IM-45	1/4	1/2	.032	.280
IM-47	5/16	1/4	.032	.120
IM-49	5/16	1/2	.032	.350
IM-51	3/8	3/8	.032	.200
IM-53	3/8	3/4	.032	.400
IM-57	1/2	1/2	.032	.450
IM-59	3/4	3/4	.062	.136

Cylindrical Bar Magnets Alcomax

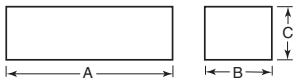




No keepers.

Item No.	A	B
E805	51/64	1/4
E806	63/64	5/16
E807	1 3/16	25/64

Rectangular Bar Magnets Alcomax



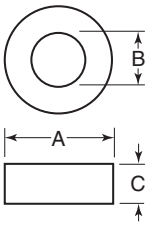


No keeper.

Item No.	A	B	C
E844	51/64	25/64	13/64
E845	1 37/64	1/2	13/64
E846	2 23/64	39/64	13/64

Rare Earth Magnets Ceramic Ring

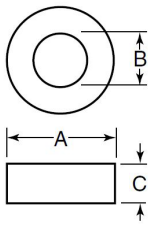




Item No.	A	B	C
MAG-1160	0.700	0.200	0.400
IM-14	.750	.271	.250
IM-16	1.230	.885	.431
IM-18	1.723	.705	.250
IM-20	2.800	1.203	.590
IM-21	2.875	.875	.250
IM-23	5.250	2.312	.750

Rare Earth Magnets Neodymium 42 Ring

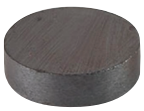


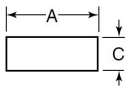


All Neodymium-Iron-Boron magnets are nickel plated to protect the brittle magnet material and avoid corrosion. Maximum operating temperature is 180ºF with an accuracy tolerance of 0.005 in.

Item No.	A	B	C	Polarity	Approximate Holding Value Lbs.
MAG-1018	0.39	0.13	0.20	South	4.63 lbs
MAG-1016	0.40	0.13	0.20	North	4.63 lbs
MAG-1040	0.79	0.12	0.08	North	4.85 lbs
MAG-1048	0.79	0.24	0.40	North	20.72 lbs
MAG-1112	0.79	0.21	0.20	North	10.36 lbs
MAG-1042	0.79	0.12	0.08	South	4.85 lbs
MAG-1050	0.79	0.24	0.39	South	20.72 lbs
MAG-1114	0.79	0.21	0.20	South	10.36 lbs
MAG-1172	0.91	0.24	0.79	North	51.15 lbs
MAG-1174	0.91	0.24	0.79	South	51.15 lbs
MAG-1044	0.98	0.24	0.20	North	13.23 lbs
MAG-1046	0.98	0.24	0.20	South	13.23 lbs

Rare Earth Magnets





Item No.	A	C	Max. Holding Force Lbs.
MAG-1144	0.55	0.2	0.66
MAG-1146	0.79	0.2	0.88

Need A Quote?

Call our excpetional customer service team at (800) 253-0421 or email us at sales@reidsupply.com

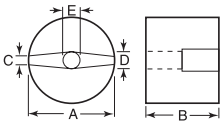
STANDARD QUOTES IN 4 HOURS OR LESS

ALNICO, NEODYMIUM & CERAMIC MAGNETS

Alnico permanent magnets are made from an alloy of aluminum (Al), nickel (Ni) and cobalt (Co) with iron, and may contain trace amounts of copper (Cu) and/or titanium (Ti). Alcomax is a trade name for magnets made from Alnico materials. Alnico magnets provide good magnetic performance at a reasonable cost compared to rare-earth magnets, which feature a higher strength-to-weight performance at a higher price. Alnico magnets are hard, but brittle and require special machining techniques. Magnetic performance is superior to steel magnets, at a sacrifice of some mechanical strength.

Button Magnets Alnico



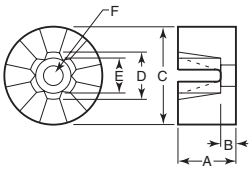


Supplied with keepers.

Item No.	A	B	C	D	E	Pull Lbs.
E821	1/2	3/8	5/32	9/32	11/64	1.5
E822	3/4	1/2	7/32	11/32	3/16	4
E825	7/8	3/4	1/4	1/4	3/16	8
E823	1	5/8	7/32	11/32	3/16	8
E824	1 1/4	1	5/16	1/2	9/32	11

Side Pole Rotor Cast Alnico 5 and 6

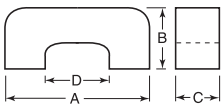




Item No.	Alnico Grade	No. Poles	A	B	C	D	E	F	Holding Force Lbs.
MAG-940	Alnico 5	4	.75	.250	1.000	.500	.500	.250	18
MAG-947	Alnico 5	6	.75	.219	1.250	.625	.625	.250	30

Bridge Magnets Alnico



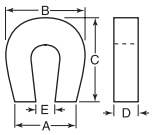


Supplied with keepers.

Item No.	A	B	C	D	Pull Lbs.
E801	7/8	7/16	5/16	1/4	3

Horseshoe Magnets Alnico





Supplied with keeper.

Item No.	A	B	C	D	E	Pull Lbs
E802	7/8	1 1/8	1	5/16	1/4	5

GENERAL® Pocket Horseshoe Magnet Alnico



For retrieving small steel parts and screws from hard to reach places.

Item No.	Size Oz.	Pull Lbs.	Height	Width
GEN-370-1	1	8	1	11/8

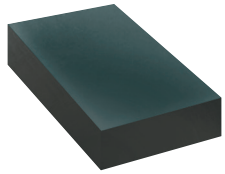
Neodymium Block Magnets



Due to their tremendously high energy level, rare earth magnets are ideal for miniature applications. Popular applications include wind generation, electric motors, packaging, scientific experiments, design and display.

Item No.	Pull (Lbs.)	Length (In.)	Width (In.)	Height (In.)
MAG-1082	1.30	0.59	0.20	0.04
MAG-1052	1.50	0.12	0.12	0.12
MAG-1054	1.50	0.20	0.20	0.08
MAG-1056	2.20	0.39	0.20	0.08
MAG-1080	2.60	0.79	0.24	0.06
MAG-1122	3.50	0.20	0.20	0.20
MAG-1168	7.50	0.98	0.39	0.12
MAG-1008	7.90	0.39	0.39	0.20
MAG-1058	9.00	0.98	0.20	0.20
MAG-1086	10.80	1.97	0.98	0.08
MAG-1012	11.20	0.79	0.39	0.20
MAG-1014	12.10	0.98	0.39	0.20
MAG-1126	18.70	0.59	0.59	0.32
MAG-1062	28.40	3.94	0.79	0.16
MAG-1078	28.70	1.65	0.39	0.32
MAG-1060	39.90	1.97	1.97	0.20
MAG-1098	43.90	1.58	0.79	0.39
MAG-1170	63.10	1.97	0.98	0.39
MAG-1006	94.40	1.97	1.00	0.47

Rare Earth Magnets Ceramic Block Material



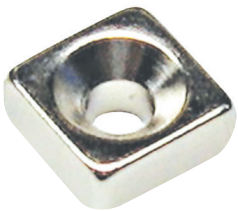
Ceramic magnet is a non-metallic compound of iron oxide, strontium ferrite and small quantities of other metal oxides.

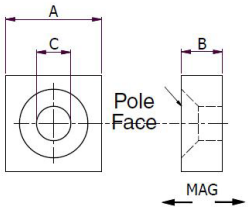
Features:

- Low cost, lightweight, high energy material
- Non-conductive, hard, brittle material
- Performs best at temperatures below 480 degree Fahrenheit (249 degree Celsius)
- Can only be cut with a diamond wheel
- Tolerance 0.005 on all dimensions

Item No.	Pull (Lbs.)	Thickness (In.)	Width (In.)	Length (In.)
IM-467	6.0	.375	7/8	1 7/8
IM-468	5.0	.250	1	2
IM-469	7.0	.500	1	2
IM-470	9.0	.750	1	2
IM-471	11.0	1.000	1	2
IM-472	15.0	1.000	2	2
IM-473	6.5	.187	4	4
IM-474	8.5	.250	4	6
IM-475	8.0	.312	4	4
IM-476	10.5	.375	4	4
IM-477	14.0	.500	4	6
IM-478	18.5	.750	4	6
IM-479	23.5	1.000	4	6

Neodymium 42 Countersunk Magnets

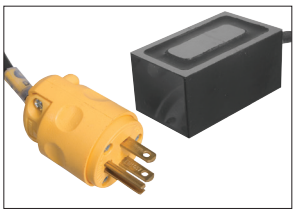


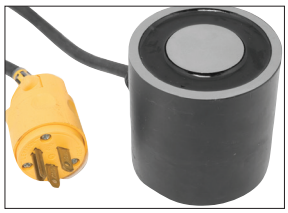


- Extremely versatile and very powerful; neodymium magnet is easily fixed using a simple countersunk screw
- Nickel coated for protection against corrosion
- Maximum operating temperature 180ºF
- Accuracy Tolerance 0.005 in

Item No.	Facing Polarity	A	B	C	Pull (lbf)
MAG-1074	North	0.39	0.20	0.16	7.50
MAG-1076	South	0.39	0.20	0.16	7.50

Electromagnets 120 Vac





Plugs into standard 120 VAC, three hole socket. No additional power source needed for operation. Magnets are encased in potting material inside a steel enclosure with tapped mounting holes. Furnished with a 36" cord and three prong plug. Three prong plug cannot be removed.

Item No.	Dia.	Length	Width	Height	Mount Hole Size	Max. Pull Lbs.	Watts
Round							
IM-200	2	1 5/8	—	—	1/4-20	75	5.2
IM-204	3	3	—	—	5/16-18	185	29
Rectangular							
IM-206	—	2 1/2	1 1/2	1 1/4	10-32	70	14
IM-208	—	4 1/2	2 1/2	1 7/8	1/4-20	455	26

Standard Welding Squares



Holds two pieces at 90 degrees



Extra Heavy Duty



Standard



Adjustable

Features:

- Used for a wide variety of jobs including workholding, welding and assembly
- Ideal for welders that need fast set-up and accurate holding of steel sheet stock, plate and tubing
- IM-343 and IM-344 models feature "Breakaway Handle"
- IM-342 and IM-344 models feature weld spatter resistant covers

Item No.	Description	Length	Height	Width	Pull Lbs.
IM-338	10 Angle	3 3/8	2 9/16	1/2	23
IM-339	Standard	3 3/8	3 3/8	5/8	55
IM-340	Adjustable	6 1/8	3 3/8	5/8	110
IM-341	Standard Heavy Duty	3 3/4	4 3/8	3/4	75
IM-342	Covered Heavy Duty	3 3/4	4 3/8	3/4	75
IM-343*	Extra Heavy Duty	3 3/4	4 3/8	1 1/2	150
IM-344*	Super Heavy Duty	8	8	1 5/8	325

Rare Earth Magnets ON/OFF Squares



On/Off Switch Square

Switchable ON/OFF rare earth magnets are extremely powerful. ON/OFF magnets easily allows debris to fall away. Can be used on flat or round steel or cast iron. Non-marring hold. Featuring magswitch technology.

MagSquares

Simple, fast work-holding on multiple sides. Eliminates the need for tedious clamping. Pre-tapped holes on all sides for mounting jigs, fixtures, forms, etc.

Item No.	Hold (Lbs.)	Ht. (In.)	Width (In.)	Length (In.)
On/Off-Switch Square				
IM-510	150	2 1/2	1 1/2	8
IM-511	550	4	2 1/2	8

You May Also Like


Hoist Rings


Eye Bolts

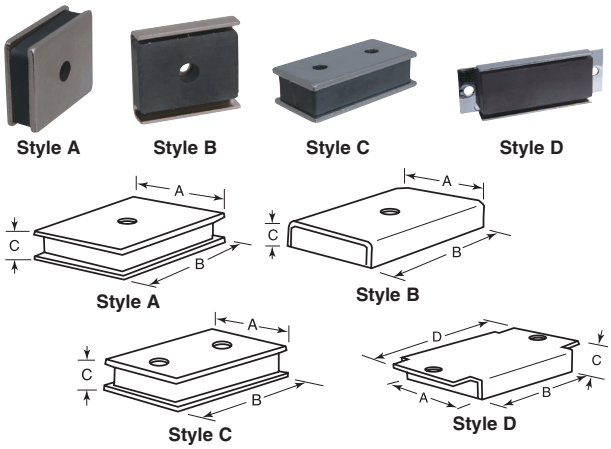

Adjustable Chains

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RECTANGULAR MAGNETIC ASSEMBLIES

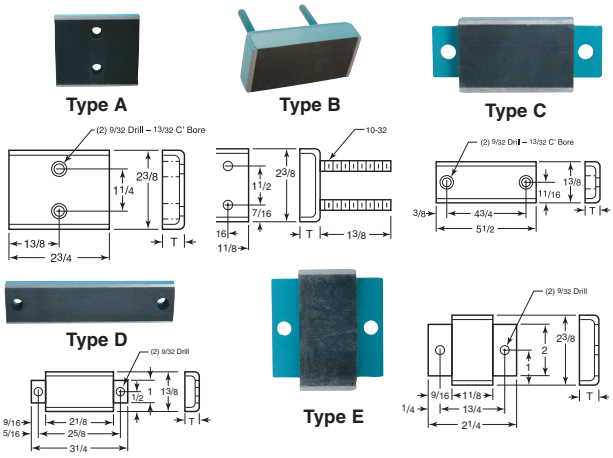
Rectangular Fixturing Magnets



Constructed of steel plates or channels with magnets. Mounting holes provide for easy attachment.

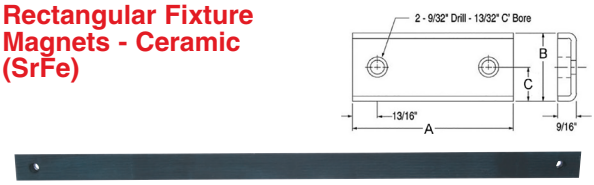
Item No.	Style	A	B	C	D	Hole Dia.	Pull Lbs.
CMA-74	A	.812	1	.312	—	.187	8
CMA-76	B	1	2	.625	—	.187	45
CMA-72	C	.875	1	.250	—	.125	7
CMA-78	D	.937	2	.312	2.625	.160	6

Rectangular Fixturing Magnets Ceramic and Neodymium Two Pole



Item No.	T	Holding Value Lbs.	Type
MAG-302	9/16	80	A
MAG-306	9/16	42	B
MAG-316	9/16	57	C
MAG-320	9/16	108	D
MAG-310	9/16	34	E

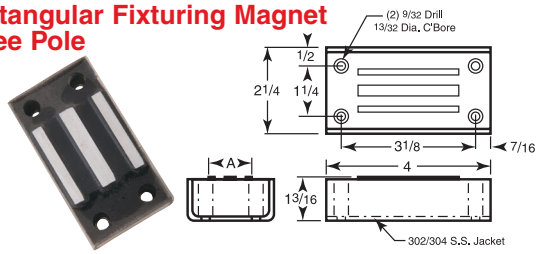
Rectangular Fixture Magnets - Ceramic (SrFe)



Ceramic Holding Assemblies provide a strong magnetic field. The ceramic magnet material possesses high coercive force and resists demagnetization from heat, vibration, and electrical fields. They are typically more economical than Alnico assemblies and can be used in temperatures up to 180ºF. Temperatures higher than 180ºF can cause the standard epoxy that holds the magnet material to fail. These magnets have a tolerance of 0.005.

Item No.	A	B	C	Holding Value Lbs.
MAG-338	12	1.375	0.6875	32
MAG-340	24	1.375	0.6875	32
MAG-344	48	1.375	0.6875	32

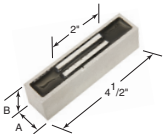
Rectangular Fixturing Magnet Three Pole



Item No.	A	Holding Value Lbs.
MAG-364	1 7/8	250

Rectangular Fixturing Magnets Ceramic and Neodymium Two Pole

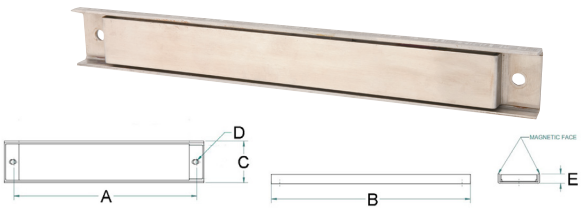




Ideal for holding heavy parts. Effective holding against shear force. High impact epoxy encapsulated. Aluminum insulated. These magnets can be drilled, tapped, milled, sawed or ground at either end for mounting. Do not machine or drill between magnetic poles.

Item No.	A	B	Holding Value Lbs.
Ceramic			
IM-76	1 1/4	1 1/4	75
Neodymium			
IM-74	1	1 1/4	185

Rectangular Fixture Magnet Two Pole

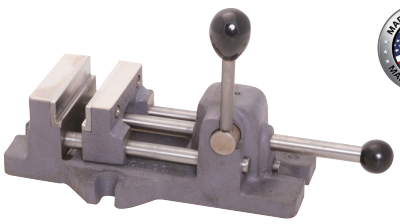


Ceramic magnet material placed in a 400 Stainless Steel channel and covered. This full-length magnetic holding force gives generous room for various fastener heads. Use 10-24 (m5) bolt or screws for mounting this non-corrosive 2-Pole assembly. Maximum temperature 300ºF (148ºC).

Item No.	A	B	C	D	E	Holding Value Lbs.
IM-84	11	12	1.5	0.28	0.34	25
IM-85	11	12	1.5	-	0.575	63
IM-87	11	12	2.5	0.28	0.575	150

Customer Service: (800) 253-0421 • (231) 777-3951
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Heinrich Grip-Master Screwless Vises





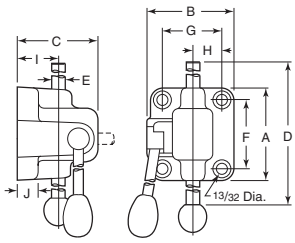
V-Block Attachment
Holds Round Stock

The Grip-Master screwless vise offers many advantages. Instantaneous, effortless setting by simply pushing on the knob controlling the movable jaw. Guaranteed positive locking by light press on locking lever. Built-in, recessed parallels level work. Large loading and unloading capacity. Hardened and ground bars and locking mechanism insure long life. Straight through drilling permitted by extra-wide clearance in base. Hardened and ground V-block attachment available for holding round or oval work securely.

Vises					V-Blocks
Item No.	Jaw Width	Max. Open	Jaw Depth	Parallel Depth	Item No.
GM-1	3	3	1 1/4	5/8	VB-1
GM-2	4	4 11/16	1 1/4	5/8	VB-2
GM-3	6	6 5/16	1 13/16	5/8	—
GM-4	8	8 3/8	2	5/8	VB-4

Heinrich Grip-Master Fixture Locks

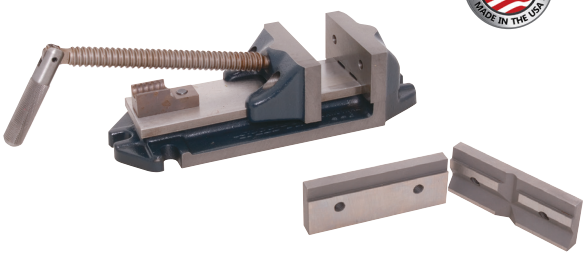




Adaptable to a wide range of applications and simplifies jig and fixture designing and eliminates special locking details. A simple push or pull on the bar knob sets the bar instantaneously at any position between fully open or fully closed. A light press on the locking lever gives an extra forceful forward motion to the bar, exerting a holding pressure, adjustable from 400 to 1,100 pounds. Actually compensates for variations in size of work. Its long stroke assures wide work clearance and permits quick removal of chips and burrs. No screw threads to wear or strip. Hardened and ground bar and locking mechanism. Bar left soft for 1" on work end for easy machining when adapting it to fixture.

Item No.	A	B	C	D	E	F	G	H	I	J
GMF-1	3 5/16	3 3/16	2 7/8	9	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-10	3 5/16	3 3/16	2 7/8	10	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-12	3 5/16	3 3/16	2 7/8	12	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-14	3 5/16	3 3/16	2 7/8	14	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-16	3 5/16	3 3/16	2 7/8	16	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-18	3 5/16	3 3/16	2 7/8	18	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-1-24	3 5/16	3 3/16	2 7/8	24	.493	2 1/2	2 3/16	1 3/32	1 1/2	3/4
GMF-2	4 5/16	3 11/16	3 15/16	10	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4
GMF-2-12	4 5/16	3 11/16	3 15/16	12	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4
GMF-2-14	4 5/16	3 11/16	3 15/16	14	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4
GMF-2-16	4 5/16	3 11/16	3 15/16	16	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4
GMF-2-20	4 5/16	3 11/16	3 15/16	20	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4
GMF-2-24	4 5/16	3 11/16	3 15/16	24	.742	3 1/2	2 7/8	1 7/16	2 1/8	1 1/4

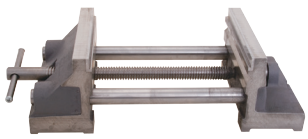
Speed Type Vises



Designed for speed. Screw and nut hardened for long life. Heavy semi-steel castings, for strength. Heavy steel base plate, for rigidity. Standardized holes in jaws, for attaching interchangeable jaw plates and fixtures. The screw is held positively in the nut when the vise is clamped. It cannot slip; yet it is released instantly with a half-turn. Lift the screw and the jaw is free to slide to its full opening. Slide the jaw to the closed position, drop the screw into the nut and lock with a half turn. Combination of jaw plates are grooved for holding round parts, notched for holding parts above base of vise, smooth on back side. They are accurately machined, hardened and ground. Socket cap screws supplied for attaching them to vise. Vises are supplied without jaw plates.

Vises Without Jaw Plates					Jaw Plates
Item No.	Jaw Width	Jaw Depth	Jaw Opening	Weight Lbs.	Item No.
CV-4	4	1 1/2	4	12 1/2	—
CV-6	6	2	6	31	JP-6
CV-7	6	2	8	40	—

Heinrich Drill Press Vises



Item No.	Jaw Width	Jaw Opening	Jaw Depth	Weight Lbs.
DPV-20	6	10	2	21
DPV-30	8	10	2 1/2	36

These handy drill press vises can be used from three sides. Work can be leveled quickly because jaws have built-in parallels. Widely spaced jaw guide bars, permit drilling clear through work. Jaw sides are precision ground at right angle to parallels to permit accurate drilling from the sides without resetting the work. Horizontal V-groove, holds round stock firmly for side and end drilling.

Vise Accessories
Speed Handles



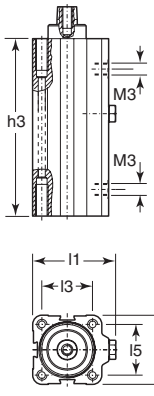
Aluminum center hub with all steel handles and knobs. Black oxide finish.

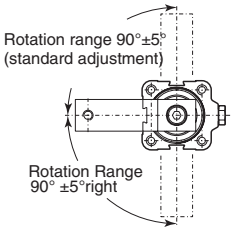
Item No.	Description
VSH-5	Fits 4" Vise (9/16" Hex)
VSH-15	Fits 6" Vise (3/4" Hex)
VSH-20	Fits 8" Vise (7/8" Hex)

PNEUMATIC SWING CLAMPS & ACCESSORIES

DESTACO Pneumatic Swing Cylinders Series TC-89R





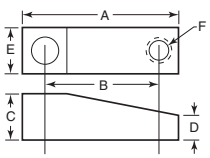


Easily adjustable swing directions, left hand, right hand, straight pull. The compact design and high reliability make these swing clamps suitable for applications where rapid and unobstructed access to the clamping station is required. New, updated design accommodates 4mm round as well as 6.5mm x 5mm T-slot style switches. Clamp arms are ordered separately.

Item No.	Total Stroke	Travel During Rotation	Vertical Clamp Stroke	Exerting Force @ 80 psi	h3	l1	l3	l5	l6	M3
TC-89R20-010-2	21	11	10	20	105.5	39.5	22	22	32	M5
TC-89R32-010-2	28	18	10	62	125	60	36	32	45	G1/8
TC-89R40-010-2	31.5	21.5	10	94	140	66	40	40	54.5	G1/8
TC-89R40-025-2	46.5	21.5	25	94	170	66	40	40	54.5	G1/8
TC-89R50-025-2	52	27	25	154	194.5	78.5	50	50	65	G1/8
TC-89R63-025-2	58.5	33.5	25	242	211.5	95	62	62	80	G1/4

DESTACO TC-80152, 82151, 841512 L-Arms Series





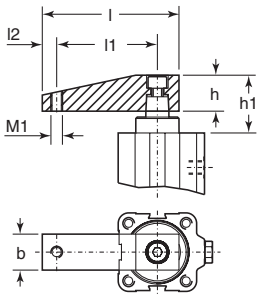
Item No.	A	B	C	D	E	F	Use w/ Series No.
TC-801528	1.75	1.12	.39	.27	.62	10-32	8000, 8100
TC-801529	2.87	2.25	.39	.27	.62	10-32	8000, 8100
TC-821512	2.75	2.00	.75	.37	.75	3/8-16	8200, 8300
TC-821513	3.75	3.00	.75	.37	.75	3/8-16	8200, 8300
TC-841512	2.31	1.58	.75	.37	.75	3/8-16	8400

Machining Fixture Clamp



DESTACO Pneumatic Swing Cylinder Clamp Accessories Series TC-89R





Features:

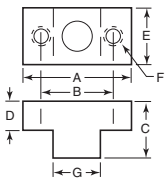
- TC-8JG-215-1 used with TC-89R20-010-2
- TC-8JG-217-1 used with TC-89R32-010-2
- TC-8JG-218-1 used with TC-89R40-010-2 and TC-89R40-025-2
- TC-8JG-219-1 used with TC-89R50-025-2
- TC-8JG-220-1 used with TC-89R63-025-2

Swing clamp arms are made from aluminum and may be positioned radially 360 degrees.

Item No.	l	l1	l2	h	h1	M1	b
TC-8JG-215-1	67	52	7	15	27.8	M6	15
TC-8JG-217-1	80	60	10	20	35.7	M8	20
TC-8JG-218-1	95	70	10	25	40	M8	25
TC-8JG-219-1	106	80	10	30	48.4	M8	30
TC-8JG-220-1	120	90	12	35	53	M10	35

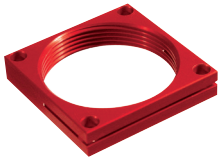
DESTACO Series TC-801532, 821556 Blank Arms

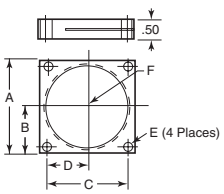




Item No.	A	B	C	D	E	F	G	Use w/ Series No.
TC-801532	1.37	1.00	.39	.25	.62	10-32 (2)	.62	8000, 8100
TC-821556	1.50	1.06	.75	.37	.75	1/4-20 (2)	.75	8200, 8300, 8400

DESTACO Series TC-801553, 821553, 841550 Mounting Blocks





Item No.	A	B	C	D	E	F
TC-801553	1.38	.69	1.08	.54	.20	1 1/8-16
TC-841550	2.00	1.00	1.60	.80	.28	1 3/4-12
TC-821553	2.50	1.25	2.12	1.06	.27	2 1/4-12

DESTACO Sensing Switches New Style



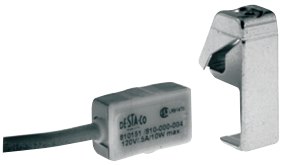
- Cable: Robotic Grade, abrasion resistant polyurethane (PUR) jacket, PVC insulation
- Temperature Range: 14 to 158 degree Fahrenheit (-10 to +70 degree Celsius)
- Switching Logic: Normally Open

Item No.	Operation	Operating Voltage	Switching Current	Voltage Drop	Cord Type
TC-810173	PNP	4.5-28V DC	100mA Max.	.5V@50mA Max.	6" Male M8 Connector
TC-810174	NPN	4.5-28V DC	100mA Max.	.5V@50mA Max.	6" Male M8 Connector
TC-810169	SPST	5-120V DC/AC 50/60 Hz	50mA Max.	3.0V Max.	6" Male M8 Connector

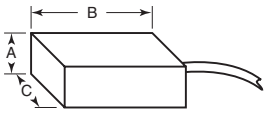
DESTACO Pneumatic Clamp Sensors Series TC-81015



Switch Mounted on Power Clamp (Power Clamp Not Included)



Switch with Mounting Clamp



Switch Dimensions without Mounting Clamp

Switches are activated by a magnetic ring installed on cylinder piston. As the magnetic ring moves under the switch, it closes the contacts and sends a signal to a programmable controller or other electronic device. All switches have a 9 foot lead. Switches come with tie-rod mounting clamp as standard. Minimum gauge rating required for proper operation, as measured on sensor surfaces, is 85 GA.

Item No.	A	B	C	Type	Function	Switching Voltage	Switching Current	Switching Power	Max. Voltage Drop
TC-810151	.37	.93	.53	Reed, LED, MOV w/Tie Rod Clip	Normally Open - SPST	5-120V AC/DC 50/60 HZ	0.5 Amp. max. - 0.0005 Amp. min.	10	3.5 Volts
TC-810155	.37	.93	.53	Hall Effect, LED Sourcing w/Tie Rod Clip	Normally Open - PNP	6-24V DC	0.5 Amp. max.	12	1 Volt
TC-810156	.37	.93	.53	Reed, LED, MOV	Normally Open - SPST	5-120V AC/DC 50/60 HZ	0.5 Amp. max. - 0.0005 Amp. min.	10	3.5 Volts
TC-810157	.37	.93	.53	Hall Effect w/Tie Rod Clip	Normally Open - NPN	6-24V DC	0.5 Amp. max.	12	1 Volt
TC-810158	.37	.93	.53	Hall Effect	Normally Open - PNP	6-24V DC	0.5 Amp. max.	12	1 Volt

Note: TC-810156 and TC-810158 use a band to mount the switch to the wall of the cylinder. All other models use tie rod clamp clip.

DESTACO Pneumatic Clamp Sensors Heavy Duty Switch



Item No.	A	B	C	Switch Type	Function	Switching Voltage	Switching Current	Switching Power Watts Max.	Voltage Drop
TC-810153	.87	1.30	.67	Reed, LED, MOV	Normally Open	24-240V AC 50/60 HZ	4 Amp. Max. - 50 Amp. Inrush - .005 Amp.	100	1 Volt

SAVE BIG STOCK UP!

Discounted & Priced To Sell

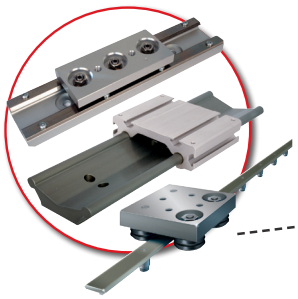
CHECK OUT OUR CLEARANCE SECTION SHOP NOW!

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AUTOMATION

Linear Motion Systems

Highly diverse product offering including: crossed roller, pneumatically controlled, cam followers, ball screws and nuts. At pace with latest technologies such as self-lubricated and anti-creep carriages and guides.

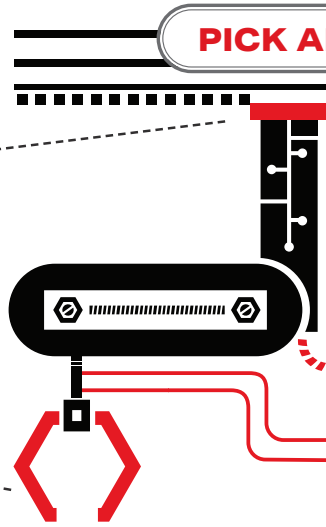


Grippers

Cost effective OEM machine builder solutions, with pneumatic and electrical variations. Suitable for various demanding environments – cleanroom, harsh, precision, fast paced gantry.







Bearings

Suits various miniature and large applications requiring bearing types that include: mounted, non-mounted, open, shielded, needle roller, ball, tapered roller and slide bearings.





Manual Tool Changers

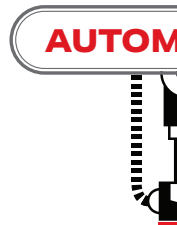


Suction Cups

Dynamic assortment of sizes, shapes, durometers, mounting options and related accessories. Suitable for a wide range of temperatures, contours and surface conditions.

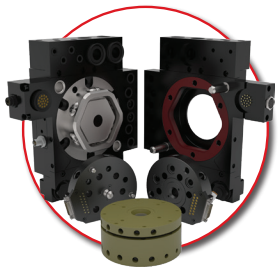






Automatic Tool Changers

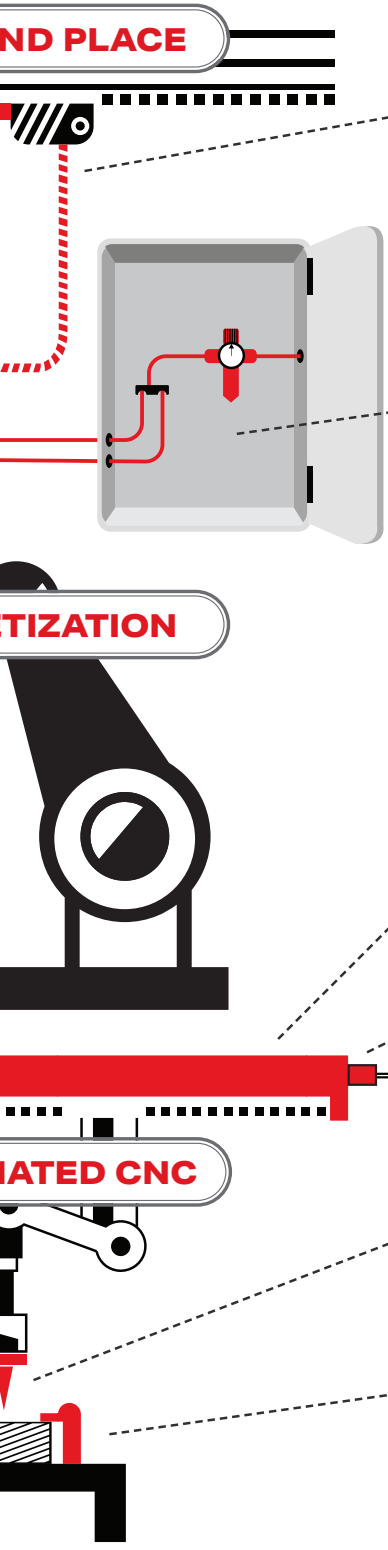
Lightweight to heavy payload solutions. Multiple styles of tool changers to choose from. Variety of electric and vacuum utilities supported. Advanced locking mechanism to minimize deflection after coupling.

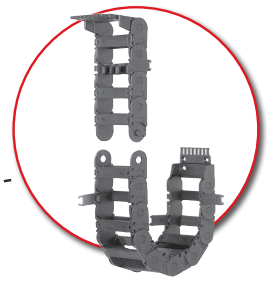




SOLUTIONS

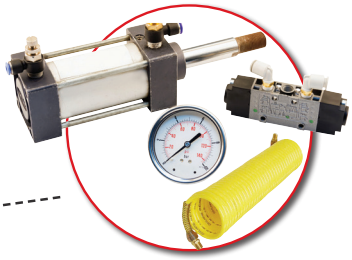
Reid SUPPLY
AN ESSENTRA COMPANY





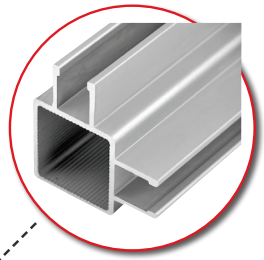
Energy Supply Systems

Industry leading delivery, modular design with the ability to add or remove links to the existing supply systems.



Pneumatic Components

Partnerships with leading brands enables us to carry an intensive breadth of valves, hoses, FRLs, actuators, tube fittings, etc.



Extruded Bars

Highly modifiable profiles offered in various lengths and styles. Customization includes ability to alter profile lengths, shapes and finishes. Supplemental components like fasteners, end supports, panels, access hardware, and add on also available.



Collars & Couplings

One and two-piece styles for convenience of choice. Available materials: steel, stainless steel, and aluminum.



Cutting & Machining

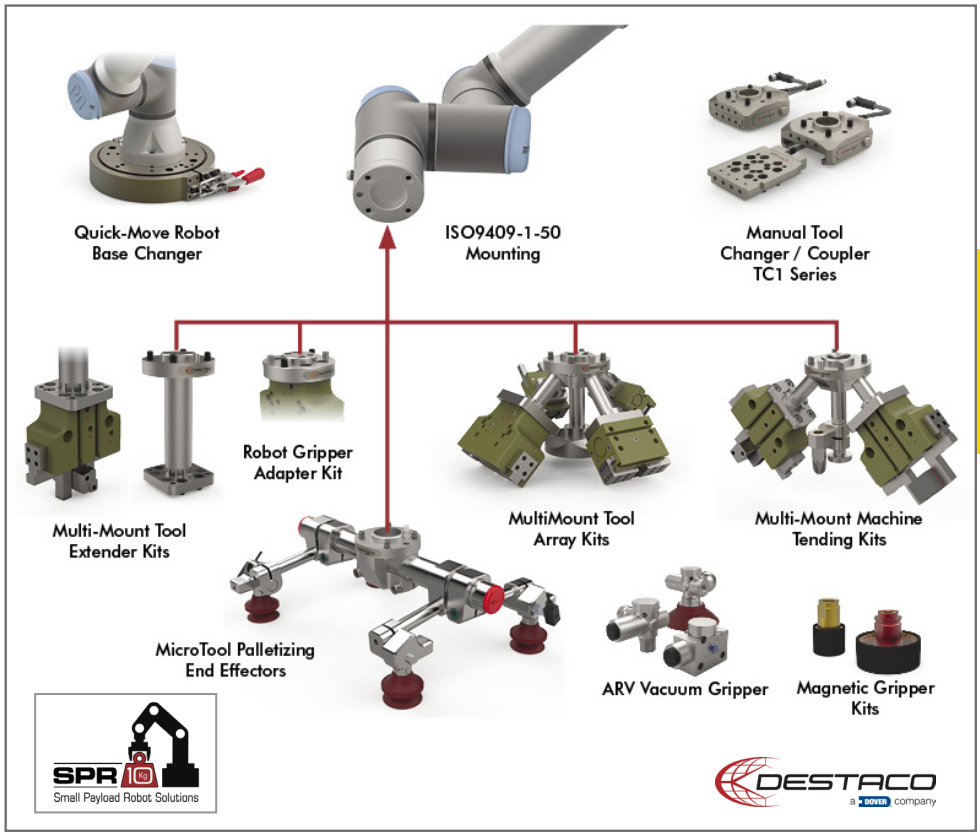
Offering a vast range of products that provide solutions for various automation processes including, but not limited to: tapping, threading, drilling, milling, deburring, sanding, etc.



Power Clamps

Manual and pneumatically powered clamps with sensing capabilities to automate processes, with different mounting and clamping styles.

Looking to Automate Using Cobots?
We Have Solutions.



Contact Our Team To Discuss Automating Your Processess.

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sales@reidsupply.com

Cobot End Effectors and Accessories

Our **Cobot End Effectors** and **Cobot Accessories** can make it happen for your manufacturing applications. With ISO mounting tools, quick-move bases, and manual tool changers that work with industry standard cobots, there's hardly a limit to what your application can accomplish with or without a human presence.



Quick-Move Bases

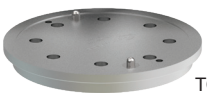
Quick-Move Cobot Base Changers allow precise Cobot portability between multiple workstations for increased flexibility and productivity. A single Quick-Move Cobot Base Plate can be coupled to an endless number of workstation mounting bases for multi-purpose Cobot applications.

Quick-Move Base does not come assembled. Components sold separately.


TC-CB200B01


TC-CB200R00


TC-CB200C01


TC-CB200B01

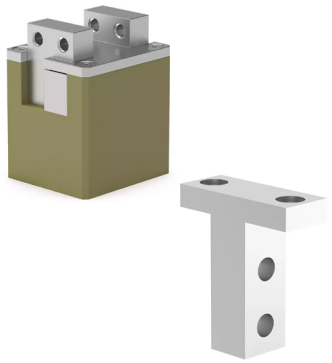
Item No.	Description
Quick Move (Workstation) Base Kit Components:	
TC-CB200B01	Workstation Base Plate For Cobot Base Connector - Quick Move Base
TC-CB200C01	Clamping Collar For Cobot Base Connector - Quick Move Base
TC-CB200R00	Blank Cobot Plate For Cobot Base Connector - Quick Move Base
TC-CB200R01	Pre Drilled Cobot Plate For Cobot Base Connector - Quick Move Base

Pnuematic Gripping Solutions

Pneumatic parallel grippers operate with compressed air and are designed for automated pick-and-place applications. These grippers offer easy installation, low maintenance, and finger compatibility with competing units for quick upgrades and cost savings.

Item No.	Product Type	Bore Dia.	Holding Force	Stroke Length
Pnuematic Gripping Components				
1317790	Moderately Clean Applications	8.000 mm	56 N	5.010 mm
1317791	Moderately Clean Applications	8.000 mm	56 N	10.000 mm
1317792	Moderately Clean Applications	8.000 mm	56 N	15.000 mm
1317793	Moderately Clean Applications	8.000 mm	56 N	20.000 mm
1317794	Moderately Clean Applications	8.000 mm	56 N	25.000 mm
1317795	Moderately Clean Applications	11.000 mm	104 N	5.000 mm
1317796	Moderately Clean Applications	11.000 mm	104 N	10.000 mm
1317797	Moderately Clean Applications	11.000 mm	104 N	15.000 mm
1317798	Moderately Clean Applications	11.000 mm	104 N	20.000 mm
1317799	Moderately Clean Applications	11.000 mm	104 N	25.000 mm
1317800	Moderately Clean Applications	17.500 mm	260 N	6.000 mm
1317801	Moderately Clean Applications	17.500 mm	260 N	12.000 mm
1317802	Moderately Clean Applications	17.500 mm	260 N	18.000 mm
1317803	Moderately Clean Applications	17.500 mm	260 N	24.000 mm
1317804	Moderately Clean Applications	17.500 mm	260 N	30.000 mm
1317805	Moderately Clean Applications	25.000 mm	558 N	10.000 mm
1317806	Moderately Clean Applications	25.000 mm	558 N	20.000 mm
1317807	Moderately Clean Applications	25.000 mm	558 N	30.000 mm
1317808	Moderately Clean Applications	25.000 mm	558 N	40.000 mm
1317809	Moderately Clean Applications	25.000 mm	558 N	50.000 mm
ROBO-RP5	Automotive Assembly	0.750 in	35 lbf	0.160 in
ROBO-RP10	Automotive Assembly	1.000 in	40 lbf	0.250 in
ROBO-RP11	Automotive Assembly	1.000 in	40 lbf	0.250 in
ROBO-RP12	Automotive Assembly	1.000 in	40 lbf	0.380 in
ROBO-RP15	Automotive Assembly	1.250 in	70 lbf	0.500 in
ROBO-RP5M	Automotive Assembly	0.750 in	35 lbf	0.160 in
ROBO-RP10M	Automotive Assembly	1.000 in	40 lbf	0.250 in
ROBO-RP11M	Automotive Assembly	1.000 in	40 lbf	0.250 in
ROBO-RP12M	Automotive Assembly	1.000 in	40 lbf	0.380 in
ROBO-RP15M	Automotive Assembly	1.250 in	70 lbf	0.500 in
ROBO-RP17M	Automotive Assembly	1.813 in	220 lbf	0.750 in
ROBO-RPL1	Delicate Parts Handling	0.438 in	26 lbf	0.250 in
ROBO-RPL2	Delicate Parts Handling	0.438 in	26 lbf	0.500 in
ROBO-RPL3	Delicate Parts Handling	0.500 in	36 lbf	0.750 in
ROBO-RPL4	Delicate Parts Handling	0.500 in	36 lbf	1.000 in
ROBO-RPL1M	Delicate Parts Handling	0.438 in	26 lbf	0.250 in
ROBO-RPL2M	Delicate Parts Handling	0.438 in	26 lbf	0.500 in
ROBO-RPL3M	Delicate Parts Handling	0.500 in	36 lbf	0.750 in
ROBO-RPL4M	Delicate Parts Handling	0.500 in	36 lbf	1.000 in
ROBO-RPM1M	Small Parts Handling	0.390 in	8 lbf	0.130 in
ROBO-RPM2M	Small Parts Handling	0.390 in	8 lbf	0.190 in
ROBO-RPM3M	Small Parts Handling	0.390 in	8 lbf	0.250 in
1317814	Gripper Fingers	N/A	N/A	N/A
1317815	Gripper Fingers	N/A	N/A	N/A
1317816	Gripper Fingers	N/A	N/A	N/A
1317817	Gripper Fingers	N/A	N/A	N/A
1317818	Gripper Fingers	N/A	N/A	N/A
1317819	Gripper Fingers	N/A	N/A	N/A
1317820	Gripper Fingers	N/A	N/A	N/A
1317779	Jaw Locating Sleeves	N/A	N/A	N/A
1317780	Jaw Locating Sleeves	N/A	N/A	N/A
1317781	Jaw Locating Sleeves	N/A	N/A	N/A
1317782	Valves	N/A	N/A	N/A
1317785	Air Fittings	N/A	N/A	N/A
1317783	Sensors	N/A	N/A	N/A
1317784	Sensors	N/A	N/A	N/A
1317810	Quick Installation Kits	N/A	N/A	N/A
1317811	Quick Installation Kits	N/A	N/A	N/A
1317812	Quick Installation Kits	N/A	N/A	N/A
1317813	Quick Installation Kits	N/A	N/A	N/A

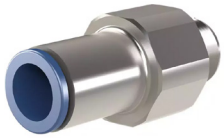






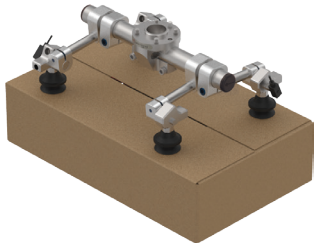






Gripping Solutions

For robotic and cobotic automated applications, we offer durable vacuum cups, arm assemblies, aluminum tubes, adapters, sensors and high-speed vacuum generators to help increase productivity. Our wide range of vacuum cups are available in various shapes, sizes, and materials. Plus, our auto-release vacuum generators offer single-line operation, integrated blow-off, and built-in exhaust silencer.





CPI-CLM1010EC



CPI-CA05001



CPI-PAT10T



VACUUM CUP



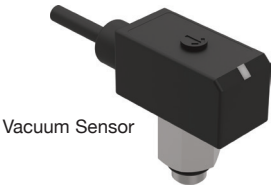
CPI-VAA



VACUUM CUP

Many More Vacuum Cups Available On Our Website: reidsupply.com

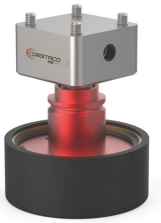
Item No.	Description
Vacuum Gripping Components	
CPI-CA05001	Cobot Tool Adapter For Vacuum Gripping
CPI-VAA200	3.06 In Vacuum Arm Assembly
CPI-VAA300	4.11 In Vacuum Arm Assembly
CPI-VAA400	5.08 In Vacuum Arm Assembly
CPI-VAA500	6.14 In Vacuum Arm Assembly
CPI-VAA600	7.09 In Vacuum Arm Assembly
CPI-CLM1010EC	Clamp Block Assembly For Aluminum Tubes
CPI-VCB20N18F	0.787 In Diam Female Bellowed Vacuum Cup
CPI-VCB30N18F	1.181 In Diam Female Bellowed Vacuum Cup
CPI-VCB50N18F	1.970 In Diam Female Bellowed Vacuum Cup
CPI-VCB20N18M	0.787 In Diam Single Bellow Vacuum Cup
CPI-VCB30N18M	1.181 In Diam Single Bellow Vacuum Cup
CPI-VCB50N18M	1.970 In Diam Single Bellow Vacuum Cup
CPI-VCF20N18M	0.787 In Diam Male Flat Vacuum Cup
CPI-VCF30N18M	1.181 In Diam Male Flat Vacuum Cup
CPI-VCF50N18M	1.970 In Diam Male Flat Vacuum Cup
CPI-VCBM20N18M	0.787 In Diam Multiple Bellow Vacuum Cup
CPI-VCBM30N18M	1.181 In Diam Multiple Bellow Vacuum Cup
CPI-VCBM50N18M	1.970 In Diam Multiple Bellow Vacuum Cup
CPI-PAT10T06	6 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T08	8 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T10	10 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T12	12 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T14	14 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T16	16 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T18	18 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T20	20 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T22	22 Inch Plain Aluminum Tube For Vacuum Gripping
CPI-PAT10T24	24 Inch Plain Aluminum Tube For Vacuum Gripping
Vacuum Sensors	
CPI-360VN3	10-32 Thread NPN Vacuum Sensor
CPI-360VP3	10-32 Thread PNP Vacuum Sensor
Auto Release Vacuum Generator	
CPI-VSAARVS5U18	Block Type Auto Release Vacuum Generator
Magnetic Grippers	
TC-MG05001	1.75 Lbs Max Payload Magnetic Gripper
TC-MG05002	6.60 Lbs Max Payload Magnetic Gripper



Vacuum Sensor

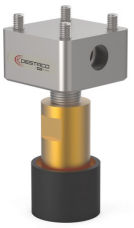


Vacuum Generator
CPI-VSAARVS5U18



TC-MG05002

Magnetic Grippers



TC-MG05001

Magnetic Gripping Solutions

The Magnetic Gripper Kit is an ideal solution for pick and place applications of ferromagnetic materials such as steel and iron. This gripper is an air actuated device requiring no electrical connections for operation. The magnetic gripper base mounts directly to robots with an ISO 9409-1-50-4-M6 pattern.

Auto Release Vacuum Generator

ARV® - the original, patented Auto-Release Venturi offers users the fastest vacuum and blow-off in the industry with single line operation, integrated blowoff and built-in exhaust silencer.

Cobot Tool Array and Extensions

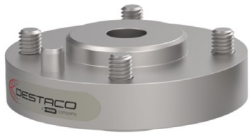
Tool Array kits enable the operator to mount up to 5 tools to ISO 50 mount cobots. A single cobot can do up to 5 different operations without the need for a tool changer. Tool extenders come in variable lengths that separate the cobot adapter from the tool plates. The tool extenders also allow for more cobot-reach, access into tighter work spaces and elimination of interference from onboard vision systems.



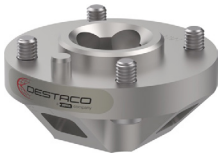
Tool Array and Extention Adapters

Featuring cobot adapters for both tool-extension and tool-array purposes. Fast and simple installation with easy to follow instructions. Includes all tools and hardware necessary to assemble and mount on your cobot.

Item No.	Description
TC-TE05001	Tool Extension Adapter For Cobots
TC-MM05001	Tool Array Adapter For Cobots



TC-TE05001

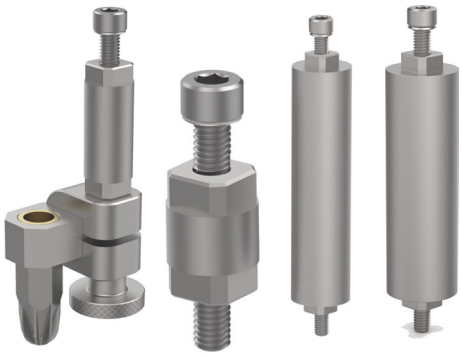


TC-MM05001

Extension Kits

Multi-Mount Tool Extension Kits allow access into tighter work spaces by increasing the tooling distance away from the robot arm mounting surface. Use Multi-Mount Tool Extenders to eliminate interference with onboard vision systems, extend the robot reach into the work space or facilitate easier product placement in assembly, sorting and packing operations.

Item No.	Description
TC-TE25040	1.575 In Extension Rod For Tool Extender Adapters
TC-TE25060	1.362 Inch Extension Rod For Tool Extender Adapters
TC-TE25080	3.150 Inch Extension Rod For Tool Extender Adapters
TC-TE25100	3.937 Inch Extension Rod For Tool Extender Adapters
TC-MM1510	0.394 Inch Extension Rod For Tool Array Adapters
TC-MM1520	0.787 Inch Extension Rod For Tool Array Adapters
TC-MM1530	1.181 Inch Extension Rod For Tool Array Adapters
TC-MM1540	1.575 Inch Extension Rod For Tool Array Adapters
TC-MMABN050	Air Blow Off Nozzle For Machine Tending

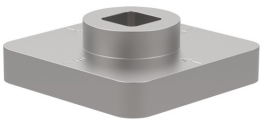


Extension Kits

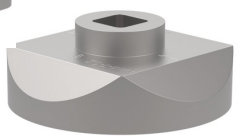
End Tool Plates

Featuring tool plates for cobot end effector extensions. Available in various shapes and thread sizes.

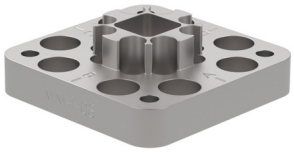
Item No.	Description
TC-MMT01	Blank Square Cobot End Tool Plate
TC-MMT02	M6 Round Cobot End Tool Plate
TC-MMT03	M5 And M3 Square Cobot End Tool Plate
TC-MMT04	M3 Square Cobot End Tool Plate
TC-MMT05	M5 And M3 Rectangle Cobot End Tool Plate
TC-MMT06	M3 Rectangle Cobot End Tool Plate



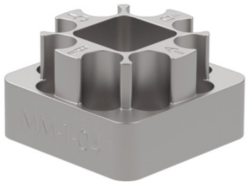
TC-MMT01



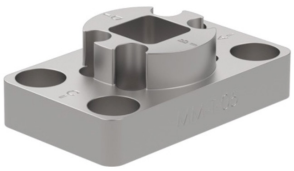
TC-MMT02



TC-MMT03



TC-MMT04



TC-MMT05

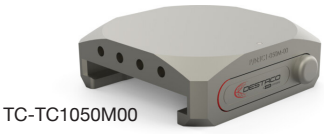


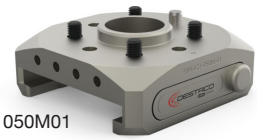
TC-MMT06

Cobot Manual Tool Changers

Manual tool changers by Destaco are on the leading edge of ISO standards for robotics and cobotics. Reid Supply offers safety, simplicity, and consistency with our line of manual tool changers for cobotics.

Item No.	Description
TC-TC1050M00	Blank Robot Plate
TC-TC1050M01	Blank robot plate with ISO 9409-1-50-4-M6 mounting.
TC-TC1050T00	Blank tool plate
TC-TC1050T01	Tool plate with direct connect mounting to Robohand products
TC-TC1050T02	Tool plate with ISO 9409-1-50-4-M6 mounting
TC-TC1E01MC01	8 pin M8 socket connentor with electric pass through for robot plate
TC-TC1E02MC01	8 pin M8 plug connentor with electric pass through for robot plate
TC-TC1E01TC01	8 pin M8 plug connentor with electric pass through for tool plate
TC-TC1E02TC01	8 pin M8 socket connentor with electric pass through for tool plate
TC-TC1E01TP01	PNP magneto-resistive 4mm sensing module for tool plate
TC-TC1E02TN01	NPN magneto-resistive 4mm sensing module for tool plate
TC-TC1050H01	Tool plate holder


TC-TC1050M00

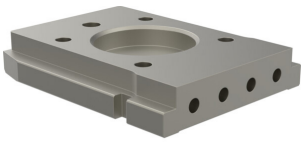

TC-TC1050M01

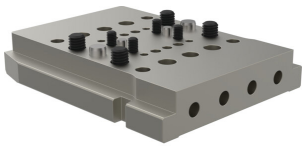

TC-TC1E01TP01

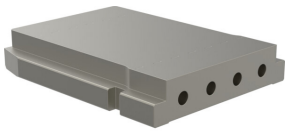

TC-TC1E01TC01


TC-TC1E02TC01


TC-TC1050H01


TC-TC1050T02


TC-TC1050T01


TC-TC1050T00

Cobot End Tool Tree/Rack Solutions

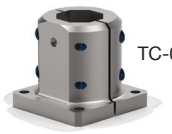
Organize your robot tools with DESTACO's modular TC1 Tool Tree Storage Kit. Tools mounted to TC1 tool plates are stored securely and quickly by sliding the tool plate into the tool holder.

The Tool storage tree is a cost effective and expandable solution. The user can add or remove tool holders as needed. Organized tools are critical to maintaining a clean and efficient workstation.

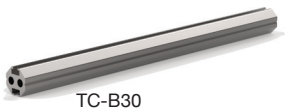
Tool Tree does not come assembled. End effectors sold separately.



Item No.	Description
Tool Tree Kit Components:	
TC-050H02	TOOL TREE BASE FOR COBOT END TOOL RACK
TC-B303000	11.81 INCH ALUMINUM EXTRUSION FOR TOOL TREE
TC-B304000	15.75 INCH ALUMINUM EXTRUSION FOR TOOL TREE
TC-B305000	19.69 INCH ALUMINUM EXTRUSION FOR TOOL TREE
TC-CLM30B20F	TOOL PLATE HOLDER CLAMP FOR TOOL TREE


TC-050H02

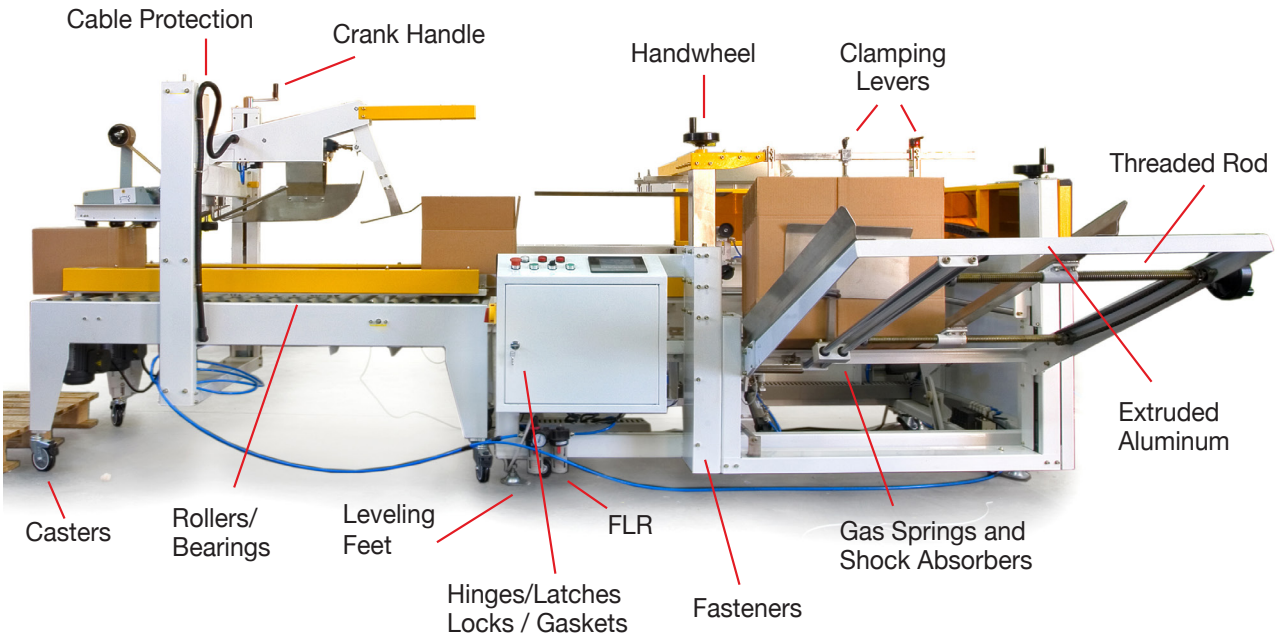

TC-CLM30B20F

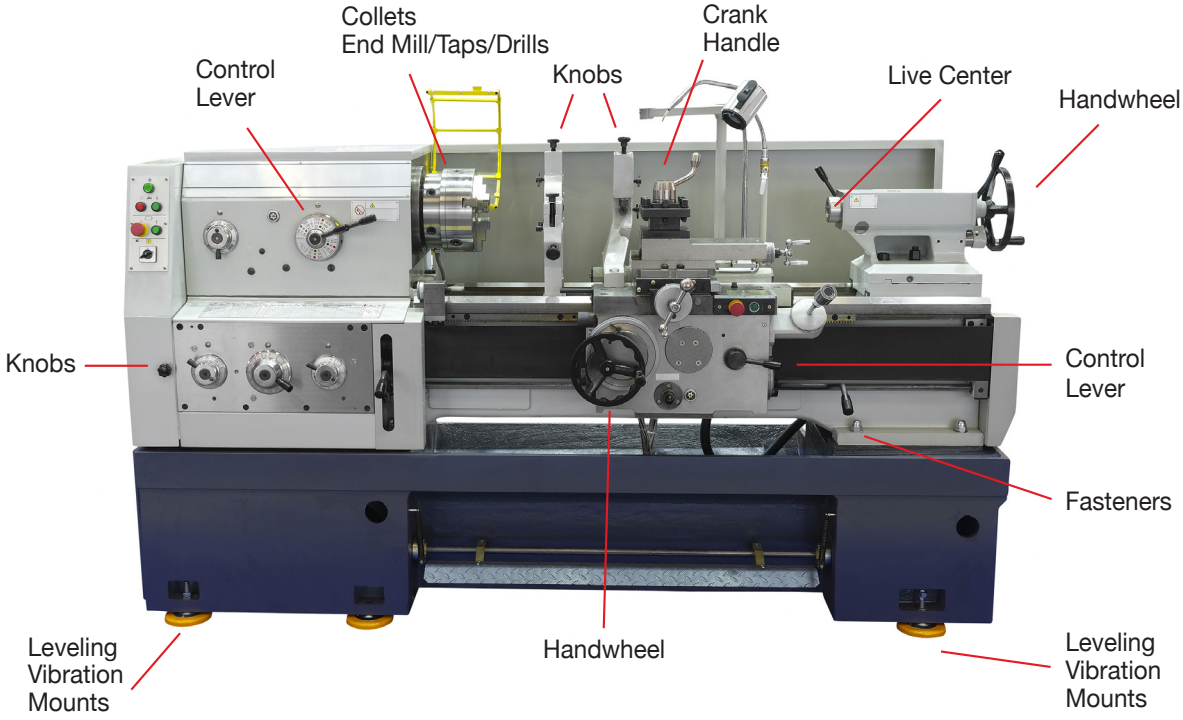

TC-B30

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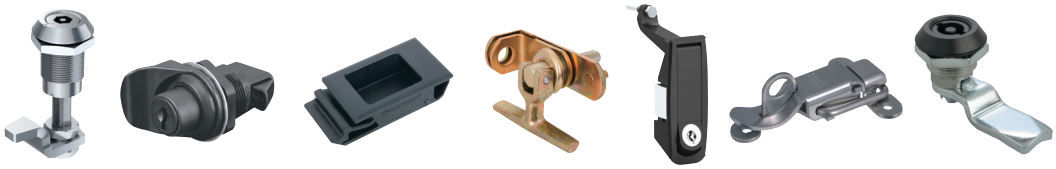




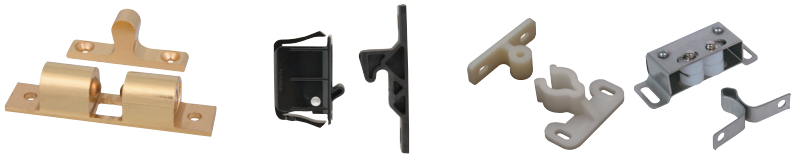
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LATCHES CATCHES & HINGES

Latches
Pg. 238-263



Catches & Catch Plates
Pg. 264-266



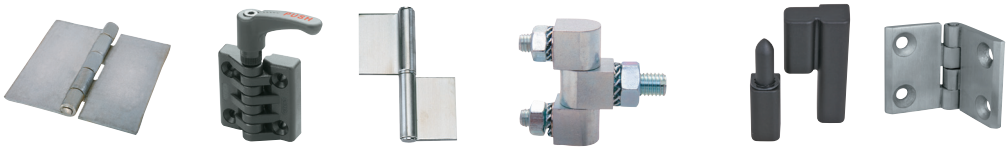
Hasps
Pg. 267



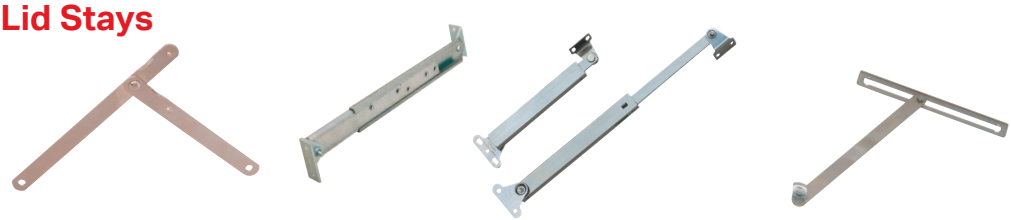
Drawer Slides
Pg. 268-270



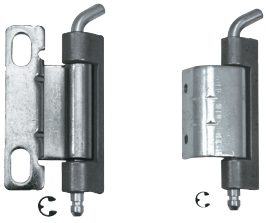
Hinges
Pg. 271-277



Door Holder & Lid Stays
Pg. 278



Concealed Hinges & Cabinet Accessories
Pg. 279

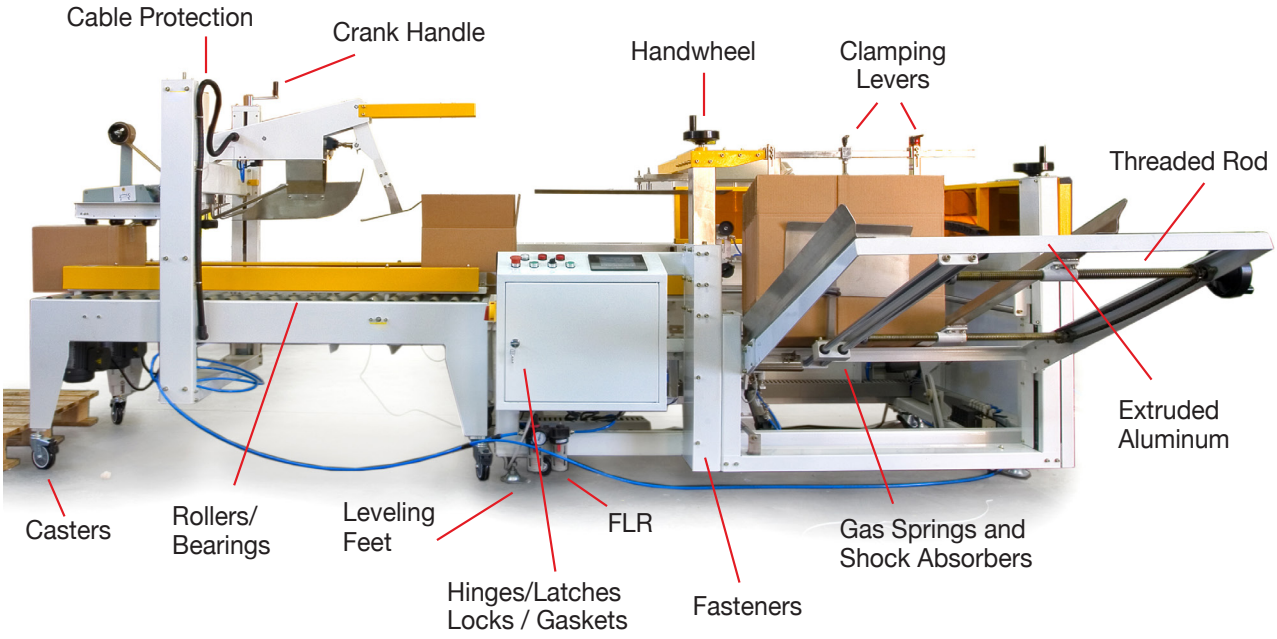


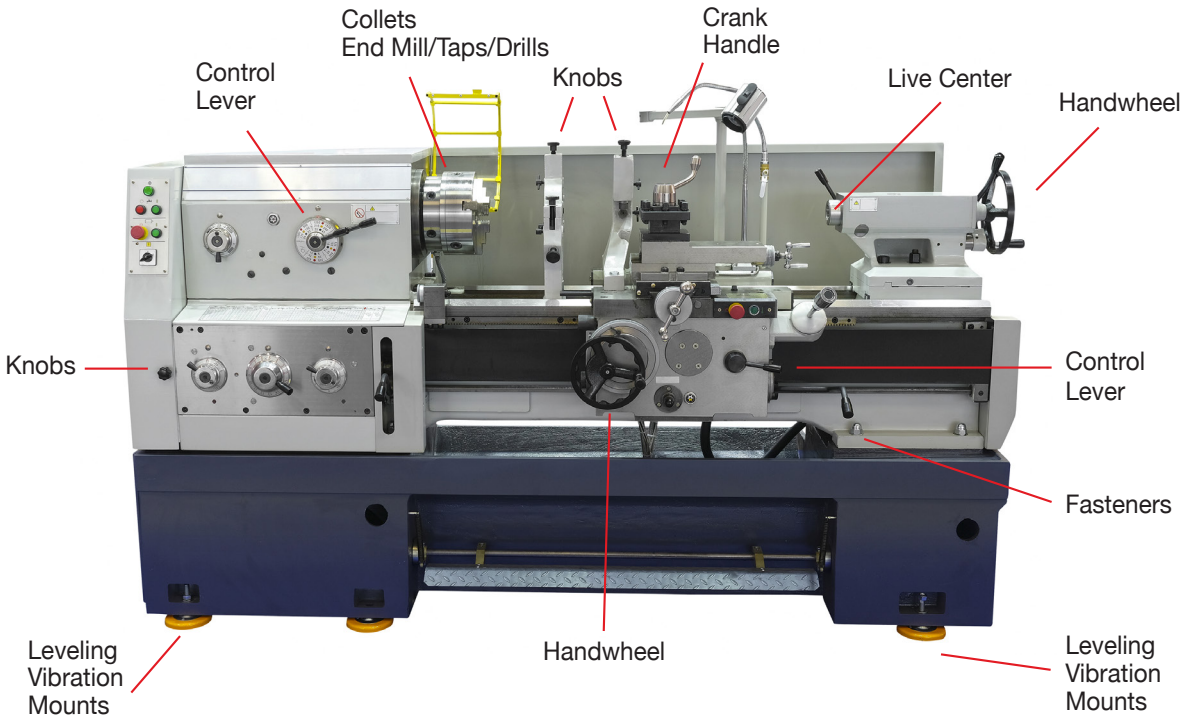
Gasketing
Pg. 280



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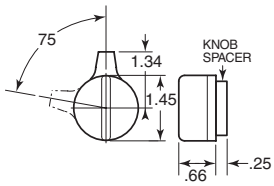
COMPRESSION LATCHES

Vise Action Compression Latch
Single Hole Mount

southco®

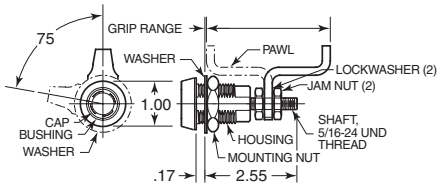


Knob Style





Key Operated



Tubular Key



Item No.	MFG #	Description
SC-7430	E3-5-15	Tubular Key

Easy to install. Locks door then pulls them tight with one half turn. Internal O-ring gasket provides consistent compression. Maximum working load 100 lbs. Black powder coated die cast zinc housing with black knobs or caps. Easy to install. Key #SC-7430 must be ordered separately for key operated style.

Item No.	MFG #	Description	Grip Range
SC-7355	E3-10-505-50	Knob Style	.95 - 2.65
SC-7356*	E3-55-715-50	Key Operated	1.00 - 2.70

*Grip Range is 1.00 to 1.70 pawl forward. 2.00 to 2.70 pawl reversed

Vise Action Compression Latch
Single Hole Mount

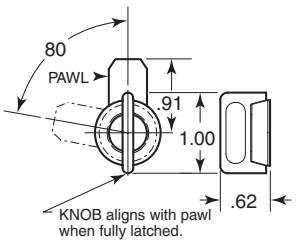
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Knob Style



Knob Style



Key



Item No.	MFG #
SC-732	E3-26-819-15

Easy to install. Locks door then pulls them tight with one half turn. Internal O-ring gasket provides consistent compression. Maximum working load 100 lbs. Black powder coated die cast zinc housing with black knobs or caps. Easy to install. Key #SC-732 must be ordered separately for key operated style.

Knob Style		Key Operated Style		
Item No.	MFG #	Item No.	MFG #	Grip Range
SC-737	E3-57-15	**SC-735**	E3-55-15	.125-.250
SC-7372	E3-57-25	**SC-7352**	E3-55-25	.250-.375
SC-7373	E3-57-35	—	—	.375-.500
SC-7374	E3-57-45	—	—	.500-.625
SC-7375	E3-57-55	—	—	.625-.750
SC-7377	E3-57-75	—	—	.875-1.000
SC-7378	E3-57-85	**SC-7358**	E3-55-85	1.000 - 1.125

Sign Up!

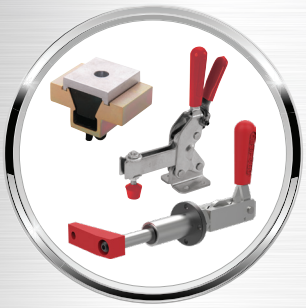
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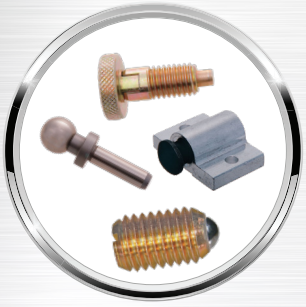
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KNOBS HANDLES


LATCHES, CATCHES HINGES

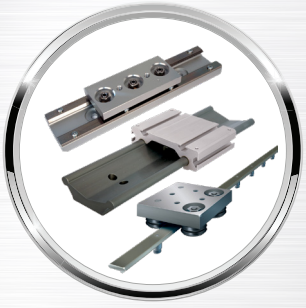

ADJUSTABLE HANDLES


TOOLING & POSITIONING


FEET, CASTERS VIBRATION MOUNTS

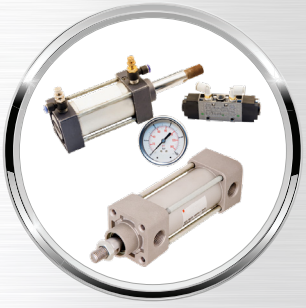

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LATCHES

Non-Locking Chrome



Item No.	Approx. Grip Range	MFG#
ELH-868	¼	ELH-868
ELH-869	½	ELH-869
ELH-870	¾	ELH-870

Non-Locking Black Powder Coat Finish



Item No.	Approx. Grip Range	MFG#
ELH-871	¼	ELH-871
ELH-872	½	ELH-872
ELH-873	¾	ELH-873

Locking Chrome



Item No.	Approx. Grip Range	MFG#
ELH-883	¼	ELH-883
ELH-884	½	ELH-884
ELH-885	¾	ELH-885

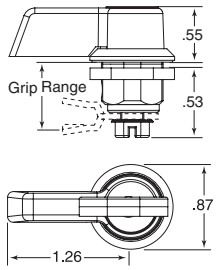
Note: Includes key ELH-333

Locking Black Powder Coat Finish



Item No.	Approx. Grip Range	MFG #
ELH-886	¼	ELH-886
ELH-887	½	ELH-887
ELH-888	¾	ELH-888

Note: Includes key ELH-333



Non-Locking Black Polyamide



Item No.	Approx. Grip Range	MFG #
ELH-1022	¼	ELH-1022
ELH-1023	5⁄16	ELH-1023
ELH-1024	⅜	ELH-1024
ELH-1025	½	ELH-1025
ELH-1026	9⁄16	ELH-1026
ELH-1027	⅝	ELH-1027
ELH-1028	¾	ELH-1028
ELH-1029	⅞	ELH-1029
ELH-1030	15⁄16	ELH-1030
ELH-1031	1	ELH-1031
ELH-1032	1 1⁄16	ELH-1032
ELH-1033	1⅛	ELH-1033
ELH-1034	1 3⁄16	ELH-1034

Locking Chrome



Item No.	Approx. Grip Range	MFG #
ELH-983	¼	ELH-983
ELH-984	5⁄16	ELH-984
ELH-985	⅜	ELH-985
ELH-986	½	ELH-986
ELH-987	9⁄16	ELH-987
ELH-988	⅝	ELH-988
ELH-989	¾	ELH-989
ELH-990	⅞	ELH-990
ELH-991	15⁄16	ELH-991
ELH-992	1	ELH-992
ELH-993	1 1⁄16	ELH-993
ELH-994	1⅛	ELH-994
ELH-995	1 3⁄16	ELH-995

Note: Includes key ELH-333

Locking Black Polyamide



Item No.	Approx. Grip Range	MFG#
ELH-1009	¼	ELH-1009
ELH-1010	5⁄16	ELH-1010
ELH-1011	⅜	ELH-1011
ELH-1012	½	ELH-1012
ELH-1013	9⁄16	ELH-1013
ELH-1014	⅝	ELH-1014
ELH-1015	¾	ELH-1015
ELH-1016	⅞	ELH-1016
ELH-1017	15⁄16	ELH-1017
ELH-1018	1	ELH-1018
ELH-1019	1 1⁄16	ELH-1019
ELH-1020	1⅛	ELH-1020
ELH-1021	1 3⁄16	ELH-1021

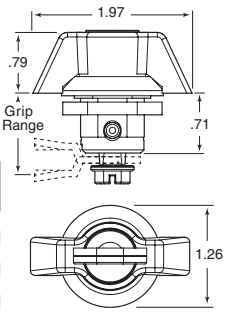
Note: Includes key ELH-333

Locking Black Powder Coat Finish



Item No.	Approx. Grip Range	MFG #
ELH-996	¼	ELH-996
ELH-997	5⁄16	ELH-997
ELH-998	⅜	ELH-998
ELH-999	½	ELH-999
ELH-1000	9⁄16	ELH-1000
ELH-1001	⅝	ELH-1001
ELH-1002	¾	ELH-1002
ELH-1003	⅞	ELH-1003
ELH-1004	15⁄16	ELH-1004
ELH-1005	1	ELH-1005
ELH-1006	1 1⁄16	ELH-1006
ELH-1007	1⅛	ELH-1007
ELH-1008	1 3⁄16	ELH-1008

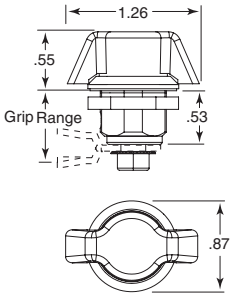
Note: Includes key ELH-333



Non-Locking Black Powder Coat Finish



Item No.	Approx. Grip Range	MFG #
ELH-865	¼	ELH-865
ELH-866	½	ELH-866
ELH-867	¾	ELH-867

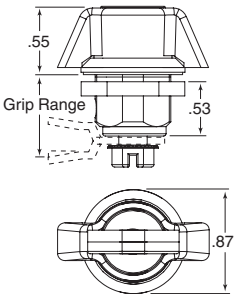


Locking Black Powder Coat Finish

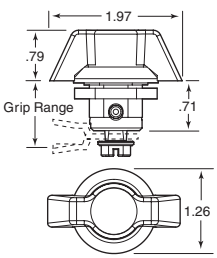


Item No.	Approx. Grip Range	MFG #
ELH-880	¼	
ELH-881	½	
ELH-882	¾	

Note: Includes key ELH-333



304 Stainless Steel



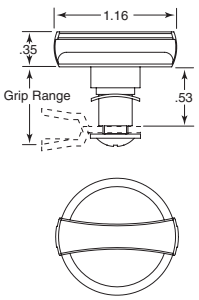


Item No.	Approx. Grip Range	MFG #
ELH-791	¼	ELH-791
ELH-793	⅜	ELH-793
ELH-795	9⁄16	ELH-795
ELH-797	¾	ELH-797
ELH-798	⅞	ELH-798
ELH-799	15⁄16	ELH-799
ELH-801	1 1⁄16	ELH-801
ELH-802	1⅛	ELH-802

Non-Locking Black Polymide



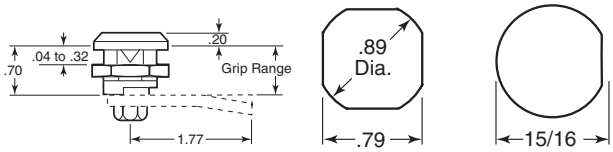
Item No.	Approx. Grip Range	MFG #
ELH-874	¼	ELH-874
ELH-875	½	ELH-875
ELH-876	¾	ELH-876



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Slotted Cam Latches





Recommended Hole Profile

Alternate Hole Profile

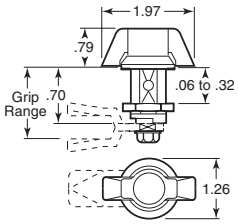
NEMA 4 rated cam quarter turn latches are shipped assembled and include the following components: housing, insert, rubber seal, hex nut and cam. Available in zinc die cast with chrome or black finish or type 304 stainless steel. Grip ranges are approximate.

Item No.	Approx. Grip Range	MFG#	Item No.	Approx. Grip Range	MFG #
Chrome			**Black**		
ELH-1	¼	ELH-1	ELH-18	½	ELH-18
ELH-2	5/16	ELH-2	ELH-20	⅝	ELH-20
ELH-3	⅜	ELH-3	ELH-28	1 3/16	ELH-28
ELH-4	½	ELH-4	**Stainless**		
ELH-6	⅝	ELH-6	ELH-30	⅜	ELH-30
ELH-8	¾	ELH-8	ELH-31	9/16	ELH-31
ELH-9	⅞	ELH-9	ELH-34	⅞	ELH-34
ELH-10	15/16	ELH-10	ELH-35	15/16	ELH-35
ELH-11	1	ELH-11	ELH-36	1 1/16	ELH-36
ELH-12	1 1/16	ELH-12	ELH-37	1⅛	ELH-37
ELH-13	1⅛	ELH-13			
ELH-14	1 3/16	ELH-14			

Wing Handle Cam Latches with and without Padlock Option

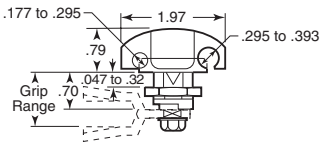


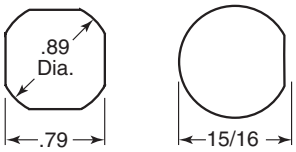
Chrome Finish Without Padlock Option





Black Finish With Padlock Option





Recommended Hole Profile

Alternate Hole Profile

NEMA 4 rated wing handle cam latches are shipped assembled and include the following components: housing, insert, rubber seal, hex nut and cam. Available in zinc die cast with chrome or black finish. Grip ranges are approximate. ELH-68 and ELH-76 have an option that allows a padlock to be installed, making the latch inoperable. Padlock not included.

Item No.	Approx. Grip Range	MFG#	Item No.	Approx. Grip Range	MFG #
Chrome			**Black**		
ELH-38	¼	ELH-38	ELH-52	¼	ELH-52
ELH-40	⅜	ELH-40	ELH-54	⅜	ELH-54
ELH-41	½	ELH-41	ELH-68*	⅜	ELH-68*
ELH-45	¾	ELH-45	ELH-55	½	ELH-55
ELH-47	15/16	ELH-47	ELH-56	9/16	ELH-56
			ELH-60	⅞	ELH-60
			ELH-76*	1	ELH-76*
			ELH-65	1 3/16	ELH-65

*Padlock option

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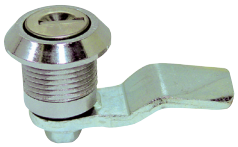
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LATCHES & KEYS

Locking Chrome



Item No.	Approx. Grip Range	MFG #
ELH-942	1/4	ELH-942
ELH-943	5/16	ELH-943
ELH-944	3/8	ELH-944
ELH-945	1/2	ELH-945
ELH-946	9/16	ELH-946
ELH-947	5/8	ELH-947
ELH-948	3/4	ELH-948
ELH-949	7/8	ELH-949
ELH-950	15/16	ELH-950
ELH-951	1	ELH-951
ELH-952	1 1/16	ELH-952
ELH-953	1 1/8	ELH-953
ELH-954	1 3/16	ELH-954

Note: Includes key ELH-333

Locking Black Powder Coated



Item No.	Approx. Grip Range	MFG #
ELH-955	1/4	ELH-955
ELH-956	5/16	ELH-956
ELH-957	3/8	ELH-957
ELH-958	1/2	ELH-958
ELH-959	9/16	ELH-959
ELH-960	5/8	ELH-960
ELH-961	3/4	ELH-961
ELH-962	7/8	ELH-962
ELH-963	15/16	ELH-963
ELH-964	1	ELH-964
ELH-965	1 1/16	ELH-965
ELH-966	1 1/8	ELH-966
ELH-967	1 3/16	ELH-967

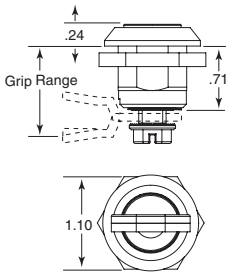
Note: Includes key ELH-333

Locking Black Polyamide



Item No.	Approx. Grip Range	MFG #
ELH-968	1/4	ELH-968
ELH-969	5/16	ELH-969
ELH-970	3/8	ELH-970
ELH-971	1/2	ELH-971
ELH-972	9/16	ELH-972
ELH-973	5/8	ELH-973
ELH-974	3/4	ELH-974
ELH-975	7/8	ELH-975
ELH-976	15/16	ELH-976
ELH-977	1	ELH-977
ELH-978	1 1/16	ELH-978
ELH-979	1 1/8	ELH-979
ELH-980	1 3/16	ELH-980

Note: Includes key ELH-333



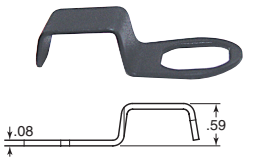
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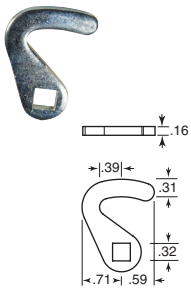
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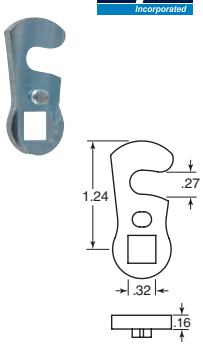
Quarter Turn Latch Accessories



ELH-1100



ELH-1101

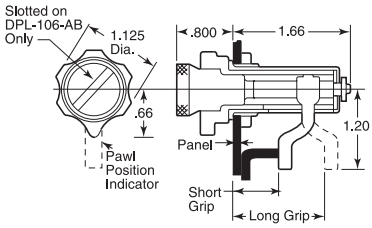


ELH-1102

Item No.	Description	MFG #
ELH-1100	Latch Finger	ELH-1100
ELH-1101	Latch Hooked	ELH-1101
ELH-1102	Latch Hooked	ELH-1102

Quarter Turn Cam Latches





An ideal fastener for gasketed doors and access panels subject to wide thickness or misalignment tolerances. Grip length is variable from 1/8" to 1 7/16" and is set by rotating the center spindle. The DPL-106-KB grip length can be adjusted by hand and the DPL-106-AB grip length is set with a screw driver. The latch can be opened with a quarter turn of the outer ring. Made of steel with black plastic outer ring. Panel thickness .048" min. to .128" max. Installation hole diameter is .765". Installation instructions included.

Item No.	Description	MFG #
DPL-106-KB	Pawl Latch - Manual	DPL-106-KB
DPL-106-AB	Pawl Latch - Slotted	DPL-106-AB

EMKA Product Keys



Type A



Type B



Type C



Type D



Type E



Type F

Item No.	Type	Description	MFG #
ELH-1149	A	Square Female 7mm Zinc Die	ELH-1149
ELH-1150	A	Square Female 8mm Zinc Die	ELH-1150
ELH-1151	A	Triangular 7mm Zinc Die	ELH-1151
ELH-1152	A	Triangular 8mm Zinc Die	ELH-1152
ELH-1153	B	Double Bit 3 Zinc Die	ELH-1153
ELH-1154	B	Double Bit 5 Zinc Die	ELH-1154
ELH-1155	C	Square Female 6mm Zinc Die	ELH-1155
ELH-1156	D	Crown Type Zinc Die	ELH-1156
ELH-1157	E	Double Bit 5 Black Poly Blk	ELH-1157
ELH-1158	E	Double Bit 3 Black Poly Blk	ELH-1158
ELH-333	F	Replacement Key	ELH-333

Adjustable Knob Handle





Spur Washer

Die cast zinc with black powder coated knob handle. Maximum working load 150 lbs. Average ultimate load 340 lbs. Gasket available separately. Optional .885" round installation hole may be used with spur washer, sold separately.

Item No.	MFG #	Grip Range Cam Forward Min.	Grip Range Cam Forward Max.	Grip Range Cam Reversed Min.	Grip Range Cam Reversed Max.
SC-7341	E3-17-15	.45	1.07	2.61	3.00
SC-7342	E3-17-25	1.00	1.62	2.07	2.69
SC-7343*	E3-17-35	1.53	2.15	1.53	2.15
SC-733	E3-24-201-18	Gasket for Gasketed Applications			
SC-734	90-6-875	Spur Washer for Optional Round Hole Installation			

*Straight cam

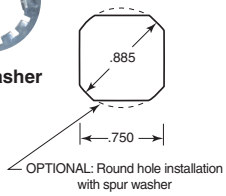
Tubular Key Operated Stainless Steel



Gasket



Spur Washer

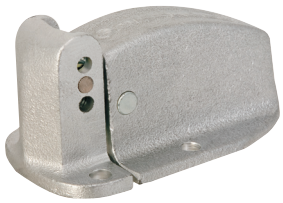


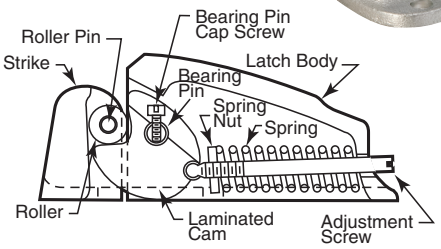
Stainless steel with black powder coated cap. Maximum working load 150 lbs. Average ultimate load 340 lbs. Gasket available separately. Optional .885" round installation hole may be used with spur washer, sold separately.

Item No.	MFG #	Grip Range Cam Forward Min.	Grip Range Cam Forward Max.	Grip Range Cam Reversed Min.	Grip Range Cam Reversed Max.
SC-7431	E3-15-15	.45	1.07	2.61	3.00
SC-7432	E3-15-25	1.00	1.62	2.07	2.69
SC-7433*	E3-15-35	1.53	2.15	1.53	2.15
SC-7430	E3-5-15	Tubular Key			
SC-733	E3-24-201-18	Gasket for Gasketed Applications			
SC-734	90-6-875	Spur Washer for Optional Round Hole Installation			

*Straight cam

Explosion Proof Latches





These pressure release latches provide venting in the event of internal explosion and maintain a seal in order to prevent loss of heat and/or escape of gasses under normal conditions. Latches have an adjustable strike and the release force is adjustable. EP-22 is cast iron and EP-32 is investment cast steel. Instructions included.

Item No.	OAL	Latch Lgth.	Strike Lgth.	Adjustable Release Force Lbs.	MFG #
EP-22	5	3¾	1⅛	10 - 45	**EP-22**
EP-32	7	5⅛	1 9/16	43 - 180	**EP-32**

Miniature Adjustable Grip Latches

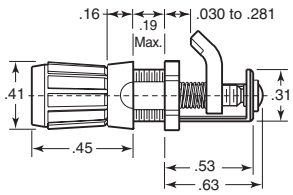


Black Nylon



Slotted

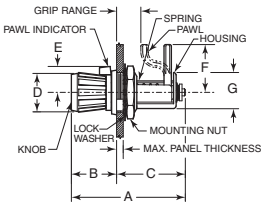
Rugged construction. Single hole installation. Made of zinc plated steel. Maximum working load 35 lbs. Ultimate load 90 lbs. Available with black nylon knob (shown in line drawing) or low profile slotted head.



Item No.	MFG #	Knob Type	Direction to Latch
SC-2713	27-10-311-10	Black Nylon	Clockwise
SC-2715	27-10-501-10	Slotted	Clockwise
SC-2723	27-20-311-10	Black Nylon	Counter Clockwise

Adjustable Grip Latches





Made of carbon steel with black nylon knob. A quarter turn latches or unlatches. Knob includes indicator to make sure cam is in proper position. Compress gaskets, resist vibration.

Item No.	MFG #	A	B	C	D	E	F	G	Grip Range	Max. Panel Thickness
SC-164	16-10-411-14	1.56	.64	.92	.53	.36	.75	.45	.063 - .344	.09
SC-163	16-10-311-14	2.16	.86	1.30	.75	.50	1.06	.61	.063 - .500	.19



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CABINET LATCHES

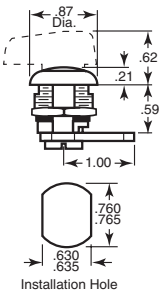
Low Profile Cabinet Latches


Slotted


Hex


Knob

Designed mainly for use on light cabinet doors and panels. A distinctive "snap" lets user know that the latch is fully open or fully closed. The dead bolt latches each come with a hex nut for mounting them to a door or panel. The cam is held in place with a lock washer and screw. Plug barrel and hex nut are zinc die cast. Cam, lock washer and screw are made of steel. Nickel plated finish. Hex accepts ¼" hex tool. For use on panels up to ¼" thick. Cams are straight.

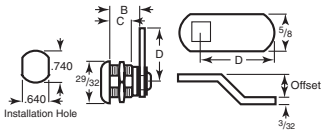


Item No.	Style	MFG #
LOK-520	Slotted	520-XA-NK
LOK-521	Hex	521-XA-NK
LOK-522	Knob	522-XA-NK

Key Locking Cam Latches


Straight


Offset



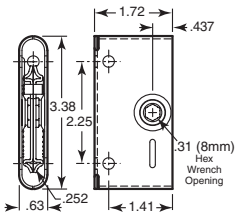
90 degree cam rotation. Zinc alloy die cast housing and cylinder. Five disc tumblers. Stainless steel bezel. Cams are available offset or straight, ⅝" wide and 3/32" thick. Brass keys are keyed alike.

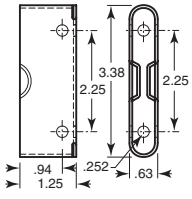
Item No.	B	C	D	Cam Type	MFG #
LOK-600	7/16	¼	⅞	Straight	C-610-XS/KS-13-701

Butt Joint Panel Fastener

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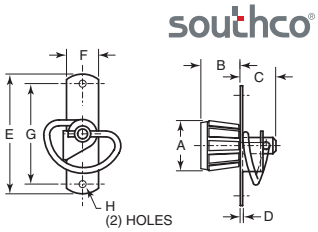
Progressively draws panels together. Helps provide airtight or water tight seal. Adjustability for manufacturing tolerances and gasket shrinkages. Uses 8mm hex to actuate. Bright chromate dipped, zinc plated carbon steel. Ultimate tensile load 1,400 lbs., ultimate shear load 2,000 lbs. Receptacle not included and must be purchased separately.

Item No.	MFG #	Description
SC-225	R2-0055-02	Latch
SC-222	R2-0002-02	Receptacle

Spring Latches - Knob Style

Smooth latching action. Action of spring cam provides wide grip ranges. Specify one size for several applications. Black nylon with stainless steel spring. Housing is bright chromate zinc alloy plated steel with sealer. Designed to be riveted or screwed in place.



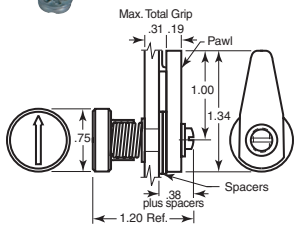


Item No.	MFG #	A	B	C	D	E	F	G	H	Max. Panel Thickness	Installation Hole Dia.	Grip
SC-57341	57-30-401-10	.58	.59	.44	.031	1.56	.416	1.312	.106	.188	.406	.05 to .25
SC-57141	57-10-401-10	.97	.75	.69	.047	2.31	.620	1.940	.136	.250	.625	.06 to .38

Arrowhead Latches

southco®





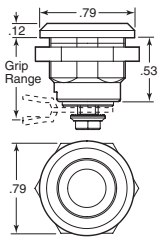
Arrow designates position of the cam. Spring loaded cam creates slight pressure against frame to eliminate rattles and movement. Has die cast zinc knob, steel cam nickel plated brass ferrule and aluminum spacers. Simple one hole installation. Spacers supplied for various panel thicknesses.

Item No.	MFG #	Max. Total Grip	Max. Working Load Lbs.	Avg. Ultimate Load Lbs.
SC-492	49-2	.310	50	200

Cabinet Latches Quarter Turn - Slotted Chrome

EMKA Incorporated

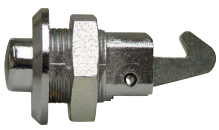


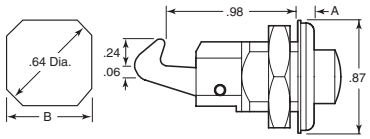


Item No.	Approx. Grip Range	MFG #
ELH-856	¼	**ELH-856**
ELH-857	½	**ELH-857**
ELH-858	¾	**ELH-858**

Push Button Latches Chrome

EMKA Incorporated





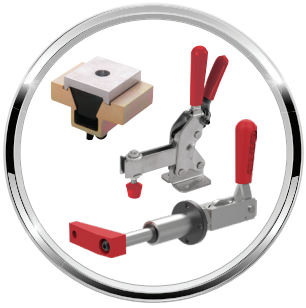
Item No.	A	B	MFG #
ELH-982	.10	.52	**ELH-982**

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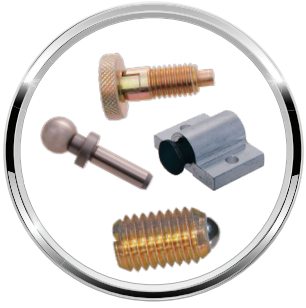
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LATCHES, CATCHES HINGES



ADJUSTABLE HANDLES



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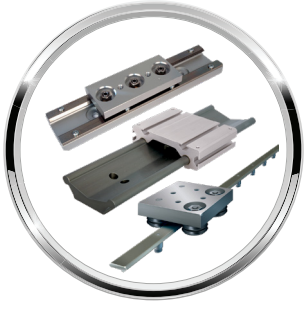
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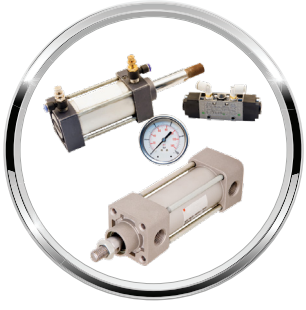
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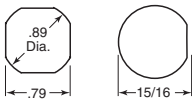
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NEMA RATED T & L LATCHES

All latches are NEMA 4 and IP65 rated. Each latch is shipped assembled and includes the following components: housing, insert, rubber seal, foam in place, gasket, hex nut and cam. Grip range is calculated as the door flange with compressed gasket and cabinet flange. All grip ranges are approximate.



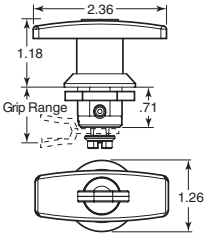
T-Handle

EMKA Incorporated



Non-Locking
Black Polyamide

IP65





Locking
Black Polyamide

Non-Locking Black Polyamide

Item No.	Approx. Grip Range	MFG #
ELH-700	1/4	ELH-700
ELH-701	5/16	ELH-701
ELH-702	3/8	ELH-702
ELH-703	1/2	ELH-703
ELH-704	9/16	ELH-704
ELH-705	5/8	ELH-705
ELH-706	3/4	ELH-706
ELH-707	7/8	ELH-707
ELH-708	15/16	ELH-708
ELH-709	1	ELH-709
ELH-710	1 1/16	ELH-710
ELH-711	1 1/8	ELH-711
ELH-712	1 3/16	ELH-712

Locking Black Polyamide

Item No.	Approx. Grip Range	MFG #
ELH-713	1/4	ELH-713
ELH-714	5/16	ELH-714
ELH-715	3/8	ELH-715
ELH-716	1/2	ELH-716
ELH-717	9/16	ELH-717
ELH-718	5/8	ELH-718
ELH-719	3/4	ELH-719
ELH-720	7/8	ELH-720
ELH-721	15/16	ELH-721
ELH-722	1	ELH-722
ELH-723	1 1/16	ELH-723
ELH-724	1 1/8	ELH-724
ELH-725	1 3/16	ELH-725

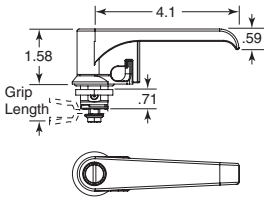
Note: Includes key ELH-333

L-Handle With Padlock Option

EMKA Incorporated



Coin Proof Slotted
Black Die Cast



IP65

Water and Dust Resistant IP65 Rated Electrical Use

Coin Proof Slotted Black Die Cast

Item No.	Approx. Grip Range	MFG #
ELH-726	1/4	ELH-726
ELH-727	5/16	ELH-727
ELH-728	3/8	ELH-728
ELH-729	1/2	ELH-729

Heavy Duty L-Handle With or Without Key Black Powder Coating

EMKA Incorporated

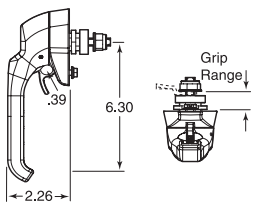


Plain

IP65



Key Locking



Plain

Item No.	Approx. Grip Range	MFG #
ELH-752	1/4	ELH-752
ELH-753	5/16	ELH-753
ELH-754	3/8	ELH-754
ELH-755	1/2	ELH-755
ELH-756	9/16	ELH-756
ELH-757	5/8	ELH-757
ELH-758	3/4	ELH-758
ELH-759	7/8	ELH-759
ELH-760	15/16	ELH-760
ELH-761	1	ELH-761
ELH-762	1 1/16	ELH-762
ELH-763	1 1/8	ELH-763
ELH-764	1 3/16	ELH-764

Key Locking

Item No.	Approx. Grip Range	MFG #
ELH-765	1/4	ELH-765
ELH-766	5/16	ELH-766
ELH-767	3/8	ELH-767
ELH-768	1/2	ELH-768
ELH-769	9/16	ELH-769
ELH-770	5/8	ELH-770
ELH-771	3/4	ELH-771
ELH-772	7/8	ELH-772
ELH-773	15/16	ELH-773
ELH-774	1	ELH-774
ELH-775	1 1/16	ELH-775
ELH-776	1 1/8	ELH-776

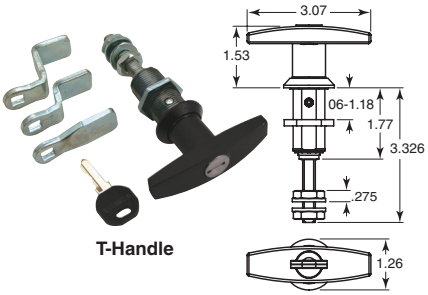
Note: Includes key ELH-333

Be In The Know!

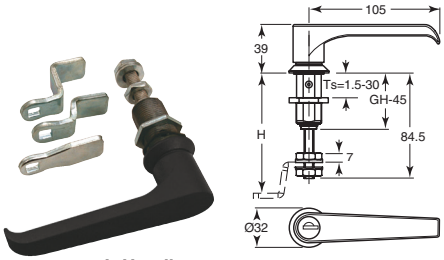
Be the first to know of any recent
PROMOTIONS, COUPON CODES, OR SPECIAL EVENTS.

Scan QR Code to sign up

Compression Latches with Adjustable Cam



T-Handle



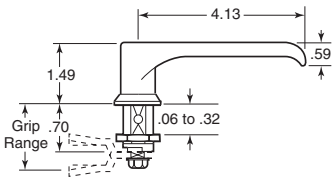
L-Handle

Handles and housing are black powder coated zinc alloy. Each locking handle has one silver steel key with black nylon grip. NEMA 4 and IP65 rated.

Item No.	Description	MFG #
T-Handle		
ELH-1204	T-Handle Non-Locking	
ELH-1205	T-Handle Locking w/ Key ELH-333	
L-Handle		
ELH-1206	L-Handle Non-Locking	
ELH-1207	L-Handle Locking w/ Key ELH-333	

L-Handle Pawl Latches with or without Locks Zinc Die Cast or Stainless Steel



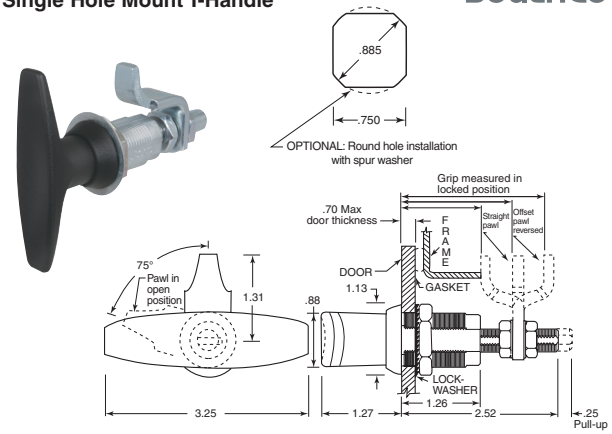


Available in zinc die cast with chrome or black finish and Type 304 stainless steel. Available with or without keyed locks. (Stainless is only available without lock). The locked type are all keyed alike. Keys included.

Item No.	Approx. Grip Range	MFG #	Item No.	Approx. Grip Range	MFG #
Chrome			**Stainless**		
ELH-136	¼	**ELH-136**	**ELH-206**	⅜	**ELH-206**
ELH-141	⅝	**ELH-141**	**ELH-209**	¾	**ELH-209**
ELH-143	¾	**ELH-143**	**ELH-213**	1⅛	**ELH-213**
ELH-146	1	**ELH-146**	**Replacement Key**		
ELH-148	1⅛	**ELH-148**	**ELH-333**	—	**ELH-333**
ELH-149	1 3/16	**ELH-149**			
Black					
ELH-151	5/16	**ELH-151**			
ELH-157	¾	**ELH-157**			
ELH-204*	1⅛	**ELH-204***			
ELH-163	1 3/16	**ELH-163**			

*With lock

Large Size Vise-Action Compression Latches Single Hole Mount T-Handle



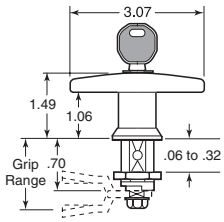
Black powder coated die cast zinc. Keys included with locking models. Gaskets available for gasketed applications. Maximum working load 150 lbs. Average ultimate load 340 lbs. Optional .885" round installation hole may be used with spur washer, sold separately.

Item No.	MFG #	Lock	Grip Range Pawl Forward Min.	Grip Range Pawl Forward Max.	Grip Range Pawl Reversed Min.	Grip Range Pawl Reversed Max.
SC-7331	E3-11-15	No	.45	1.07	2.61	3.00
SC-7332	E3-11-25	No	1.00	1.62	2.07	2.69
SC-7333*	E3-11-35	No	1.53	2.15	1.53	2.15
SC-7334	E3-18-15	Yes	.45	1.07	2.61	3.00
SC-7335	E3-18-25	Yes	1.00	1.62	2.07	2.69
SC-7336*	E3-18-35	Yes	1.53	2.15	1.53	2.15
SC-733	E3-24-201-18	Gasket for Gasketed Applications				
SC-734	90-6-875	Spur Washer for Optional Round Hole Installation				

*Straight cam

T-Handle Pawl Latches with or without Locks





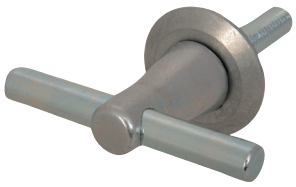
Available in zinc die cast with chrome or black finish. Available with or without keyed locks. All locks are keyed alike. Keys included.

Item No.	Approx. Grip Range	MFG #	Item No.	Approx. Grip Range	MFG #
Chrome			**Black**		
ELH-80	¼	**ELH-80**	**ELH-96**	⅜	**ELH-96**
ELH-83	½	**ELH-83**	**ELH-97**	½	**ELH-97**
ELH-85	⅝	**ELH-85**	**ELH-101**	¾	**ELH-101**
ELH-88	⅞	**ELH-88**			
ELH-90	1	**ELH-90**	**ELH-104**	1	**ELH-104**
ELH-92	1⅛	**ELH-92**	**ELH-107**	1 3/16	**ELH-107**
ELH-93	1 3/16	**ELH-93**	**ELH-124**	⅜	**ELH-124**
Chrome with Lock			**Black with Lock**		
ELH-110	⅜	**ELH-110**	**ELH-129**	¾	**ELH-129**
ELH-121	1 3/16	**ELH-121**	**ELH-130**	⅞	**ELH-130**
Black			**ELH-135**	1 3/16	**ELH-135**
ELH-94	¼	**ELH-94**	**Replacement Key**		
			ELH-333	—	**ELH-333**

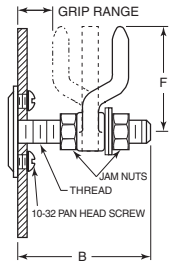
T & L HANDLE LATCHES

T-Handle Latches

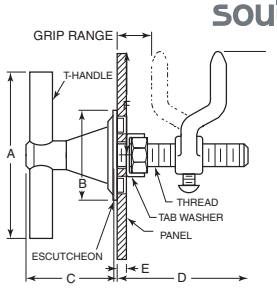
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Wide grip range, restricted 90 degree rotation, mounts from inside panel. No visible mounting hardware. Turn clockwise to open. Die cast zinc. Available either chrome plated or with chemical protective film. Average ultimate load 250 lbs. for small and medium series, 300 lbs. for large series.



Small & Large Series



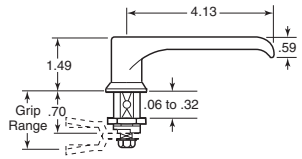
Medium Series

Item No.	MFG #	Finish	Grip Range Pawl Forward	Grip Range Pawl Reversed	Thread	A	B	C	D	(Min.) E	F
Small Series											
SC-6851	68-50-301-10	Film	0-.50	1.00-1.50	5/16-24	2.19	1.06	1.23	1.38	.05	1.34
SC-6852	68-50-301-20	Chrome	0-.50	1.00-1.50	5/16-24	2.19	1.06	1.23	1.38	.05	1.34
SC-6853*	68-50-302-10	Film	.50-1.00	—	5/16-24	2.19	1.06	1.23	1.38	.05	1.34
SC-6854*	68-50-302-20	Chrome	.50-1.00	—	5/16-24	2.19	1.06	1.23	1.38	.05	1.34
Medium Series											
SC-681	68-10-101-10	Film	.13-1.00	1.00-2.00	3/8-16	3.00	1.50	1.73	1.83	.03	1.75
SC-682	68-10-101-20	Chrome	.13-1.00	1.00-2.00	3/8-16	3.00	1.50	1.73	1.83	.03	1.75
Large Series											
SC-6871	68-70-301-10	Film	0-.75	1.00-2.25	7/16-20	4.25	2.13	2.38	2.00	1.38	1.88
SC-6872	68-70-301-20	Chrome	0-.75	1.00-2.25	7/16-20	4.25	2.13	2.38	2.00	1.38	1.88
SC-6873*	68-70-302-10	Film	.25-1.50	1.00-2.25	7/16-20	4.25	2.13	2.38	2.00	1.13	2.56

*Straight pawl

L-Handles

EMKA Incorporated







Locking
Black Polyamide
Clear Zinc Coated

Item No.	Approx. Grip Range	MFG #
ELH-1074	1/4	**ELH-1074**
ELH-1075	5/16	**ELH-1075**
ELH-1076	3/8	**ELH-1076**
ELH-1077	1/2	**ELH-1077**
ELH-1078	9/16	**ELH-1078**
ELH-1080	3/4	**ELH-1080**
ELH-1081	7/8	**ELH-1081**
ELH-1082	15/16	**ELH-1082**
ELH-1084	1 1/16	**ELH-1084**
ELH-1085	1 1/8	**ELH-1085**
ELH-1086	1 3/16	**ELH-1086**
ELH-1079	5/8	**ELH-1079**

Note: Includes key ELH-333

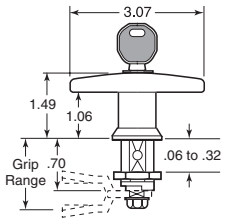
Non-Locking
Black Polyamide
Clear Zinc Coated

Item No.	Approx. Grip Range	MFG #
ELH-1061	1/4	**ELH-1061**
ELH-1062	5/16	**ELH-1062**
ELH-1063	3/8	**ELH-1063**
ELH-1064	1/2	**ELH-1064**
ELH-1065	9/16	**ELH-1065**
ELH-1066	5/8	**ELH-1066**
ELH-1067	3/4	**ELH-1067**
ELH-1068	7/8	**ELH-1068**
ELH-1069	15/16	**ELH-1069**
ELH-1070	1	**ELH-1070**
ELH-1071	1 1/16	**ELH-1071**
ELH-1072	1 1/8	**ELH-1072**
ELH-1073	1 3/16	**ELH-1073**

T-Handles

EMKA Incorporated







Locking

Non-Locking

Locking
Black Polyamide
Clear Zinc Coated

Item No.	Approx. Grip Range	MFG #
ELH-1048	1/4	**ELH-1048**
ELH-1049	5/16	**ELH-1049**
ELH-1050	3/8	**ELH-1050**
ELH-1051	1/2	**ELH-1051**
ELH-1052	9/16	**ELH-1052**
ELH-1053	5/8	**ELH-1053**
ELH-1054	3/4	**ELH-1054**
ELH-1055	7/8	**ELH-1055**
ELH-1056	15/16	**ELH-1056**
ELH-1057	1	**ELH-1057**
ELH-1058	1 1/16	**ELH-1058**
ELH-1059	1 1/8	**ELH-1059**
ELH-1060	1 3/16	**ELH-1060**

Note: Includes key ELH-333

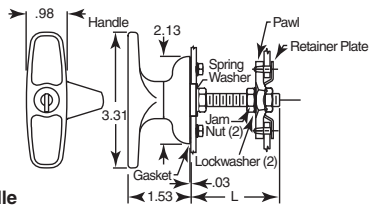
Non-Locking
Black Polyamide
Clear Zinc Coated

Item No.	Approx. Grip Range	MFG #
ELH-1035	1/4	**ELH-1035**
ELH-1036	5/16	**ELH-1036**
ELH-1037	3/8	**ELH-1037**
ELH-1038	1/2	**ELH-1038**
ELH-1039	9/16	**ELH-1039**
ELH-1040	5/8	**ELH-1040**
ELH-1041	3/4	**ELH-1041**
ELH-1042	7/8	**ELH-1042**
ELH-1043	15/16	**ELH-1043**
ELH-1044	1	**ELH-1044**
ELH-1045	1 1/16	**ELH-1045**
ELH-1046	1 1/8	**ELH-1046**
ELH-1047	1 3/16	**ELH-1047**

T-Handle and L-Handle Latches

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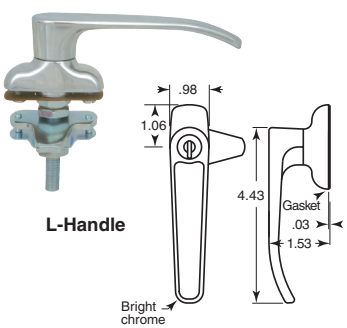




T-Handle

Bright chrome. Available with or without lock. T-handle or L-handle. Turn clockwise to latch. Average ultimate load is 415 lbs.

Item No.	MFG #	Handle	Locking	Grip Range Min.	Grip Range Max.	L
SC-9211	92-21-121	T	Yes	.63	1.25	1.75
SC-9213	92-11-131	T	No	.63	1.75	2.25
SC-9221	92-41-131	L	Yes	.63	1.75	2.25
SC-9223	92-31-131	L	No	.63	1.75	2.25



L-Handle

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Adjustable T-Handle Latches

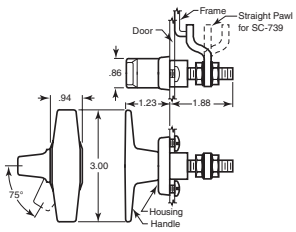
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SC-738



SC-739



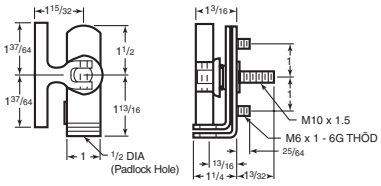
Made of die cast zinc with matte black polyester powder coated and zinc alloy plated steel parts. Maximum working load 100 lbs. Average ultimate load 200 lbs. Three hole mount installation. No. 8-32 screw/ lockwasher assemblies supplied for .16" max. door thickness.

Item No.	MFG #	Grip Range Pawl Forward Min.	Grip Range Pawl Forward Max.	Grip Range Pawl Reversed Min.	Grip Range Pawl Reversed Max.
SC-738	E3-41-15	1.25	1.95	—	—
SC-739*	E3-41-25	.75	1.45	.75	1.45

*SC-739 has a straight pawl

Folding T-Handle



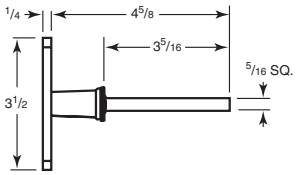


Trivalent zinc finished steel/die cast construction. 5/16" square shank. 360 degree rotation. Blind mount. Padlockable.

Item No.	Description	MFG #
HH-111	Folding T-Handle	S472SXXXZTCT

T-Handle





Zinc plated steel. 5/16" square shank. Handle is 3½" long by ¾" wide.

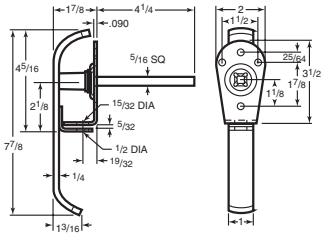
Item No.	Description	MFG #
HH-112	T-Handle	F78TXXXXZNXX



CALL 1.800.253.0421 OR
EMAIL US sales@reidsupply.com
FOR A QUOTE OR QUESTIONS

Padlocking Handle





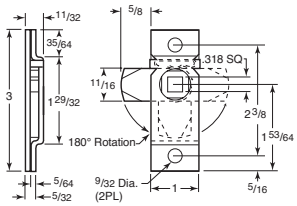
Zinc finished iron/steel construction. Has 5/16" square shank.

Item No.	Description	MFG #
HH-109	Padlocking Handle	S73NSXXXZNXX

Tool Box Lock



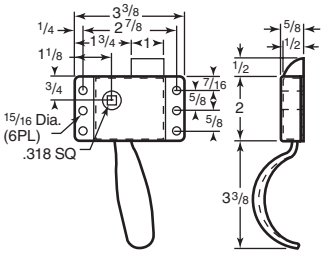
Zinc finished steel. Accepts 5/16" square shank.



Item No.	MFG #
HH-110	F46XXXXXZNXX

Cab Locks



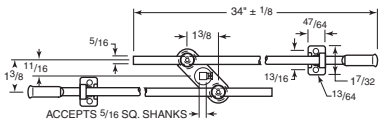


Zinc finished steel. Accepts 5/16" square shank. Inside handle, right or left hand. (Right hand shown)

Item No.	Description	MFG #
HH-107	Right Hand Cabinet	F55XXXRXZNXX
HH-108	Left Hand Cabinet	55LH

2-Point Locking Rod Kit





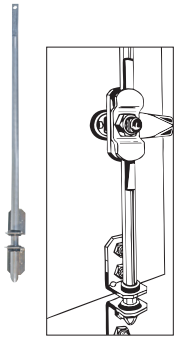
Kit can be used with any 5/16" square shanked handles for two point locking. Kit includes two gold zinc plated steel rods, two plastic rod guides, steel cam, two steel bushings, two wave washers, and three set screws.

Item No.	Description	MFG #
HH-121	Two-Point Locking Rod Kit	**HH-121**

Rod Assemblies

southco®

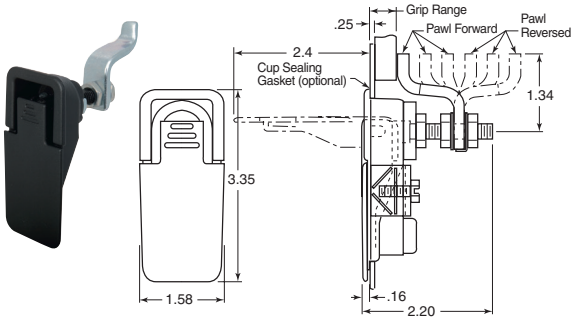
Rod assemblies for two and three point installations of flush recessed latches. Rod assemblies include guide, keeper and rod. Aluminum rods are .34" diameter. Rod assemblies have a .75" throw. Guide and keeper brackets are 1010 steel with black nylon inserts. Latch is not included and must be purchased separately.



Item No.	MFG #	Length
SC-151	A5-31-120-10	12
SC-152	A5-31-240-10	24
SC-153	A5-31-360-10	36
SC-154	A5-31-480-10	48

LIFT & TURN LATCHES

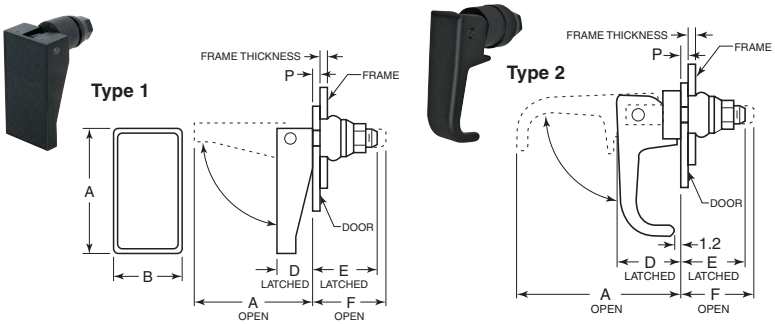
Lift and Turn Compression Latches



Lift handle to relax compression and then turn to open. Handle and sleeve are die cast zinc with either polished chrome or black powder coat finish. Comes with mounting hardware. Maximum working load is 100 lbs. Mounting screws are M5 thread. For panels thicker than .25" a longer screw lockwasher combination will be needed (not supplied).

Item No.	MFG #	Grip Range Pawl Forward Min.	Grip Range Pawl Forward Max.	Grip Range Pawl Reversed Min.	Grip Range Pawl Reversed Max.	Finish
SC-62011	62-40-111-3	.23	.63	2.20	2.59	Polished
SC-62015	62-40-151-3	.23	.63	2.20	2.59	Black Powder
SC-62021	62-40-211-2	1.02	1.41	1.41	1.81	Polished
SC-62025	62-40-251-3	.63	1.02	1.81	2.20	Black Powder
SC-62031	62-40-311-3	1.02	1.41	1.41	1.81	Polished

Swell Latches



Item No.	Frame Thickness	Frame Hole Diameter	Short Term Rated Load Lbs.
SC-1908	Up to .13	0.375	40
SC-1909	Up to .13	.531	100
	.13 to .19	.547	75
SC-1912	.0 to .05	.530	90
	.05 to .10	.530	150
	.10 to .13	.550	140
	.13 to .19	.550	43
SC-1910, SC-1911	.05 to .13	.750	75
	.13 to .19	.766	150
	.19 to .25	.781	125
	.25 and Up	.797	50

Latches in any frame thickness, blind application, glass or plastic. Latches accommodate misalignment between door and frame. Black nylon handle and nut. Black rubber bushing provides sound deadening effect. When handle is lifted bushing diameter decreases allowing it to pass through the hole in the frame to unlatch door.

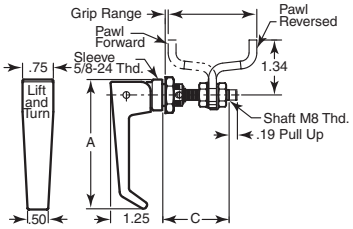
Item No.	MFG #	Type	A	B	D	E	F	P (Max.)	Frame Thickness
SC-1908	19-81-10	1	1.09	.47	.31	.52	.61	.13	Up to .13
SC-1909	19-91-10	1	1.53	.66	.45	.75	.89	.19	Up to .19
SC-1912	19-54-01	1	1.53	.66	.45	.75	.91	.19	Up to .19
SC-1910	19-10-101-10	1	2.19	1.13	.64	1.05	1.23	.25	.05 and Up
SC-1911	19-14-10	2	2.48	.63	1.10	1.15	1.32	.25	.05 and Up

Lift and Turn Latches



Polished or Brushed Chrome

Black Powder Coated



Lift handle to relax compression and then turn to open. Handle and sleeve die cast zinc with either polished chrome, brushed chrome or black powder coat finish. Stainless steel spring and long pin. Other parts are zinc plated steel. Provides consistent compression. Positioning pin assures proper latching. Maximum panel thickness .234".

Item No.	MFG #	Finish	Grip Range Pawl Forward Min.	Grip Range Pawl Forward Max.	Grip Range Pawl Reversed Min.	Grip Range Pawl Reversed Max.	Working Load Lbs.	A	C
SC-6211	62-10-21	Polished	.08	.47	1.25	1.66	125	2.25	1.53
SC-6215	62-10-25	Powder	.08	.47	1.25	1.66	125	2.25	1.53
SC-62131	62-10-31	Polished	.47	.87	.87	1.25	125	2.25	1.53
SC-62135	62-10-35	Powder	.47	.87	.87	1.25	125	2.25	1.53
SC-62111*	62-10-11	Polished	—	—	1.66	2.05	125	2.25	1.53
SC-62115*	62-10-15	Powder	—	—	1.66	2.05	125	2.25	1.53
SC-62311	62-30-11	Polished	0	.20	1.77	2.16	150	3.16	1.65
SC-62312	62-30-12	Brushed	0	.20	1.77	2.16	150	3.16	1.65
SC-62315	62-30-15	Powder	0	.20	1.77	2.16	150	3.16	1.65
SC-6231	62-30-21	Polished	.20	.59	1.37	1.77	150	3.16	1.65
SC-6232	62-30-22	Brushed	.20	.59	1.37	1.77	150	3.16	1.65
SC-62325	62-30-25	Powder	.20	.59	1.37	1.77	150	3.16	1.65
SC-62331	62-30-31	Polished	.59	.98	.98	1.37	150	3.16	1.65
SC-62332	62-30-32	Brushed	.59	.98	.98	1.37	150	3.16	1.65
SC-62335	62-30-35	Powder	.59	.98	.98	1.37	150	3.16	1.65

*Straight pawl

Adjustable Lever Latches

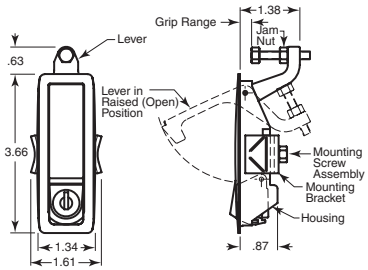
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Non-Locking



Locking



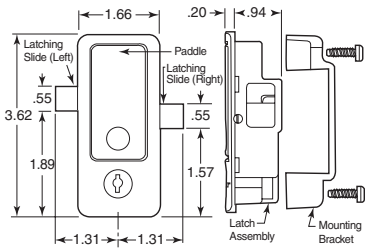
Die cast zinc with stainless steel springs and roll pins. Available in textured chrome or matte black powder coat. Working load 300 lbs. Ultimate load 488 lbs. M5 screws with lock washer supplied. Single hole installation.

Item No.	MFG #	Locking	Grip Range	Finish
SC-42215	C2-32-15	No	.04 to .95	Black
SC-42211	C2-32-11	No	.04 to .95	Chrome
SC-42221	C2-32-21	Yes	.04 to .95	Chrome
SC-42315	C2-33-15	No	.91 to 1.81	Black
SC-42311	C2-33-11	No	.91 to 1.81	Chrome
SC-42321	C2-33-21	Yes	.91 to 1.81	Chrome

Paddle Latch

southco®



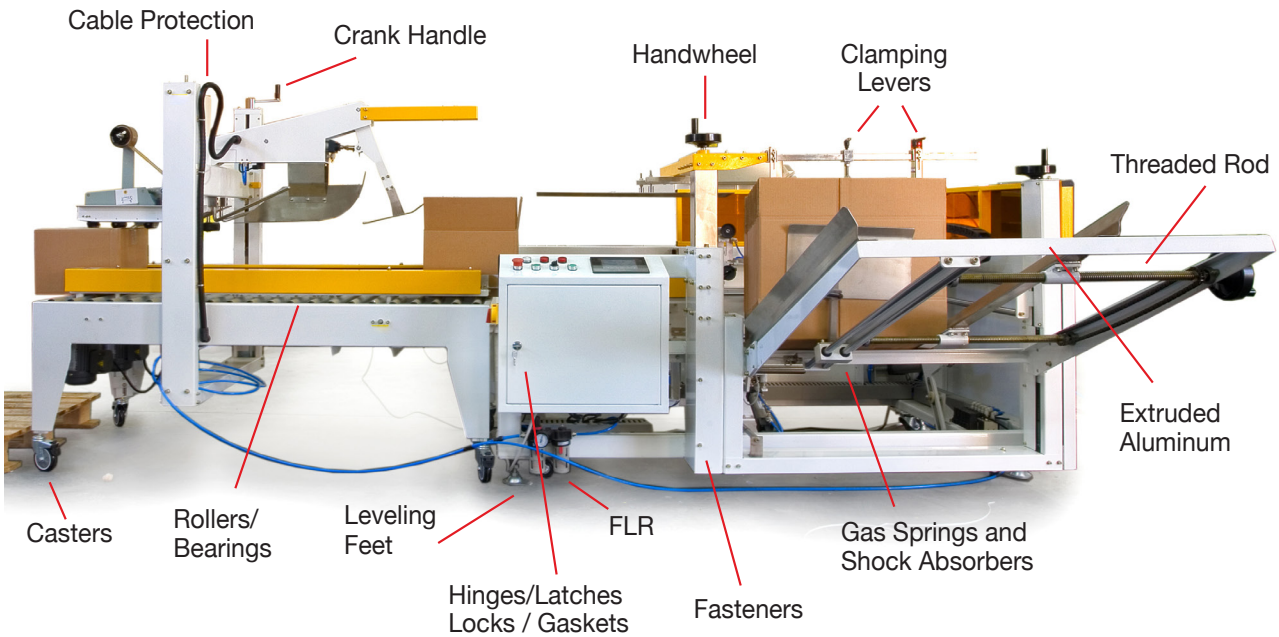


Push-to-close latch accommodates left or right side latching. Corrosion resistant polycarbonate/ABS black resin housing and paddle. Paddle serves as door handle, quick easy installation into 1.45" x 3.33" rectangular hole. Lock plug is glass reinforced acetal with brass wafers. Other parts are glass reinforced nylon. Key lockable with locked/unlocked indicators. Keys are brass. Two M4.2 x 1.4 stainless steel self tapping screws included. Total grip left or right is .25". Maximum working load 112 lbs.

Item No.	MFG #	Description
SC-2125	M1-2F-2-25	Push-to-Close Paddle Latch

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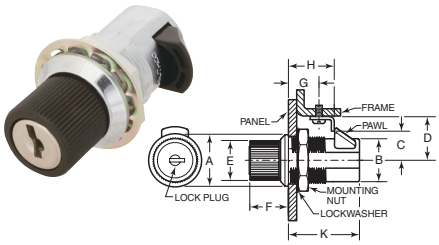
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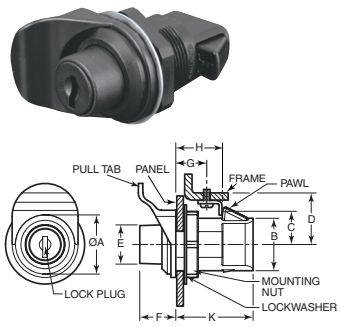
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PUSH BUTTON LATCHES

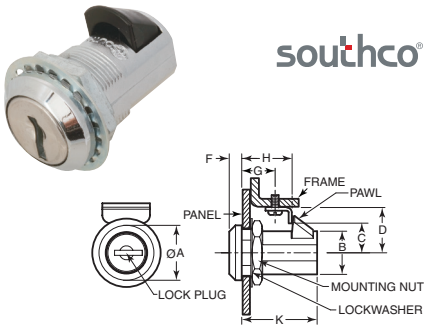
Slam-Action Latches



Knob Style



Push Lock

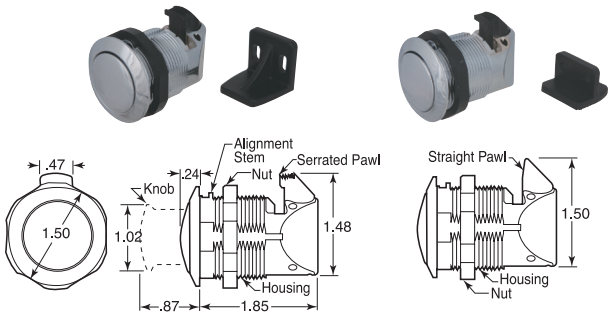


Key Activated

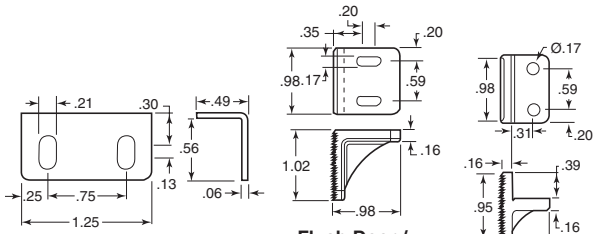
Single hole mounting. Latches by simply pushing door closed. Housing ring is made from die cast zinc chrome plated steel. Knob style has plastic knob. Push lock and knob style are available with or without locks and can be operated without key when left in the unlocked position. Knob style and key activated style will unlatch with a 90 degree turn. Push lock style has plastic body that provides corrosion resistance and unlatches by just pushing the button.

Item No.	MFG #	Style	A	B	C	D	E	F	G	H	K	Max. Lbs. Working Load	Max. Panel Thickness
Knob Style													
SC-9323	93-10-203-10	Knurled Knob	.88	.68	.47	.78	.75	1.06	.47	.812	1.19	75	.375
SC-9312	93-10-102-10	Keylock Knob	1.13	.93	.63	.94	.88	.88	.66	1.000	1.44	125	.500
SC-9313	93-10-103-10	Knurled Knob	1.13	.93	.63	.94	.88	.88	.66	1.000	1.44	125	.500
Push Lock													
SC-9333	93-303	Push Lock w/Keylock & Pull Tab	1.13	.98	.63	.94	.74	.69	.58	.915	1.45	80	.415
SC-9334	93-304	Push Lock w/Pull Tab	1.13	.98	.63	.94	.74	.69	.58	.915	1.45	80	.415
SC-9337	93-307	Push Lock w/Keylock	1.13	.98	.63	.94	.74	.60	.66	1.000	1.54	80	.500
SC-9338	93-308	Push Lock	1.13	.98	.63	.94	.74	.60	.66	1.000	1.54	80	.500
Key Activated													
SC-9321	93-10-201-10	Key Activated	.88	.68	.47	.78	—	.19	.47	.812	1.19	75	.375

Push-To-Close Latches



Self-Adjusting Grip **Fixed Grip**



Perpendicular Door / Frame Configuration **Flush Door / Frame Configuration** **Overlapping Doors**

Knob stores flush, pops out at a touch. Turn the knob to open, push to close. Latches securely with knob in or out. Accommodates misalignment. Use on flush, surface mount, or perpendicular doors. Quick 1.25" diameter round hole installation. Polycarbonate/ABS blended material with glass filled black nylon keepers, nut and pawl. Corrosion and UV resistant. Chrome plated. Internal springs are Type 304 stainless steel. Maximum working load 50 lbs. Available with serrated pawl for self adjusting grip or regular pawl for fixed grip. Keepers included. Keeper for fixed grip is stainless steel.

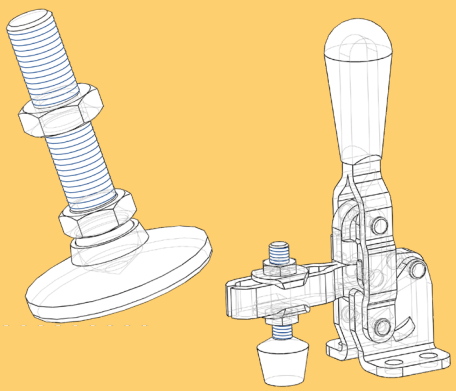
Item No.	MFG #	Description
SC-2102	M1-2A-12-1	Self-Adjusting/Flush Mount Keeper
SC-2101	M1-2A-11-1	Self-Adjusting/Overlapping Door Keeper
SC-2103*	M1-2A-13-1	Fixed Grip for Perpendicular Door Configurations

*Stainless steel keeper

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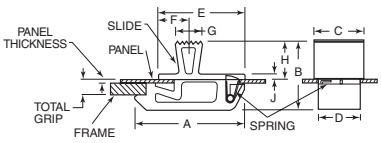
WITH PDF DATA SHEETS!



Slam Action Slide Latches

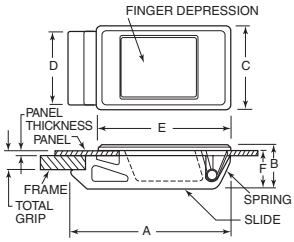


Tab





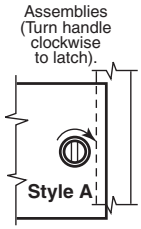
Flush

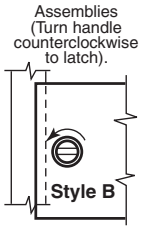


Fast snap in installation. Made of non-corrosive materials; black ABS plastic and stainless steel spring. Push to close latching.

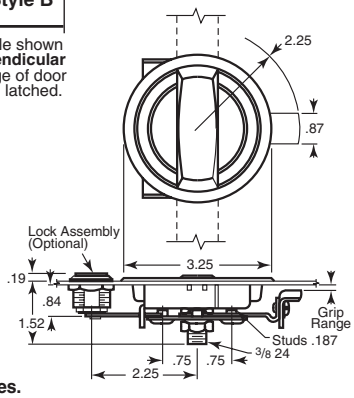
Item No.	MFG #	Panel Style	Total Thickness	Installation Grip	Hole LxW	A	B	C	D	E	F	G	H	J	Working Load (Lbs.)
SC-1320	A3-20-412-12	Tab	.040	.120	.500 x .307	.87	.61	.37	.30	.70	.26	.22	.33	.06	20
SC-1330	A3-30-519-12	Tab	.050	.190	.875 x .562	1.41	.88	.64	.55	1.13	.41	.34	.50	.08	30
SC-1340	A3-40-625-12	Flush	.060	.250	1.500 x 1.00	2.23	.58	1.11	.99	1.84	.50	—	—	.08	40

Flush Recessed Latches









Single, two point or three point latch assemblies. Latches are available in bright chrome plated or matte black finish with a key lock option. Maximum working load 50 lbs. Ultimate load 160 lbs. Rods for two and three point assemblies must be ordered separately.

See page 727 for rod assemblies.

Chrome Plated Steel			Black Matte Finish						
Item No.	MFG #	MFG #	Item No.	MFG #	MFG #	Assemblies	Style	Lock	Grip Range
SC-0101		**01-13-11**	**SC-0111**		**01-13-15**	**1 or 3 Point**	**A**	**No**	**Up to .5**
—		—	**SC-0112**		**01-13-25**	**1 or 3 Point**	**B**	**No**	**Up to .5**
SC-0101-L		**01-33-11**	—		—	**1 or 3 Point**	**A**	**Yes**	**Up to .5**
SC-0102-L		**01-33-21**	—		—	**1 or 3 Point**	**B**	**Yes**	**Up to .5**
SC-0104		**01-13-41**	**SC-0114**		**01-13-45**	**1 or 3 Point**	**B**	**No**	**.5 to 1.13**
SC-0103-L		**01-33-31**	—		—	**1 or 3 Point**	**A**	**Yes**	**.5 to 1.13**
SC-0104-L		**01-33-41**	—		—	**1 or 3 Point**	**B**	**Yes**	**.5 to 1.13**
SC-0105		**01-13-51**	**SC-0115**		**01-13-55**	**2 Point**	**A**	**No**	——
SC-0106-L		**01-33-61**	—	—	—	**2 Point**	**B**	**Yes**	——

Note: Locks are keyed alike.

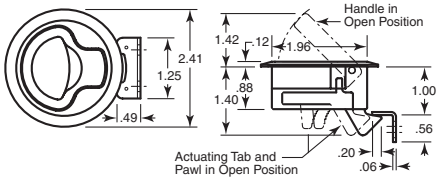
Flush Pull Latches



Non-Locking



Locking



Low profile. Corrosion resistant. Simple 2" round hole installation. Mounts in panels up to .875" thick. Includes tab for inside actuation. Maximum working load 60 lbs. Ultimate load 120 lbs. Black polycarbonate with stainless steel spring, keeper and screws.

Non-Locking			Locking			Panel Thickness Min.	Panel Thickness Max.	Mtg. Bracket Hgt.	Mtg. Screw Lgth
Item No.	MFG #	MFG #	Item No.	MFG #	MFG #				
SC-211*		**M1-61**	**SC-215***		**M1-41**	**.075**	**.275**	**.55**	**.63**
SC-212		**M1-62**	**SC-216**		**M1-42**	**.275**	**.475**	**.55**	**.81**
SC-213		**M1-63**	**SC-217**		**M1-43**	**.475**	**.675**	**.15**	**.63**
SC-214		**M1-64**	**SC-218**		**M1-44**	**.675**	**.875**	**.15**	**.81**

*Latch can be mounted in a min. panel thickness of .040, but requires shorter mounting screws than supplied.

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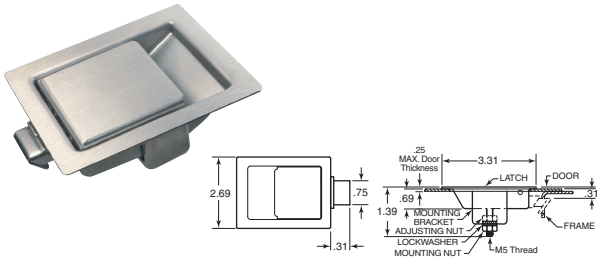
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FLUSH PADDLE LATCHES

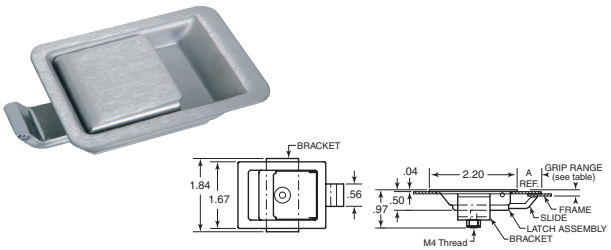
Flush Paddle Latches Large Size



Flush mounting, available either all stainless steel or black powder coated with bright zinc plated slide. Maximum working load is 125 lbs.

Item No.	MFG #	Finish	Installation Hole Length	Installation Hole Width
SC-6420	64-21-10	Stainless Steel	2.81	2.19
SC-6421	64-21-11	Black Powder Coat	2.81	2.19

Flush Paddle Latches Medium Size



Flush mounting, cup, paddle and cover are Type 304 stainless steel. Slide is 1010 steel, chrome plated. Three grip ranges available. Maximum working load is 50 lbs.

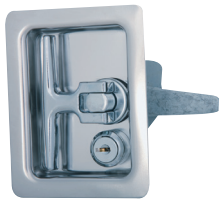
Item No.	MFG #	Grip Range	A	Installation Hole Length	Installation Hole Width
SC-6411	64-11-10	.05 to .08	.45	1.88	1.44
SC-6412	64-11-20	.08 to .11	.47	1.88	1.44
SC-6413	64-11-30	.11 to .14	.48	1.88	1.44

FLUSH LATCHES

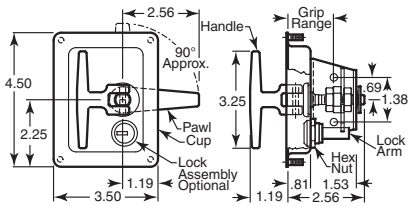
Flush Cup Latches



Non-Locking



Locking



Polished stainless steel cup and bracket. Handle is die cast zinc, chrome plated. Set grip during installation. Includes mounting studs, mounting nuts and lockwashers. Grip range 1.09" to 1.56". Maximum working load 100 lbs. Ultimate load 250 lbs. Turns clockwise to latch.

Item No.	MFG #	Lock
SC-248	24-20-812-35	Yes
SC-243	24-20-302-35	No

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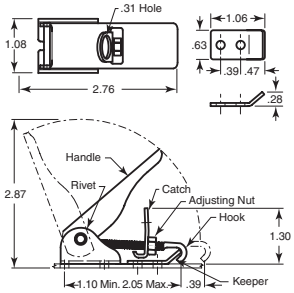
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Vantage-Downunder Latches



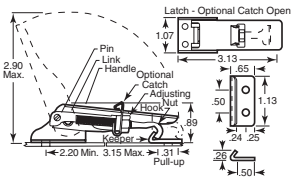
Concealed Base



Concealed Base



Exposed Base



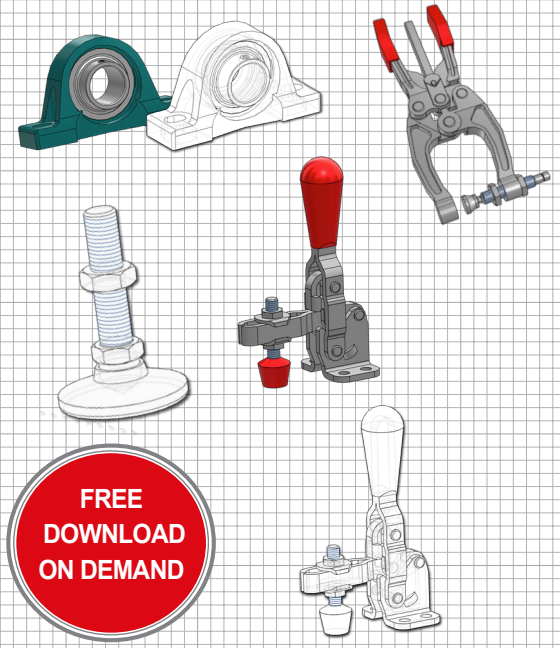
Exponse Base

Under center latch adjusts up to one inch. Available with concealed or exposed bases. Padlock or secondary catch option. Kick out feature moves unlatched hook from keeper. Available in zinc plated steel and bright or black powder coat. Type 300 series stainless steel.

Concealed Base Item No.	MFG #	Exposed Base Item No.	MFG #	Description	Color/Material
SC-91307	91-512-07	**SC-911**	91-552-07	Latch	Zinc Plated Steel
SC-91352	91-512-52	**SC-912**	91-552-52	Latch	Bright Stainless
SC-910	91-512-25	**SC-913**	91-552-25	Latch	Black Stainless
SC-91527	91-522-07	**SC-915**	91-562-07	Latch w/ Secondary	Zinc Plated Steel
SC-914	91-522-52	**SC-916**	91-562-52	Latch w/ Secondary	Bright Stainless
SC-91537	91-532-07	**SC-918**	91-572-07	Latch w/ Padlock	Zinc Plated Steel
SC-917	91-532-52	**SC-919**	91-572-52	Latch w/ Padlock	Bright Stainless
SC-91607	91-600-07	**SC-841**	K4-2338-07	Keeper	Zinc Plated Steel
SC-91652	91-600-52	**SC-845**	K4-2338-52	Keeper	Bright Stainless
SC-91663	91-600-63	**SC-846**	K4-2338-63	Keeper	Black Stainless

Note: Keepers not included and must be purchased separately. Average ultimate load 350 lbs.

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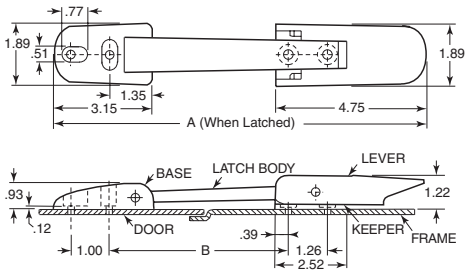


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Aerolatch™ Lever Assisted





Non-corrosive and UV resistant lever assisted draw latch. To operate, align pivot bosses on lever with slots in keeper. Snap lever over keeper detent. Overcenter action and detent keep latch closed. Latch absorbs and reduces vibration. Base, lever and keeper are made of black glass filled nylon. Latch body is black EPDM Rubber. Four mounting holes are designed for #10 screws (not included). Clamp forces listed are for average steady state at room temperatures.

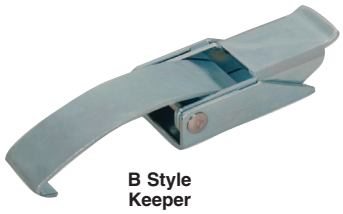
Item No.	MFG #	A	B	Clamp Force
SC-3734	37-30-294-60	10	3.82	25
SC-3735	37-40-295-60	12	5.67	79

Over Center Draw Latches

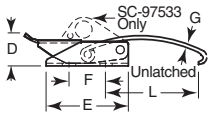
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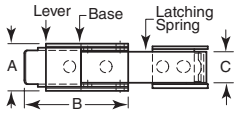
A Style Keeper



B Style Keeper









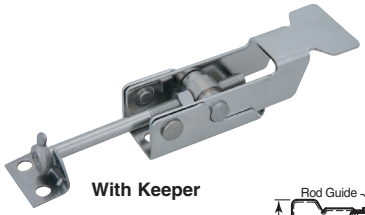
Case hardened steel and passivated stainless steel. Latches mount with M4 or No. 8 screws or 5/32" rivets. For type B keeper use a counter sunk screw.

Item No.	MFG #	Keeper Style	A	B	C	D	E	F	G	H	J	K	L	Clamping Strength Lbs.
Light Duty - Steel														
SC-973611	97-30-161-11	A	.50	1.08	.33	.31	.85	.380	.035	.56	.42	.14	.89	30
SC-973631	97-30-163-11	B	.50	1.08	.33	.31	.85	.380	.035	.30	.20	.14	.89	30
SC-975111	97-50-111-11	A	.89	1.91	.59	.56	1.50	.687	.042	.97	.75	.25	1.16	70
SC-975211	97-50-121-11	A	.89	1.91	.59	.56	1.50	.687	.042	.97	.75	.25	1.66	70
SC-975231	97-50-123-11	B	.89	1.91	.59	.56	1.50	.687	.042	.44	.31	.25	1.66	70
Heavy Duty - Steel														
SC-975511	97-50-151-11	A	.89	1.91	.59	.56	1.50	.687	.062	.97	.75	.25	1.16	150
SC-975611	97-50-161-11	A	.89	1.91	.59	.56	1.50	.687	.062	.97	.75	.25	1.66	150
SC-975631	97-50-163-11	B	.89	1.91	.59	.56	1.50	.687	.062	.44	.31	.25	1.66	150
SC-975711	97-50-171-11	A	.89	1.91	.59	.56	1.50	.687	.062	.97	.75	.25	2.16	150
SC-975731	97-50-173-11	B	.89	1.91	.59	.56	1.50	.687	.062	.44	.31	.25	2.16	150
Light Duty - Type 300 Series Stainless Steel														
SC-97361	97-30-161-12	A	.50	1.08	.33	.31	.85	.380	.035	.56	.42	.14	.89	30
SC-97363	97-30-163-12	B	.50	1.08	.33	.31	.85	.380	.035	.30	.20	.14	.89	30
SC-975112	97-50-111-12	A	.89	1.91	.59	.56	1.50	.687	.042	.97	.75	.25	1.16	70
SC-975132	97-50-113-12	B	.89	1.91	.59	.56	1.50	.687	.042	.44	.31	.25	1.16	70
SC-97511	97-50-121-12	A	.89	1.91	.59	.56	1.50	.687	.042	.97	.75	.25	1.66	70
SC-97513	97-50-123-12	B	.89	1.91	.59	.56	1.50	.687	.042	.44	.31	.25	1.66	70
SC-97533*	97-50-323-12	B	.89	1.91	.59	.56	1.50	.687	.042	.44	.31	.25	1.66	70
SC-975312	97-50-131-12	A	.89	1.91	.59	.56	1.50	.687	.042	.97	.75	.25	2.16	70
SC-975332	97-50-133-12	B	.89	1.91	.59	.56	1.50	.687	.042	.44	.31	.25	2.16	70

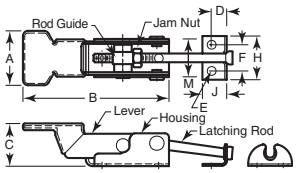
*Hole for padlock

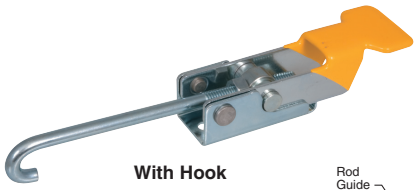
Adjustable Draw Latches

southco®

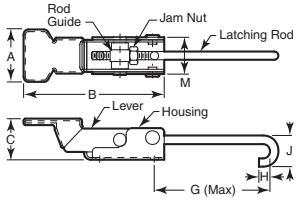


With Keeper





With Hook



Threaded rod allows periodic adjustments where gasketing and material tolerances may vary. All are passivated Type 300 series stainless steel, except SC-1511 and SC-1722 which are zinc plated steel. SC-1722 has a yellow vinyl grip.

Item No.	MFG #	A	B	C	D	E	F	G Max.	H	J	M	Working Load Strength Lbs.	Ultimate Load Lbs.	Adjustment
With Keeper														
SC-1511	A1-10-501-10	1.06	2.66	.78	.31	.203	.50	—	.88	.56	.82	40	75	.75
SC-1514	A1-10-501-40	1.06	2.66	.78	.31	.203	.50	—	.88	.56	.82	40	75	.75
SC-1714	A1-10-701-40	1.56	4.45	1.25	.44	.265	.75	—	1.21	.75	1.21	200	400	1.31
With Hook														
SC-1722*	A1-11-702-20	1.69	4.52	1.31	—	—	—	4.44	.36	1.00	1.21	700	1,100	1.31
SC-1724	A1-11-702-40	1.56	4.45	1.25	—	—	—	4.44	.36	1.00	1.21	700	1,100	1.31

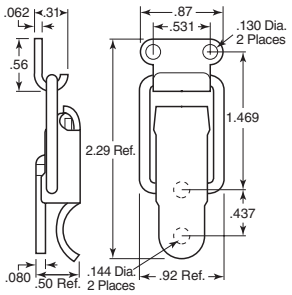
*With yellow vinyl grip

LATCHES

Straight Loop Catches

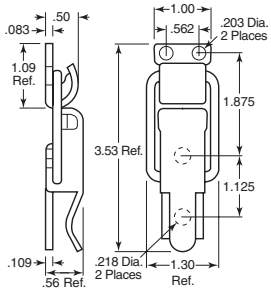
CD Hardware





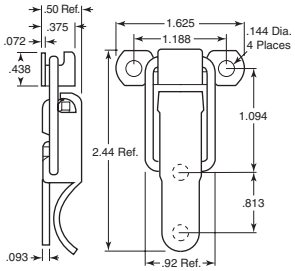
Type A





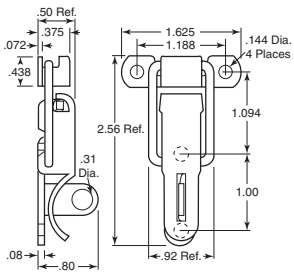
Type B





Type C





Type D

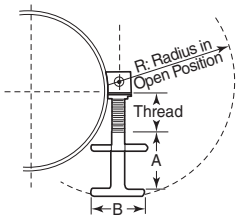
High strength overcenter catch and strike. Economical and compact. Available in plain steel, zinc plated steel and Type 304 stainless steel, with or without mounting holes. Strike is included. Dimensions are as mounted. To increase tension, increase catch/strike separation.

Item No.	Type	Holes	Material/ Finish	MFG #	Item No.	Type	Holes	Material/ Finish	MFG #
NSH-2041	A	Yes	Zinc	CA-2040-ST-CZ-144/SK-2000-ST-CZ-144	**NSH-2241**	C	Yes	Zinc	CA-2240-ST-CZ/SK-2240-ST-CZ-144
NSH-2042	A	No	Plain	CA-2040-ST-NF-000/SK-2000-ST-NF-000	**NSH-2242**	C	No	Plain	CA-2240-ST-NF-000/SK-2270-ST-NF-000
NSH-2043	A	Yes	Stainless	CA-2040-SS-CP-144/SK-2000-SS-CP-144	**NSH-2271**	D	Yes	Zinc	CA-2270-ST-CZ-144/SK-2270-ST-NF-000
NSH-2051	B	Yes	Zinc	CA-2050-ST-CZ-218/SK-2050-ST-CZ-218	**NSH-2272**	D	No	Plain	CA-2270-ST-NF-000/SK-2270-ST-NF-000
NSH-2052	B	No	Plain	CA-2050-ST-NF-000/SK-2070-ST-NF-000	**NSH-2273***	D	Yes	Stainless	CA-2270-SS-CP-144/SK-2270-SS-CP-144

*Padlockable

Lorenz Clamps





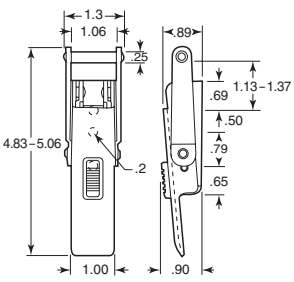
Patented quick clamp is ideal for door openings on bins, hoppers, tanks and manholes. T-handle allows torque without tools. The one piece unit is made of highly polished Type 304 stainless steel. Full 2" adjustment. 180 degree pivot when disengaged, leaving access doorway unobstructed. Will not loosen through vibration. Brackets supplied for easy installation.

Item No.	Thread	A	B	R	MFG #
LZ-250	¼	3½	3	6½	250LC
LZ-312S	5/16	2½	3	4⅝	312LCS
LZ-312	5/16	3½	3	6½	312LC
LZ-375S	⅜	2½	3	4⅝	375LCS
LZ-375	⅜	3½	3	6¾	375LC
LZ-500	½	3½	3	6¾	500LC

Adjustable Latches

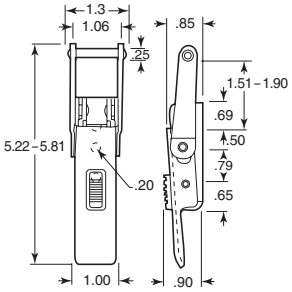


Spring Loaded Latch



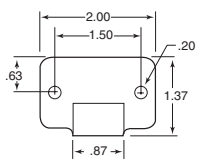


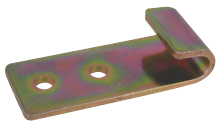
Adjustable Latch



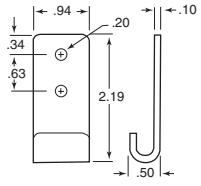


Wide Keeper





J Keeper

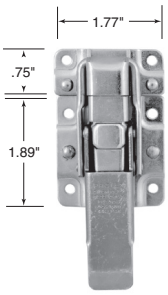


These latches can be used in applications where variances occur. Latches are zinc plated steel. Keepers must be ordered separately. Either keeper can be used with either latch listed below.

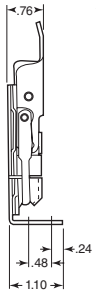
Item No.	Description	MFG #
PX-19	Spring Loaded Latch	71-2600MSZN
PX-22	Adjustable Latch	71-2573MSZN
PX-20	Wide Keeper	01-1273MSZN
PX-21	J Keeper	02-1273MSZN

MOST PRODUCTS SHIP SAME DAY

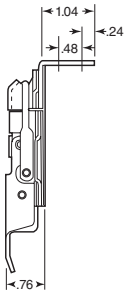
Catchbolt® Adjustable Latches



Catchbolt



Inside 90 Degree Catchbolt



Outside 90 Degree Catchbolt

Holds firmly in three directions. Initial action pulls two parts together. As lever is latched an integral deadbolt slides into keeper forcing a panel or door to stay firmly in place with no movement in any direction. Six mounting holes are .16" diameter. Latch height when closed is .71". Material is Type 302 / 304 stainless.

Item No.	Description	Ultimate Strength lbs. X	Y	Z	MFG #
PX-880	Catchbolt	882	1,984	882	88-1068MSZN
PX-11	Inside 90 Degrees Catchbolt	882	1,984	882	8907-1069MSZN
PX-12	Outside 90 Degrees Catchbolt	882	1,984	882	8903-1069MSZN
PX-881	Stainless Catchbolt	1,323	1,984	1,323	88-1068SS

Draw Pull Catches

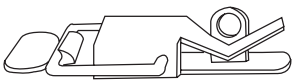


Style B
Non-Padlockable





Style C
Padlockable



Draw pull catches are available in two sizes. Available in zinc finished steel, and Type 304 stainless steel. HG-83341-R is padlockable. Strike included.

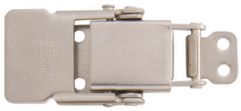
Item No.	Style	OAL	Overall Width	Mounting Holes	Material	Finish	MFG #
HG-83323	B	2.25	.93	.130	Type 304 Stainless Steel	None	Z-08222
HG-83332	B	3.93	1.03	.195	Steel	Zinc	Z-08224
HG-83333	B	3.93	1.03	.195	Type 304 Stainless Steel	None	Z-08225
HG-83341-R*	C	3.93	1.03	None	Steel	None	Z-08226

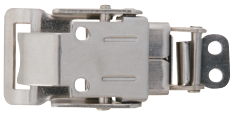
*Padlockable

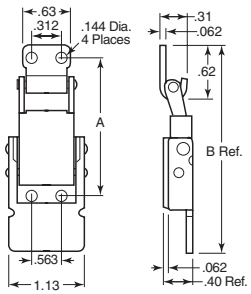
STANDARD QUOTES
IN 4 HOURS OR LESS

Compression Spring Catches

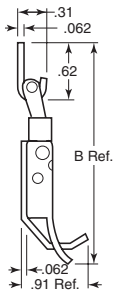
CDH Hardware







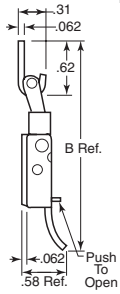
Straight Lever



Padlockable



Zinc Plated Steel
Straight Lever



Secondary Catch

Mounting For Desired Tension Lbs.	A	B
30	1.813	2.79
50	1.875	2.85
70	1.938	2.91

Three internal compression springs supply up to 70 pounds of spring tension. Available as padlockable or with secondary catch. Spring tension compensates for gasket set. Provides exact tension for water tight and air tight seals. All are Type 304 stainless steel except NSH-8331 which is zinc plated steel. To increase tension, increase catch/strike separation.

Item No.	Description	MFG #
NSH-8331*	Straight Lever	CA-3500-ST-CZ-144/ SK-3500-ST-CZ-144
NSH-8332	Straight Lever	CA-3500-SS-CP-144/ SK-3500-SS-CP-144
NSH-8333	Padlockable	CA-3530-SS-CP-144/ SK-3500-SS-CP-144
NSH-8334	Secondary Catch	CA-3540-SS-CP-144/ SK-3500-SS-CP-144

*Zinc plated steel



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OUR TEAM IS HERE AND READY TO HELP

DRAW LATCHES

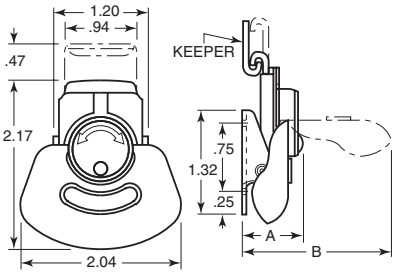
Link Lock Rotary Action Draw Latches



Latch



Keeper

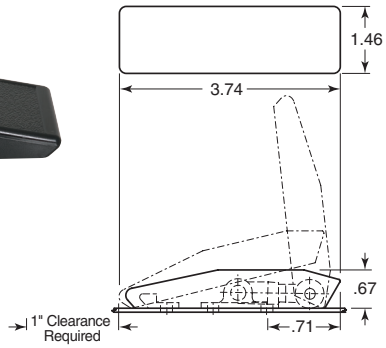


Draws panels together with overcenter clamping force and slide travel of .47". Simply lift wing and twist to disengage. Available with spring loaded option for mounting hole irregularities or shock and vibration. Type 300 series stainless steel or steel with black UV resistant powder coat. Working load for stainless is 190 lbs., steel is 275 lbs. Keepers not included and must be purchased separately.

Item No.	MFG #	Material	Description	A	B
SC-K258	K2-3005-89	Steel	Springloaded	.73	1.89
SC-K255	K2-3005-51	Stainless	Latch	.73	1.89
SC-K259	K2-3001-89	Steel	Fixed	.71	1.85
SC-841	K4-2338-07	Steel	Keeper	—	—
SC-842	K4-2338-89	Steel	Keeper	—	—
SC-843	K4-2338-51	Stainless	Keeper	—	—

Draw Latches Adjustable Style

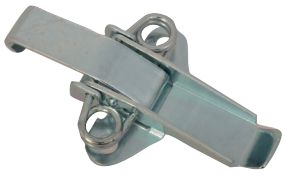




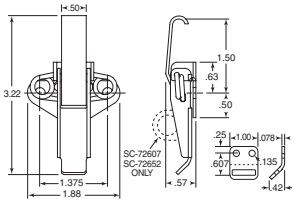
Base, clevis, pivot nut and keeper are glass reinforced black nylon. Cover and retainer are black acetal. Adjustment nut is passivated stainless steel. Maximum working load 350 lbs. Average ultimate load 500 lbs. Keeper included.

Item No.	MFG #	Description
SC-7522	E8-10-502-20	Non-Corrosive Adjustable Draw Latch

Versa Latch™ Tension Latches



Non-Padlockable



Latches		Keepers		
Item No.	MFG #	Item No.		MFG #
Steel				
SC-72507	V2-0025-07	**SC-7207**	400	V2-0025-07
SC-72607*	V2-0026-07	**SC-7207**	400	V2-0026-07
SC-74602	V4-0006-02	**SC-7402**	800	V4-0006-02
Type 300 Series Stainless Steel				
SC-72552	V2-0025-52	**SC-7252**	380	V2-0025-52
SC-72652*	V2-0026-52	**SC-7252**	380	V2-0026-52
SC-74652	V4-0006-52	**SC-7452**	800	V4-0006-52

*Similar to SC-72507 and SC-72552 but padlockable

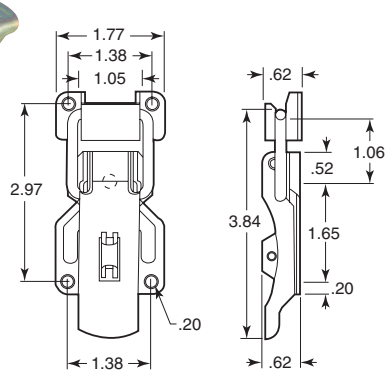
ProLatch™



Latch



Keeper



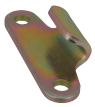
ProLatch is ideal for gasketed applications. The latch forces a panel against a seal and holds firmly in two planes. A safety catch is incorporated. The keeper for the PX-14 must be ordered separately. Made of zinc plated steel. Ultimate strength is 715 lbs.

Item No.	Description	MFG#
PX-14	ProLatch	640-1000MSZN
PX-15	Keeper for PX-14	001-1000MSZN

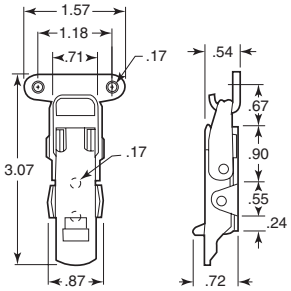
Junior ProLatch™



Latch

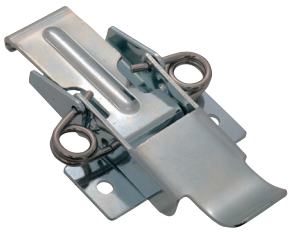


Catch

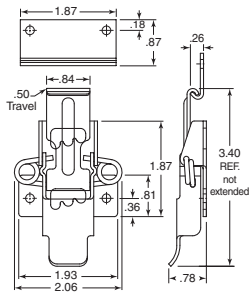


Similar to above ProLatch but for smaller applications. Ultimate breaking strength is 325 lbs. Keeper for PX-17 must be ordered separately.

Item No.	Description	MFG#
PX-17	Junior ProLatch	270-600MSZN
PX-18	Keeper for PX-17	001-600MSZN



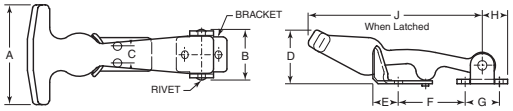
Padlockable



Torsion springs compensate for application irregularities. Easy to grasp handle design. Steel is zinc plated carbon steel with bright chromate dip. Type 300 series stainless steel are passivated. Keepers not included and must be purchased separately. SC-72607 and SC-72652 are padlockable.

Draw Latches
T-Handle





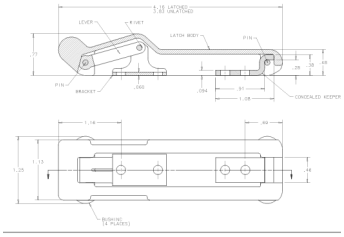
Black rubber T-handle with metal bracket and keeper. Shipped assembled. Installs with .1875" rivets or #10 screws. Can be welded. Keeper is included.

Zinc Plated Steel			Stainless Steel												Avg. Ultimate Load (Lbs.)
Item No.	MFG #	MFG #	Item No.	MFG #	MFG #	A	B	C	D	E	F	G	H	J	
SC-37711	6.80	37-10-071-10P	**SC-37712**	6.91	37-10-071-20P	1.88	.95	.50	.75	.50	1.25	.63	.47	2.94	32
SC-37861	8.13	37-10-086-10P	**SC-37862**	11.53	37-10-086-20P	2.44	1.25	.44	1.25	.72	1.50	.88	.66	4.00	64
SC-37011	13.60	37-10-101-10P	**SC-37012**	16.16	37-10-101-20	3.13	1.55	.50	1.25	1.02	2.00	1.00	.75	5.13	82

Note: Holes are parallel with latch rather than perpendicular as pictured and install with .125 rivets or #5 screws.

Center Draw Latches
Concealed Keeper, Non Locking



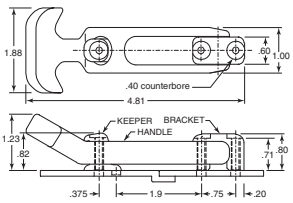


Tolerates misalignment. UV resistant thermoplastic elastomer body, glass reinforced nylon link and bushings, stainless steel rivet, pins, keeper and bracket. Cushions impact absorbs vibration. Keeper included.

Item No.	MFG #	Description
SC-4710	C7-10	Soft Latch

Flexible T-Handle
Non-Conductive





No metal parts. UV resistant, self aligning. Built in drag prevents handle flopping. Steady state clamp force 10 lbs. Mounts with M5, #10 screws or 3/16" rivets. Keeper included. Thermoplastic elastomer.

Item No.	MFG #	Description
SC-1753	F7-53	Flexible Draw Latch

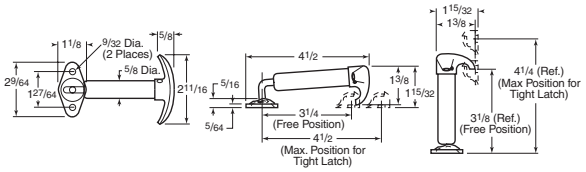
Spring Loaded Latches
Hood Latches



90 Degrees



Straight



Steel construction with either black enamel or chrome finish. 90 degree or straight mounting options. Keeper included.

Black		Chrome		
Item No.	MFG #	Item No.	MFG #	Mounting
HH-361	S36EXXXXBE01	**HH-363**	S36EXXXXCR01	90 degrees
HH-362	S36SXXXXBE01	**HH-364**	S36SXXXXCR01	Straight

Be The First To Know!

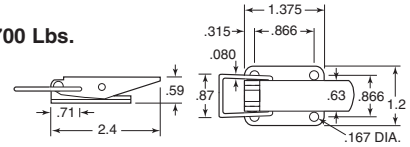
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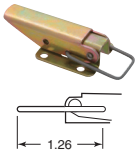
DRAW LATCHES & KEEPERS

These versatile, medium size toggle latches are built for tough use on chests, cabinets, etc. Steel latches and strikes are zinc plated with a bright chromate finish. Stainless latches and strikes are made from Type 300 series stainless. All mounting holes on latches and strikes will accept .156" dia. rivets or #6 round head screws. Latches that do not require strikes are designed to latch on notches, corners, lips, etc. The secondary latch prevents accidental opening. **Note:** Strikes are not included with the latch and must be purchased separately.

800 Series
Strength: Ultimate: 700 Lbs.
Working: 100 Lbs.
Pull Up Ability: .6"

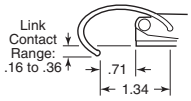




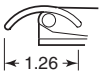


DTL-800A

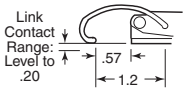




DLT-800DA
(no strike needed)



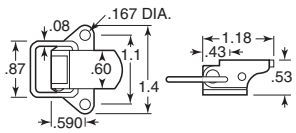
DTL-800G



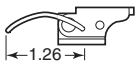
DLT-800DA
(no strike needed)

Item No.	Material	Secondary Lock	MFG #	Item No.	Material	Secondary Lock	MFG #
DTL-800DB	**Steel**	**No**	TL-40-105-07	**DTL-800GX**	**Steel**	**Yes**	7880-724-Z3Y
DTL-800DA	**Steel**	**No**	TL-40-104-07	**DTL-800GSS**	**Steel**	**No**	TL-40-103-52
DTL-800G	**Steel**	**No**	7880-7-Z3Y	**DTL-800A**	**Steel**	**No**	7880-1-Z3Y
				DTL-800ASS	**Stainless**	**No**	TL-40-101-52

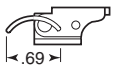
803 Series
Strength: Ultimate: 220 Lbs.
Working: 45 Lbs.
Pull Up Ability: .2"



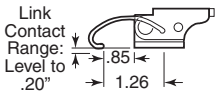




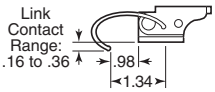
DTL-803G



DTL-803B



DTL-803DA
(no strike needed)

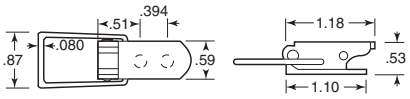


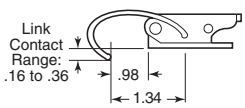
DTL-803DB
(no strike needed)

Item No.	Material	MFG #	Item No.	Material	MFG #
DTL-803DB	Steel	TL-20-102-07	**DTL-803G**	Steel	7883-7-Z3Y
			DTL-800GSS	Steel	TL-20-103-52

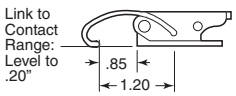
806 Series
Strength: Ultimate: 220 Lbs.
Working: 45 Lbs.
Pull Up Ability: .2"







DTL-806DB
(no strike needed)

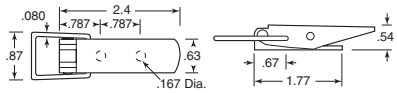


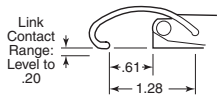
DTL-806DA
(no strike needed)

Item No.	Material	MFG #	Item No.	Material	MFG #
DTL-806DB	Steel	TL-20-205-07	**DTL-806DA**	Steel	TL-20-204-07
DTL-806DBSS	Stainless	TL-20-205-52	**DTL-806DASS**	Stainless	TL-20-204-52

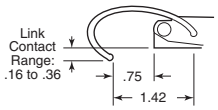
802 Series
Strength: Ultimate: 700 Lbs.
Working: 100 Lbs.
Pull Up Ability: .6"







DTL-802DA
(no strike needed)

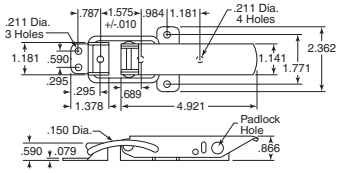


DTL-802DB
(no strike needed)

Item No.	Material	MFG #	Item No.	Material	MFG #
DTL-802DB	Steel	TL-40-205-07			
DTL-802DA	Steel	7882-41-Z3Y	**DTL-802A**	Steel	TL-40-201-07

200 Series - Heavy Duty w/Pad Lock Hole
Strength: Ultimate: 1,500 Lbs.
Working: 600 Lbs.

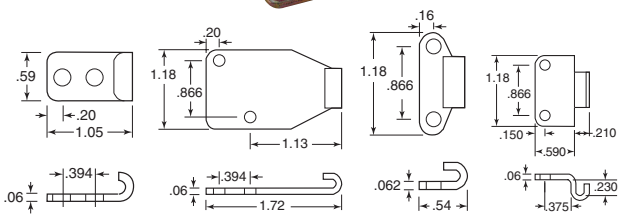




Item No.	Description	Pull Up	MFG #
DTL-200B	Latch	1.0	TL-60-102-07
DTL-200-5	Strike	—	TL-17-601-07

Strikes
Steel and Stainless





DTL-802-2 **DTL-800-5** **DTL-800-7** **DTL-800-9**

Any of these strikes may be used with any 800, 802, 803 and 806 latch. All mounting holes are .167" dia.

Item No.	MFG #	Item No.	MFG #
Steel		**Stainless**	
DTL-802-2	TL-17-202-07	**DTL-800-7SS**	TL-17-201-52
DTL-800-5	TL-17-205-07		
DTL-800-7	TL-17-201-07		
DTL-800-9	TL-17-203-07		

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

These adjustable grip toggle latches allow you to easily adjust both the grip length and locking tensions. The optional secondary latch prevents accidental opening. Made from cold rolled steel, zinc plated with a bright chromate finish.

100 Series - Adjustable Grip
Strength: Ultimate: 800 Lbs.
Working: 600 Lbs.



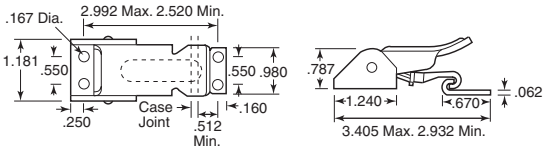
Without Secondary Lock



With Secondary Lock



Strike



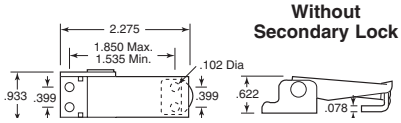
Item No.	Description	Secondary Lock	Pull Up	Adjustment	MFG #
DTL-100A	Latch	No	.16	.45	91-452-07
DTL-100AX	Latch	Yes	.16	.45	91-462-07
DTL-100-5	Strike	—	—	—	91-612-07

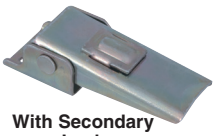
Note: Strikes are not included with latches and must be purchased separately.

110 Series - Adjustable Grip
Strength: Ultimate: 326 Lbs.
Working: 270 Lbs.



Without Secondary Lock

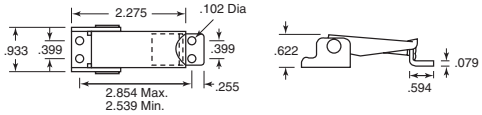




With Secondary Lock



Strike



Item No.	Description	Secondary Lock	Pull Up	Adjustment	MFG #
DTL-110A	Latch	No	.31	.31	91-351-07
DTL-110AX	Latch	Yes	.31	.31	91-361-07
DTL-110-5	Strike	—	—	—	91-630-07
DTL-110-15	Strike	—	—	—	91-634-07

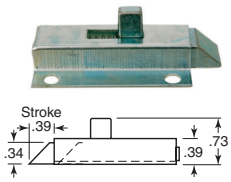
Note: Strikes are not included with latches and must be purchased separately.

NEED A QUOTE?

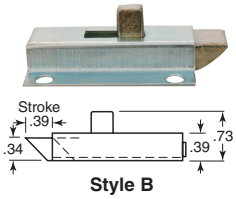
CALL US: (800) 253-0421
EMAIL US: sales@reidsupply.com

Slam Locks

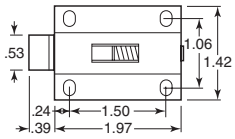
EMKA Incorporated



Style A



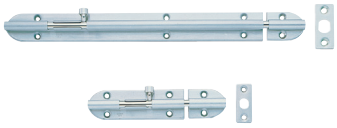
Style B

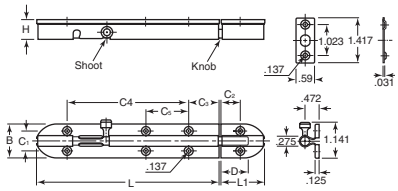


Made of zinc plated steel. Spring activated. Holes for screws are .24" x .16". (Screws not included).

Item No.	Style	MFG #
ELH-500	A	1053-U1
ELH-501	B	1053-U2

Barrel Bolts
304 Stainless Steel
Satin Finish

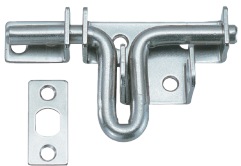


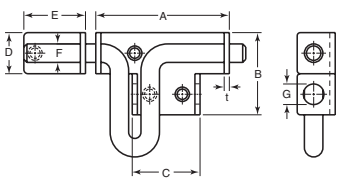


Barrel bolt body and plates are made of 304 stainless steel with satin finish while bolt and knob are nickel-plated brass. Simply lift the knob, slide it over and drop it into notch for secure latching. Attractive and ideal for corrosive environments.

Item No.	L	L1	H	B	C1	C2	C3	C4	C5	D	MFG #
SUG-504	3 35/64	1 27/64	.649	1 1/16	.629	.590	0.570	2.283	—	.944	BS-90
SUG-505	5 29/32	1 27/64	.649	1 1/16	.629	.590	0.984	3.937	—	.944	BS-150
SUG-506	9 29/64	1 27/64	.649	1 1/16	.629	.590	0.728	7.559	2.795	1.181	BS-240

Gate Latches
304 Stainless Steel
Satin Finish





Made from 304 stainless steel with satin finish, gate latches are designed to accommodate a padlock (not included) security in corrosive environments.

Item No.	A	B	C	D	E	F	G	t	MFG #
SUG-541	1 25/32	1 3/32	.984	.551	5/64	.236	.275	.078	SSG-45
SUG-542	2 9/16	1 13/16	1.299	.787	1 3/16	.354	.393	.098	SSG-65
SUG-543	3 11/32	1 37/64	1.653	1.023	1 3/8	.472	.393	.118	SSG-85

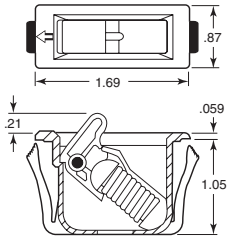
CATCHES

Grabber™ Catches, Snap-In Style

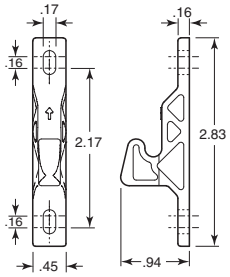


Fast economical installation. Two different pull up forces. Fits frames from .043" to .28" thick. Installation hole size .59" x 1.57". Push to close, pull to open. Spring loaded over center action. Corrosion resistant black ABS with Type 303 stainless steel spring.

Item No.	MFG #	Pull Up Force Lbs.	Panel Thickness Min.	Panel Thickness Max.
SC-4335	C3-305	5	.043	.114
SC-4330	C3-310	10	.043	.114
SC-4355	C3-505	5	.114	.209
SC-4350	C3-510	10	.114	.209

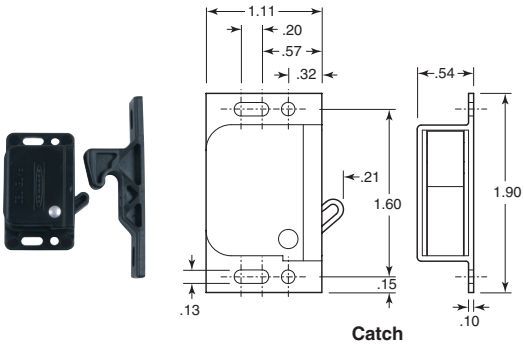


Catch

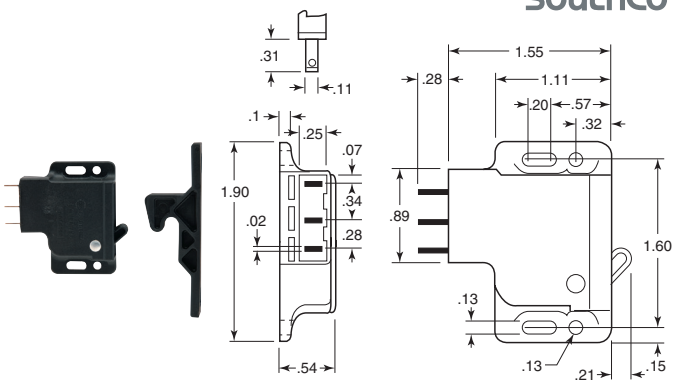


Keeper

Grabber™ Catches, Side-Mount Style with Microswitch Option



Catch

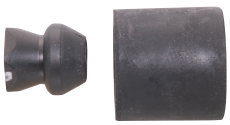


Catch with Microswitch

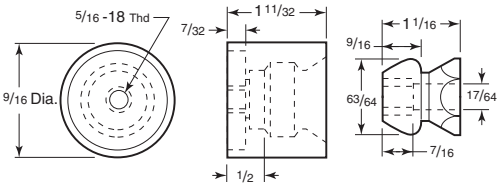
Mounts inside your enclosure. Uses same keeper as above. Three different pull up forces. Installs either right side or left side by inverting. Use #4 screws or .125 rivets to install. Grabber catch has microswitch option to be used as a mechanical grabber catch with an electric switch. Switch is designed to operate an indicator light or form part of a non-safety related logic circuit.

Catch Item No.	Catch MFG #	Catch w/ Microswitch Item No.	Catch w/ Microswitch MFG #	Pull Up Force Lbs.
SC-4323	C3-803	**SC-4383**	C3-1803	3
SC-4325	C3-805	**SC-4385**	C3-1805	5
SC-4320	C3-810	**SC-4380**	C3-1810	10

Rubber Door Holder



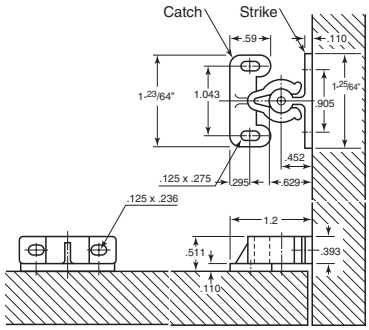
Black rubber and nylon construction. Includes male stud and female socket. Male stud can be mounted with a washer, nut and bolt, or with a washer and screw. Female socket includes a threaded metal insert and can be mounted to any $\frac{5}{16}$-18 threaded bolt or stud. Mounting hardware not included. Distance between surfaces $1\frac{13}{32}$" min. to $1\frac{35}{64}$" max.



Item No.	Description	MFG #
HH-38	Rubber Door Holder	S38-RXXAXX03

Knuckle Catch Polyacetal / Polyamide White

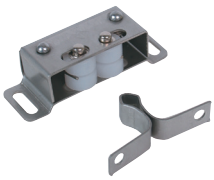


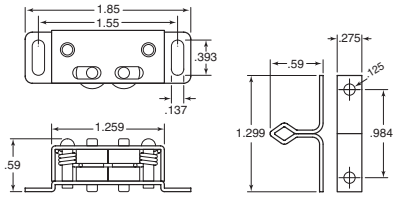


This knuckle catch is strong yet light and is made of polyacetal while strike is polyamide. Holds cabinets secure (15.6 lbs. pull force) and is ideal in contaminated areas.

Item No.	Push in Force (lbs)	Pulling Force (lbs)	MFG #
SUG-524	12.5	15.6	K-CATCH/WHT-T

Roller Catch 304 Stainless Steel / Polyethylene





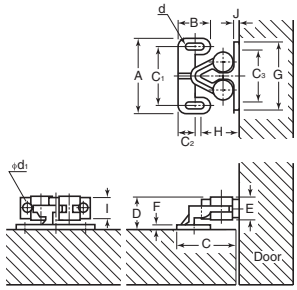
Made from 304 stainless steel with polyethylene rollers, this roller catch is ideal for use in corrosive areas.

Item No.	Push in Force (lbs)	Pulling Force (lbs)	MFG #
SUG-544	2.2	6.0	STBRC

CATCHES

Rotary Catch
Polyacetal / Polyamide
White

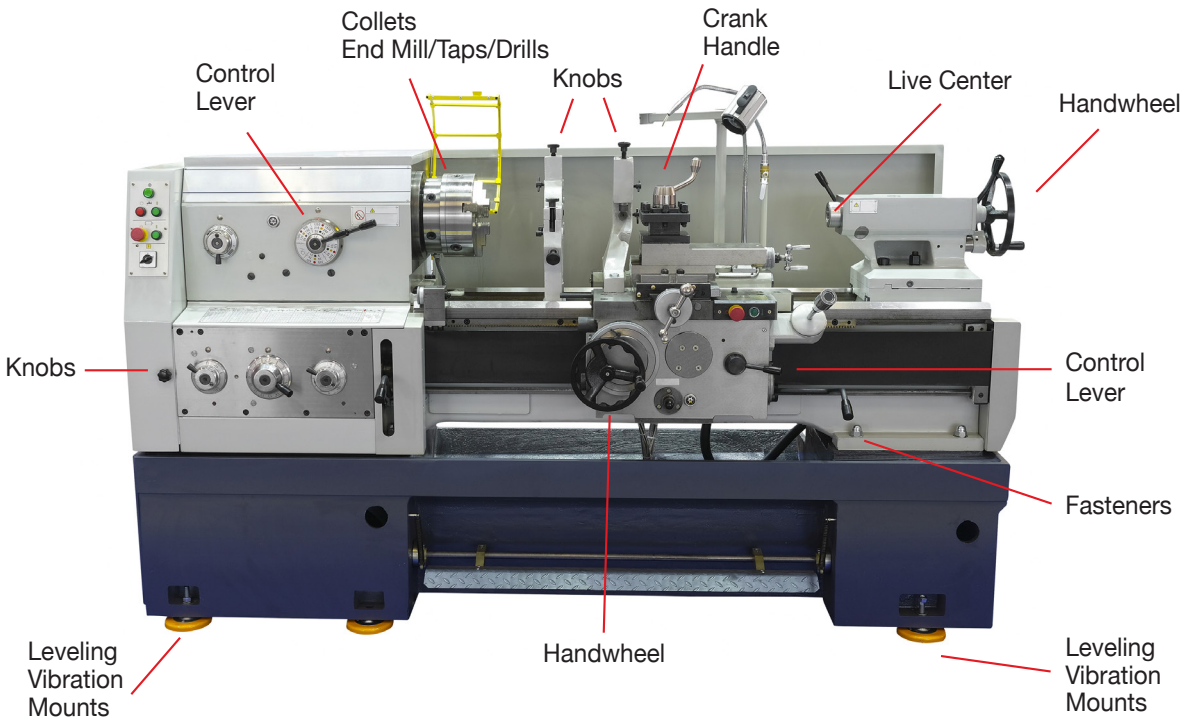




These rotary catches keep doors shut tightly and are ideal in a c
sive environment. Catch and strike are made of polyacetal, roller
are made of polyethylene.

Item No.	Color	A	B	C	D	E	F	C1	C2	G	H	I	J	C3	d	d1	MFG #
SUG-500	White	1 9/64	.472	.834	0.444	.314	.078	.846	.236	1.023	.531	.295	.066	.787	.122 x .275	.118	6900/WHT
SUG-501	Brown	1 15/64	.551	1.07	0.496	.354	.09	.960	.295	1.259	.649	.354	.078	.929	.122 x .275	.122	6901/BRN
SUG-502	White	1 15/64	.551	1.07	0.496	.354	.09	.960	.295	1.259	.649	.354	.078	.929	.122 x .275	.122	6901/WHT

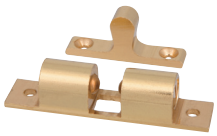
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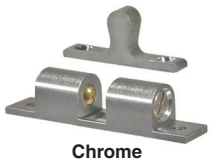
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CATCHES & CATCH PLATES

Non-Magnetic Catches



Brass



Chrome

Solid extruded brass. Screws at top and bottom provide an adjustable tension feature. Rust-proof balls and springs. Available in either dull brass or dull chrome finish.

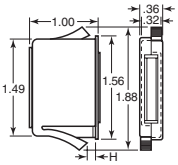
Item No.	Length	Width	Projection	Finish	MFG#
HG-10-45	1.86	.31	.510	Brass	Z-08229
HG-11-45	1.86	.31	.510	Chrome	Z-08230
HG-20	2.15	.43	.600	Brass	Z-08231
HG-21	2.15	.43	.600	Chrome	Z-08232
HG-30	3.10	.75	.880	Brass	Z-08233
HG-31	3.10	.75	.880	Chrome	Z-08234

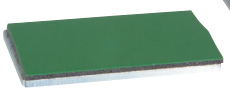
Snap-In Magnetic Catches

southco®

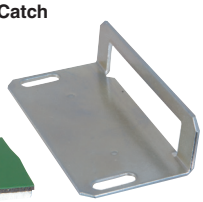


Catch

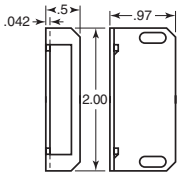




Strike



Mounting Bracket



Push to close, pull to open. The snap-in magnetic catch is made of black polypropylene with 1010 zinc plated steel metal parts. Magnet is barium ferrite. Easy snap in installation into 1.5" x .32" punched hole. A mounting bracket is available for the SC-021 for applications where the frame is not suitable for punching. Mounts with two #4, #5 or M3 screws. Self adhesive steel strike is 1.25" x .75" x .09". Strike and mounting bracket not included and must be ordered separately.

Item No.	MFG #	Frame Thickness Min.	Frame Thickness Max.	H
SC-021	02-10-101-10	.020	.080	.040
SC-023	02-10-103-10	.140	.200	.160
SC-024*	02-16-101-11		Mounting Bracket	
SC-025	02-14-101-14		Steel Strike (1.25 x .75)	

*For SC-021 only

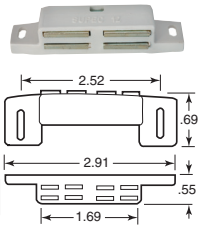
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Heavy Duty Magnetic Catch

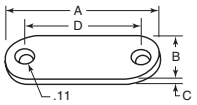
Magnetic catch is white plastic with mobile pole pieces for automatic take up of parallel play. Holding power is 24 pounds. Catch and strike are sold separately.



Item No.	Description	MFG #
CMA-20	Heavy Duty Magnetic Catch (White)	11241

Non-Magnetic Catches Counterplate

Countersunk screw holes. Zinc plated steel.

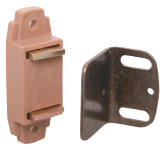


Item No.	A	B	C	D	MFG #
CMA-70	2.60	.47	.08	2.13	25610

Magnetic Catches

Amerock

Tan plastic case with steel strike includes four #6 x ½" truss head screws and one #15 x ½" nail. Holds 5-11 pounds.



Item No.	Description	MFG #
AN-181	Catch - 1⁵⁄₁₆ L x ¾ W x 1⅛ H Strike - 1⅛ L x ⅞ W x ¾	CM9765PT

Magnetic Catches

Amerock

Single or double catch with aluminum case. Single catch holds 5 to 11 pounds. Strikes and fasteners included.



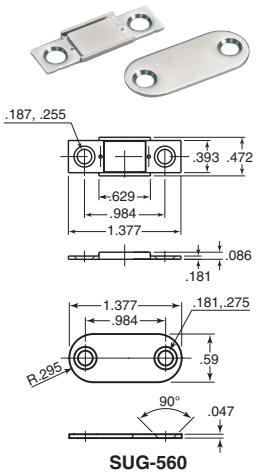
Single Catch



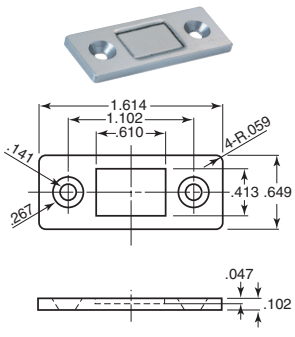
Double Catch

Item No.	Description	MFG #
AN-182	Single Catch - 2 L x 1 W x ⅝ H Strike - 1 L x ¾	CM9783AL
AN-184	Double Catch - 2 L x 1 W x ⅝ H Strike - 1¼ L x ⅞	BP33772AL

Ultra Thin Magnetic Catch Neodymium / Steel Nickel Finish



SUG-560

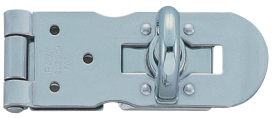


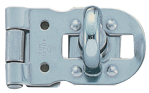
SUG-527

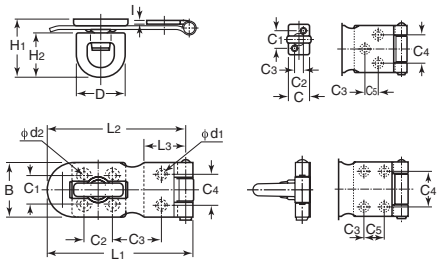
Made from nickel-plated steel with a strong neodymium magnet, these ultra-thin magnets and catches are ideal in very tight areas. Width is 3⁄64 inches.

Item No.	Magnetic Force (lbs.)	MFG #
SUG-560	5.9	MC-YN001P
SUG-527	8.8	MC-159

Stainless Steel Hasps
304 Stainless Steel
Polished Finish



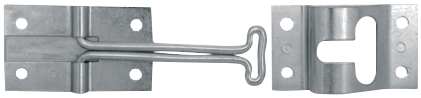


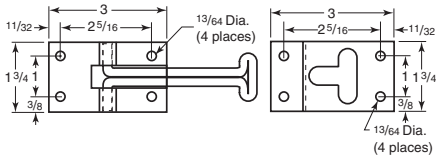


Made from 304 stainless steel, these hasps offer ease of use. Simply close latch and turn the knob to secure door closed.

Item No.	L1	L2	L3	B	C1	C2	C3	C4	C5	H1	H2	C	D	I	d1	d2	MFG #
SUG-512	1 37/64	1.456	.511	7/8	.511	.251	.425	.472	—	55/64	.704	.602	.696	.047	.118	.118	HP-40
SUG-513	1 31/32	1.850	.511	1/8	.511	.354	.629	.472	—	55/64	.704	.720	.696	.047	.118	.118	HP-50
SUG-514	2 9/16	2.440	.748	15/16	.511	.511	.846	.551	—	31/32	.803	.964	.885	.059	.125	.125	HP-65
SUG-515	2 61/64	2.834	.976	1 1/16	.590	.590	.618	.629	.374	1 5/64	.866	1.094	.913	.059	.149	.149	HP-75
SUG-516	3 15/16	3.740	1.181	1 25/64	.748	.748	1.141	.826	.393	1 17/64	1.098	1.397	1.220	.078	.157	.177	HP-100
SUG-517	4 23/32	4.527	1.397	1 37/64	.826	.866	1.496	1.023	.590	1 3/8	1.098	1.594	1.220	.098	.204	.204	HP-120

Hook and Catch Door Holders

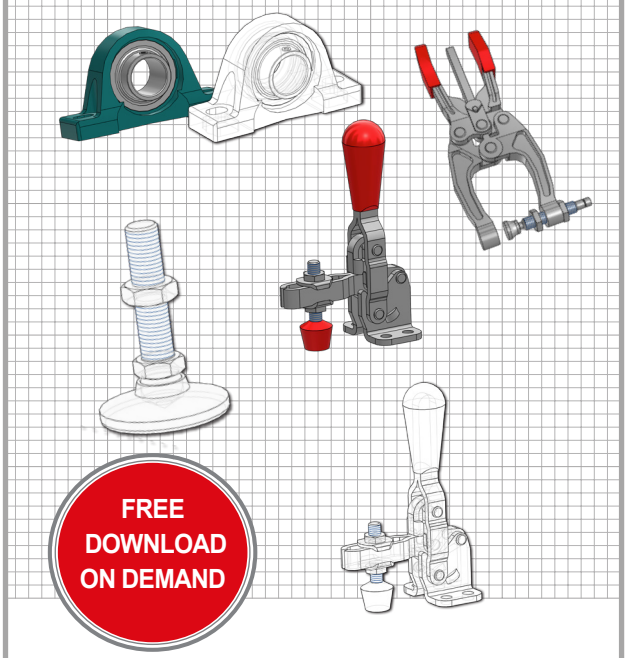




Includes hook and catch. Available zinc plated steel, polymer and prepolished stainless steel. Hook is 4" long.

Item No.	Material	MFG #	Item No.	Material	MFG #
HH-294	Zinc	F29-4XXXZNXX	**HH-295**	Stainless	S29-4XXXSPPXX

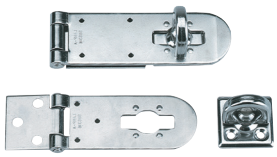
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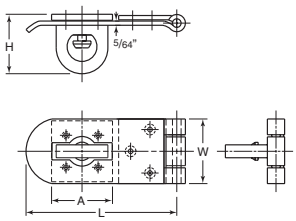


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Hasps with Stainless Steel Screws
316 Stainless Steel
Electro Polished Finish





Made from 316 stainless steel with an electro polished finish, these hasps offer ease of use. Simply close latch and turn the knob to secure door closed.

Item No.	L	W	A	H	MFG #
SUG-521	3½	1½	1½	1⅜	HP-635S
SUG-522	4½	1½	1½	1⅜	HP-645S
SUG-523	6	2	1½	1⅜	HP-660S

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Standard Quotes in 4 Hours or Less

DRAWER SLIDES

All slides are unhardened. Bright zinc finish with steel ball bearings. All have traditional hole patterns except where noted otherwise.

Drawer Slide Selection

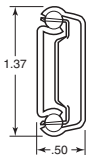
1) Measure length of drawer from back of drawer front to rear of drawer. 2) Select travel length desired. 3) Determine slide height and drawer side clearance requirements. 4) Determine detent, lock-out or lock-in and disconnect requirements.

Used for Desks, Credenzas and Cabinets

Light Duty Drawer Slides

Accuride





Low profile, lever disconnect, hold-in detent. Includes 32mm hole pattern as well as traditional hole pattern.

Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-0416	C2132-C16D	15.75	11.05	75
AI-0418	C2132-C18D	17.72	13.02	75
AI-0420	C2132-C20D	19.69	14.79	75
AI-0422	C2132-C22D	21.65	16.34	75

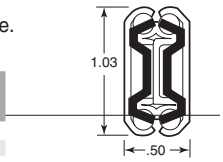
Used for Shallow Drawers, Tool Chests and Medical Carts

Medium Duty Drawer Slides

Accuride



Hold-in detent, full extension, .50" side space.



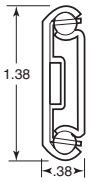
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-0614	C2601-14D	13.78	14.06	75
AI-0616	C2601-16D	15.75	15.98	70
AI-0620	C2601-20D	19.69	19.88	63
AI-0622	C2601-22D	21.65	21.81	60

Medium Duty Drawer Slides

Accuride

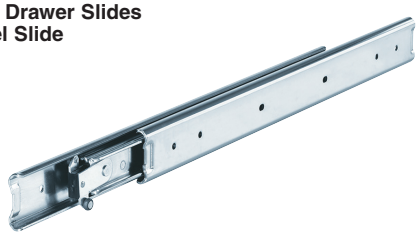


Non-disconnect, ¾" extension, .38" side space.



Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-0718	C201-18D	18	13	90
AI-0720	C201-20D	20	15	82
AI-0722	C201-22D	22	16	75

Full Extension Drawer Slides
Two-Way Travel Slide
Medium Duty



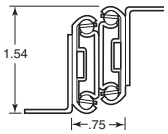
Two-way travel provides access from both sides of installation. Full extension from center point for complete access to contents. Hold-in detent at center to keep conveyances in position until use. Non-disconnect to ensure conveyances cannot be removed. Used for kitchen islands, dining or entertainment bars or other cabinetry that benefits from two-sided access. Made out of steel with a bright electro-zinc finish.

Medium Duty Drawer Slides

Accuride



Hold-in detent, .83" over travel, undercarriage mount.



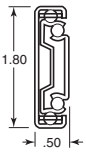
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1218	C301-2590-18D	18	18.83	130
AI-1220	C301-2590-20D	20	20.83	122
AI-1222	C301-2590-22D	22	22.83	113

Medium Duty Drawer Slides

Accuride



Lever disconnect, hold-in detent, full extension, .50" side space. Includes 32mm hole pattern as well as traditional hole pattern.



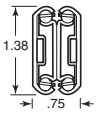
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1310	C3832-C10D	9.84	10	50
AI-1312	C3832-C12D	11.81	12	60
AI-1314	C3832-C14D	13.78	14	75
AI-1316	C3832-C16D	15.75	16	100
AI-1318	C3832-C18D	17.72	18	100
AI-1320	C3832-C20D	19.69	20	100
AI-1322	C3832-C22D	21.65	22	100
AI-1324	C3832-C24D	23.62	24	85
AI-1326	C3832-C26D	25.59	26	70
AI-1328	C3832-C28D	27.56	28	60

Medium Duty Drawer Slides

Accuride

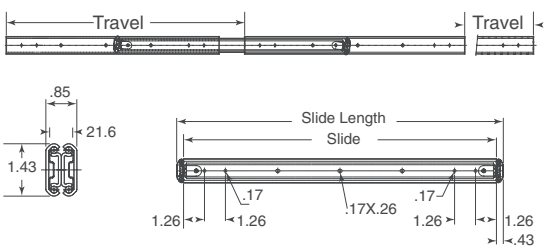


Non-disconnect, .88" over travel, .75" side space.



Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.	MFG #
AI-1022	C301-22D	22	22.88	130	

Accuride



Item No.	MFG #	Slide Length	Slide Length	Travel x 2	Load Rating Lbs./Pr.
AI-8000	C0363-16P	15.75	17	34	88
AI-8010	C0363-20P	19.69	21	42	100
AI-8020	C0363-24P	23.62	25	50	100
AI-8030	C0363-28P	27.55	29	58	88

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All slides are unhardened. Bright zinc finish with steel ball bearings. All have traditional hole patterns except where noted otherwise.

Drawer Slide Selection

1) Measure length of drawer from back of drawer front to rear of drawer. 2) Select travel length desired. 3) Determine slide height and drawer side clearance requirements. 4) Determine detent, lock-out or lock-in and disconnect requirements.

Heavy Duty

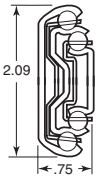
Used for file cabinets, utility and industrial truck storage, machine tool drawers, generators and heavy mechanical devices

Heavy Duty Drawer Slides

Accuride



Lever disconnect, lock out, full extension, .75" side space.



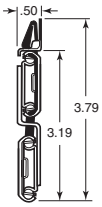
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1918	C3607-18D	18	18	253
AI-1920	C3607-20D	20	20	244
AI-1922	C3607-22D	22	22	233

Heavy Duty Drawer Slides

Accuride



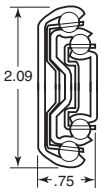
Rail mounting, hold-in detent, full extension. Includes 32mm hole pattern as well as traditional hole pattern. Designed for units up to 30" wide.



Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1418	C4032-18D	17.72	18.10	150
AI-1422	C4032-22D	21.65	21.95	150

Heavy Duty Drawer Slides





Accuride

Non-disconnect, hold in detent, full extension, .75" side space.

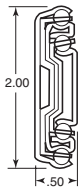
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1818	C3600-18D	18	18	253
AI-1820	C3600-20D	20	20	244
AI-1822	C3600-22D	22	22	233

Heavy Duty Drawer Slides

Accuride



Non-disconnect, 1" over travel, .50" side space.



Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1518	C3301-18D	18	19	146
AI-1520	C3301-20D	20	21	145
AI-1522	C3301-22D	22	23	140

Lever disconnect, lock out, 1" over travel, .50" side space.

Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1620	C3307-20D	20	21	145
AI-1622	C3307-22D	22	23	140

Lever disconnect, lock in and out, 1" over travel, .50" side space.

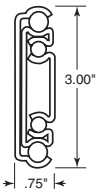
Item No.	MFG #	Slide Length	Slide Travel	Load Rating Lbs./Pr.
AI-1718	C3308-18D	18	19	146
AI-1720	C3308-20D	20	21	145
AI-1722	C3308-22D	22	23	140

Extra Heavy Duty Drawer Slides

Accuride



Ideal for computer server storage, tool boxes, service truck tool drawers and vehicle battery trays. Full extension extra heavy duty slide. Load ratings are 500 lbs. for moderate use, 400 lbs. for frequent use, 300 lbs. for mobile (vehicular applications) and 150 lbs. for flat mount applications. Side space required is .75". Slide includes a silencing bumper for drawer closure. **CAUTION:** Slide must never be used as a pullout step, platform or any other application supporting human weight or injury may result.



Item No.	MFG #	Slide Length	Slide Travel
AI-9318	C9301-18D	18	18
AI-9320	C9301-20D	20	20
AI-9322	C9301-22D	22	22
AI-9324	C9301-24D	24	24
AI-9328	C9301-28D	28	28
AI-9332	C9301-32D	32	32
AI-9336	C9301-36D	36	36
AI-9348	C9301-48P	48	48
AI-9360	C9301-60P	60	60

Turntable Bearings Lazy Susan



Used for turntables and fixtures of all kinds. 5/16" thick. Has a full race of precision ground ball bearings for smooth gliding rotation. Pre-assembled. Bearing is interlocked for life time of unit. Zinc coated steel. 9" and 12" round bearings are available greased.

Item No.	Size	Shape	Center Hole Dia.	Nominal Load Capacity (Lbs.)	Use With Turntables Approx. Dia.
LS-3	3	Square	1¼	200	Up to 18
LS-4	4	Square	2 3/32	300	12 to 25
LS-6	6	Square	4 11/16	500	15 to 30
LS-9	9	Round	4½	750	17 to 35
LS-9G*	9	Round	4½	750	17 to 35
LS-12	12	Round	6 3/32	1,000	Over 20
LS-12G*	12	Round	6 3/32	1,000	Over 20

*Greased

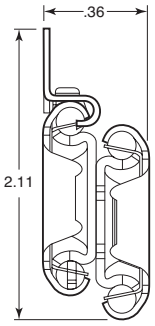
STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

DRAWER SLIDES

Full Extension Drawer Slides
Quick-Disconnect Button
Stainless Steel





Positive stop slide with a quick disconnect. Simply open the drawer and press the button to release the slide from its drawer-mounting rail. Requires 16 #8 Pan Head or M4 screws (not included).

Item No.	Load Rating Lbs./Pr.	Slide Length	Slide Travel	MFG#
SUG-238	143	12	13.09	SUG-238
SUG-240	134	14	15.09	SUG-240
SUG-242	134	16	17.09	SUG-242
SUG-244	123	18	19.09	SUG-244
SUG-246	114	20	21.09	SUG-246

Item No.	Load Rating Lbs./Pr.	Slide Length	Slide Travel	MFG#
SUG-248	114	22	23.09	ESR-3-22
SUG-250	105	24	25.09	ESR-3-24
SUG-252	94	26	27.09	ESR-3-26
SUG-254	94	28	29.09	ESR-3-28

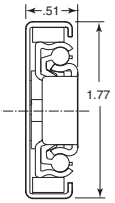
These ball bearing drawer slides are made entirely from type 304 passivated stainless steel. They are most commonly used in applications needing corrosion resistance such as laboratories, humid/damp environments, marine applications, and clean rooms. The slides have a bright finish, tight tolerance, quiet operation, and smooth glide. All slides on this page are side mounted drawer slides except the under carriage version.

Full Extension

These three member slides are manufactured to allow you to pull the drawer out further than the slide length. This feature allows full access to the contents of the drawer.

Full Extension Drawer Slides
Front-Disconnect Lever
Stainless Steel





Popular style made in 304 stainless steel. These disconnect in the front by lifting a lever and have conventional and 32mm mounting pattern for 16 #8 Pan Head or M4 screws (not included).

Item No.	Load Rating Lbs./Pr.	Slide Length	Slide Travel	MFG #
SUG-400	115	9.84	9.57	ESR-DC4513-10
SUG-402	111	11.81	12	ESR-DC4513-12
SUG-404	108	13.78	14	ESR-DC4513-14
SUG-406	104	15.75	16	ESR-DC4513-16
SUG-408	100	17.72	18	ESR-DC4513-18

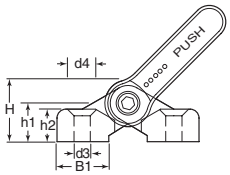
Item No.	Load Rating Lbs./Pr.	Slide Length	Slide Travel	MFG #
SUG-410	97	19.69	20	ESR-DC4513-20
SUG-412	95	21.65	22	ESR-DC4513-22
SUG-414	92	23.62	24	ESR-DC4513-24
SUG-416	90	25.59	26	ESR-DC4513-26
SUG-418	87	27.56	28	ESR-DC4513-28

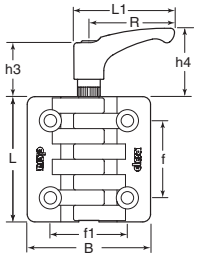
POSITIONING & LIFT-OFF HINGES

Friction Brake and Positive Stop Hinge

Hinge body is made of a high impact strength polyamide-based technopolymer and is black with a matte finish. Lever body is made of glass-fiber reinforced polyamide base and has a grey-black matte finish. Hinge has unlimited choice of door stop positions. Designed to regulate by friction, the opening and closing speed of the door.



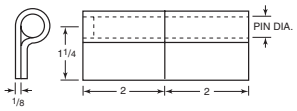




Item No.	Main Dimensions B	L	f	f1	H	h1	h2	B1	R	L1	h3	h4	Fitting Through Holes d3	d4	MFG #
EHG-100	48	49.5	30.5	31	19	13	11.00	17	44	52	29	36	5.5	10.00	422134
EHG-105	64	65	40	40	23	15	13.50	24	44	52	29	36	6.5	11.50	422234
EHG-110	97.5	96.5	59.5	62.5	35	23	20.50	35	63	73.5	38	48	10.5	20.00	422334

Flush Mount Butt Hinges



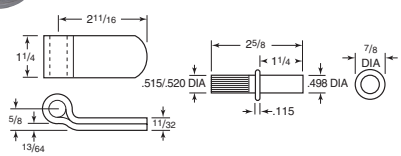


Plain finish steel. Removable pin.

Item No.	Pin Length	Pin Diameter	MFG #
HH-104	3¾	½	FM1A37XXXXXX
HH-113	4	½	FM1A4XXXXXXX
HH-114	4	⅜	SM1A4XXXXXXX

Universal Butt Hinge





Plain finish steel. 2½" pin.

Item No.	Description	MFG #
HH-105	Universal Butt Hinge	F2B2.5XXXXNS

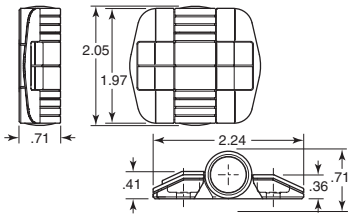
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Reid SUPPLY AN ESSENTRA COMPANY

POSITIONING HINGES

Door Positioning Hinges

southco





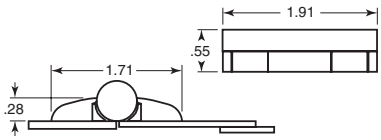
Opens 180 degree with hold open angles at either 120 degree or 155 degree. Covers hide mounting hardware. Made of black acetal with hardened steel detent tube. Positioning torque is 10 in/lbs. Height is .71".

Item No.	MFG #	Detented Open Angle Degree
SC-465	C6-5	120
SC-468	C6-8	155

Positioning-Advantage Hinges

southco





Holds door closed or open at 120 degree and 170 degree. Free swinging style also available. Made of same materials as above hinge. Snap on covers conceal mounting hardware. Maximum working load radial and axial is 30 lbs.

Item No.	MFG #	Detented Open Angle Degree
SC-466	G6-5-1	120 & 170
SC-469	G6-0-1	Free Swinging



Metal Detectable
Specially formulated "Green-blue" (RAL 5001) technopolymer

Part #	Description
EHP-90MD	**SWING HINGE METAL DETECTABLE**
EHP-95MD	**SWING HINGE METAL DETECTABLE**



Visual Detectable
The RAL 5005 blue colour is easily visible in case of accidental food contamination.

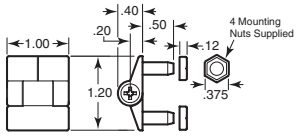
Part #	Description
EHP-90VD	**SWING HINGE VISUAL DETECTABLE**
EHP-95VD	**SWING HINGE VISUAL DETECTABLE**

Great for Food and Pharmaceutical Industries

Adjustable Hinges

southco



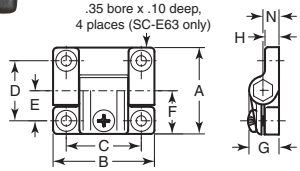


Type 1



Type 2



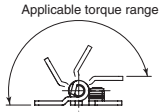


For free or dampened door swing at the turn of a screw. Helps hold doors open, closed or partially open. Adjust speed of opening and closing. Black acetal leaves and stainless adjusting screw and nut. SC-771 has concealed mounting hardware. One per package.

Item No.	MFG #	Type	A	B	C	D	E	F	G	H	N
SC-771	E6-10-101-20	1	See line drawing for dimensions								
SC-773	E6-10-301-20	2	1.44	1.69	1.25	1.00	.50	.72	.50	.23	.27
SC-775	E6-10-501-20	2	2.25	2.50	1.88	1.50	.75	1.13	.77	.20	.41

Torque / Friction Hinges
Stainless Steel
Polished Finish

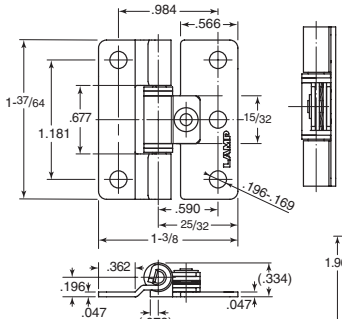


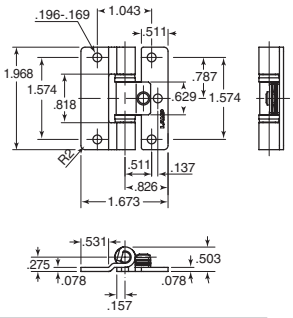


Type 1



Type 2





Made from polished stainless steel, these torque hinges are perfect for holding door or lid in position, and are ideal in corrosive environments.

Item No.	Torque Per Piece	Type	MFG #
SUG-536	4.3	Type 1	SFTH-02-5
SUG-537	7.8	Type 2	SFTH-03-19
SUG-538	16.5	Type 2	SFTH-03-9
SUG-539	30.1	Type 3	SFTH-05-35
SUG-540	49.9	Type 3	SFTH-05-58

LEAF & FLAG HINGES

Spring Hinges

Hold doors open with spring hinges. Available zinc plated steel or Type 304 stainless steel.

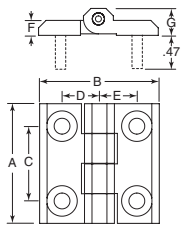


Item No.	Material	Length	Open Width	Leaf Thickness	Spring Wire Dia.	Hole Dia.	MFG #
HG-1605	Stainless	1.75	1.5	.035	.025	—	NHSTS1116
HG-1610	Steel	2.00	1.0	.040	.025	.141	1643-02
HG-1612	Stainless	2.00	1.0	.035	.025	.141	STS1643025
HG-1615	Stainless	2.00	1.0	.035	.035	.141	STS1643035

Stainless Steel - Type 316 Countersunk Screw

EMKA Incorporated

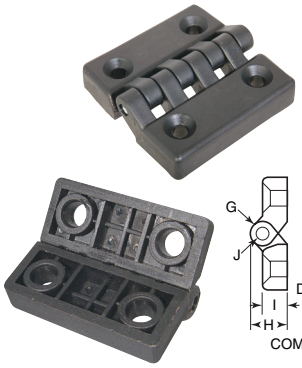


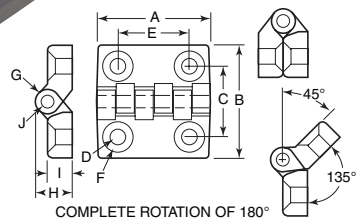


Item No.	A	B	C	D	E	F	MFG #
ELH-923	1.57	1.57	.98	.49	.35	.2	NHSTS1116
ELH-924	1.97	1.97	1.18	.59	.45	.24	1643-02
ELH-925	1.97	1.97	1.18	1.1	.45	.24	STS1643025
ELH-926	2.36	2.36	1.42	.71	.59	.31	STS1643035

Through Hole Hinges

Reid SELECT





Made of black reinforced polyamide. Resistant to oils and greases. Satin finish. Available with zinc plated steel pin or stainless steel pin.

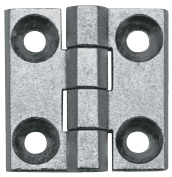
Zinc Pin		Stainless Pin											
Item No.	MFG #	Item No.	MFG #	A	B	C	D	E	F	G	H	I	J	Screw Size
JCL-312	400-20 M4	**JCL-318**	401-20 M4	**1.26**	**1.26**	**.79**	**.18**	**.79**	**.31**	**.28**	**.41**	**.28**	**.12**	**M4**
JCL-313	400-30 M6	**JCL-319**	401-30 M6	**1.89**	**1.89**	**1.18**	**.26**	**1.18**	**.51**	**.39**	**.61**	**.41**	**.20**	**M6**
JCL-314	400-40 M6	**JCL-321**	401-40 M6	**2.52**	**2.52**	**1.57**	**.26**	**1.57**	**.51**	**.47**	**.75**	**.51**	**.20**	**M6**
JCL-316	400-60 M8	**JCL-322**	401-60 M8	**3.78**	**3.78**	**2.48**	**.33**	**2.36**	**.63**	**.63**	**.94**	**.63**	**.31**	**M8**
JCL-317	400-60 M10	**JCL-323**	401-60 M10	**3.78**	**3.78**	**2.48**	**.41**	**2.36**	**.79**	**.63**	**.94**	**.63**	**.31**	**M10**

180 degree and 270 degree Screw On Hinges Diecast Flush Bolt Stud or Countersink

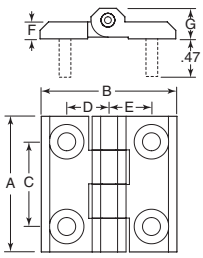
EMKA Incorporated



Black Threaded



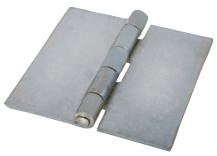
Chrome Countersunk



Available in either chrome or with black powder coat and with either studs or countersunk screw holes.

Threaded		Countersunk									
Item No.	MFG #	Item No.	MFG #	A	B	C	D	E	F	Screw Size	Finish
180 degree											
ELH-1233	1056-U3/998	**ELH-1235**	1056-U5/998	1.57	1.57	.98	.49	.36	.20	M5	Chrome
ELH-1234	1056-U4/998	**ELH-1236**	1056-U6/998	1.57	1.57	.98	.49	.36	.20	M5	Black
ELH-301	1056-U7	**ELH-303**	1056-U9	1.97	1.97	1.18	.59	.45	.24	M6	Chrome
ELH-302	1056-U8	**ELH-304**	1056-U10	1.97	1.97	1.18	.59	.45	.24	M6	Black
270 degree											
ELH-305	1056-U15	**ELH-307**	1056-U17	1.97	2.99	1.81	1.10	.45	.24	M6	Chrome
ELH-306	1056-U16	**ELH-308**	1056-U18	1.97	2.99	1.81	1.10	.45	.24	M6	Black

Butt Hinges



Square and rectangular butt hinges have no holes and pins are spun on both ends. Hinges available in steel, Type 316 stainless steel and aluminum.

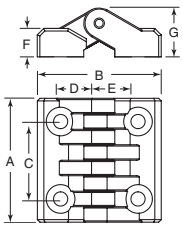
Steel		Stainless		Aluminum					
Item No.	MFG #	Item No.	MFG #	Item No.	MFG #	Lgth.	Open Width	Leaf Thickness	Pin. Dia.
—	—	**HG-7000**	7000100308	—	—	1.0	1.06	.035	.086
—	—	—		**HG-8021**	9000100408	1.0	1.06	.040	.080
HG-6001	500000000000	—		—	—	1.5	1.31	.050	.120
—	—	**HG-7004**	7000150308	—	—	1.5	1.50	.035	.086
HG-6003	6000150512	**HG-7005**	7000150512	**HG-8022**	9000150512	1.5	1.50	.050	.120
HG-6004	500020150612	—		—	—	2.0	1.31	.050	.120
HG-6005	6000200612	—		—	—	2.0	2.00	.060	.120
—	—	**HG-7010**	7000200612	—	—	2.0	2.00	.062	.120
HG-6006	6000200718	**HG-7011**	7000200718	**HG-8023**	9000200718	2.0	2.00	.078	.187
HG-6007	500000000000	—		—	—	2.5	1.50	.060	.120
HG-6008	6000250612	**HG-7014**	7000250612	—	—	2.5	2.50	.060	.120
HG-6010	6000250718	**HG-7015**	7000250718	—	—	2.5	2.50	.078	.187
HG-6011	6000251225	—		—	—	2.5	2.50	.120	.250
—	—	**HG-7018**	7000300612	**HG-8026**	9000300612	3.0	3.00	.060	.120
HG-6013	6000300718	**HG-7019**	7000300718	—	—	3.0	3.00	.078	.187
HG-6015	6000300925	**HG-7021**	7000300925	**HG-8028**	9000300925	3.0	3.00	.090	.250
—	—	**HG-7020**	7000300918	—	—	3.0	3.00	.093	.187
HG-6016	6000301225	**HG-7022**	7000301225	**HG-8029**	9000301225	3.0	3.00	.120	.250
HG-6017	6000400718	**HG-7023**	7000400718	—	—	4.0	4.00	.078	.187
HG-6020	6000401225	**HG-7025**	7000401225	**HG-8020**	9000401225	4.0	4.00	.120	.250
HG-6024	6000501225	**HG-7027**	7000501225	—	—	5.0	5.00	.120	.250
HG-6025	6000601225	**HG-7028**	7000601225	—	—	6.0	6.00	.120	.250
—	—	**HG-7029**	7000601637	—	—	6.0	6.00	.165	.370
HG-6030	6000601850	—	—	—	—	6.0	6.00	.187	.500

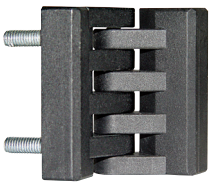
LEAF & FLAG HINGES

180 degree Screw On Hinges
Black Polyamide
Countersunk or Stud

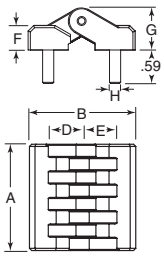


Countersunk





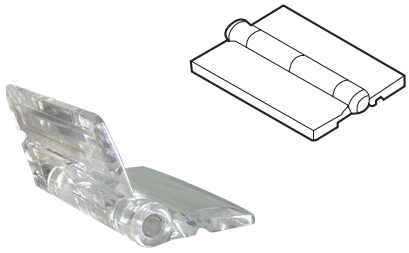
Stud



Available with either studs or countersunk screw holes. All are made of black polyamide.

Countersunk		Stud									
Item No.	MFG #	Item No.	MFG #	A	B	C	D	E	F	G	H
ELH-936	1056-U37	**ELH-937**	1056-U38	1.89	1.89	1.18	.59	.59	.43	.75	M5
ELH-938	1056-U39	**ELH-939**	1056-U40	2.52	2.52	1.57	.79	.79	.53	.92	M6

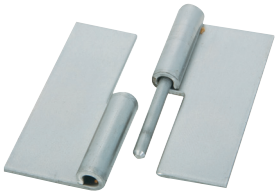
Acrylic Hinges



Flawless clarity for displays, food bins and protective covers. Squeak resistant nylon pin. Available in transparent, white or black. Solvent cementable. Sold in pairs.

Transparent		Black		White		
Item No.	MFG #	Item No.	MFG #	Item No.	MFG #	Size
CR-21	ACRYL-HINGE SM TRANS	—	—	—	—	1⅜ x 1½
CR-2	ACRYL-HINGE-2 CLR	**CR-3**	2.18	**CR-4**	2.18	1¾ x 1½

Slip Joint Hinges



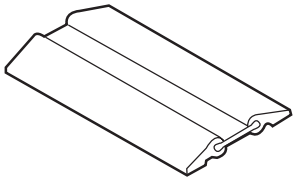
Item No.	Hand	Length	Open Width	Pin Dia.	Leaf Thickness	MFG #
Steel w/ Steel Pin						
HG-8005	Left	2.0	1.68	.125	.075	Z-06948
HG-8006	Right	2.0	1.68	.125	.075	Z-06947
HG-8010	Left	2.5	1.87	.187	.075	Z-06946
HG-8011	Right	2.5	1.87	.187	.075	Z-06945
HG-8015	Left	3.0	3.00	.250	.093	Z-06944
HG-8016	Right	3.0	3.00	.250	.093	Z-06943

Left hand or right hand mounting. Left hand is pictured. Hinges available in steel, Type 300 series stainless steel or aluminum. No holes. Two hinges per package.

Item No.	Hand	Length	Open Width	Pin Dia.	Leaf Thickness	MFG #
Stainless w/ Stainless Pin						
HG-8106	Right	2.0	1.68	.187	.075	Z-06954
HG-8110	Left	3.0	2.00	.187	.093	Z-06953
HG-8111	Right	3.0	2.00	.187	.093	Z-06951
HG-8115	Left	3.0	3.00	.250	.093	Z-06950
HG-8116	Right	3.0	3.00	.250	.093	Z-06949
Aluminum w/ Stainless Pin						
HG-8205	Left	2.0	1.68	.187	.075	Z-06942
HG-8206	Right	2.0	1.68	.187	.075	Z-06941

Acrylic Flex-Fold Hinge

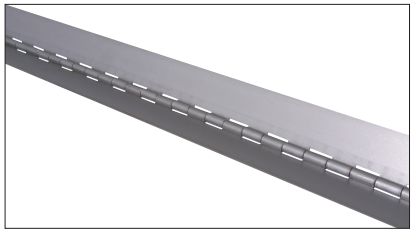


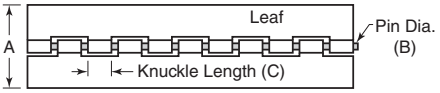


Ideal for indoors and out. Applications include pastry cases, outdoor literature displays, safety shields, etc. Rigid sides are permanently bonded to a flexible center section. Co-extruded from high impact transparent acrylic and tough urethane elastomer. UV stable for all weather performance even in extreme climates. Sold in 48" lengths and can easily be cut to size. Solvent cementable.

Item No.	Description	MFG #
CR-1	Flex Fold Hinge	FLEX-FOLD-2

Continuous Hinges





Hinges are all six foot length with no holes. Available in steel, Type 304 stainless steel and aluminum.

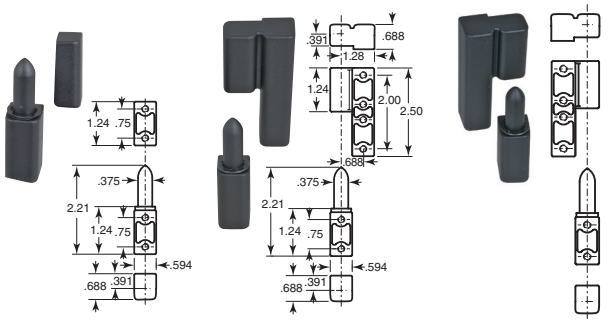
Steel		Stainless		Aluminum					
Item No.	MFG #	Item No.	MFG #	Item No.	MFG #	A	B	C	Leaf Thickness
—	—	**H-201**	SS04040202	—	—	¾	.085	¼	.035
H-102	PS04040204	**H-202**	SS04040204	—	—	1 1/16	.085	¼	.035
—	—	**H-203**	SS04040205	—	—	1¼	.085	¼	.035
H-104	PS04040206	**H-204**	SS04040206	—	—	1½	.085	¼	.035
H-105	PS04040208	**H-205**	SS04040208	—	—	2	.085	¼	.035
—	—	**H-208**	SS05050406	**H-308**	AA05050406	1½	.091	½	.040
H-109	PS05050408	**H-209**	SS05050408	**H-309**	AA05050408	2	.091	½	.040
—	—	**H-211**	SS06060405	—	—	1¼	.120	½	.050
H-112	PS06060406	**H-212**	SS06060406	**H-312**	AA06060406	1½	.120	½	.050
H-114	PS06060408	**H-214**	SS06060408	**H-314**	AA06060408	2	.120	½	.050
H-115	PS06060409	**H-215**	SS06060409	**H-315**	AA06060409	2½	.120	½	.050
H-116	PS06060410	**H-216**	SS06060410	—	—	3	.120	½	.050

Steel		Stainless		Aluminum					
Item No.	MFG #	Item No.	MFG #	Item No.	MFG #	A	B	C	Leaf Thickness
H-120	PS0706040572	**H-220**	SS0706040572	—	—	1¼	.120	½	.060
H-121	PS0706040672	**H-221**	SS0706040672	—	—	1½	.120	½	.060
H-123	PS0706040872	**H-223**	SS0706040872	**H-323**	AA0706040872	2	.120	½	.060
—		**H-224**	SS0706040984	—	—	2½	.120	½	.060
H-125	PS0706041072	**H-225***	SS0706041084	—	—	3	.120	½	.060
H-128	PS07070506	**H-228**	SS07070506	—	—	1½	.187	⅝	.060
H-130	PS07070508	**H-230**	SS07070508	—	—	2	.187	⅝	.060
H-132	PS07070510	**H-232**	SS07070510	—	—	3	.187	⅝	.060
H-136	S07603272	—		—	—	2	.250	1	.070
H-137	PS08080709	—		—	—	2½	.250	1	.070
H-138	PS08080710	**H-238**	SS08080710	—	—	3	.250	1	.070
H-140	PS08080711	**H-240**	SS08080711	—	—	4	.250	1	.070

LIFT-OFF HINGES

Metal Lift-Off Hinges - Large

southco®



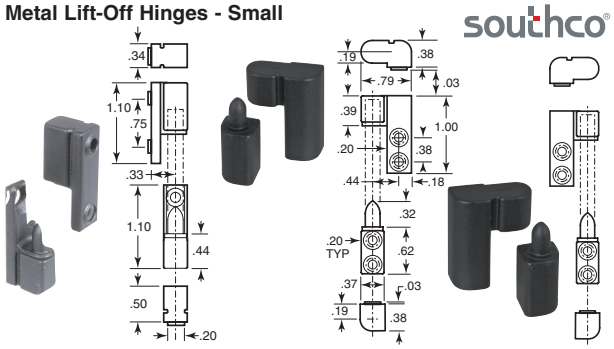
In-Line **Offset Type A** **Offset Type B**

Die cast zinc, durable black polyester powder coated. Maximum working load 300 lbs. Inch uses #10-32 screws. Metric uses M5. Available either in-line or offset type A for doors opening to the left or offset type B for doors opening to the right. One per package.

Inch		Metric		
Item No.	MFG #	Item No.	MFG #	Style
SC-946	96-10-500-50	**SC-9629**	96-50-500-50	In-Line
SC-947	96-10-510-50	**SC-9630**	96-50-510-50	Offset Type A
SC-948	96-10-520-50	**SC-9631**	96-50-520-50	Offset Type B

Metal Lift-Off Hinges - Small

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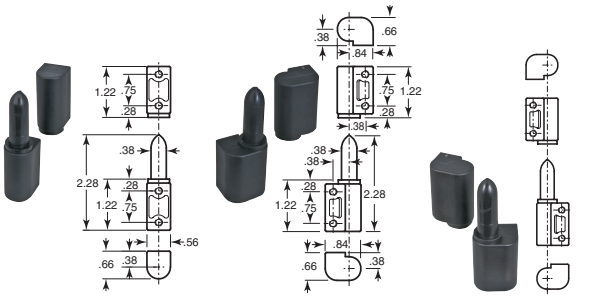
In-Line **Offset Type A** **Offset Type B**

Die cast zinc, durable black polyester powder coated. Hidden mounting hardware. Available in-line or offset type A for doors opening to the left or type B for doors opening to the right. High strength/size ratio. Maximum working load 250 lbs. Inch uses #6-32 screws. Metric uses M4 x 0.7. One per package.

Inch		Metric		
Item No.	MFG #	Item No.	MFG #	Style
SC-949	96-110	**SC-9626**	96-140	In-Line
SC-940	96-111	**SC-9627**	96-141	Offset Type A
SC-941	96-112	**SC-9628**	96-142	Offset Type B

Nylon Lift-Off Hinges

southco®



In-Line **Offset Type A** **Offset Type B**

Free swinging black glass-reinforced nylon. Corrosion resistant. Available in-line or offset type A for doors opening to the left or type B for doors opening to the right. One per package. Uses #10-24 screws.

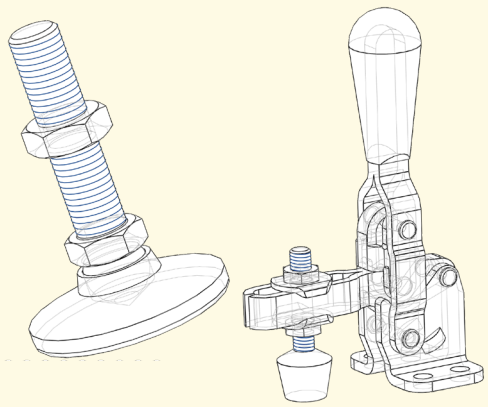
Item No.	MFG #	Style	Maximum Working Load Lbs. Axial	Radial
SC-943	96-10-300-11	In-Line	250	150
SC-944	96-10-310-11	Offset Type A	250	150
SC-945	96-10-320-11	Offset Type B	250	150

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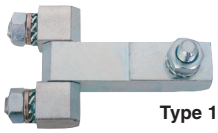
WITH PDF DATA SHEETS!



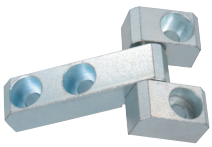
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SIDE HINGES

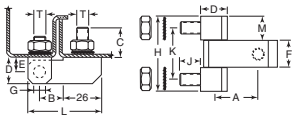
Bolt On Stud Hinges for Flush Applications

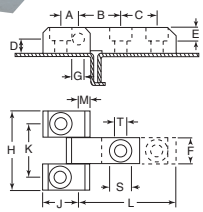


Type 1



Type 2



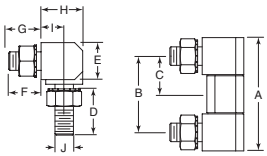


Heavy duty zinc plated steel. ELH-08 and ELH-09 have threaded studs. ELH-300 has countersunk holes.

Item No.	Type	A	B	C	D	E	F	G	H	J	K	L	M	S	T	MFG #
ELH-08	1	1.50	.83	.63	.53	.30	.51	.24	1.58	.39	1.11	2.09	.47	—	M6	1055-U4/1000-998
ELH-09	1	1.57	1.06	.79	.71	.39	.71	.31	2.01	.55	1.38	2.40	.63	—	M8	1039-U11/1000-998
ELH-300	2	.47	1.624	.98	.39	.35	.71	.31	2.17	.951	1.46	2.64	.31	.59	.33	1039-U15/1000-998

Stainless Steel - Type 304 or 316 180 degree Screw On Hinges For Projection Doors

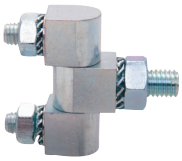


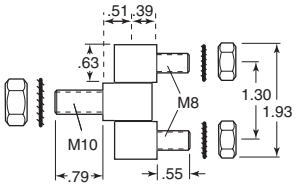


Item No.	A	B	C	D	E	F	G	H	I	J	MFG #
304 Stainless Steel											
ELH-915	1.54	1.07	.54	.55	.47	.39	.47	.53	.3	M6	1055-U6
ELH-917	1.93	1.3	.65	.87	.63	.55	.63	.71	.39	M8	1039-U19
316 Stainless Steel											
ELH-916	1.54	1.07	.54	.55	.47	.39	.47	.53	.3	M6	1055-U8
ELH-918	1.93	1.3	.65	.87	.63	.55	.63	.71	.39	M8	1039-U26

SIDE & CORNER HINGES

Bolt On Stud Hinge



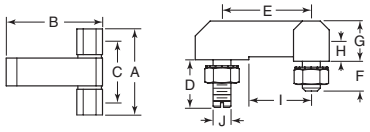


Bolt on hinge. Use with external corners. Heavy duty, zinc plated steel hinge and pin. Washer is brass nickel plated.

Item No.	Description	MFG #
ELH-07	Bolt On Stud Hinge	1039-U6/1000-998

Stainless Steel - Type 304 or 316 180 degree Screw On Hinges For Pressure Resistant Flush Doors



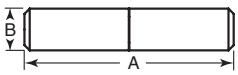


Item No.	A	B	C	D	E	F	G	H	I	J	MFG #
304 Stainless Steel											
ELH-919	1.58	1.77	1.11	.63	1.18	.39	.53	.3	.71	M6	1055-U7
ELH-921	2.01	1.97	1.38	.79	1.14	.55	.71	.39	1.02	M8	1039-U18
316 Stainless Steel											
ELH-920	1.58	1.77	1.11	.63	1.18	.39	.53	.3	.71	M6	1055-U9
ELH-922	2.01	1.97	1.38	.79	1.14	.55	.71	.39	1.02	M8	1039-U25

WELD-ON HINGES

Weld-On Hinges Stainless Steel





Item No.	A	B	MFG #
300 Stainless Steel			
ELH-01	1.57	.31	1033-U45
ELH-02	1.97	.39	1033-U46
ELH-03	2.75	.51	1033-U47
ELH-04	3.15	.63	1033-U48
304 Stainless Steel			
ELH-927	1.57	.31	1033-U45
ELH-928	1.97	.39	1033-U46
ELH-929	2.75	.51	1033-U47
ELH-930	3.15	.63	1033-U48

Weld on hinges for steel cabinets, machinery doors, steel gates, electrical boxes etc. Weld on hinges can handle most applications due to their unique but simple design. They can replace butt hinges, piano hinges, or strap hinges. Includes welding feet and brass bushing.

Item No.	A	B	MFG #
316 Stainless Steel			
ELH-931	1.57	.31	1033-U49
ELH-932	1.97	.39	1033-U50
ELH-933	2.75	.51	1033-U51
ELH-934	3.15	.63	1033-U52

Weld On Hinges

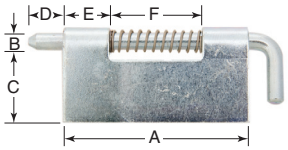


Weld on hinges for steel cabinets, machinery doors, steel gates, electrical boxes etc. Weld on hinges can handle most applications due to their unique but simple design. They can replace butt hinges, piano hinges, or strap hinges. Steel or brass fixed pin. Includes welding feet and brass bushing.

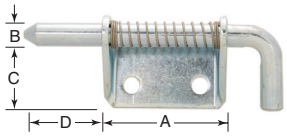
Steel w/ Steel Pin		Steel w/ Brass Pin			
Item No.	MFG #	Item No.	MFG #	Overall Length	Dia.
H-01	PSWM020FP	**H-11**	PBWM020FP	2	.314
H-02	PSWM032FP	**H-12**	PBWM032FP	3 3/16	.472
H-03	PSWM040FP	**H-13**	PBWM040FP	4	.630
H-04	PSWM060FP	**H-14**	PBWM060FP	6	.787
H-05	PSWM080FP	—		8	.905

CORNER & CONCEALED HINGES

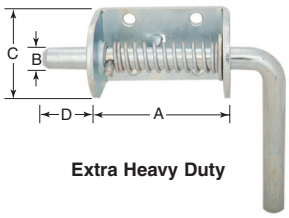
Latch Hinges



General Duty



Heavy Duty



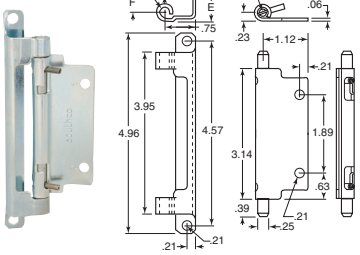
Extra Heavy Duty

Dual purpose latch hinges are ideal for lid or door latches, or easily removable hinges. The spring loaded, chamfered pin holds securely, whether used as a latch or hinge. Steel has a zinc finish. Stainless is Type 303 stainless steel. No holes included except on heavy duty latch hinges. Extra heavy duty can be used left handed or right handed. Available left or right handed. Left handed pictured.

Item No.	Leaf Thickness	Hand	A	B	C	D	E	F	MFG #
General Duty - Steel									
HG-9221	.040	Right	.875	.125	.500	.187	.250	.375	9292RH-02
HG-9222	.040	Left	.875	.125	.500	.187	.250	.375	9292LH-02
HG-9241	.050	Right	2.000	.187	.875	.375	.500	1.000	9294RH-02
HG-9242	.050	Left	2.000	.187	.875	.375	.500	1.000	9294LH-02
HG-9251	.062	Right	2.750	.250	1.000	.500	.750	1.250	9295RH-02
HG-9252	.062	Left	2.750	.250	1.000	.500	.750	1.250	9295LH-02
Heavy Duty - Steel									
HG-9261	.125	Right	2.000	.375	1.120	1.250	—	—	9296RH-02
HG-9262	.125	Left	2.000	.375	1.120	1.250	—	—	9296LH-02
HG-9271	.187	Right	3.000	.500	1.250	1.500	—	—	9297RH-02
HG-9272	.187	Left	3.000	.500	1.250	1.500	—	—	9297LH-02
Extra Heavy Duty - Steel									
BY-2595	.187	Both	3.000	.500	1.750	1.000	—	—	B2595
BY-2596	.250	Both	3.375	.750	2.000	1.000	—	—	B2596
General Duty - Type 300 Series Stainless Steel									
HG-9233	.040	Right	1.390	.156	.750	.250	.375	.625	9293RH-32
HG-9243	.050	Right	2.000	.187	.875	.375	.500	1.000	9294RH-32
HG-9244	.050	Left	2.000	.187	.875	.375	.500	1.000	9294LH-32
HG-9253	.062	Right	2.750	.250	1.000	.500	.750	1.250	9295RH-32
HG-9254	.062	Left	2.750	.250	1.000	.500	.750	1.250	9295LH-32
Heavy Duty - Type 300 Series Stainless Steel									
HG-9263	.125	Right	2.000	.375	1.120	1.250	—	—	9296RH-32
HG-9264	.125	Left	2.000	.375	1.120	1.250	—	—	9296LH-32
HG-9273	.187	Right	3.000	.500	1.250	1.500	—	—	9297RH-32
HG-9274	.187	Left	3.000	.500	1.250	1.500	—	—	9297LH-32

Concealed Removable Hinges

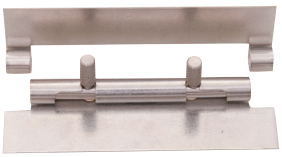
southco®

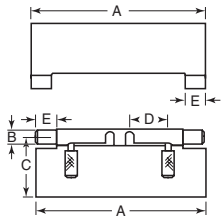


Mounts inside formed doors. Available in zinc plated steel or Type 300 series stainless steel. Accommodates either left or right hand applications. Internal spring and release pin are Type 300 series stainless steel on both the steel or stainless models. Comes with one frame leaf and one door leaf per package. Dimension E +.02" equals the distance from the outside surface of your frame to the inside surface of your door.

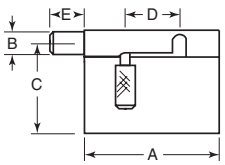
Steel		Stainless			
Item No.	MFG #	Item No.	MFG #	E	F
SC-661	F6-1	**SC-6611**	F6-1-1	.67	.47
SC-663	F6-3	**SC-6631**	F6-3-1	.92	.72

Spring Release Hinges





Front View



Side View

Door comes right off with the spring release hinge. It is a quick release hinge that can be mounted in any position and requires no tools to take the hinge off. An easy squeeze of the knurled knob retracts the spring loaded pin from the knuckle to release the leaf. Precise manufacturing standards eliminate excess side and end play from minimum door movement. Type 300 series stainless steel. Leaf thickness of .050".

Item No.	Hand	A	B	C	D	E	MFG #
HG-9201	—	4.00	.25	1.00	.41	.37	Z-07222
HG-9300	Left	1.75	.25	1.00	.53	.50	9300LH-32
HG-9301	Right	1.75	.25	1.00	.53	.50	9300RH-32

SAVE BIG STOCK UP!

Up To 75% Off

Discounted & Priced To Sell

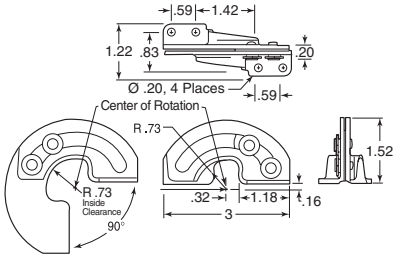
CHECK OUT OUR CLEARANCE SECTION

Concealed Hinges Fixed Installation

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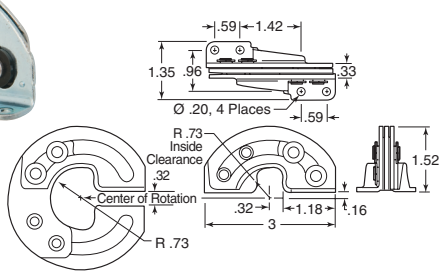


90 Degree
Free Swinging



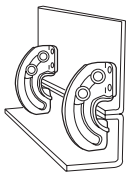


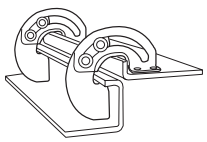
90 Degree
Stay Open





180 Degree
Free Swinging



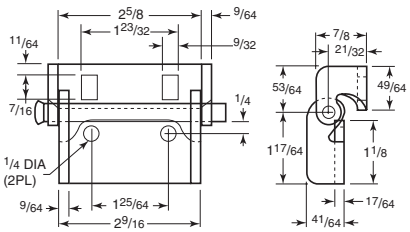


These hinges are available in 90 degree, 180 degree and 90 degree with stay open feature. They are either Type 300 series stainless steel or zinc plated steel. Both steel and stainless steel come with black acetal washers and bushings. Panels over .16" thick will require a 45 degree chamfer. Install with either M5 or No. 10 hardware, or weld.

Item No.	MFG #	Description	Maximum Working Load (Lbs.) Radial	Axial
Steel				
SC-1	R6-20-11	180 degree Free Swinging	109	23
SC-3	R6-21-11	90 degree Free Swinging	140	46
SC-5	R6-22-11	90 degree Door Stay	35	45
Stainless Steel				
SC-2	R6-20-23	180 degree Free Swinging	114	37
SC-4	R6-21-23	90 degree Free Swinging	118	42
SC-6	R6-22-23	90 degree Door Stay	63	69

Light Duty Hinge





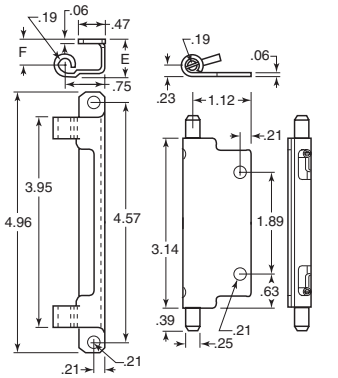
Zinc finished steel. Removable pin.

Item No.	Description	MFG #
HH-106	Light-Duty w/Removable Pin	F6BXXXXZNXX

Concealed Removable Hinges

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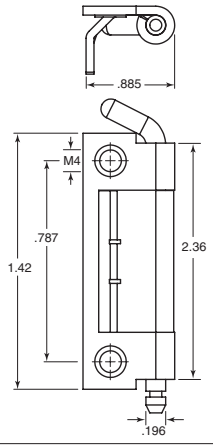
Mounts inside formed doors. Available in zinc plated steel or Type 300 series stainless steel. Accommodates either left or right hand applications. Internal spring and release pin are Type 300 series stainless steel on both the steel or stainless models. Comes with one frame leaf and one door leaf per package. Dimension E +.02" equals the distance from the outside surface of your frame to the inside surface of your door.

Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	E	F
SC-661	F6-1	**SC-6611**	F6-1-1	.67	.47
SC-663	F6-3	**SC-6631**	F6-3-1	.92	.72

120 degree Hinges for Weld Stud Fastening Screw-on and Weld On Steel

EMKA Incorporated





Item No.	Type	MFG #
ELH-1229	Screw On	1069-U6/998
ELH-1230	Weld On	1069-U5/998

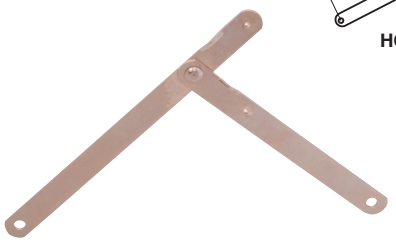
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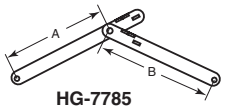
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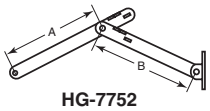
DOOR HOLDERS & LID STAYS

Lid Supports

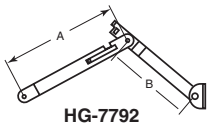




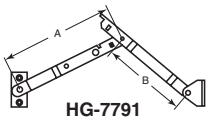
HG-7785



HG-7752



HG-7792

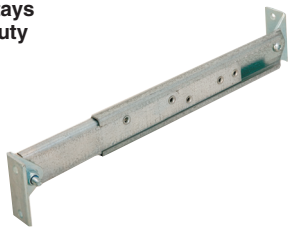


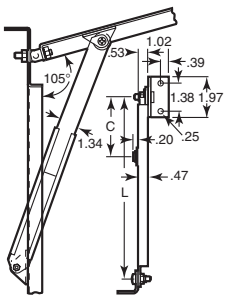
HG-7791

One right hand and one left hand included in each package. Drawings are left hand illustrated.

Item No.	Thickness	Width	OAL	A	B	Finish	MFG#.
HG-7785	.055	.50	9.50	4.44	4.44	Br. Nickel	Z-08273
HG-7752	.093	.50	10.38	4.88	4.88	Br. Nickel	Z-08271
HG-7753*	.093	.50	10.26	4.88	4.88	Br. Nickel	Z-08272
HG-7792	.109	.62	13.50	7.05	5.45	Zinc	Z-08276
HG-7791	.146	1.25	16.65	8.41	6.59	Zinc	Z-08275

Cover Stays
Heavy Duty





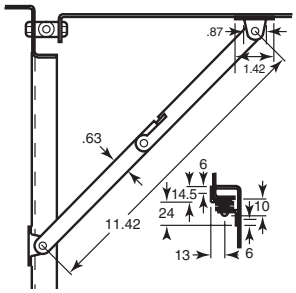
Telescopic cover stay uses either cam action or push button. Used to hold covers up. Metal catch provides positive locking in the fully extended position. To release the catch, simply raise the cover and the metal catch is released, allowing the cover to be closed. Made from heavy duty steel, zinc plated. Door angle is optional.

Item No.	L Retracted	L Extended	C	MFG#
ECS-1097	8.47	14.17	2.88	1097-U1
ECS-1099*	8.47	15.04	—	1097-U5
ECS-1098	15.67	26.97	3.50	1097-U2

*Push button release

Cover Stays
Medium Duty



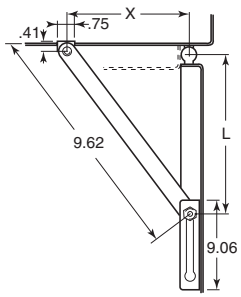


Locks in open position. Nickel plated steel.

Item No.	Description	MFG #
ECS-1050	Right Hand	1050-U1
ECS-1051	Left Hand	1050-U2

Door Stops
Steel or Stainless Steel



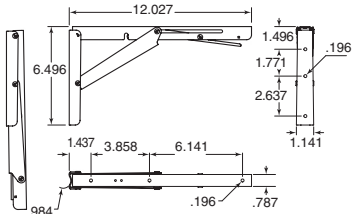


Holds door open at specific angle and prevents door from opening too far. When door is open fully, catch will hold door in place. To release door, push open slightly and catch is released. Available in zinc plated steel or Type 304 stainless steel. Opening angle is determined by "X" and "L" dimensions.

Item No.	Description	MFG #
ECS-1087	Zinc Plated Steel Door Stop	1087-U1
ECS-1088	Type 304 Stainless Steel Door Stop	1087-U1-PC

Folding Bracket
304 Stainless Steel
Electro Polish Finish





Made from 304 stainless steel, these sturdy brackets when lifted, automatically lock when flap is in open position. Simply press lever to release lock and drop out of the way. Bracket and hinge function in one unit. Ideal for corrosive environments.

Item No.	Load Capacity	MFG #
SUG-507	330 (150 kg)	EB-303/EP

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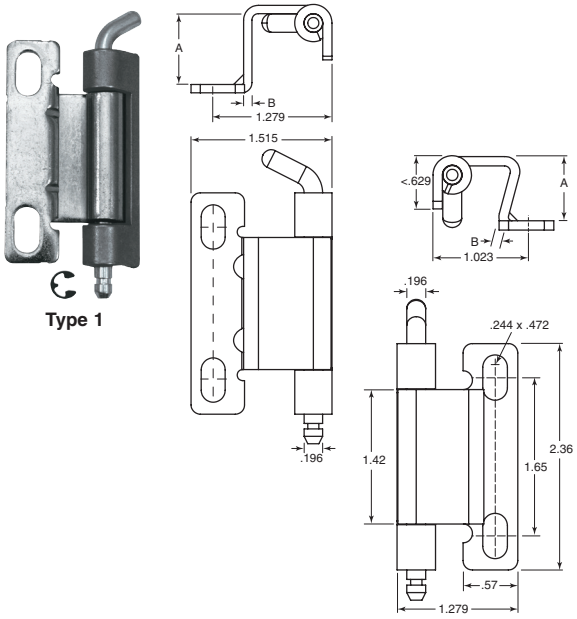


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120 Degree Hinges
Steel and Stainless Steel-Type 304

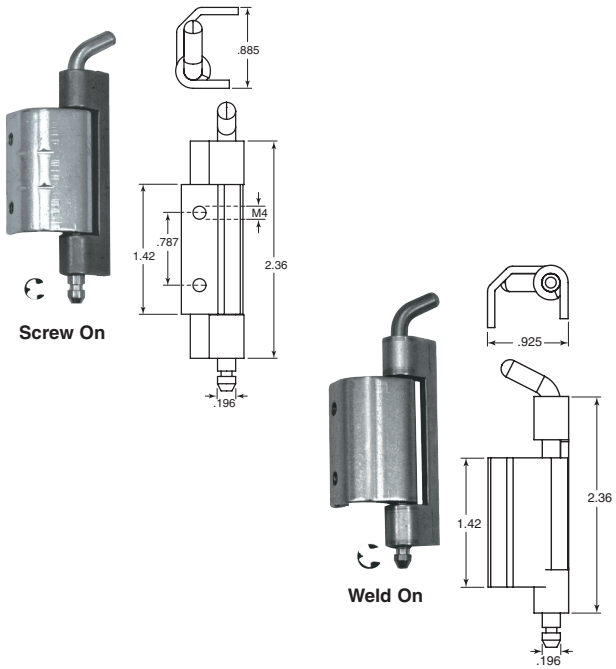
EMKA Incorporated



Item No.	A	B	Type	MFG #
Steel				
ELH-1221	.78	.098	Type 1	1032-U1/998
ELH-1222	.95	.098	Type 2	1031-U1/999
304 Stainless Steel				
ELH-1223	.78	.088	Type 2	1032-U2/998
ELH-1224	.95	.088	Type 2	1031-U2/999

120 degree Hinges
Screw On and Weld On
Steel and Stainless Steel-Type 304

EMKA Incorporated



Steel		Stainless Steel		
Item No.	MFG #	Item No.	MFG #	Type
ELH-1225	1069-U1/998	**ELH-1227**	1069-U4	Screw On
ELH-1226	1069-U2/998	**ELH-1228**	1069-U3	Weld On

GASKETING

Flat Gasket

EMKA Incorporated

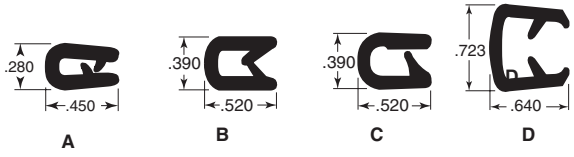


Gaskets are used in sheet metal fabrication to seal doors, and many other applications where sealing are a necessity. These gaskets meet NEMA 12 to NEMA 4X applications. They are easy to install due to the self adhesive backing, increasing its economical use. These gaskets can easily be cut to size and shape to fit many applications. These gaskets also come with fiber backing which eliminates stretching, helping to maintain seal and stay in position.

Item No.	Roll Length Feet	Size	Roll Length Feet	MFG #
Natural Rubber				
ELH-1140	33	¾ W x 3⁄16 D	33	1016-21
Neoprene				
ELH-1142	33	9⁄16 W x 3⁄16 D	33	1016-66

Push-On Edge Trim Black Vinyl



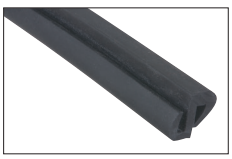


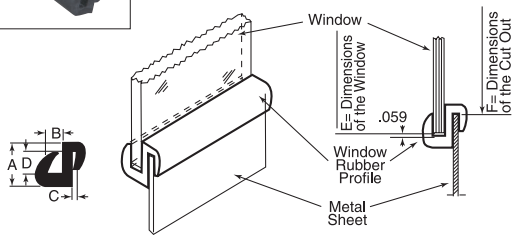
Simply push on exposed edges of metal, fiberglass, plastic, plywood or glass. Positive gripping locks trim in place. Black Sof-Tone except STP-332 and STP-333 which are safety orange and yellow respectively. All are a flexible 65 durometer vinyl with segmented metal core. STP-316 has a durometer of 80.

Item No.	Grip Range	For Edges	Profile	Color	Roll Length Feet	Roll Length m	MFG #
STP-341	.010 - .050	1⁄32	A	Black	500	152	75000341
STP-316*	.032 - .125	1⁄32 - 1⁄8	B	Black	400	122	75000316
STP-708	.090 - .190	1⁄8 - 3⁄16	C	Black	400	122	75000334
STP-332	.090 - .190	1⁄8 - 3⁄16	C	Orange	200	61	75000332
STP-333	.090 - .190	1⁄8 - 3⁄16	C	Yellow	100	30	75000333
STP-349	.250 - .500	3⁄8 - ½	D	Black	300	91	75000349

*Durometer is 80 shore A 15 second delay

Window Mounting Black Rubber NEMA 12 Rated





Quick and easy way to attach windows to frames. Does not require any installation tools. Made from soft rubber EPDM 60 degree shore A. Color is black. NEMA 12 rated for water and dust.

Item No.	A	B	C	D	E	Roll Length Feet	Roll Length m	MFG #
ELH-615	.638	.177	.094	.343	F (Cut Out Dimensions) + .571	164	50	1074-01
ELH-620	.638	.256	.094	.343	F (Cut Out Dimensions) + .571	164	50	1074-02

Push-On Trim Seals Black Vinyl / Rubber



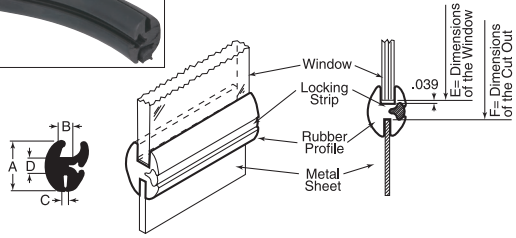


Weatherstrip and trim by simply pushing over raw edges. All but the STP-1614 are black vinyl and sponge rubber with flexible segmented steel core. STP-1614 is a black dual durometer EPDM rubber extrusion with a segmented steel core.

Item No.	Grip Range	Bulb Size	Bulb Location	D	Roll Length Feet	Roll Length m	MFG #
STP-1830	.060 - .170	3⁄8	C	.518	250	76	75001830
STP-1827	.090 - .190	5⁄8	C	.520	250	76	75001827
STP-1614	.071 - .111	—	—	.626	164	50	75001614

Window Seals Black Rubber Nema 12 Rated





Allows a quick and efficient way to attach windows to frames. NEMA 12 rated safe for water or outdoors. The window profile is made from soft rubber, EPDM material, 70 degree shore. The locking strip is made from EPDM 85 degree shore. In order to safely attach and seal the window to the frame the locking strip must be used. The locking strip is included. Color is black. ELH-610 includes two tools: one window tool and one locking strip tool.

Item No.	A	B	C	D	F	Roll Length Feet	Roll Length m	MFG#
ELH-600	.827	.236	.098	.276	.630 + E (Window Dimensions)	66	20	1030-03+1030-05

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FEET, CASTERS AND VIBRATION MOUNTS

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Caster Wheels, Sets & Accessories
Pg. 296-299



Stem Casters
Pg. 300-304



Ball Casters & Transfers
Pg. 306



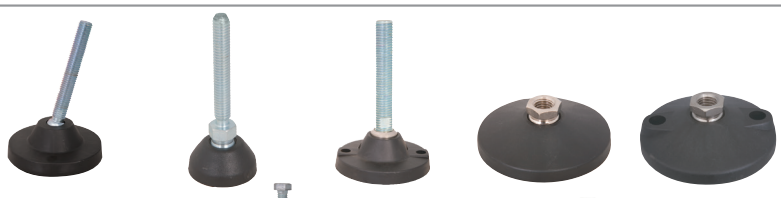
Furniture Casters
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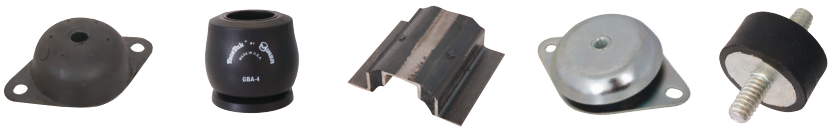
Plastic Based Levelers
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Machinery & Leveling Mounts
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Vibration Mounts
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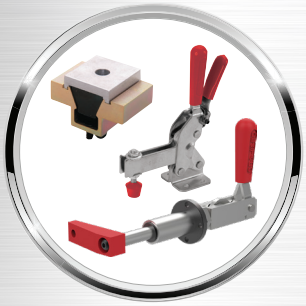


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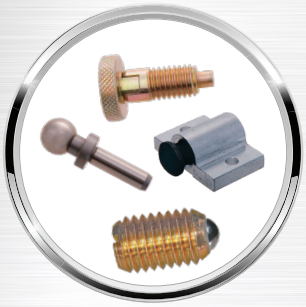
KNOBS HANDLES



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ADJUSTABLE HANDLES



TOOLING & POSITIONING



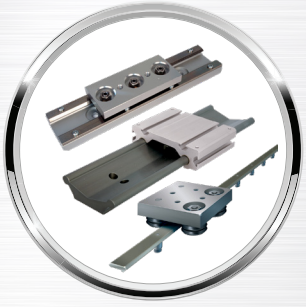
FEET, CASTERS VIBRATION MOUNTS



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How To Choose The Right Caster

There is no simple formula or rule that can be followed in selecting the proper casters. Many varying and individual factors must be balanced to make the selection that will do the best job for you. The following are several of the more important considerations.

Load Weight. The heavier the load, the larger the wheel required for the caster. The weight of the load also influences the mobility of the wheel. Roller or ball bearings are recommended for loads over 400 pounds. Weight capacities are shown for each caster in this catalog.

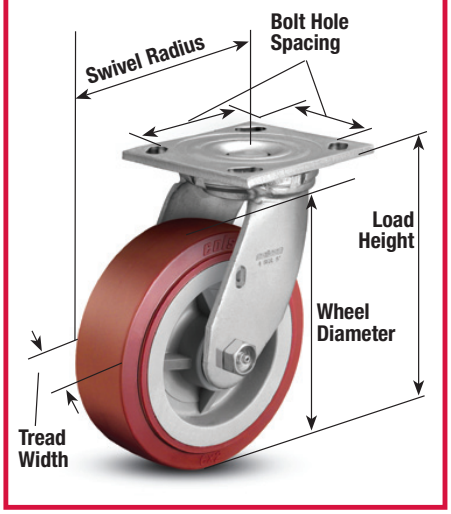
Floor Conditions. Make sure the wheel you select is large enough to pass over cracks in the floor, tracks, moldings and other obstructions. For floor protection on linoleum, tile, carpet, etc., use polyurethane or Performa rubber wheels.

Unusual Conditions. Each wheel material has certain characteristics which will give the best results where unusual conditions exist. For example, where acids, oils, chemicals and other conditions harmful to rubber are present, Colson polyurethane, polyolefin, Maxim, phenolic or steel wheels are recommended. Check conditions, then select the caster and wheel.

Rolling Ease. The larger the wheel diameter, the easier it rolls. Roller bearings carry heavier loads. Ball bearings roll easier but carry lesser loads. When possible, use the largest ball bearing wheel for best results.

Extreme Climates. Room temperatures are no problem for most casters. But extreme cold or heat can be a problem. Colson helps solve this problem with "Colson 45"—the green lube which assures caster rolling ease from 45°F below zero to 260°F above. It's standard on most Colson casters. (**Note**: Some wheel types should not be used in extreme temperature ranges. Consult factory.)

Caster Terms



Wheel Terms

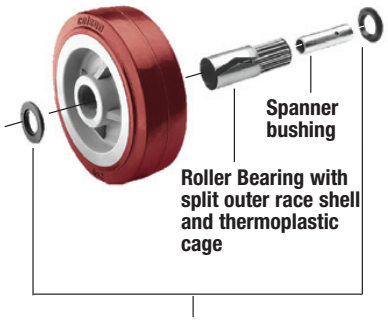
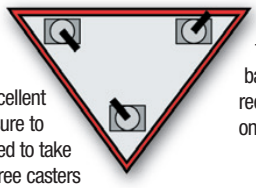


Photo above shows typical wheel. Bearings, bushings, etc. may vary with different wheel types.

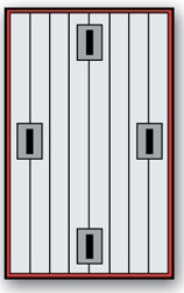
Caster Combinations for Trucks

In building, repairing and refurbishing mobile equipment, various effective caster combinations may be used. Several types of mountings are illustrated below.

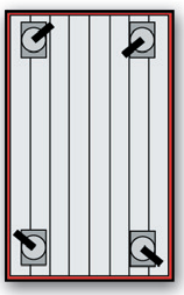
Three Swivel. For barrel dollies and small portable machines. Affords excellent maneuverability. Be sure to select casters designed to take the weight load on three casters rather than the usual four.



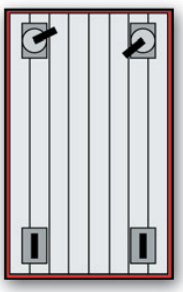
Tilt Mounting. A tilt mounting is the most economical, but should be limited to lighter loads. The tilt is best when the load wheels are 1/8" taller than the balance wheels. Not recommended for use on ramps.



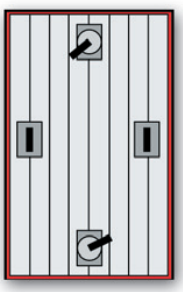
Four Swivel. Where a side motion is frequently needed, the four swivel arrangement is excellent. If the casters are equipped with swivel locks, this mounting is also practical for long straight travel as well as use on ramps. A most versatile arrangement.



Two Rigid, Two Swivel. Most practical and inexpensive arrangement for straight and/or long distances. Can be used for heavy or medium loads, depending upon the weight capacity of the casters selected.



Diamond Mounting. Two rigid and two swivel casters, but the diamond shaped mounting greatly increases maneuverability. This mounting is not recommended for ramps.



Four Swivel, Two Rigid. This is a level mounting design for heavy loads and long trucks. The two rigid casters help to distribute and reduce the load on the swivel units and thereby maintain good maneuverability and easy steering.

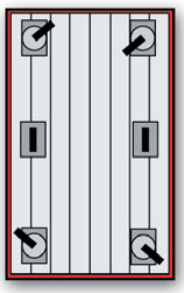
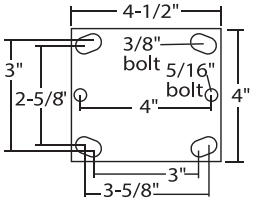


PLATE CASTERS

Colson Caster
Swivel & Ridged
With and Without Brake
Applications: 300 - 1250 lbs.





Top Plate Dimensions

- Weight capacities up to 1,250 lbs. per caster
- All wheels have 2" tread width
- Available in 4", 5", 6" and 8" wheel diameters
- All wheels have roller bearings
- Double ball raceways for smooth swiveling action
- 1/4" thick steel leg construction
- 5/8" diameter permanent rivet kingpin
- 1/2" hollow axle with grease zerk and lock nut
- RoHS compliant industrial zinc finish for corrosion resistance

With Break Item No.	Without Break Item No.	Wheel Dia. x Width	Caster Type	Wheel Color	Mounting Height	Capacity (Lbs.)
Thermo Plastic Rubber Wheel (Flat)						
1318625	1318617	4 x 2	Swivel	Grey	5.625	300
1318641	1318633	4 x 2	Rigid	Grey	5.625	300
1318657	1318649	5 x 2	Swivel	Grey	6.500	350
1318673	1318665	5 x 2	Rigid	Grey	6.500	350
1318689	1318681	6 x 2	Swivel	Grey	7.500	500
1318705	1318697	6 x 2	Rigid	Grey	7.500	500
1318721	1318713	8 x 2	Swivel	Grey	9.500	600
1318737	1318729	8 x 2	Rigid	Grey	9.500	600
Thermo Plastic Rubber Wheel (Donut)						
1318626	1318618	4 x 2	Swivel	Grey	5.625	300
1318642	1318634	4 x 2	Rigid	Grey	5.625	300
1318658	1318650	5 x 2	Swivel	Grey	6.500	350
1318674	1318666	5 x 2	Rigid	Grey	6.500	350
1318690	1318682	6 x 2	Swivel	Grey	7.500	500
1318706	1318698	6 x 2	Rigid	Grey	7.500	500
1318722	1318714	8 x 2	Swivel	Grey	9.500	600
1318738	1318730	8 x 2	Rigid	Grey	9.500	600
Rubber Molded To Cast Iron Wheel						
1318624	1318616	4 x 2	Swivel	Black	5.625	400
1318640	1318632	4 x 2	Rigid	Black	5.625	400
1318656	1318648	5 x 2	Swivel	Black	6.500	400
1318672	1318664	5 x 2	Rigid	Black	6.500	400
1318688	1318680	6 x 2	Swivel	Black	7.500	550
1318704	1318696	6 x 2	Rigid	Black	7.500	550
1318720	1318712	8 x 2	Swivel	Black	9.500	600
1318736	1318728	8 x 2	Rigid	Black	9.500	600
Polypropylene Wheel						
1318628	1318620	4 x 2	Swivel	Black	5.625	500
1318644	1318636	4 x 2	Rigid	Black	5.625	500
1318660	1318652	5 x 2	Swivel	Black	6.500	600
1318676	1318668	5 x 2	Rigid	Black	6.500	600
1318692	1318684	6 x 2	Swivel	Black	7.500	600
1318708	1318700	6 x 2	Rigid	Black	7.500	600
1318724	1318716	8 x 2	Swivel	Black	9.500	900
1318740	1318732	8 x 2	Rigid	Black	9.500	900

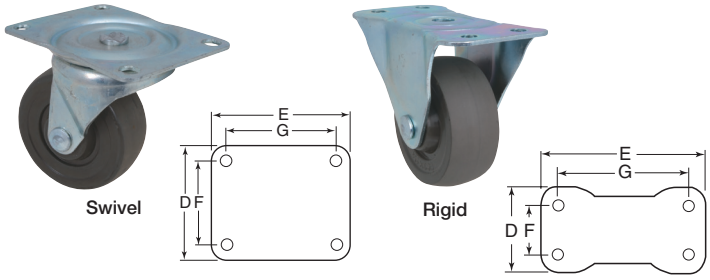
With Break Item No.	Without Break Item No.	Wheel Dia. x Width	Caster Type	Wheel Color	Mounting Height	Capacity (Lbs.)
Urethane Wheel						
1318622	1318614	4 x 2	Swivel	Maroon/Grey	5.625	500
1318638	1318630	4 x 2	Rigid	Maroon/Grey	5.625	500
1318654	1318646	5 x 2	Swivel	Maroon/Grey	6.500	600
1318670	1318662	5 x 2	Rigid	Maroon/Grey	6.500	600
1318686	1318678	6 x 2	Swivel	Maroon/Grey	7.500	720
1318702	1318694	6 x 2	Rigid	Maroon/Grey	7.500	720
1318718	1318710	8 x 2	Swivel	Maroon/Grey	9.500	800
1318734	1318726	8 x 2	Rigid	Maroon/Grey	9.500	800
Polyurethane Molded To Cast Iron Wheel						
1318623	1318615	4 x 2	Swivel	Red/ Grey	5.625	800
1318639	1318631	4 x 2	Rigid	Red/ Grey	5.625	800
1318655	1318647	5 x 2	Swivel	Red/ Grey	6.500	1100
1318671	1318663	5 x 2	Rigid	Red/ Grey	6.500	1100
1318687	1318679	6 x 2	Swivel	Red/ Grey	7.500	1200
1318703	1318695	6 x 2	Rigid	Red/ Grey	7.500	1200
1318719	1318711	8 x 2	Swivel	Red/ Grey	9.500	1250
1318735	1318727	8 x 2	Rigid	Red/ Grey	9.500	1250
Phenolic Wheel						
1318627	1318619	4 x 2	Swivel	Black	5.625	800
1318643	1318635	4 x 2	Rigid	Black	5.625	800
1318659	1318651	5 x 2	Swivel	Black	6.500	1000
1318675	1318667	5 x 2	Rigid	Black	6.500	1000
1318691	1318683	6 x 2	Swivel	Black	7.500	1200
1318707	1318699	6 x 2	Rigid	Black	7.500	1200
1318723	1318715	8 x 2	Swivel	Black	9.500	1250
1318739	1318731	8 x 2	Rigid	Black	9.500	1250
Cast Iron Wheel						
1318629	1318621	4 x 2	Swivel	Grey	5.625	800
1318645	1318637	4 x 2	Rigid	Grey	5.625	800
1318661	1318653	5 x 2	Swivel	Grey	6.500	1000
1318677	1318669	5 x 2	Rigid	Grey	6.500	1000
1318693	1318685	6 x 2	Swivel	Grey	7.500	1200
1318709	1318701	6 x 2	Rigid	Grey	7.500	1200
1318725	1318717	8 x 2	Swivel	Grey	9.500	1250
1318741	1318733	8 x 2	Rigid	Grey	9.500	1250

PLATE CASTERS

Wheel Type Description					
Duro-Tred	—	Polyurethane tread permanently vulcanized to a semi-steel or aluminum core. Cushioned ride and long wear under heavy load. Excellent mobility.	Polyflex	—	Polyolefin wheel is light weight and impact resistant. Withstands water and chemicals. Non-marking, good mobility.
Dyna-Tred	—	Santoprene thermoplastic rubber resists chemicals, high temperatures and wear. Polypropylene hub won't dent, mar or stain.	Rockite	—	Hard rubber composition throughout - impervious to oil and greases.
Dyna-Tred Poly	—	Polyurethane allows high load capacity and extended wear. Resists chemicals. Polyproplene hub won't dent, mar or stain.	Ruberex	—	Composition rubber wheel combines a soft rubber tread with a hard rubber core. Quiet movement and cushioned ride.
K-Wheel	—	High strength solid urethane withstands temperatures from -50° to 180° F. Load characteristics of steel. Steam cleanable.	Semi-Steel	—	Cast iron toughened with steel. High load rating and long wear life.
Plaskite	—	Phenolic compound reinforced with macerated fabric makes a high impact wheel resistant to oil, gas, etc.	Sintered Iron	—	Powdered iron, compacted and sintered to cast iron strength. Concentric and smooth tread.
			Vulcanized Rubber	—	Cushioned rubber tread permanently vulcanized to semi-steel core.

Bearing Type Description					
Plain	—	Wheel bore rides on the spanner bushing or axle. Used for light loads and low movement.	Self-Lubricating	—	Oil-impregnated bronze for use where there is moisture or low maintenance is needed.
Roller	—	For heavier loads-anti-friction.			

Colson Caster
General Duty
Applications: 90-450 Lbs.

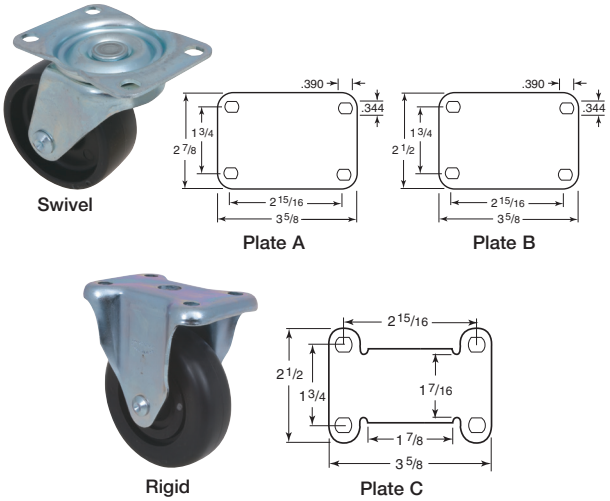


Wheel Size	Swivel D x E	Swivel F x G	Wheel Size	Rigid D x E	Rigid F x G
2	1 7/8 x 2 9/16	15/16 x 2 1/8	2	1 1/2 x 2 21/32	15/16 x 2 1/8
2 1/2	2 3/4 x 3 13/16	1 3/4 x 3	2 1/2	2 1/4 x 4 7/16	1 1/16 x 3 1/2
3	3 1/8 x 4 1/8	2 5/8 x 3 5/8 to 3 7/16	3	2 1/2 x 4 15/16	1 3/16 x 4
4	4 x 5 1/8	3 x 4	4	3 1/8 x 6 1/4	1 3/4 x 5
5	5 1/16 x 5 15/16	3 3/4 x 4 1/2	5	3 1/2 x 7 1/4	1 7/8 x 6

Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
NFC-25082	NFC-25748	2 x 1	Ruberex	90	2 1/2
NFC-25086	—	2 x 1	Ruberex	90	2 1/2
NFC-25124	NFC-25783	2 x 1	Rockite	150	2 1/2
NFC-25125*	—	2 x 1	Rockite	150	2 1/2
NFC-25083	NFC-25749	2 1/2 x 1 1/8	Ruberex	100	3 1/4
NFC-25128	NFC-25785	2 1/2 x 1 1/8	Rockite	200	3 1/4
NFC-25091	NFC-25752	3 x 1 1/4	Ruberex	175	3 13/16
NFC-25095*	—	3 x 1 1/4	Ruberex	175	3 13/16
NFC-25136	NFC-25787	3 x 1 1/4	Rockite	270	3 13/16
NFC-25179	NFC-25814	3 x 1 1/4	Plaskite	300	3 13/16
NFC-25049	—	3 x 1 3/16	Sintered-Iron	300	3 13/16
NFC-25149	NFC-25790	4 x 1 5/16	Rockite	350	5
NFC-25176*	—	4 x 1 5/16	Rockite	350	5
NFC-25057	—	4 x 1 3/8	Sintered-Iron	450	5

*With brake

Colson Caster
Light Medium Duty
5/16" Mounting Bolt
Applications: 175 - 290 Lbs.



Item No.	Plate Style	Wheel Dia. x Width	Wheel Type	Bearing	Capacity (Lbs.)	OAH
Swivel						
NFC-25447	A	2 1/2 x 1 1/8	Rockite	Self-Lube	200	3 5/16
NFC-24578	A	3 x 1 1/4	Ruberex	Self-Lube	175	3 13/16
NFC-25451	A	3 x 1 1/4	Rockite	Self-Lube	270	3 13/16
NFC-25518	A	3 x 1 1/4	Polyflex	Plain	270	3 13/16
NFC-25510	B	3 1/2 x 1 5/16	Rockite	Self-Lube	275	4 3/4
NFC-25413	B	4 x 1 1/4	Ruberex	Self-Lube	200	5
NFC-25460	B	4 x 1 1/4	Rockite	Self-Lube	275	5
NFC-25475	B	4 x 1 1/4	Polyflex	Plain	275	5
NFC-25533	B	5 x 1 1/4	Ruberex	Self-Lube	200	6 1/8
NFC-25467	B	5 x 1 1/4	Rockite	Self-Lube	290	6 1/8
Rigid						
NFC-25111	C	2 1/2 x 1 1/8	Rockite	Self-Lube	200	3 5/16
NFC-25113	C	3 x 1 1/4	Ruberex	Self-Lube	175	3 13/16
NFC-25114	C	3 x 1 1/4	Rockite	Self-Lube	270	3 13/16
NFC-27280	C	4 x 1 1/4	Ruberex	Self-Lube	200	5
NFC-25099	C	4 x 1 1/4	Rockite	Self-Lube	275	5
NFC-25105	C	4 x 1 1/4	Polyflex	Plain	275	5
NFC-27281	C	5 x 1 1/4	Ruberex	Self-Lube	200	6 1/8
NFC-25109	C	5 x 1 1/4	Rockite	Self-Lube	290	6 1/8
NFC-27293	C	5 x 1 1/4	Polyflex	Plain	290	6 1/8

Note: Roll lock brake kits available for 4" and 5" casters.

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Colson Caster
Caster Wheels
Applications: 150-900 Lbs.



Rockite



Plaskite

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Lgth.	Axle Size	Bearing
NFC-42010	2 x 1	Rockite	150	1 1/64	1/4	Self-Lube
NFC-42011	2 1/2 x 1 1/8	Rockite	200	1 3/8	5/16	Self-Lube
NFC-42021	3 x 1 1/4	Rockite	270	1 5/16	3/8	Self-Lube
NFC-37636	4 x 2	Plaskite	700	2 3/16	3/4	Roller
NFC-37637	6 x 2	Plaskite	900	2 3/16	3/4	Roller
NFC-37643	8 x 2	Plaskite	900	2 7/16	3/4	Roller

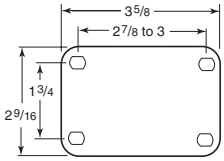
Colson Caster
Light Duty
Self Lubricating Bearings
5/16" Mounting Bolt
Applications: 90-115 Lbs.



Swivel



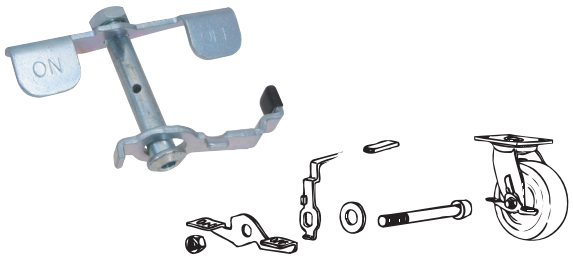
Rigid



Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
NFC-29906	NFC-31232	3 x 13/16	Ruberex	90	3 3/4
NFC-29920*	NFC-31239	4 x 15/16	Ruberex	115	4 13/16

*With brake

Colson Caster
Caster Rollock Brake Kit



Tread-gripping action locks wheel and prevents rolling. Simple cam mechanism has no connecting linkage to wear or misalign. Installation is quick and easy. Instructions included. Available only for light medium duty and medium heavy duty Faultless swivel casters.

Item No.	Size	Item No.	Size
Light Medium Duty Casters		Medium Heavy Duty Casters	
NFC-32275	4	NFC-32280	4
NFC-32276	5	NFC-32277	5
		NFC-32278	6

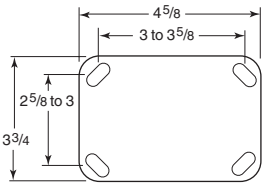
Colson Caster
Medium Heavy Duty
Roller Bearings
3/8" Mounting Bolt
Applications: 350 - 1,000 Lbs.



Swivel



Rigid



Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
NFC-26837	NFC-27127	4 x 2	Vulc. Rubber	350	5 5/8
NFC-26908	NFC-27079	4 x 2	Polyflex	450	5 5/8
NFC-26926	NFC-27160	4 x 2	Semi-Steel	700	5 5/8
—	NFC-27115	4 x 2	Plaskite	700	5 5/8
—	NFC-27045	4 x 2	K-Wheel	700	5 5/8
NFC-26840	NFC-27129	5 x 2	Vulc. Rubber	400	6 1/2
NFC-26985	NFC-27036	5 x 2	Dyna-Tred Poly	750	6 1/2
NFC-26814	NFC-27123	5 x 2	Semi-Steel	900	6 1/2
NFC-26816	NFC-27114	5 x 2	Plaskite	900	6 1/2
NFC-26784	NFC-27046	5 x 2	K-Wheel	900	6 1/2
NFC-26827	—	6 x 2	Vulc. Rubber	410	7 1/2
NFC-26723	NFC-27155	6 x 2	Dyna-Tred	550	7 1/2
—	NFC-27081	6 x 2	Polyflex	700	7 1/2
NFC-26811	NFC-27124	6 x 2	Semi-Steel	900	7 1/2
NFC-26817	NFC-27116	6 x 2	Plaskite	900	7 1/2
NFC-26828	—	6 x 2	Duro-Tred	900	7 1/2
NFC-26829		8 x 2	Duro-Tred	1000	9 1/2

Note: Roll lock brake kits available for all sizes.

Colson Caster
Threaded Stem
Applications: 70 - 125 Lbs.

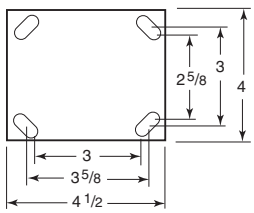


Ruberex wheels. Self lubricating bearings.

Item No.	Wheel Dia. x Width	Capacity (Lbs.)	OAH	Stem
NFC-30660	1 5/8 x 47/64	70	2 5/32	3/8-16 x 1 1/2
NFC-30648	2 x 7/8	80	2 17/32	3/8-16 x 1 1/2
NFC-30719	3 x 13/16	90	3 1/2	3/8-16 x 1 1/2
NFC-30764	4 x 15/16	115	4 11/16	1/2-13 x 1 1/2
NFC-30797	5 x 15/16	125	5 23/32	1/2-13 x 1 1/2

Colson Caster
Pneumatic
Applications: 300 - 350 Lbs.





Ball bearings. Moves smoothly and safely over rough and bumpy surfaces. Absorbs shock and vibration caused by floor obstructions or outdoor terrains. Four ply tires.

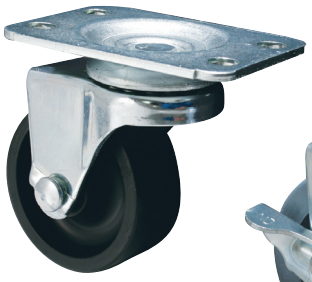
Swivel Item No.	Rigid Item No.	Tire Diameter	Capacity (Lbs.)	OAH
NFC-46110	NFC-46111	8	300	9 1/2
NFC-46112	NFC-46113	10	350	11 7/8

PLATE CASTERS

Wheel Type Description			
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.	Polyolefin	— Black molded polyolefin.

ER Wagner
Furniture Casters
Light Duty
Applications: 75-100 Lbs.

ER WAGNER



Swivel



Swivel w/ Brake

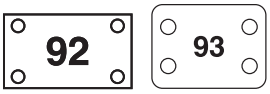


Plate Specifications		
Plate Type	92	93
Overall Size	1 3/16 x 2	1 29/32 x 3/8
Hole Spacing	13/16 x 1 9/16	15/16 x 2 1/8
Hole Dia.	1/4	9/32
Bolt Dia.	#10 Screw	1/4

Double row swivel construction. ¼" diameter rivet axle. Zinc plated finish. Available in swivel plate and swivel plate with brake.

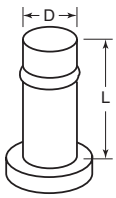
Swivel Item No.	Swivel w/ Brake Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-9427-30	—	Polyolefin	2 x ¾	100	Plain	2 ⅝	92
WC-9427-35	—	Polyolefin	2 x ¾	100	Plain	2 ⅝	93
WC-9426-10	WC-9426-20	TPR Rubber	2 x 13/16	75	Plain	2 ⅝	92
WC-9409-10	—	Hard Rubber	2 x 13/16	100	Delrin	2 ⅝	93
WC-9427-25	—	Polyolefin	2 x ¾	100	Plain	2 ⅝	92
WC-9404-55	WC-9404-60	Soft Rubber	2 ½ x 13/16	90	Delrin	2 ⅝	92

ER Wagner
Light - Medium Duty
Applications: 125-280 Lbs.

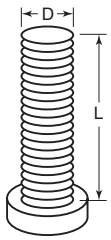
ER WAGNER



Swivel Threaded Stem



Friction Ring Stem



Threaded Stem

Item No.	D	L	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
Friction Ring Stem						
WC-121	7/16	1⅜	3 x 1¼	Soft Rubber	125	3⅝
WC-124	7/16	1⅜	3 x 1¼	Polyolefin	210	3⅝
WC-125	7/16	1⅜	4 x 1¼	Polyolefin	255	4½
WC-126	7/16	1⅜	5 x 1¼	Polyolefin	280	5½
Threaded Stem						
WC-127	⅜-16	1½	3 x 1¼	Soft Rubber	125	3⅝
WC-128	⅜-16	1½	4 x 1¼	Soft Rubber	165	4½
WC-130	½-13	1½	3 x 1¼	Soft Rubber	125	3⅝
WC-131	½-13	1½	4 x 1¼	Soft Rubber	165	4½
WC-133	⅜-16	1½	3 x 1¼	Polyolefin	210	3⅝
WC-134	⅜-16	1½	4 x 1¼	Polyolefin	255	4½
WC-135	⅜-16	1½	5 x 1¼	Polyolefin	280	5½
WC-136	½-13	1½	3 x 1¼	Polyolefin	210	3⅝
WC-137	½-13	1½	4 x 1¼	Polyolefin	255	4½
WC-138	½-13	1½	5 x 1¼	Polyolefin	280	5½
WC-140			Brake Kit			

ER Wagner
Furniture Casters - Low Profile Rigid
Light Duty
Applications: 60-75 Lbs.

ER WAGNER



Rigid

¼" diameter rivet axle. Zinc plated finish. Recommended for day beds, studio couches and camper door guard applications.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Mounting Plate
WC-9427-45	Polyolefin	2 x ¾	75	Delrin	2 1/16	1 13/16 x 1 7/16

STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

PLATE CASTERS

Wheel Type Description			
Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.	Polyurethane	— Polyurethane tread molded to grey polypropylene core.
Polyolefin	— Black molded polyolefin.	TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.

ER Wagner
Institutional Casters Nickel Plated
Medium Duty
Applications: 375-450 Lbs.

ER WAGNER

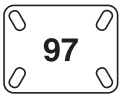
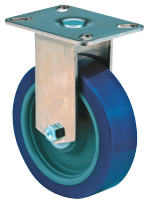


Plate Specifications	
Plate Type 97	
Overall Size	3⅛ x 4⅛
Hole Spacing	1¾ x 3 to 2⅝ x 3⅜
Hole Dia.	⅜ x ¾ Slots
Bolt Dia.	⅝


Swivel


Swivel with Brake


Rigid

Available in swivel, swivel with strap brake, and rigid casters with polyurethane and polyolefin treads and Delrin™ wheel bearings. NSF certified with swivel raceway dust covers and grease seals. Casters have a nickel finish.

Swivel w/Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-256	WC-254	WC-255	4 x 1½	Polyurethane	375	5⅜
WC-265	WC-263	WC-264	4 x 1⅜	Polyolefin	375	5⅜
WC-259	—	WC-258	5 x 1½	Polyurethane	450	6⅜
WC-268	WC-266	WC-267	5 x 1⅜	Polyolefin	450	6⅜
WC-262	WC-260	WC-261	6 x 1½	Polyurethane	450	7⅜
WC-271	WC-269	—	6 x 1⅜	Polyolefin	450	7⅜

ER Wagner
Institutional Casters Large Plate
Medium Duty
Applications: 375-450 Lbs.

ER WAGNER

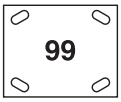
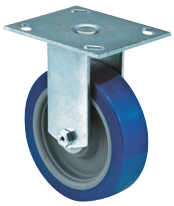


Plate Specifications	
Plate Type 99	
Overall Size	3¾ x 4⅝
Hole Spacing	2⅝ x 3⅝ to 3 x 3
Hole Dia.	⅜ x ¾ Slots
Bolt Dia.	⅝


Swivel


Swivel with Brake

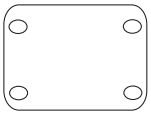

Rigid

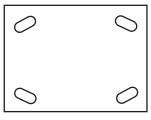
Available in swivel, swivel with strap brake, and rigid casters with polyurethane, polyolefin, and phenolic treads and roller wheel bearings. NSF certified with swivel raceway dust cover. Casters have a clear zinc finish.

Swivel w/Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-274	WC-272	WC-273	4 x 1½	Polyurethane	375	5⅜
WC-283	WC-281	WC-282	4 x 1⅜	Polyolefin	375	5⅜
WC-292	WC-290	WC-291	4 x 1½	Phenolic	450	5⅜
WC-277	WC-275	WC-276	5 x 1½	Polyurethane	450	6⅜
WC-286	—	WC-285	5 x 1⅜	Polyolefin	450	6⅜
WC-295	WC-293	WC-294	5 x 1½	Phenolic	450	6⅜
WC-280	WC-278	WC-279	6 x 1½	Polyurethane	450	7⅜
WC-289	WC-287	WC-288	6 x 1⅜	Polyolefin	450	7⅜
WC-298	WC-296	WC-297	6 x 1½	Phenolic	450	7⅜

ER Wagner
Medium Heavy Duty
Applications: 300-700 Lbs.

ER WAGNER


Top Plate A


Top Plate B


Swivel


Swivel with Total Lock Brake


Rigid

Plate Specifications		
Plate Type	A	B
Overall Size	2¾ x 3¾	4 x 4⅝
Hole Spacing	1¾ x 2⅞ to 3	2⅝ x 3⅝ to 3 x 3
Hole Dia.	11/32 x 13/32 slots	⅜ x ¾ slots
Bolt Dia.	⅝	⅜

Available as swivel, rigid, or swivel with total lock brake, which simultaneously locks wheel and swivel. High strength double ball, hardened raceways. Roller bearing wheel and ½" nut and bolt axle with grease zerk fitting.

Swivel w/ Brake Item No.	Swivel Item No.	Rigid Item No.	Top Plate Style	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-1	WC-3	WC-5	A	4 x 2	TPR Rubber	300	5⅝
—	WC-4	WC-6	B	4 x 2	TPR Rubber	300	5⅝
WC-19	WC-21	WC-23	A	4 x 2	Polyurethane	600	5⅝
WC-20	WC-22	WC-24	B	4 x 2	Polyurethane	600	5⅝
WC-37	—	WC-41	A	4 x 2	Polyolefin	400	5⅝
WC-38	WC-40	WC-42	B	4 x 2	Polyolefin	400	5⅝
WC-55	WC-57	WC-59	A	4 x 2	Phenolic	600	5⅝
WC-56	WC-58	WC-60	B	4 x 2	Phenolic	600	5⅝
WC-7	—	WC-11	A	5 x 2	TPR Rubber	350	6½
WC-8	WC-10	—	B	5 x 2	TPR Rubber	350	6½
WC-25	WC-27	WC-29	A	5 x 2	Polyurethane	650	6½
WC-26	WC-28	WC-30	B	5 x 2	Polyurethane	650	6½
—	WC-63	—	A	5 x 2	Phenolic	650	6½
WC-62	—	WC-66	B	5 x 2	Phenolic	650	6½
—	—	WC-47	A	5 x 2	Polyolefin	450	6½
WC-13	WC-15	—	A	6 x 2	TPR Rubber	400	7½
WC-31	WC-33	WC-35	A	6 x 2	Polyurethane	700	7½
WC-32	WC-34	WC-36	B	6 x 2	Polyurethane	700	7½
WC-50	WC-52	—	B	6 x 2	Polyolefin	560	7½
WC-67	WC-69	WC-71	A	6 x 2	Phenolic	700	7½
WC-68	—	WC-72	B	6 x 2	Phenolic	700	7½

PLATE CASTERS

Wheel Type Description			
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
Polyurethane	— Polyurethane tread molded to gray polypropylene core.	TPR Rubber	— Thermoplastic non-marking rubber tread on polyolefin core.
Polyolefin	— Black molded polyolefin.		

ER Wagner
Institutional Casters Small Plate
Medium Duty
Applications: 225-300 Lbs.

ER WAGNER



Swivel



Swivel with Brake



Rigid

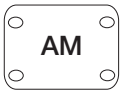


Plate Specifications	
Plate Type AM	
Overall Size	2⅜ x 3⅜
Hole Spacing	1¾ x 2⅜ to 3
Hole Dia.	11/32 x ½ Slots
Bolt Dia.	5/16

Available in swivel, swivel with strap brake, and rigid casters with TPR rubber donut and polyurethane treads and precision ball wheel bearings. Casters have a clear zinc finish. NSF certified with swivel raceway dust covers.

Swivel	Swivel w/Brake	Rigid				
Item No.	Item No.	Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-248	WC-249	WC-250	4 x 1¼	Polyurethane	275	5⅛
—	WC-243	WC-244	5 x 1¼	TPR Rubber	250	6¼
WC-251	WC-252	WC-253	5 x 1¼	Polyurethane	300	6¼

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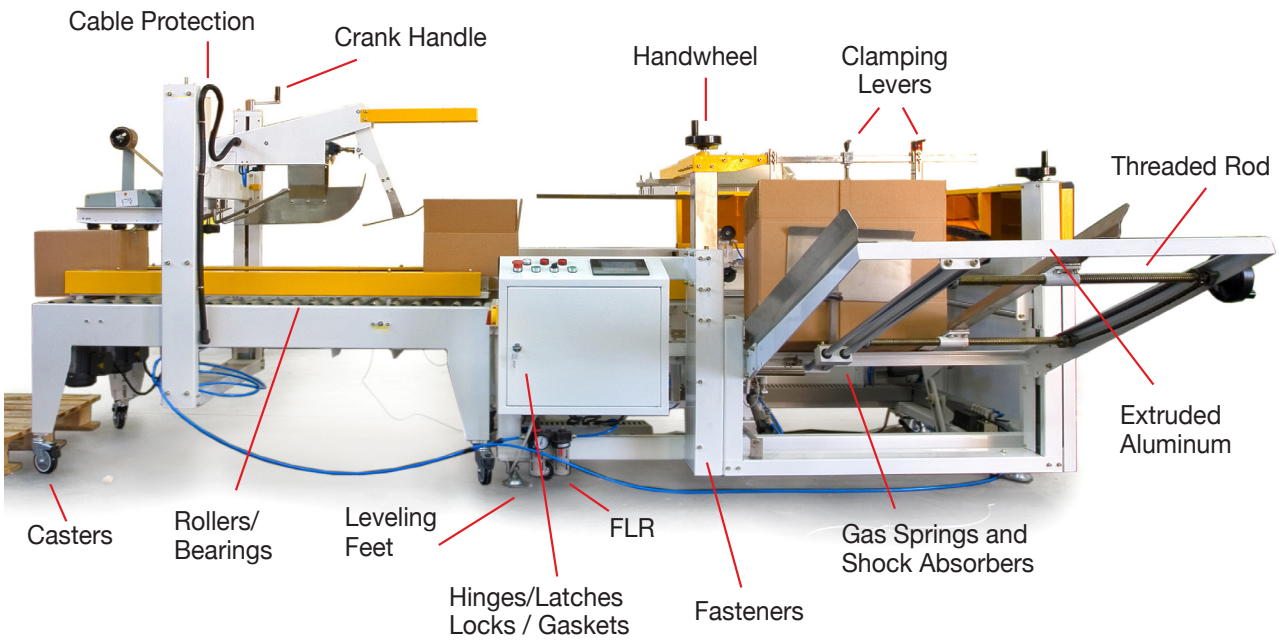
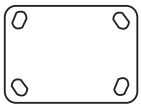


PLATE CASTERS

Wheel Type Description			
Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
Polyurethane	— Polyurethane tread molded to gray polypropylene core.	Urethane	— Gray non-marking polyurethane tread on polyolefin hub with ball bearings and thread guards.
Rubber	— Gray Thermoplastic, non-marking rubber tread on polyolefin hub with ball bearings and thread guards.	Polypropylene	— Black molded polypropylene.
Polyolefin	— Black molded polyolefin.		

ER Wagner
Light Medium Duty
Ball Bearings
Applications: 110-220 Lbs.

ER WAGNER



Top Plate



Swivel with Total Lock Brake



Swivel



Rigid

Plate Specifications	
Swivel Overall Size	2¾ x 3¾
Rigid Overall Size	3 x 3¾
Hole Spacing	1.77 x 2.95
Hole Dia.	2.05 x 2.84 slots
Bolt Dia.	5/16

Available in swivel, rigid or swivel with total lock brake which locks both wheel and swivel. Wheels have thread guards to protect against fabric threads.

Swivel w/ Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
—	WC-74	—	3 x 1¼	Rubber	110	4 3/16
WC-79	—	—	5 x 1¼	Rubber	220	6 5/16
WC-88	—	WC-90	5 x 1¼	Urethane	220	6 5/16

ER Wagner
Low Profile
Medium Duty
Applications: 300-500 Lbs.

ER WAGNER



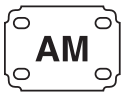
Swivel



Swivel w/ Brake



Rigid





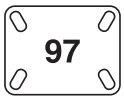


Plate Specifications			
Plate Type	AM	00	97
Overall Size	2¾ x 3¾	2¾ x 3¾	3⅛ x 4⅛
Hole Spacing	1¾ x 2⅝ to 3	1¾ x 3	1¾ x 3 to 2⅝-3-3/8
Hole Dia.	11/32 x ½ slots	11/32	⅜ x 34 slots
Bolt Dia.	5/16	5/16	5/16

Double row swivel construction. ⅜" diameter nut and bolt axle. Zinc plated finish.

Swivel Item No.	Swivel w/ Brake Item No.	Rigid Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-1509-140	—	—	Hard Rubber	2½ x 13/16	300	Delrin	3 ½	97
WC-1527-110	—	—	Polyolefin	2½ x 1 ¾	300	Plain	3 ½	00
WC-1538-100	—	—	Phenolic Resin	2⅝ x 1 ¾	350	Roller	3 9/16	00
WC-1509-130	—	—	Hard Rubber	2 x 13/16	200	Delrin	2 15/16	97
WC-1527-100	—	—	Polypropylene	2 x 1 ½	350	Plain	2 15/16	97
—	WC-1538-125	—	Phenolic Resin	3 x 1 ¾	500	Roller	3 ⅞	AM
—	WC-1538-140	—	Phenolic Resin	3 x 1 13/16	500	Roller	3 ⅞	97
WC-1538-115	—	—	Phenolic Resin	3 x 1 13/16	500	Roller	3 ⅞	00
WC-1527-160	—	—	Polyolefin	3 x 1 ¾	350	Sintered	3 ⅞	00
WC-1527-170	—	—	Polyolefin	3 x 1 ¾	350	Roller	3 ⅞	00
WC-1527-180	—	—	Polyolefin	3 x 1 ¾	350	Roller	3 ⅞	97
WC-1538-110	—	—	Polypropylene	3 x 1 ¾	500	Roller	3 ⅞	97
—	—	WC-1509-180	Hard Rubber	2½ x 1 ¾	450	Precision	3 ⅞	00
—	—	WC-1525-060	Polyurethane	3 x 1 ¾	450	Precision	3 ⅞	00

PLATE CASTERS

Wheel Type Description			
Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
Polyurethane	— Polyurethane tread molded to gray polypropylene core.	Soft Rubber	— Black soft rubber tread molded to a black hard rubber core.
Polyolefin	— Black molded polyolefin.	Polypropylene	— Black molded polypropylene.

ER Wagner
General Purpose Casters
Medium Duty
Applications: 200-400 Lbs.

ER WAGNER



Swivel

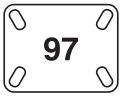


Swivel w/ Brake



Rigid





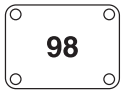


Plate Specifications			
Plate Type	00	97	98
Overall Size	2¾ x 3¾	3⅛ x 4⅛	3⅛ x 4⅛
Hole Spacing	1¾ x 3	1¾ x 3 to 2⅜ x 3⅜	2⅜ x 3 7/16
Hole Dia.	11/32	⅜ x 34 slots	11/32
Bolt Dia.	5/16	5/16	5/16

Double row swivel construction. ⅜" diameter nut and bolt axle. Zinc plated finish.

Swivel w/ Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-1204-020	—	WC-1204-010	Soft Rubber	4 x 1 ⅜	200	Delrin	5 1/16	98
—	WC-1227-130	WC-1227-110	Polyolefin	4 x 1 ⅜	300	Plain	5 1/16	00
—	WC-1227-140	—	Polyolefin	4 x 1 ⅜	300	Plain	5 1/16	97
—	WC-1227-160	—	Polyolefin	5 x 1 ⅜	350	Plain	6 1/16	00
—	WC-1227-190	—	Polyolefin	6 x 1 ⅜	400	Delrin	7 1/16	97
—	WC-1227-200	—	Polypropylene	6 x 1 ⅜	400	Delrin	7 1/16	98
—	—	WC-1227-180	Polyolefin	6 x 1 ⅜	400	Plain	7 1/16	97

ER Wagner
Low Profile Medium
Applications: 200 - 500 Lbs.

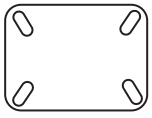
ER WAGNER



Swivel



Rigid



Top Plate

Plate Specifications	
Overall Size	3⅛ x 4⅛
Hole Spacing	1¾ x 3 to 2⅜ x 3⅜
Hole Dia.	⅜ x ¾ slots
Bolt Dia.	5/16

Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Bearing	Capacity (Lbs.)	OAH
WC-91	WC-92	2 x 13/16	Hard Rubber	Delrin	200	2⅞
WC-93	WC-94	2½ x 13/16	Hard Rubber	Delrin	300	3 7/16
WC-95	WC-96	3 x 13/16	Hard Rubber	Delrin	350	3⅞
WC-97	—	3 x 1¾	Polyolefin	Sintered	350	3⅞
WC-99*	—	3 x 1¾	Phenolic	Roller	500	3⅞

*Single Wheel

ER Wagner
General Purpose
Light-Medium Duty
Applications: 125-280 Lbs.

ER WAGNER



Swivel



Rigid



Plate Specifications	
Plate Type 97	
Overall Size	3⅛ x 4⅛
Hole Spacing	1¾ x 3 to 2⅜ x 3⅜
Hole Dia.	⅜ x ¾ Slots
Bolt Dia.	5/16

Available in swivel and rigid casters with soft rubber and polyurethane wheels with Delrin® bearings, polyolefin wheels with plain bearings. Casters have a clear zinc finish. Brake kit available for swivel casters.

Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-218	WC-219	3 x 1¼	Soft Rubber	125	3¾
WC-224	WC-225	3 x 1¼	Polyurethane	210	3¾
WC-230	WC-231	3 x 1¼	Polyolefin	210	3¾
WC-220	—	4 x 1¼	Soft Rubber	165	4 11/16
WC-226	WC-227	4 x 1¼	Polyurethane	275	4 11/16
WC-232	—	4 x 1¼	Polyolefin	255	4 11/16
WC-222	—	5 x 1¼	Soft Rubber	190	5⅝
WC-228	WC-229	5 x 1¼	Polyurethane	280	5⅝
WC-234	WC-235	5 x 1¼	Polyolefin	280	5⅝

PLATE CASTERS

Wheel Type Description			
Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
Polyurethane	— Polyurethane tread molded to gray polypropylene core.	Soft Rubber	— Black soft rubber tread molded to black hard rubber core.
Polyolefin	— Black molded polyolefin.	TPR Rubber	— Thermoplastic non-marking rubber tread on polyolefin core.
Polypropylene	— Black molded polypropylene.		

ER Wagner Industrial Casters Light-Medium Duty Applications: 125-280 Lbs.

ER WAGNER

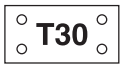


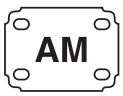
Swivel

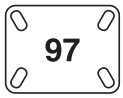


Swivel w/ Brake









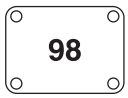


Plate Specifications					
Plate Type	AM	00	97	98	T30
Overall Size	2¾ x 3¾	2¾ x 3¾	3⅛ x 4⅛	3⅛ x 4⅛	2¾ x 3⅝
Hole Spacing	1¾ x 2⅝ to 3	1¾ x 3	1¾ x 3 to 2⅜-3-3/8	2⅜ x 3⅜	1¾ x 2⅞ to 3
Hole Dia.	11/32 x ½ slots	11/32	⅜ x 34 slots	11/32	11/32 x ½
Bolt Dia.	5/16	5/16	5/16	5/16	5/16

Double row swivel construction. 5/16" diameter nut and bolt axle. Zinc plated finish.

Swivel Item No.	Swivel w/ Brake Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-2909-120	—	TPR Rubber	2 ½ x 1 ⅛	175	Sintered	3 7/16	00
WC-2909-140	—	Hard Rubber	2 ½ x 1 ⅛	175	Sintered	3 7/16	97
WC-2904-110	WC-2904-150	Soft Rubber	3 x 1 ¼	125	Delrin	3 ¾	00
WC-2904-100	—	Soft Rubber	3 x 1 ¼	125	Delrin	3 ¾	AM
WC-2909-180	WC-2909-160	Hard Rubber	3 x 1 ¼	210	Delrin	3 ¾	97
WC-2927-110	WC-2927-120	Polyolefin	3 x 1 ¼	210	Plain	3 ¾	00
WC-2927-100	—	Polyolefin	3 x 1 ¼	210	Plain	3 ¾	98
—	WC-2927-130	Polyolefin	3 x 1 ¼	210	Plain	3 ¾	97
WC-2904-120	—	Soft Rubber	3 x 1 ¼	125	Delrin	3 ¾	00
WC-2909-200	—	Hard Rubber	3 x 1 ¼	210	Delrin	3 ¾	00
WC-2909-220	—	Hard Rubber	3 x 1 ¼	210	Delrin	3 ¾	AM
WC-2925-100	—	Polyurethane	3 x 1 ¼	210	Delrin	3 ¾	00
WC-2926-100	—	TPR Rubber	3 x 1 ¼	210	Delrin	3 ¾	98
WC-2938-100	—	Phenolic	3 x 1 ¼	250	Plain	3 ¾	00
WC-2927-200	WC-2927-210	Polyolefin	4 x 1 ¼	255	Plain	4 11/16	00
WC-2927-220	—	Polyolefin	4 x 1 ¼	255	Plain	4 11/16	00
WC-2909-400	WC-2909-380	Hard Rubber	5 x 1 ¼	280	Delrin	5 ⅝	00
—	WC-2927-230	Polyolefin	5 x 1 ¼	280	Plain	5 ⅝	00
WC-2904-190	—	Soft Rubber	5 x 1 ¼	190	Delrin	5 ⅝	98
WC-2909-420	—	Hard Rubber	5 x 1 ¼	280	Delrin	5 ⅝	97
WC-3286-10	—	Polypropylene	5 x 15/16	135	Plain	6 1/16	T30
WC-3286-20	—	TPR Rubber	5 x 15/16	135	Plain	6 1/16	—

ER Wagner Industrial Casters Light Duty Applications: 100-135 Lbs.

ER WAGNER



Swivel



Swivel w/ Brake



Rigid



Plate Specifications	
Plate Type 00	
Overall Size	2¾ x 3¾
Hole Spacing	1¾ x 3
Hole Dia.	11/32
Bolt Dia.	5/16

Double row swivel construction. 5/16" diameter nut and bolt axle. Zinc plated finish. Available in swivel plate and swivel plate with brakes. 1" wheel tread width.

Swivel w/ Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-2604-140	WC-2604-100	—	Soft Rubber	3 x 1	100	Delrin	3 3/16	00
—	—	WC-1604-100	Soft Rubber	3 x 1	100	Delrin	3 13/16	00
WC-2609-110	WC-2609-100	—	Hard Rubber	3 x 1	125	Delrin	3 3/16	00
—	WC-2627-110	—	Polyolefin	3 x 1	125	Plain	3 ¾	00
—	WC-2626-100	—	TPR Rubber	4 x 1	135	Plain	4 13/16	00

ER Wagner Small Single Wheel Furniture Casters Light Duty Applications: 75-115 Lbs.

ER WAGNER



Swivel

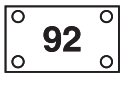


Plate Specifications	
Plate Type 92	
Overall Size	1 3/16 x 2
Hole Spacing	13/16 x 1 1/16
Hole Dia.	13/64
Bolt Dia.	¼

Item No.	Wheel Dia. x Width	Wheel Type	Finish	Capacity (Lbs.)	OAH
WC-383	2 x 13/16	Hard Rubber	Chrome	100	2⅝
WC-412	2 x 13/16	Soft Rubber	Nickel	75	2⅝

HEAVY DUTY PLATE CASTERS

Wheel Type Description			
Pneumatic	— Air filled tube tire.	Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.
Soft Rubber	— Black soft rubber tread molded to a black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to a black hard rubber core.
TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.		

ER Wagner Pneumatic Medium-Heavy Duty Applications: 200-350 Lbs.

ER WAGNER

Available in swivel, swivel with total-lock, and rigid in the 6" size. Swivel, swivel with strap brake and rigid in 8" size. Swivel and rigid in 10" size. Gray tread color for non-marking feature. Ball wheel bearings.



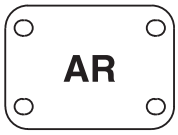
Swivel with Brake



Swivel



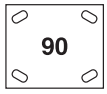
Rigid



Swivel w/Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Plate Type	Capacity (Lbs.)	OAH
WC-356*	WC-354	WC-355	6 x 2	AR	200	7½
WC-359*	WC-357	WC-358	6 x 2	90	200	7½
WC-362**	WC-360	WC-361	8 x 2.80/2.50-4	90	300	9 11/16
—	WC-363	WC-364	10 x 4.10/3.10-4	90	350	11 13/16

*Total-lock brake
**Strap brake

Plate Specifications		
Plate Type	AR	90
Overall Size	2¾ x 3¾	4 x 4⅝
Hole Spacing	1¾ x 2⅞ to 3	2⅝ x 3⅝ to 3 x 3
Hole Dia. Bolt Dia.	11/32 x 13/32 Slots 5/16	⅜ x ¾ Slots ⅜



Wheel Type Description			
Cast Iron	— Toughened with steel, high load rating and long wear life.	Urethane on Aluminum	— Molded and mechanically locked to aluminum core.
Rubber on Aluminum	— Rubber tread permanently bonded to aluminum core.	Phenolic	— Phenolic resin reinforced with macerated fabric for high capacity.

ER Wagner Truck Casters Heavy Duty Applications: 350-1200 Lbs.

ER WAGNER

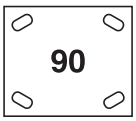
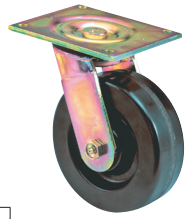
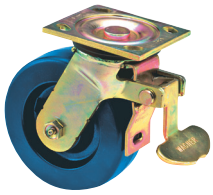


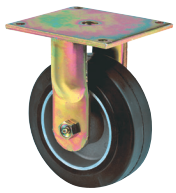
Plate Specifications	
Plate Type 90	
Overall Size	4 x 4⅝
Hole Spacing	2⅝ x 3⅝ to 3 x 3
Hole Dia. Bolt Dia.	⅜ x ¾ Slots ⅜



Swivel



Swivel with Total-Lock



Rigid

Swivel casters have top raceway grease seal and yellow zinc chromate finish for better corrosion resistance. Total-lock locks both wheel and swivel simultaneously.

Swivel w/ Total-Lock Item No.	Swivel Item No.	Rigid Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-305	WC-303	WC-304	5 x 2	Rubber on Aluminum	350	6½
WC-314	WC-312	WC-313	5 x 2	Urethane on Aluminum	1,050	6½
WC-323	WC-321	WC-322	5 x 2	Phenolic	1,000	6½
WC-308	WC-306	WC-307	6 x 2	Rubber on Aluminum	410	7½
WC-317	—	WC-316	6 x 2	Urethane on Aluminum	1,200	7½
WC-326	WC-324	WC-325	6 x 2	Phenolic	1,200	7½
WC-311	WC-309	WC-310	8 x 2	Rubber on Aluminum	500	9½
WC-320	WC-318	WC-319	8 x 2	Urethane on Aluminum	1,200	9½
WC-329	WC-327	WC-328	8 x 2	Phenolic	1,200	9½

Kingpinless Casters Heavy Duty Applications: 1,600-2,000 Lbs.



Rigid with Phenolic Wheel



Swivel with Phenolic Wheel

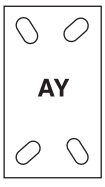


Plate Specifications	
Plate Type AY	
Overall Size	4½ x 6 5/16
Hole Spacing	2 7/16 x 4 15/16 slotted to 3⅜ x 5¼
Bolt Dia.	½

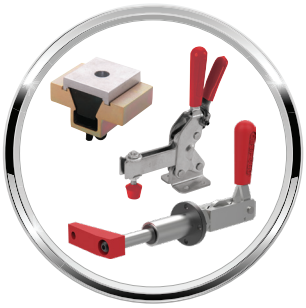
Used when superior swivel action is needed.

Rigid Item No.	Swivel Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-337	—	6 x 2½	Phenolic	1,600	7½
WC-349	WC-348	6 x 2½	Cast Iron	2,000	7½
WC-339	WC-338	8 x 2½	Phenolic	2,000	10⅛
WC-351	WC-350	8 x 2½	Cast Iron	2,000	10⅛
WC-347	WC-346	10 x 2½	Urethane on Cast Iron	2,000	11½
WC-353	WC-352	10 x 2½	Cast Iron	2,000	11½

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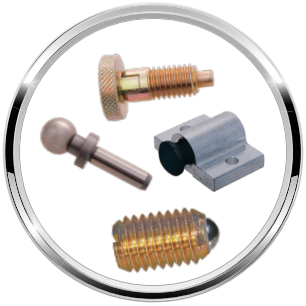
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LATCHES, CATCHES HINGES

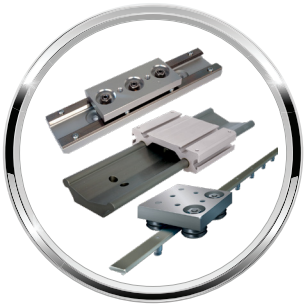

ADJUSTABLE HANDLES


TOOLING & POSITIONING


FEET, CASTERS VIBRATION MOUNTS

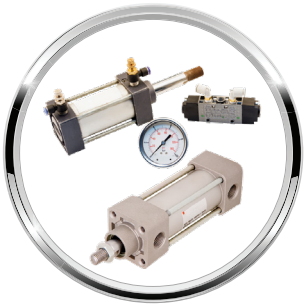

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CASTER WHEELS

Colson Caster
2" Width
Up to 8 " Diameter
Applications: 300 - 1250 lbs.



Thermo Plastic Rubber Flat

- Quiet, non-marking shock absorbing ride
- Good in wet environments, resistant to most chemicals



Thermo Plastic Rubber Donut

- Quiet, non-marking shock absorbing ride
- Good in wet environments, resistant to most chemicals



Mold-On Rubber

- Quiet, shock absorbing ride
- Rubber bonded to cast iron core



Polypropylene

- Excellent impact strength
- Superior in wet environments, resistant to most chemicals



Urethane

- All-purpose wheel
- Good in wet environments, resistant to most chemicals



Mold-On Poly

- Good roll-ability and floor protection
- Polyurethane bonded to cast iron core



Phenolic

- Hard tread, rolls easily
- Abrasion resistant



Cast Iron

- Excellent impact strength
- High temperature industrial use up to 600°F

Item No.	Wheel Dia. x Width	Wheel Color	Bearing Type	Capacity (Lbs.)
Thermo Plastic Rubber (Flat)				
1318745	4 x 2	Grey	Roller	300
1318753	4 x 2	Grey	Precision	300
1318761	4 x 2	Grey	Delrin	300
1318769	5 x 2	Grey	Roller	350
1318777	5 x 2	Grey	Precision	350
1318785	5 x 2	Grey	Delrin	350
1318793	6 x 2	Grey	Roller	500
1318801	6 x 2	Grey	Precision	500
1318809	6 x 2	Grey	Delrin	500
1318817	8 x 2	Grey	Roller	600
1318825	8 x 2	Grey	Precision	600
1318833	8 x 2	Grey	Delrin	600
Thermo Plastic Rubber (Donut)				
1318746	4 x 2	Grey	Roller	300
1318754	4 x 2	Grey	Precision	300
1318762	4 x 2	Grey	Delrin	300
1318770	5 x 2	Grey	Roller	350
1318778	5 x 2	Grey	Precision	350
1318786	5 x 2	Grey	Delrin	350
1318794	6 x 2	Grey	Roller	500
1318802	6 x 2	Grey	Precision	500
1318810	6 x 2	Grey	Delrin	500
1318818	8 x 2	Grey	Roller	600
1318826	8 x 2	Grey	Precision	600
1318834	8 x 2	Grey	Delrin	600
Rubber Molded To Cast Iron				
1318744	4 x 2	Black	Roller	400
1318760	4 x 2	Black	Delrin	400
1318768	5 x 2	Black	Roller	400
1318784	5 x 2	Black	Delrin	400

Item No.	Wheel Dia. x Width	Wheel Color	Bearing Type	Capacity (Lbs.)
Rubber Molded To Cast Iron (continued)				
1318792	6 x 2	Black	Roller	550
1318808	6 x 2	Black	Delrin	550
1318816	8 x 2	Black	Roller	600
1318832	8 x 2	Black	Delrin	600
Polypropylene				
1318748	4 x 2	Black	Roller	500
1318756	4 x 2	Black	Precision	500
1318764	4 x 2	Black	Delrin	500
1318772	5 x 2	Black	Roller	600
1318780	5 x 2	Black	Precision	600
1318788	5 x 2	Black	Delrin	600
1318796	6 x 2	Black	Roller	600
1318804	6 x 2	Black	Precision	600
1318812	6 x 2	Black	Delrin	600
1318820	8 x 2	Black	Roller	900
1318828	8 x 2	Black	Precision	900
1318836	8 x 2	Black	Delrin	900
Urethane				
1318742	4 x 2	Maroon/Grey	Roller	500
1318750	4 x 2	Maroon/Grey	Precision	500
1318758	4 x 2	Maroon/Grey	Delrin	500
1318766	5 x 2	Maroon/Grey	Roller	600
1318774	5 x 2	Maroon/Grey	Precision	600
1318782	5 x 2	Maroon/Grey	Delrin	600
1318790	6 x 2	Maroon/Grey	Roller	720
1318798	6 x 2	Maroon/Grey	Precision	720
1318806	6 x 2	Maroon/Grey	Delrin	720
1318814	8 x 2	Maroon/Grey	Roller	1250
1318822	8 x 2	Maroon/Grey	Precision	1250
1318830	8 x 2	Maroon/Grey	Delrin	1250

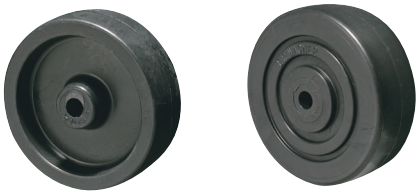
Item No.	Wheel Dia. x Width	Wheel Color	Bearing Type	Capacity (Lbs.)
Polyurethane Molded To Cast Iron				
1318743	4 x 2	Red/ Grey	Roller	800
1318759	4 x 2	Red/ Grey	Delrin	800
1318767	5 x 2	Red/ Grey	Roller	1100
1318783	5 x 2	Red/ Grey	Delrin	1100
1318791	6 x 2	Red/ Grey	Roller	1200
1318807	6 x 2	Red/ Grey	Delrin	1200
1318815	8 x 2	Red/ Grey	Roller	800
1318831	8 x 2	Red/ Grey	Delrin	800
Phenolic				
1318747	4 x 2	Black	Roller	800
1318755	4 x 2	Black	Precision	800
1318763	4 x 2	Black	Delrin	800
1318771	5 x 2	Black	Roller	1000
1318779	5 x 2	Black	Precision	1000
1318787	5 x 2	Black	Delrin	1000
1318795	6 x 2	Black	Roller	1200
1318803	6 x 2	Black	Precision	1200
1318811	6 x 2	Black	Delrin	1200
1318819	8 x 2	Black	Roller	1250
1318827	8 x 2	Black	Precision	1250
1318835	8 x 2	Black	Delrin	1250
Cast Iron				
1318749	4 x 2	Grey	Roller	800
1318765	4 x 2	Grey	Delrin	800
1318773	5 x 2	Grey	Roller	1000
1318789	5 x 2	Grey	Delrin	1000
1318797	6 x 2	Grey	Roller	1200
1318813	6 x 2	Grey	Delrin	1200
1318821	8 x 2	Grey	Roller	1250
1318837	8 x 2	Grey	Delrin	1250

CASTER WHEELS

Wheel Type Description			
Cast Iron	— Toughened with steel, high load rating and long wear life.	Rubber on Aluminum	— Molded and Mechanically locked to aluminum core.
Polyolefin	— Black molded polyolefin.		

ER WAGNER

ER Wagner
Durafoam Wheels
Light-Medium Duty
Applications: 50-350 Lbs.



Dished Solid

Durafoam wheels have a dished or solid profile. Wheel material is black polyolefin. Requires no bearing which makes them ideal for corrosive applications. They have good floor protection and offer easy rolling. They are recommended for light to heavy loads on carpeted and hard surfaced floors They are non-marking, resistant to water, oil and most acids and chemicals. Recommended operating temperature range is -20° F to 180° F. Tread hardness is 60-75 Shore D.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-1386-10	1⅝ x ¼	Polyolefin	50	¾	¼	Plain
WC-1327-100	2½ x 1⅜₁₆	Polyolefin	115	1⁵⁄₁₆	¼	Plain
WC-1327-110	3 x 1¾	Polyolefin	350	1⅞	⅜	Roller
WC-1327-120	3 x ¾	Polyolefin	125	1⁵⁄₁₆	¼	Plain
WC-1327-130*	4 x 1⅜	Polyolefin	300	1½	⅜	Plain
WC-H586-20	4 x 1¼	Polyolefin	255	1½	⅜	Plain

* Solid Profile

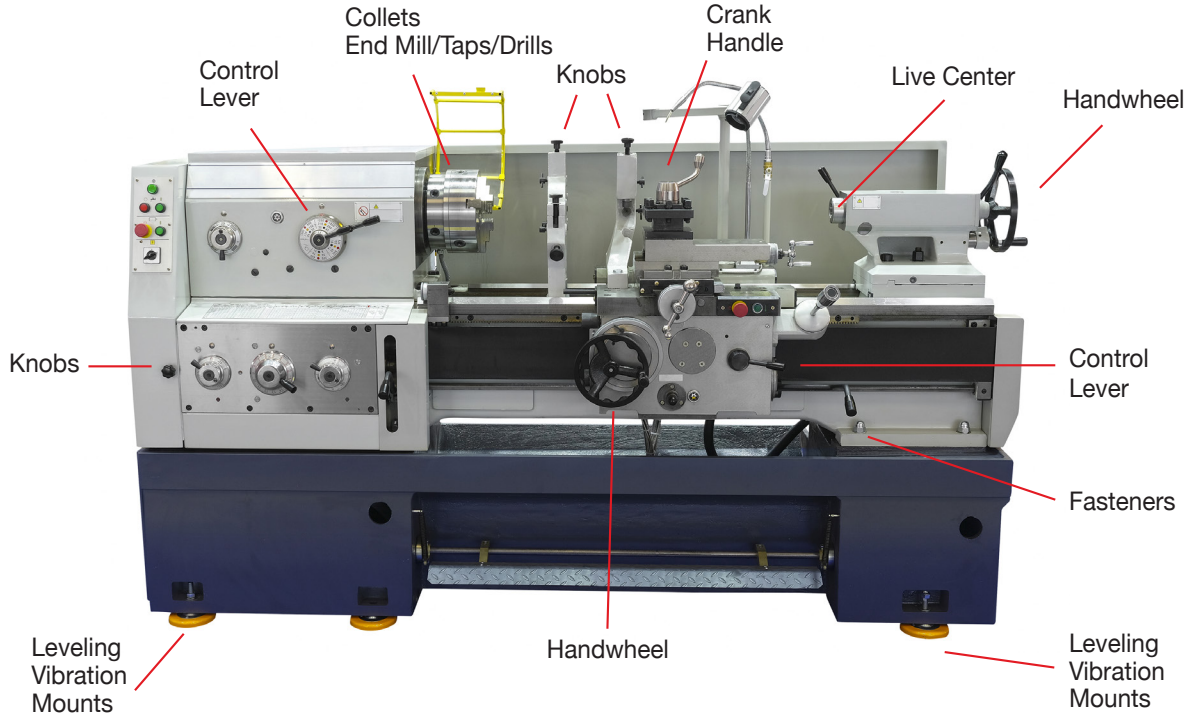
ER WAGNER

ER Wagner
Mold-On Rubber Wheels
Light-Medium Duty
Application: 500 Lbs.



Mold-on rubber wheels consist of a soft black rubber tread permanently bonded to an aluminum core. Excellent floor and load protection, quiet operation and absorbs shock and vibration. Recommended for light to medium loads on hard surfaced floors. Recommended operating temperature range is -20° F to 160° F. Tread hardness 70-85 Shore A.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-8386-10	8 x 2	Soft Rubber	500	2³⁄₁₆	½	Roller



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CASTER WHEELS

ER Wagner Duratex Wheels Medium-Heavy Duty Applications: 500 Lbs.

ER WAGNER



Duratex wheels are made from a black phenolic resin. They are recommended for medium to heavy loads on carpeted and hard surfaced floors. They provide good protection to floors and are quieter than steel wheels. Recommended operating temperature range is -45° F to 300° F. Tread hardness is 102 Shore E.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-1338-02	3 x 1½	Phenolic Resin	500	1⅝	⅜	Roller
WC-1338-04	3 x 1¾	Phenolic Resin	500	1⅞	⅜	Roller

ER Wagner All-Hard Rubber Wheels Light-Heavy Duty Applications: 100-400 Lbs.

ER WAGNER



All-hard rubber tread material consists of a black hard rubber molded to a black hard rubber core. Used for light to heavy loads on carpeted or hard surfaced floors. These wheels roll with ease, are non-sparking and resistant to water, oil and most acids. Recommended operating temperature range is -20° F to 125° F. Tread hardness is 70-85 Shore D.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-1309-05	2 x 13/16	Hard Rubber	100	15/16	⅜	Delrin
WC-1309-10	2½ x 1⅛	Hard Rubber	175	1¼	5/16	Sintered
WC-1309-15	2½ x 13/16	Hard Rubber	115	15/16	¼	Delrin
WC-1309-20	3 x 1	Hard Rubber	125	1⅛	5/16	Delrin
WC-1309-25	3 x 13/16	Hard Rubber	125	15/16	¼	Delrin
WC-1309-30	3½ x 1¼	Hard Rubber	250	1½	⅜	Delrin
WC-1309-40	6 x 1⅜	Hard Rubber	400	1½	⅜	Delrin
WC-1304-55	6 x 1⅞	Hard Rubber	400	1½	⅜	Delrin

ER Wagner All-Rubber Wheels Light-Medium Duty Applications: 75-200 Lbs.

ER WAGNER



All-rubber wheels are made of a black soft rubber molded to a black hard rubber core. They are recommended for light to medium loads on hard surfaced floors. Along with a quiet operation it also provides a cushioned ride absorbing shock and vibration. Recommended operating temperature range is -20° F to 125° F. Tread hardness is 70-85 Shore A.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-1304-20	2½ x 13/16	Soft Rubber	90	15/16	¼	Delrin
WC-1304-10	2½ x 1⅛	Soft Rubber	120	1 27/64	5/16	Delrin
WC-1304-25	3 x 1	Soft Rubber	100	1⅛	5/16	Delrin
WC-1304-35	3 x 1¼	Soft Rubber	125	1 27/64	5/16	Delrin
WC-1304-40	3 x 1¼	Soft Rubber	125	1 27/64	5/16	Sintered
WC-1304-45	4 x 1	Soft Rubber	75	1⅛	5/16	Delrin
WC-1386-30	4 x 1	Soft Rubber	115	1⅛	⅜	Delrin
WC-1304-50	4 x 1⅜	Soft Rubber	200	1½	⅜	Delrin
WC-1386-40	5 x 1	Soft Rubber	125	1⅛	5/16	Sintered

ER Wagner TPR Rubber Wheels Light-Medium Duty Applications: 275-300 Lbs.

ER WAGNER



TPR rubber wheels consist of a dark gray thermoplastic rubber molded to a gray polyolefin core. They roll easily, quietly and provide excellent floor protection. They are recommended for light to medium loads on carpeted and hard surfaced floors. Recommended temperature range is -40° F to 180° F. Tread hardness 65-75 Shore A.

Item No.	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	Hub Width	Axle Size	Bearing
WC-1326-10	4 x 1¼	TPR Rubber	275	1½	⅜	Delrin
WC-1326-20	5 x 1½	TPR Rubber	300	1½	⅜	Delrin
WC-1326-30	5 x 1¼	TPR Rubber	300	1½	⅜	Delrin

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Wheel Type Description			
Hard Rubber	— Black hard rubber tread molded to black hard rubber core.	Polypropylene	— Black molded Polypropylene.

Caster Sets
Medium Duty
Applications: 300-400 Lbs.

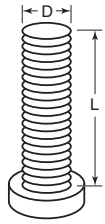


Swivel
Threaded Stem



Rigid Plate





Threaded Stem

Double row swivel construction. ⅜" diameter nut and bolt axle. Zinc plated finish. Available in threaded stem and plate. 1 ⅜" to 1 ¾" wheel tread width.

Swivel Item No.	Rigid Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L	Plate Type
Threaded Stem									
WC-1227-170	—	Polypropylene	5 x 1 ⅜	400	Delrin	5 ⅞	½	¾	—
Plate									
—	**WC-1509-170**	Hard Rubber	2½ x 1 ¾	300	Delrin	3 ½	—	—	00

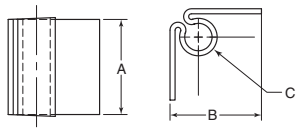
Plate Specifications	
Plate Type 00	
Overall Size	2¾ x 3¾
Hole Spacing	1¾ x 3
Hole Dia.	11/32
Bolt Dia.	5/16

ER Wagner
Winged Brackets

ER WAGNER

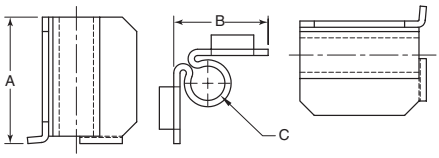


Type 1





Type 2

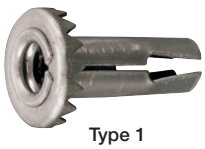


Weldable metal socket for 90 degree corner. Used with 7/16" friction ring stems.

Item No.	1	A	B	C	Angle
WC-WP77-10	1	1.562	1.500	.440 - .455	90
WC-W386-10	2	1.607	1.250	.440 - .455	90
WC-HP77-20	3	—	—	—	180

ER Wagner
Round and Square Caster Sockets

ER WAGNER



Type 1



Type 5



Type 2



Type 6



Type 3



Type 7



Type 4



Type 8

Item No.	Type	Color	Tube OD	Tube Gauge	Hole Diameter	For Stem Type	Stem Diameter	Style	Socket Material
For Round Tubes									
WC-SP77-240	7	Natural	1	16	—	Round	7/16	Top	Steel
WC-SP77-170	4	Black	1¼	18	—	Grip	5/16	Top	Polyolefin
For Square Tubes									
WC-SP77-160	3	Black	¾	18	—	Grip	5/16	Top	Polyolefin
WC-SP77-180	3	Natural	¾	20	—	Grip	5/16	Top	Polyolefin
WC-SP77-210	3	Natural	1	16	—	Grip	5/16	Top	Polyolefin
WC-SP77-140	3	Natural	1	18	—	Friction	⅜	Top	Polyolefin
WC-SP77-200	3	Black	1	18	—	Grip	5/16	Top	Polyolefin
WC-SP77-220	3	Black	1	18	—	Grip	5/16	Top	Polyolefin
WC-SP77-280	4	Natural	1	18	—	Friction	7/16	Top	Polyolefin
For Straight Holes									
WC-SP77-230	1	Natural	—	—	⅜	Grip	5/16	Open	Steel
WC-SP77-310	5	Natural	—	—	⅜	Grip	5/16	Top	Steel
WC-SP77-100	2	Brown	—	—	½	Grip	⅜	Top	Polyolefin
WC-SP77-110	2	Natural	—	—	½	Grip	⅜	Top	Polyolefin
WC-SP77-250	7	Natural	—	—	9/16	Friction	7/16	Top	Steel
WC-SP77-270	2	Natural	—	—	9/16	Friction	7/16	Top	Polyolefin
WC-SP77-290	8	Natural	—	—	9/16	Friction	7/16	Top	Steel
WC-SP77-260	2	Natural	—	—	⅝	Friction	7/16	Top	Polyolefin
Socket									
WC-SP77-150	6	Black	1⅝	—	1½	—	—	Top	Polyolefin

STEM CASTERS

Wheel Type Description			
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.	Polyolefin	— Black molded polyolefin.
Polypropylene	— Black molded Polypropylene.		

ER Wagner
Industrial Casters
Light-Medium Duty
Applications: 125-280 Lbs.

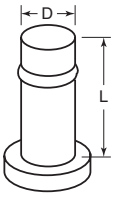
ER WAGNER



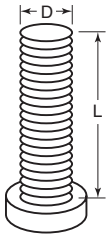
Swivel w/ Brake
Friction Ring Stem



Swivel
Friction Ring Stem



Friction Ring
Stem



Threaded Stem

Double row swivel construction. ⅜" diameter nut and bolt axle. Zinc plated finish.



Swivel
Threaded Stem

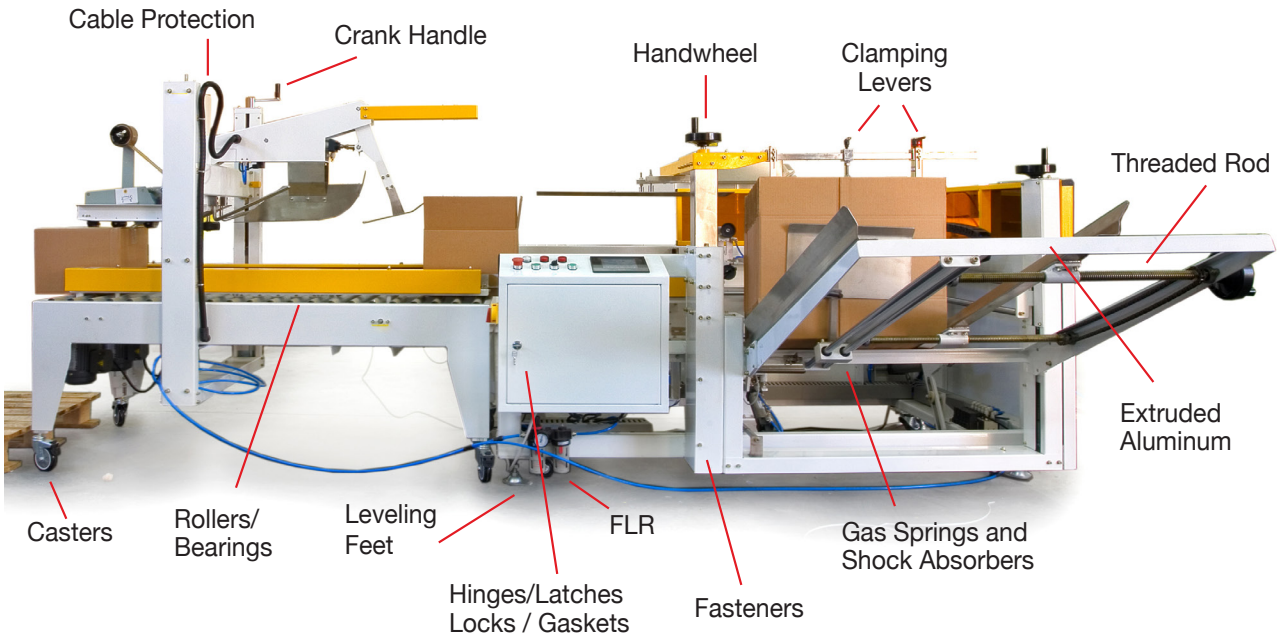


Swivel w/ Brake
Threaded Stem

Swivel w/ Brake Item No.	Swivel Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L
Friction Ring Stem								
WC-2926-130	—	TPR Rubber	3 x 1 ¼	210	Delrin	3 ⅝	7/16	1 ⅜
—	WC-2909-260	Hard Rubber	3 x 1 ¼	210	Delrin	3 ⅝	7/16	1 29/32
—	WC-2904-170	Soft Rubber	4 x 1 ¼	165	Delrin	4 ½	13/16	1 ¾
Threaded Stem								
—	WC-2904-130	Soft Rubber	3 x 1 ¼	125	Delrin	2 ⅜	⅜	1
—	WC-2904-140	Soft Rubber	3 x 1 ¼	125	Delrin	2 ⅜	½	2 ½
WC-2926-140	WC-2926-110	TPR Rubber	3 x 1 ¼	210	Delrin	3 ⅝	⅜	1
WC-2926-150	WC-2926-120	TPR Rubber	3 x 1 ¼	210	Delrin	3 ⅝	½	1
WC-2927-150	WC-2927-140	Polyolefin	3 x 1 ¼	210	Plain	3 ⅝	⅜	1
WC-2927-160	—	Polyolefin	3 x 1 ¼	210	Plain	3 ⅝	½	¾
—	WC-2927-170	Polyolefin	3 x 1 ¼	210	Plain	3 ⅝	½	1 ½
—	WC-2909-240	Hard Rubber	3 x 1 ¼	210	Delrin	3 ⅝	⅜	1
—	WC-2909-280	Hard Rubber	3 x 1 ¼	210	Delrin	3 ⅝	½	1 ½
—	WC-2927-180	Polyolefin	3 x 1 ¼	210	Plain	3 ⅝	½	1 ½
—	WC-2927-190	Polyolefin	3 x 1 ¼	210	Plain	3 ⅝	⅜	1 ½
WC-2904-180	—	Soft Rubber	4 x 1 ¼	165	Delrin	4 ½	⅜	1
—	WC-2904-160	Soft Rubber	4 x 1 ¼	165	Delrin	4 ½	½	¾
WC-2909-320	—	Hard Rubber	4 x 1 ¼	255	Delrin	4 ½	½	1
—	WC-2909-300	Hard Rubber	4 x 1 ¼	255	Delrin	4 ½	½	¾
WC-2909-340	—	Hard Rubber	4 x 1 ¼	255	Delrin	4 ½	½	1 ½
—	WC-2909-360	Hard Rubber	4 x 1 ¼	255	Delrin	4 ½	⅜	1
WC-2925-110	—	TPR Rubber	4 x 1 ¼	275	Delrin	4 ½	½	1
WC-2926-170	WC-2926-160	TPR Rubber	4 x 1 ¼	275	Delrin	4 ½	⅜	1
—	WC-2927-240	Polyolefin	5 x 1 ¼	280	Plain	5 ½	7/16	⅞

We Have Production Machinery Parts For Any Industry

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STEM CASTERS

Wheel Type Description			
Phenolic	— Black phenolic resin reinforced with macerated fabric for high capacity.	Nylon	— Solid nylon wheel.
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.	Polyolefin	— Black molded polyolefin.

ER Wagner Low Profile Medium Duty Applications: 150-500 Lbs.

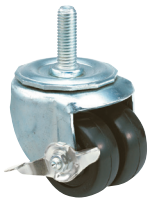
ER WAGNER



Swivel w/ Brake Friction Ring Stem



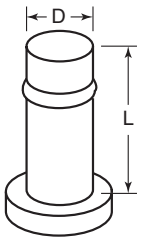
Swivel Threaded Stem



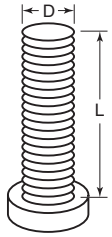
Swivel w/ Brake Threaded Stem

Double row swivel construction. ⅜" diameter nut and bolt axle. Zinc plated finish. 13/16" dual to 1 13/16" wheel tread width.

Swivel w/ Brake Item No.	Swivel Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L
Friction Ring Stem								
WC-1509-100	—	Hard Rubber	2 x 13/16	150	Delrin	2 ¾	7/16	1 ⅜
—	WC-1509-120	Hard Rubber	2 x 13/16	200	Delrin	2 ¾	7/16	1 ⅜
Threaded Stem								
—	WC-1509-160	Hard Rubber	2½ x 13/16	300	Delrin	3 ⅜	½	¾
WC-1509-110	—	Hard Rubber	2 x 13/16	150	Delrin	2 ¾	½	1 ½
WC-1509-190	WC-1509-200	Hard Rubber	3 x 13/16	350	Delrin	3 ¾	½	1 ½
WC-1504-110	WC-1504-100	Soft Rubber	3 x 13/16	250	Delrin	3 ¾	⅜	1 ½
WC-1527-140	—	Polyolefin	3 x 1 ¾	350	Sintered	3 ¾	½	¾
WC-1527-150	—	Polyolefin	3 x 1 ¾	350	Sintered	3 ¾	½	¾
—	WC-1538-130	Phenolic Resin	3 x 1 13/16	500	Roller	3 ¾	½	1 ½



Friction Ring Stem



Threaded Stem

ER Wagner Dual Wheel Swivel Caster Medium Duty Applications: 220 Lbs.

ER WAGNER



Hollow kingpin 12mm.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH
WC-D586-10	TPR Rubber	3 x 1	220	Plain	4

ER Wagner Low Profile Casters Medium Duty Applications: 200-350 Lbs.

ER WAGNER



Available in swivel casters with hard rubber and phenolic treads and threaded stems. Selected casters have a thumbscrew brake.

Stem Specifications		
Stem Type	10	18
Stem Size x Lgth.	½-13 x 1½	Leveling Stem ½-13 x 2½

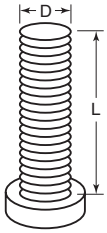
Item No.	Wheel Dia. x Width	Wheel Type	Stem Type	Capacity (Lbs.)	OAH
WC-299*	2 x 13/16	Hard Rubber	18	200	2¾
WC-301*	2 x 13/16	Hard Rubber	10	200	2¾
WC-300*	3 x 1¾	Phenolic	18	350	3¾
WC-302	3 x 13/16	Hard Rubber	10	350	3¾

* Thumbscrew brake

ER Wagner Tandem Appliance Caster Medium Duty Application: 250 Lbs.

ER WAGNER





Tandem wheels provide support for heavy appliances or furniture. Zinc plated finish. Wheels are white nylon.

Item No.	Wheel Dia.	Wheel Type	Capacity (Lbs.)	OAH	D	L
WC-8055-10	.835	Nylon	250	2.15	5/16	⅞

ER Wagner Scaffolding Casters Applications: 240 Lbs.

ER WAGNER



Double row swivel construction. Zinc plated finish. Caster has total-lock brake. The stem is 1 ¼" x 4" square with a 7/16" hole located 2 ½" up. Fits standard scaffolding structures.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Stem Diameter (Squared)	Stem Length
WC-1904-120	Soft Rubber	5 x 1 ¼	240	Plain	6 9/32	1 ¼	4

STEM CASTERS

Wheel Type Description			
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	TPR Rubber	— Thermoplastic non-marking rubber tread on a polyolefin core.
Polyolefin	— Black molded polyolefin.		

ER Wagner Industrial Casters Light Duty Applications: 100-145 Lbs.

ER WAGNER


Swivel w/ Brake Friction Ring Stem

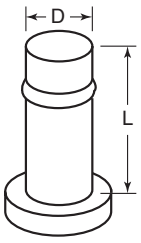

Swivel Friction Ring Stem


Swivel Threaded Stem


Rigid Threaded Stem


Swivel w/ Brake Threaded Stem

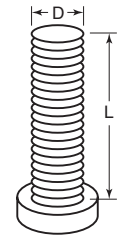

Swivel Octagon Stem



Friction Ring Stem

Double row swivel construction. 5/16" diameter nut and bolt axle. Zinc plated finish. 1" wheel tread width.

Swivel w/ Brake Item No.	Swivel Item No.	Rigid Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L
Friction Ring Stem									
WC-2604-150	WC-2604-120	—	Soft Rubber	3 x 1	100	Delrin	3 3/4	7/16	1 3/8
WC-2604-160	—	—	Soft Rubber	3 x 1	100	Delrin	3 3/4	7/16	1 3/8
—	WC-2604-170	—	Soft Rubber	4 x 1	115	Delrin	4 11/16	7/16	1 29/32
—	WC-2609-120	—	Soft Rubber	5 x 1	145	Delrin	5 11/16	13/16	1 3/4
Threaded Stem									
—	WC-2604-130	—	Soft Rubber	3 x 1	100	Delrin	3 3/4	3/8	1
—	WC-2604-110	—	Soft Rubber	3 x 1	100	Delrin	3 3/4	7/16	1 1/2
—	—	WC-1604-110	Soft Rubber	3 x 1	100	Delrin	3 13/16	7/16	1 1/2
—	WC-2627-100	—	Polyolefin	3 x 1	125	Plain	3 3/4	7/16	1 1/2
WC-2604-200	WC-2604-190	—	Soft Rubber	5 x 1	125	Delrin	5 11/16	1/2	1 1/2
Octagon Stem									
—	WC-2686-100	—	Soft Rubber	4 x 1	115	Delrin	4 11/16	3/4	2



Threaded Stem

ER Wagner Furniture Casters Light Duty Applications: 75-100 Lbs.

ER WAGNER


Swivel Friction Ring Stem

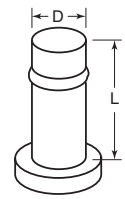

Swivel w/ Brake Friction Ring Stem


Swivel Grip Neck Stem

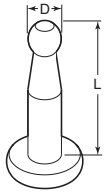

Swivel w/ Brake Grip Neck Stem


Swivel Threaded Stem


Swivel w/ Brake Threaded Stem



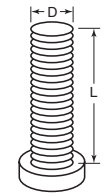
Friction Ring Stem



Grip Neck Stem

Double row swivel construction. 1/4" diameter rivet axle. Zinc plated finish.

Swivel Item No.	Swivel w/ Brake Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L
Friction Ring Stem								
WC-9404-20	—	Soft Rubber	2 x 13/16	75	Delrin	2 1/2	7/16	1 3/8
WC-9404-35	—	Soft Rubber	2 1/2 x 13/16	90	Delrin	2 1/2	7/16	1 3/8
WC-9404-65	WC-9404-75	Soft Rubber	3 x 13/16	100	Delrin	3 9/16	7/16	1 3/8
—	WC-9404-80	Soft Rubber	3 x 13/16	100	Delrin	3 9/16	7/16	1 29/32
Grip Neck Stem								
WC-9427-40	—	Polyolefin	2 x 3/4	100	Plain	2 1/2	5/16	1 9/16
WC-9404-70	—	Soft Rubber	3 x 13/16	100	Delrin	3 9/16	5/16	1 9/16
—	WC-9404-50	Soft Rubber	2 x 13/16	75	Delrin	2 5/8	—	—
—	WC-9404-90	Soft Rubber	3 x 13/16	100	Delrin	3 9/16	5/16	1 9/16
Threaded Stem								
—	WC-9427-20	Polyolefin	2 x 3/4	100	Plain	2 1/2	5/16	1
WC-9404-30	—	Soft Rubber	2 x 13/16	75	Delrin	2 1/2	3/8	1 1/2
WC-9404-25	—	Soft Rubber	2 x 13/16	75	Delrin	2 1/2	5/16	1
WC-9426-30	—	TPR Rubber	2 x 13/16	75	Plain	2 1/2	5/16	3/4
WC-9409-20	—	Soft Rubber	2 x 13/16	100	Delrin	2 1/2	3/8	1 1/2
WC-9404-40	—	Soft Rubber	2 1/2 x 13/16	90	Delrin	2 1/2	3/8	3/4
—	WC-9404-45	Soft Rubber	2 1/2 x 13/16	90	Delrin	2 1/2	5/16	1
—	WC-9404-85	Soft Rubber	3 x 13/16	100	Delrin	3 9/16	3/8	1



Threaded Stem

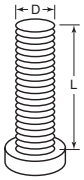
STEM CASTERS

Wheel Type Description			
Soft Rubber	— Black soft rubber tread molded to black hard rubber core.	Hard Rubber	— Black hard rubber tread molded to black hard rubber core.
Polyolefin	— Black molded polyolefin.		

ER Wagner Light Duty Applications: 100-145 Lbs.

ER WAGNER





Threaded Stem

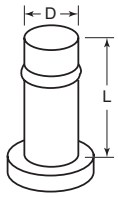
Double row swivel construction. 5/16" diameter nut and bolt axle. Zinc plated finish. Heat treated and factory lubricated swivel raceways. Brake kit WC-140 sold separately.

Item No.	D	L	Wheel Dia. x Width	Wheel Type	Capacity (Lbs.)	OAH
WC-109	3/8-16	1½	3 x 1	Soft	100	3⅝
WC-110	3/8-16	1½	4 x 1	Soft	115	4 11/16
WC-113	½-13	1½	4 x 1	Soft	115	4 11/16
WC-114	½-13	1½	5 x 1	Soft	125	5 11/16
WC-115	3/8-16	1½	3 x 1	Polyolefin	125	3⅝
WC-116	3/8-16	1½	4 x 1	Polyolefin	140	4 11/16
WC-117	3/8-16	1½	5 x 1	Polyolefin	145	5 11/16
WC-118	½-13	1½	3 x 1	Polyolefin	125	3⅝
WC-119	½-13	1½	4 x 1	Polyolefin	140	4 11/16
WC-120	½-13	1½	5 x 1	Polyolefin	145	5 11/16
WC-140	Brake Kit					

ER Wagner Roller Caster Light Duty Applications: 90 Lbs.

ER WAGNER





Friction Ring Stem

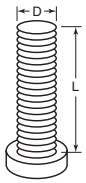
Furniture, cabinets and small appliances caster.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	D	L
WC-H086-10	Polyolefin	2 ½ x 13/16	90	Plain	2 13/16	7/16	1 ¾

ER Wagner Threaded Stems Light Duty Applications: 75-125 Lbs.

ER WAGNER



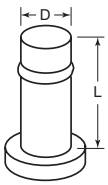


Item No.	D	L	Wheel Dia. x Width	Wheel Type	Finish	Capacity (Lbs.)	OAH
WC-382	5/16-18	1	2 x 13/16	Hard Rubber	Chrome	100	2½
WC-415	5/16-18	1	2 x 13/16	Soft Rubber	Chrome	75	2½
WC-372	3/8-16	1	2 x 13/16	Soft Rubber	Chrome	75	2½
WC-373	3/8-16	1	2 x 13/16	Hard Rubber	Chrome	100	2½
WC-374	3/8-16	1½	2 x 13/16	Hard Rubber	Chrome	100	2½
WC-384	3/8-16	1½	2½ x 13/16	Soft Rubber	Chrome	90	3 1/16
WC-386	3/8-16	1½	2½ x 13/16	Hard Rubber	Chrome	115	3 1/16
WC-376	3/8-16	1	3 x 13/16	Soft Rubber	Chrome	100	3 9/16
WC-379	3/8-16	1	3 x 13/16	Hard Rubber	Chrome	125	3 9/16
WC-385	3/8-16	1½	3 x 13/16	Soft Rubber	Chrome	100	3 9/16
WC-387	3/8-16	1½	3 x 13/16	Hard Rubber	Chrome	125	3 9/16
WC-368	½-13	1½	2 x 13/16	Polyolefin	Zinc	100	2½
WC-369	½-13	1½	2 x 13/16	Soft Rubber	Zinc	75	2½

ER Wagner Friction Ring Light Duty Applications: 75-125 Lbs.

ER WAGNER





Item No.	D	L	Wheel Dia. x Width	Wheel Type	Finish	Capacity (Lbs.)	OAH
WC-388	7/16	1	2 x 13/16	Soft Rubber	Chrome	75	2½
WC-402	7/16	1⅜	2 x 13/16	Soft Rubber	Nickel	75	2½
WC-370	7/16	1⅜	2 x 13/16	Soft Rubber	Zinc	75	2½
WC-371	7/16	1⅜	2 x 13/16	Polyolefin	Zinc	100	2½
WC-380	7/16	1⅜	2 x 13/16	Hard Rubber	Chrome	100	2½
WC-393	7/16	⅞	2½ x 13/16	Soft Rubber	Nickel	90	3 1/16
WC-391	7/16	1⅜	2½ x 13/16	Soft Rubber	Nickel	90	3 1/16
WC-375	7/16	1⅜	3 x 13/16	Soft Rubber	Chrome	100	3 9/16
WC-377	7/16	1⅜	3 x 13/16	Hard Rubber	Chrome	125	3 9/16

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THREADED STEM CASTERS

ER Wagner
Rolling Star Casters
Light Duty
Applications: 33-88 Lbs.

ER WAGNER



Mobilizes stationary products at a very low overall height. Can be used with chairs, couches and patio furniture.

Item No.	Overall Diameter	Ball Diameter	Wheel Type	Capacity (Lbs.)	Type	OAH
WC-BP99-10	3/4	1/2	Nylon	33	Rigid	3/4
WC-BP99-20	10/32	13/16	Nylon	88	Rigid	1 1/2
WC-BP99-30	1 1/2	13/16	Nylon	46-57	Spring	2 13/16

Sunnex
Leveling Casters

sunnex®



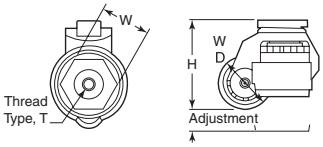
Style A



Style B



Style C



Stud Mount

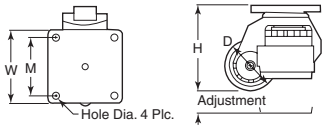
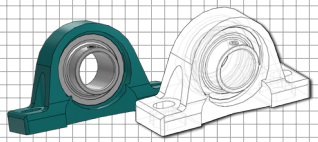


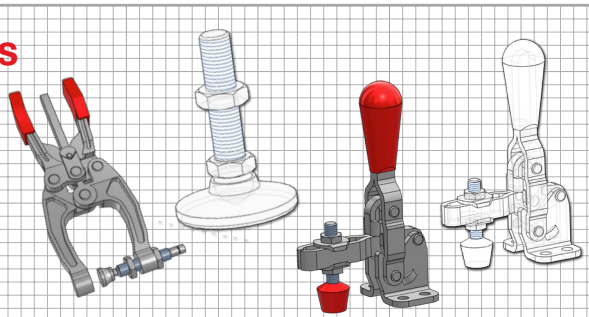
Plate Mount

This caster incorporates the feasibility to move equipment easily with a high-grade nylon wheel, leveling, and vibration control. This caster combines precision hand leveling adjustment, anti-vibration control and 360 degree freedom of motion in one unit. Available with either a stud mount or a plate mount.

Item No.	Mount	Load Range Min.	Load Range Max.	H	Adjustment	D	Thread Type T	Thread Depth	Mounting Holes	M	W
Style A											
SX-50S	Stud	25	50	2.80	.39	1.65	M8	.47	—	—	1 9/16
SX-300S	Stud	200	300	3.27	.39	1.97	M12	.59	—	—	1 13/16
SX-300P	Plate	200	300	3.27	.39	1.97	—	—	.26	2.28	2 7/8
SX-600S	Stud	300	600	4.02	.59	2.48	M12	.59	—	—	2 9/16
SX-600P	Plate	400	600	4.02	.59	2.48	—	—	.35	2.76	3 9/16
SX-1000S	Stud	600	1,000	4.72	.71	2.83	M16	.63	—	—	2 3/4
SX-1000P	Plate	800	1,000	4.72	.71	2.83	—	—	.43	2.76	3 3/4
Style B											
SX-200S	Stud	50	200	2.78	.35	1.97	M12	.59	—	—	1 13/16
SX-200P	Plate	50	200	2.78	.35	1.97	—	—	.26	2.28	2 7/8
Style C											
SX-400P	Plate	300	400	2.99	.39	1.97	—	—	.35	2.76	3 9/16
SX-800P	Plate	600	800	3.74	.51	2.83	—	—	.35	2.76	3 9/16

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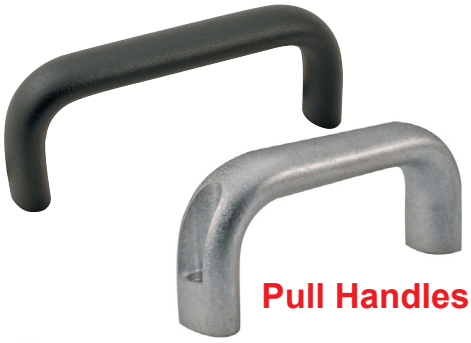
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T-Handle Knobs



Crank Handles



Pull Handles



Adjustable Tension Levers



Gear Levers



Eye Bolts



Index Plungers



Handwheels



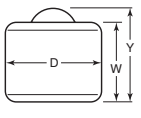
Hand and Star Knobs

BALL CASTERS & TRANSFERS

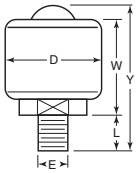
SKF Hevi-Load™ Inch





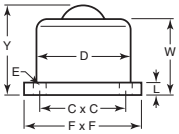


Type A



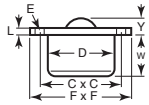
Type B





Type C





Type D

Used for heavier loads than ball casters. Ball transfers use a recirculating ball system to support and facilitate the rotation of the primary ball. The small balls travel on a hardened steel, precision machined track that resists wear and damage. Runs equally well in any position. Ideal where damage and impact protection is essential. Ball units provide instantaneous change of direction not possible with wheel casters.

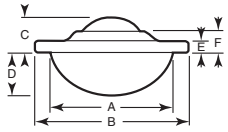
Item No.	Type	Ball Dia.	Y	W	D	L	E	FxF	CxC	Capacity (Lbs.)
SKF-7101	A	.5	.77	.63	.81	—	—	—	—	75
SKF-7121	A	1.0	1.76	1.52	2	—	—	—	—	700
SKF-7110	B	.5	1.41	.63	.81	.64	5/16-24	—	—	75
SKF-7127	B	1.0	2.85	1.68	1.75	.95	½-20	—	—	300
SKF-7131	B	1.0	3.03	1.78	2	1	½-20	—	—	700
SKF-7103*	C	.5	.89	.75	.94	.13	.14	1.75	1.37	75
SKF-7122	C	1.0	1.63	1.41	1.75	.19	.22	2.25	1.75	300
SKF-7123	C	1.0	1.79	1.54	2	.25	.28	3	2.28	700
SKF-7152	D	1.5	2.41	1.41	2.38	.50	.28	3	2.28	2,204

*Diameter - round

SKF Low Profile Metric

STAINLESS STEEL OPTION AVAILABLE



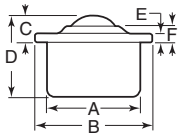


Flange mounted ball transfers offer a low profile, multi-directional solution to various material handling, positioning, and/or conveyance applications. All units, except the stainless steel model, come complete with a felt seal. The stainless steel unit is made from 420 stainless steel and has a unique multi-hole filtration system designed to purge out contamination and is provided with no oil/no seal, which allows the unit to operate in harsh conditions by efficiently filtering out debris through the base. Metric dimensions are in millimeters.

Item No.	Ball Dia.	Load Up Cap. Lbs.	Load Down Cap. Lbs.	Fixing Holes	A	B	C	D	E	F
Carbon Steel										
SKF-3016	15.8	26	13	2	22.2	41.3	10.2	8.3	3.2	6
SKF-1008	25.4	121	55	3	37.2	73	14.2	15.8	3.5	6.3
SKF-2002	39.7	496	220	3	62	94.6	21.2	27.3	6.3	14
Stainless Steel										
SKF-3274	31.7	276	121	3	45.5	73.7	16.2	19.9	4.2	8

SKF Medium Duty Metric





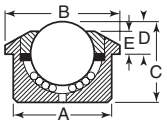
Zinc plated housing with Type 420 stainless balls. A felt seal is included on all but SKF-701. Maximum temperature is 212 degree Fahrenheit. Dimensions are in millimeters.

Item No.	Ball Dia.	Capacity (Lbs.)	A	B	C	D	E	F
SKF-701	15	132	24	31	9.5	21.0	2.8	6.3
SKF-702	22	352	36	45	9.8	30.0	2.8	5.5
SKF-703	30	661	45	55	13.8	37.0	4.0	8.3
SKF-704	45	1,344	62	75	19.0	53.5	4.0	10.0

SKF Heavy Duty Metric



STAINLESS STEEL OPTION AVAILABLE

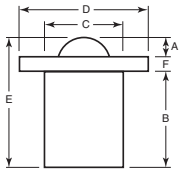


Solid body steel ball transfers were designed for heavy and impact load applications. The units incorporate a seal and self cleaning hole for maximum efficiency and smooth running. They are machined with solid steel bodies and hardened work surfaces. Steel models are steel bodies with chrome steel. Hardness 60-66 HRC, zinc plated finish. Stainless models have stainless bodies A1S1 303 and stainless bearings A1S1 420 or 440, bright machined. All dimensions are in millimeters.

Item No.	Ball Dia.	Capacity (Lbs.)	A mm	B mm	C mm	D mm	E mm
Steel							
SKF-2213	22	397	36	45	30.5	9.8	6
SKF-3013	30	770	45	55	36.8	13.8	8.3
Stainless							
SKF-2215	22	264	36	45	30.5	9.8	6

SKF Spring Loaded Ball Transfers Inch





Type A

Shears, presses and molding machines are just a few of the many applications where open loaded ball transfers can be used. A press for example may have spring loaded ball units set in the platen to facilitate the on and off loading of the workpiece. When the press operates the springs compress and the ball units sink below the surface-leaving the workpiece on a firm base. When pressure is released the ball units rise allowing the ball to roll, enabling the workpiece to be removed easily. Steel bodies with hardened carbon steel balls. "A" style flanges have three equally spaced holes on bolt center diameters (BCD) listed below.

Item No.	Type	Ball Dia. Inch	Support Load (Lbs.)	Load (Lbs.) to Fully Depress	A	B	C	D	E	F	Mounting Hole Size	Mounting Hole BCD
SKF-3011	A	¾	22	66	.14	2.03	1.44	2.62	2.48	.31	.27	2.00
SKF-3009	B	¾	22	77	.37	2.19	1.44	—	2.56	—	—	—
SKF-1018	A	1	77	220	.23	2.10	1.75	3.00	2.64	.31	.27	2.37
SKF-1016	B	1	77	309	.47	2.31	1.75	—	2.78	—	—	—
SKF-1028	A	1¼	220	397	.30	3.05	2.31	3.50	3.73	.37	.27	2.87
SKF-1026	B	1¼	220	441	.41	3.34	2.31	—	3.75	—	—	—

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ER Wagner Furniture Casters Light Duty Applications: 75-90 Lbs.

ER WAGNER



Swivel Plate



Swivel w/ Brake Plate

TPN TPC

Plate Specifications		
Plate Type	TPN	TPC
Overall Size Hole Spacing Hole Dia.	1½ x 1½ 1 x 1 9/32	1 3/16 x 2 13/16 x 1 3/16 ¼

Hooded Twin Casters. Available in swivel and swivel with brake. Black polypropylene.

Swivel w/ Brake Item No.	Swivel Item No.	Wheel Dia. x Width	Capacity (Lbs.)	OAH	Plate Type
WC-T501-75	—	2 x 1 13/16	75	2 7/16	TPC
WC-T501-85	—	2 x 1 13/16	75	2⅝	TPN
—	WC-T601-60	2½ x 2	90	2 15/16	TPC

ER Wagner Furniture Casters Light Duty Applications: 100 Lbs.

ER WAGNER

92



Swivel Plate

Plate Specifications	
Plate Type 92	
Overall Size Hole Spacing Hole Dia. Bolt Dia.	1 3/16 x 2 13/16 x 1 3/16 ¼ #10 Screw

Hooded ball casters. ¼" diameter rivet axle. Chrome plated finish. Meets or exceeds industry standards.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-9701-10	Vinyl	2 x 2	100	Sintered	2 1 1/16	92

ER Wagner Furniture Casters - Plate Light-Medium Duty Applications: 125-150 Lbs.

ER WAGNER



Swivel



Swivel w/ Brake

TLE TPN

Plate Specifications		
Plate Type	TLE	TPN
Overall Size Hole Spacing Hole Dia.	1¾ x 3 1 1/16 x 2¼ 9/32	1½ x 1½ 1 x 1 9/32

Open twin wheel casters. Recommended for medical equipment, displays, office equipment, store fixtures and institutional furniture.

Swivel w/ Brake Item No.	Swivel Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	OAH	Plate Type
WC-O001-15	WC-O001-20	Polypropylene	3 x 2 7/16	125	Plain	3 3/16	TPN

ER Wagner Furniture Casters Light Duty Applications: 75-100 Lbs.

ER WAGNER



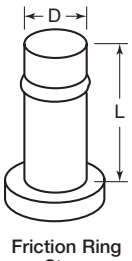
Friction Stem Ring



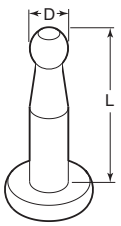
Grip Neck Stem



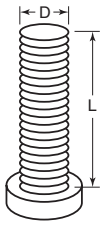
Threaded Stem



Friction Ring Stem



Grip Neck Stem



Threaded Stem

Hooded ball casters. ¼" diameter rivet axle. Chrome plated finish. Meets or exceeds industry standards.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Bearing	D	L	OAH
Friction Ring Stem							
WC-9P04-10	Soft Rubber	2 x 2	75	Sintered	7/16	1 3/8	2 5/8
Grip Neck Stem							
WC-9P27-10	Vinyl	2 x 2	100	Sintered	5/16	1 ½	2 1 1/16
Threaded Stem							
WC-9704-10	Soft Rubber	2 x 2	75	Sintered	5/16	¾	2 5/8

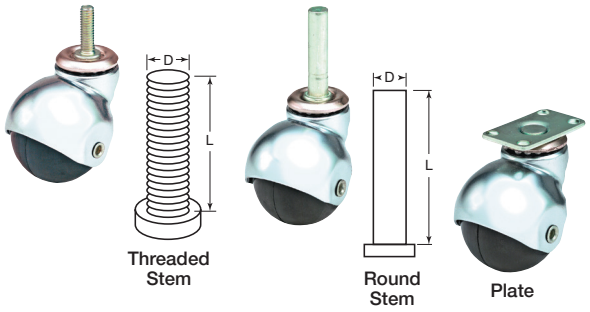
FURNITURE CASTERS

ER Wagner Ball Casters

ER WAGNER



Plate Specifications	
Plate Type 92	
Overall Size	1 3/16 x 2
Hole Spacing	13/16 x 1 1/16
Hole Dia.	13/64
Bolt Dia.	1/4



Item No.	D	L	Ball Size	Wheel Type	Finish	Capacity (Lbs.)	OAH
Threaded Stem							
WC-414	5/16-18	1	2	Soft Rubber	Chrome	75	2 5/8
Friction Ring Stem							
WC-413	7/16	1 3/8	2	Soft Rubber	Chrome	75	2 5/8
Plain Stem							
WC-416	7/16	1 29/32	2	Soft Rubber	Chrome	75	2 5/8
Plate							
WC-417*	—	—	2	Soft Rubber	Nickel	75	2 11/16

* Uses plate type 92

ER Wagner Furniture Casters Light Duty Applications: 40-110 Lbs.

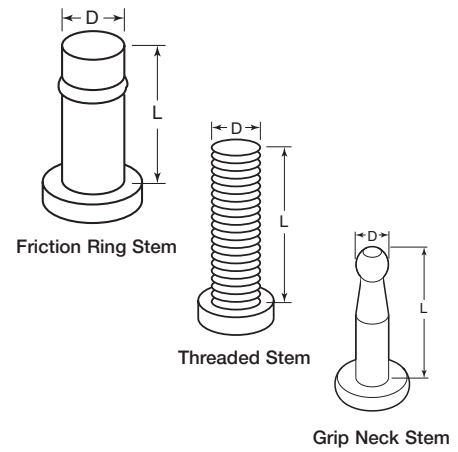
ER WAGNER



Swivel Friction Ring Stem | Swivel w/ Brake Grip Neck Stem | Swivel Threaded Stem | Swivel w/ Brake Friction Ring Stem | Swivel w/ Brake Threaded Stem

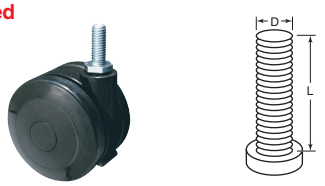
Hooded Twin Casters. Available in swivel and swivel with brake. Options include threaded stem, friction ring stem and grip neck.

Swivel Item No.	Swivel w/ Brake Item No.	Wheel Material	Wheel Dia. x Width	Capacity (Lbs.)	D	L	OAH
Friction Ring Stem							
WC-T501-95	—	Polypropylene	2 x 1 5/8	110	7/16	7/8	2 1/4
WC-T501-15	WC-T501-50	Polypropylene	2 x 1 13/16	75	7/16	1	2 7/16
—	WC-T501-55	Polypropylene	2 x 1 13/16	75	7/16	1 3/8	2 7/16
—	WC-T501-80	Polypropylene	2 x 1 13/16	75	7/16	1 3/8	2 5/8
Grip Neck Stem							
WC-T501-10	—	Polypropylene	2 x 1 13/16	75	5/16	1 9/16	2 7/16
WC-T501-30	WC-T501-25	Polypropylene	2 x 1 13/16	75	5/16	.960	2 7/16
—	WC-T501-40	Polypropylene	2 x 1 13/16	75	5/16	1 9/16	2 5/8
WC-T601-20	—	Polypropylene	2 x 1 13/16	75	5/16	.960	2 7/16
WC-T501-45	—	Polypropylene	2 x 1 13/16	75	3/8	1 5/8	2 7/16
Threaded Stem							
WC-T401-10	—	Polypropylene	1 5/8 x 1 9/16	40	5/16	3/4	1 15/16
WC-T401-20	WC-T401-40	Polypropylene	1 5/8 x 1 9/16	40	5/16	1/2	1 15/16
—	WC-T401-30	Polypropylene	1 5/8 x 1 9/16	40	5/16	3/4	2 1/4
WC-T501-20	WC-T501-60	Polypropylene	2 x 1 13/16	75	5/16	1/2	2 7/16
WC-T501-35	—	Polypropylene	2 x 1 13/16	75	5/16	1/2	2 5/8
WC-T601-30	WC-T501-65	Polypropylene	2 x 1 13/16	75	5/16	3/4	2 7/16
—	WC-T501-70	Polypropylene	2 x 1 13/16	75	5/16	1	2 7/16
WC-T601-50	WC-T601-40	Polypropylene	2 1/2 x 2	90	5/16	1 3/8	2 3/4



ER Wagner Furniture Casters - Threaded Light-Medium Duty Applications: 125 Lbs.

ER WAGNER



Swivel Threaded Stem | Threaded Stem

Open twin wheel casters. Recommended for medical equipment, displays, office equipment, store fixtures and institutional furniture.

Item No.	Wheel Type	Wheel Dia. x Width	Capacity (Lbs.)	Plain	OAH	D	L
WC-O001-30	Polypropylene	3 x 2 7/16	125	Plain	3 3/16	3/8	1

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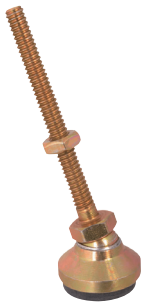


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STEEL LEVELERS

Reid Select
Stud Type
With Pad

STAINLESS STEEL OPTION AVAILABLE

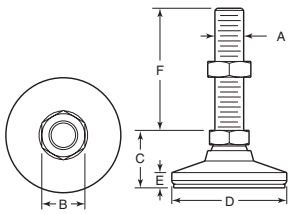

Steel
Gold Chromate


Steel
Clear Chromate


Steel
Black Chromate


Steel
Nickel Plated


Stainless Steel



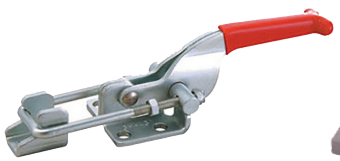
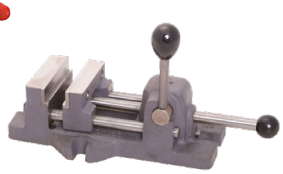
These leveling pads have a 15° swivel off centerline to adjust to uneven surfaces and level machine tools, electronic racks, benches, etc. Hardened ball, except in stainless, prevents galling and forms its own seat. Large diameter pad design assures solid support. All steel parts are zinc plated. Metric dimensions are in millimeters. Metric load ratings are in kilograms.

Item No.	A	B	C	D	E	F	Load Capacity
Steel - Gold Chromate, with 1/8" Elastomer Pad - Inch							
TE-00	10-32	3/8	21/32	3/4	15/64	1	525
TE-10	10-32	3/8	21/32	3/4	15/64	2	525
TE-0	1/4-20	1/2	53/64	1	9/32	1 1/4	800
TE-15	1/4-20	1/2	53/64	1	9/32	2 1/2	800
TE-1	5/16-16	5/8	1	1 1/4	5/16	2	2,800
TE-20	5/16-16	5/8	1	1 1/4	5/16	4	2,800
TE-2	1/2-13	3/4	1 1/4	1 7/8	3/8	2	3,750
TE-25	1/2-13	3/4	1 1/4	1 7/8	3/8	4	3,750
TE-3	5/8-11	7/8	1 3/8	2 1/2	7/16	2	4,500
TE-30	5/8-11	7/8	1 3/8	2 1/2	7/16	4	4,500
TE-4	3/4-10	1 1/16	1 5/8	3	5/8	2	5,400
TE-35	3/4-10	1 1/16	1 5/8	3	5/8	4	5,400
TE-5	1-8	1 3/8	2	4	17/32	4 1/4	16,400
TE-40	1-8	1 3/8	2	4	17/32	8	16,400
Steel - Gold Chromate, with 1/8" Elastomer Pad - Metric							
MLP-70	M10 x 1.50	17	25	32	8	51	1,273
MLP-75	M12 x 1.75	19	33	48	9	51	1,705
MLP-80	M16 x 2.00	24	35	64	11	51	2,046
MLP-85	M20 x 2.50	30	41	76	16	51	2,455
Steel - Clear Chromate, with 1/8" Elastomer Pad - Inch							
TES-0	1/4-20	1/2	53/64	1	9/32	1 1/4	800
TES-16	1/4-20	1/2	53/64	1	9/32	2 1/2	800
TES-1	5/16-16	5/8	1	1 1/4	5/16	2	2,800
TES-20	5/16-16	5/8	1	1 1/4	5/16	4	2,800
TES-2	1/2-13	3/4	1 1/4	1 7/8	3/8	2	3,750
TES-25	1/2-13	3/4	1 1/4	1 7/8	3/8	4	3,750
TES-3	5/8-11	7/8	1 3/8	2 1/2	7/16	2	4,500
TES-30	5/8-11	7/8	1 3/8	2 1/2	7/16	4	4,500
TES-35	3/4-10	1 1/16	1 5/8	3	5/8	4	5,400
TES-40	1-8	1 3/8	2	4	17/32	8	16,400

Item No.	A	B	C	D	E	F	Load Capacity
Steel - Black Chromate, with 1/8" Elastomer Pad - Inch							
TEBK-0	1/4-20	1/2	53/64	1	9/32	1 1/4	800
TEBK-1	3/8-16	5/8	1	1 1/4	5/16	2	2,800
TEBK-20	5/16-16	5/8	1	1 1/4	5/16	4	2,800
TEBK-2	1/2-13	3/4	1 1/4	1 7/8	3/8	2	3,750
TEBK-25	1/2-13	3/4	1 1/4	1 7/8	3/8	4	3,750
TEBK-3	5/8-11	7/8	1 3/8	2 1/2	7/16	2	4,500
TEBK-30	5/8-11	7/8	1 3/8	2 1/2	7/16	4	4,500
TEBK-4	3/4-10	1 1/16	1 5/8	3	5/8	2	5,400
TEBK-35	3/4-10	1 1/16	1 5/8	3	5/8	4	5,400
TEBK-5	1-8	1 3/8	2	4	17/32	4 1/4	16,400
Steel - Black Chromate, with 1/8" Elastomer Pad - Metric							
MLP-250	M10 x 1.50	17	25	32	8	51	1,273
MLP-260	M16 x 2.00	24	35	64	11	51	2,046
303 Stainless Steel, with 1/8" Elastomer Pad - Inch							
TLE-00SS	10-32	3/8	21/32	3/4	15/64	1	650
TLE-0SS	1/4-20	1/2	53/64	1	9/32	1 1/4	1,000
TLE-15SS	1/4-20	1/2	53/64	1	9/32	2 1/2	800
TLE-1SS	3/8-16	5/8	1	1 1/4	5/16	2	2,800
TLE-20SS	3/8-16	5/8	1	1 1/4	5/16	4	2,800
TLE-2SS	1/2-13	3/4	1 1/4	1 7/8	3/8	2	3,750
TLE-25SS	1/2-13	3/4	1 1/4	1 7/8	3/8	4	3,450
TLE-3SS	5/8-11	7/8	1 3/8	2 1/2	7/16	2	4,500
TLE-4SS	3/4-10	1 1/16	1 5/8	3	5/8	2	5,400
TLE-35SS	3/4-10	1 1/16	1 5/8	3	5/8	4	5,400
TLE-5SS	1-8	1 3/8	2	4	17/32	4 1/4	21,000
TLE-40SS	1-8	1 3/8	2	4	17/32	8	16,400
303 Stainless Steel, with 1/8" Elastomer Pad - Metric							
MLPSS-90	M8 x 1.25	12	21	25	7	32	340

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Stud Type
Without Pad

STAINLESS STEEL OPTION AVAILABLE

Reid SELECT

Standard Quotes In 4 Hours or Less



Steel
Gold Chromate



Steel
Clear Chromate



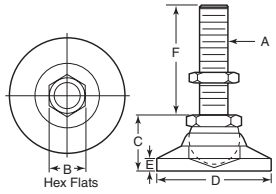
Steel
Black Chromate



Steel
Nickel Plated



Stainless Steel



These leveling pads have a 15° swivel off centerline to adjust to uneven surfaces and level machine tools, electronic racks, benches, etc. Hardened ball, except in stainless, prevents galling and forms its own seat. Large diameter pad design assures solid support. All steel parts are zinc plated. Metric dimensions are in millimeters. Metric load ratings are in kilograms.

Item No.	A	B	C	D	E	F	Load Capacity
Steel - Gold Chromate - Inch							
TL-00	10-32	3/8	17/32	3/4	7/64	1	700
TL-10	10-32	3/8	17/32	3/4	7/64	2	700
TL-0	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
TL-15	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
TL-1	3/8-16	5/8	7/8	1 1/4	3/16	2	3,750
TL-6	3/8-24	5/8	7/8	1 1/4	3/16	2	3,750
TL-20	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
TL-2	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
TL-7	1/2-20	3/4	1 1/8	1 7/8	1/4	2	5,000
TL-25	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
TL-3	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
TL-8	5/8-18	7/8	1 1/4	2 1/2	5/16	2	6,000
TL-30	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
TL-4	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
TL-9	3/4-16	1 1/16	1 1/2	3	1/2	2	7,200
TL-35	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
TL-5	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
TL-11	1-12	1 3/8	1 7/8	4	13/32	4 1/4	22,000
TL-40	1-8	1 3/8	1 7/8	4	13/32	8	22,000
Steel - Gold Chromate - Metric							
MLP-50	M10 x 1.50	17	22	32	5	51	1,705
MLP-55	M12 x 1.75	19	29	48	6	51	2,273
MLP-60	M16 x 2.00	24	32	64	8	51	2,727
MLP-65	M20 x 2.50	30	38	76	13	51	3,273
Steel - Clear Chromate - Inch							
TLS-00	10-32	3/8	17/32	3/4	7/64	1	700
TLS-10	10-32	3/8	17/32	3/4	7/64	2	700
TLS-0	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
TLS-15	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
TLS-1	3/8-16	5/8	7/8	1 1/4	3/16	2	3,750
TLS-20	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
TLS-2	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
TLS-25	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
TLS-3	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
TLS-30	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
TLS-4	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
TLS-35	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
TLS-5	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
TLS-40	1-8	1 3/8	1 7/8	4	13/32	8	22,000
Steel - Clear Chromate - Metric							
MLP-230	M10 x 1.50	17	22	32	5	51	1,705
MLP-235	M12 x 1.75	19	29	48	6	51	2,273
MLP-240	M16 x 2.00	24	32	64	8	51	2,727
MLP-245	M20 x 2.50	30	38	76	13	51	3,273

Item No.	A	B	C	D	E	F	Load Capacity
Steel - Black Chromate - Inch							
TLBK-00	10-32	3/8	17/32	3/4	7/64	1	700
TLBK-0	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
TLBK-15	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
TLBK-1	3/8-16	5/8	7/8	1 1/4	3/16	2	3,750
TLBK-20	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
TLBK-2	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
TLBK-25	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
TLBK-3	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
TLBK-30	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
TLBK-4	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
TLBK-35	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
TLBK-5	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
TLBK-40	1-8	1 3/8	1 7/8	4	13/32	8	22,000
Steel - Black Chromate - Metric							
MLP-210	M10 x 1.50	17	22	32	5	51	1,705
MLP-215	M12 x 1.75	19	29	48	6	51	2,273
MLP-220	M16 x 2.00	24	32	64	8	51	2,727
MLP-225	M20 x 2.50	30	38	76	13	51	3,273
303 Stainless - Inch							
TL-00SS	10-32	3/8	17/32	3/4	7/64	1	900
TL-10SS	10-32	3/8	17/32	3/4	7/64	2	700
TL-0SS	1/4-20	1/2	45/64	1	5/32	1 1/4	1,480
TL-15SS	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
TL-1SS	3/8-16	5/8	7/8	1 1/4	3/16	2	3,750
TL-20SS	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
TL-2SS	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
TL-25SS	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
TL-3SS	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
TL-30SS	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
TL-4SS	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
TL-35SS	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
TL-5SS	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
TL-40SS	1-8	1 3/8	1 7/8	4	13/32	8	22,000
303 Stainless - Metric							
MLPSS-5	M6 x 1.00	10	13	19	3	25	315
MLPSS-15	M10 x 1.50	16	22	32	5	51	1,700
MLPSS-30	M20 x 2.50	27	38	76	13	51	3,350

STEEL LEVELERS

Reid Select
Socket Type
With Pad

STAINLESS STEEL OPTION AVAILABLE


Steel - Gold Chromate

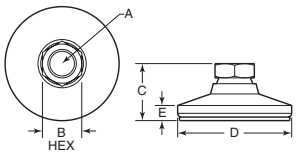

Steel - Clear Chromate


Steel - Black Chromate


Steel - Nickel Plated


Stainless Steel

These leveling pads have a 15 degree swivel off centerline to adjust to uneven surfaces and level machine tools, electronic racks, benches, etc. Hardened ball, except in stainless, prevents galling and forms its own seat. Large diameter pad design assures solid support. All steel parts are zinc plated. Metric dimensions are in millimeters. Metric load ratings are in kilograms.



Item No.	A	Min. Thd. Depth	B	C	D	E	Load Capacity
Steel - Gold Chromate, with 1/8" Elastomer Pad - Inch							
LE-5	10-32	17/100	3/8	2/3	3/4	6/25	525
LE-6	1/4-20	31/100	1/2	83/100	1	7/25	800
LE-0	3/8-16	19/50	5/8	1	1 1/4	5/16	2,800
LE-1	1/2-13	4/9	3/4	1 1/4	1 7/8	3/8	3,750
LE-2	5/8-11	4/9	7/8	1 3/8	2 1/2	7/16	4,500
LE-3	3/4-10	31/50	1 1/16	1 5/8	3	5/8	5,400
LE-4	1-8	81/100	1 3/8	2	4	17/32	16,400
Steel - Gold Chromate, with 1/8" Elastomer Pad - Metric							
MLP-25	M10 x 1.50	9.6	17	25	32	8	1,273
MLP-30	M12 x 1.75	11.2	19	33	48	9	1,705
MLP-35	M16 x 2.00	11.2	24	35	64	11	2,046
MLP-40	M20 x 2.50	15.7	30	41	76	16	2,455
Steel - Clear Chromate, with 1/8" Elastomer Pad - Inch							
LES-5	10-32	17/100	3/8	2/3	3/4	6/25	525
LES-6	1/4-20	31/100	1/2	83/100	1	7/25	800
LES-0	3/8-16	19/50	5/8	1	1 1/4	5/16	2,800
LES-1	1/2-13	4/9	3/4	1 1/4	1 7/8	3/8	3,750
LES-2	5/8-11	4/9	7/8	1 3/8	2 1/2	7/16	4,500
Steel - Black Chromate, with 1/8" Elastomer Pad - Inch							
LEBK-5	10-32	17/100	3/8	2/3	3/4	6/25	525
LEBK-6	1/4-20	31/100	1/2	83/100	1	7/25	800
LEBK-0	3/8-16	19/50	5/8	1	1 1/4	5/16	2,800
LEBK-1	1/2-13	4/9	3/4	1 1/4	1 7/8	3/8	3,750
LEBK-3	3/4-10	31/50	1 1/16	1 5/8	3	5/8	5,400
LEBK-4	1-8	81/100	1 3/8	2	4	17/32	16,400
303 Stainless Steel, with 1/8" Elastomer Pad - Inch							
LE-6SS	1/4-20	31/100	1/2	83/100	1	7/25	1,000
LE-0SS	3/8-16	19/50	5/8	1	1 1/4	5/16	2,800
LE-1SS	1/2-13	4/9	3/4	1 1/4	1 7/8	3/8	3,750
LE-2SS	5/8-11	4/9	7/8	1 3/8	2 1/2	7/16	4,500
LE-3SS	3/4-10	31/50	1 1/16	1 5/8	3	5/8	5,400
LE-4SS	1-8	81/100	1 3/8	2	4	53/100	21,000
303 Stainless Steel, with 1/8" Elastomer Pad - Metric							
MLPSS-240	M8 x 1.25	8	12	21	25	7	340
MLPSS-245	M10 x 1.50	10	16	25	32	8	1,270
MLPSS-255	M16 x 2.00	11	22	35	64	11	2,045



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STEEL LEVELERS

Reid Select
Socket Type
Without Pad

STAINLESS STEEL OPTION AVAILABLE


Steel - Gold Chromate

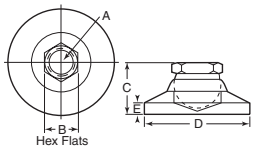

Steel - Clear Chromate


Steel - Black Chromate


Steel - Nickel Plated


Stainless Steel

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Item No.	A	Min. Thd. Depth	B	C	D	E	Load Capacity
Steel - Gold Chromate - Inch							
L-5	10-32	17/100	3/8	53/100	3/4	1/8	700
L-6	1/4-20	31/100	1/2	7/10	1	3/20	1,100
L-0	3/8-16	19/50	5/8	7/8	1 1/4	3/16	3,750
L-7	3/8-24	19/50	5/8	7/8	1 1/4	3/16	2,800
L-1	1/2-13	4/8	3/4	1 1/8	1 7/8	1/4	5,000
L-8	1/2-20	4/8	3/4	1 1/8	1 7/8	1/4	3,750
L-2	5/8-11	4/8	7/8	1 1/4	2 1/2	5/16	6,000
L-9	5/8-18	4/8	7/8	1 1/4	2 1/2	5/16	4,500
L-3	3/4-10	31/50	1 1/16	1 1/2	3	1/2	7,200
L-10	3/4-16	31/50	1 1/16	1 1/2	3	1/2	5,400
L-4	1-8	81/100	1 3/8	1 7/8	4	13/32	22,000
L-11	1-12	81/100	1 3/8	1 7/8	4	13/32	22,000
Steel - Gold Chromate - Metric							
MLP-5	M10 x 1.50	9.6	17	22	32	5	1,705
MLP-10	M12 x 1.75	11.2	19	29	48	6	2,273
MLP-15	M16 x 2.00	11.2	24	32	64	8	2,727
MLP-20	M20 x 2.50	15.7	30	38	76	13	3,273
Steel - Clear Chromate - Inch							
LS-5	10-32	17/100	3/8	53/100	3/4	1/8	700
LS-16	1/4-20	31/100	1/2	7/10	1	3/20	1,080
LS-0	3/8-16	19/50	5/8	7/8	1 1/4	3/16	3,750
LS-1	1/2-13	4/8	3/4	1 1/8	1 7/8	1/4	5,000
LS-2	5/8-11	4/8	7/8	1 1/4	2 1/2	5/16	6,000
LS-13	3/4-10	31/50	1 1/16	1 1/2	3	1/2	7,200
LS-14	1-8	81/100	1 3/8	1 7/8	4	13/32	21,870

Item No.	A	Min. Thd. Depth	B	C	D	E	Load Capacity
Steel - Clear Chromate - Metric							
MLP-160	M16 x 2.00	11.2	24	32	64	8	2,727
MLP-165	M20 x 2.50	15.7	30	38	76	13	3,273
LBK-5	10-32	17/100	3/8	53/100	3/4	1/8	700
LBK-6	1/4-20	31/100	1/2	7/10	1	3/20	1,080
LBK-0	3/8-16	19/50	5/8	7/8	1 1/4	3/16	3,750
LBK-1	1/2-13	4/8	3/4	1 1/8	1 7/8	1/4	5,000
LBK-2	5/8-11	4/8	7/8	1 1/4	2 1/2	5/16	6,000
LBK-3	3/4-10	31/50	1 1/16	1 1/2	3	1/2	7,200
LBK-4	1-8	81/100	1 3/8	1 7/8	4	13/32	21,870
Steel - Black Chromate - Metric							
MLP-130	M10 x 1.50	9.6	17	22	32	5	1,705
MLP-135	M12 x 1.75	11.2	19	29	48	6	2,273
MLP-140	M16 x 2.00	11.2	24	32	64	8	2,727
MLP-145	M20 x 2.50	15.7	30	38	76	13	3,273
303 Stainless Steel - Inch							
L-5SS	10-32	17/100	3/8	53/100	3/4	1/8	900
L-6SS	1/4-20	31/100	1/2	7/10	1	3/20	1,400
L-0SS	3/8-16	19/50	5/8	7/8	1 1/4	3/16	3,750
L-1SS	1/2-13	4/8	3/4	1 1/8	1 7/8	1/4	5,000
L-2SS	5/8-11	4/8	7/8	1 1/4	2 1/2	5/16	6,000
L-3SS	3/4-10	31/50	1 1/16	1 1/2	3	1/2	7,200
L-4SS	1-8	81/100	1 3/8	1 7/8	4	13/32	28,000
303 Stainless Steel - Metric							
MLPSS-165	M6 x 1.00	4	10	13	19	3	315
MLPSS-185	M16 x 2.00	11	22	32	64	8	2,700

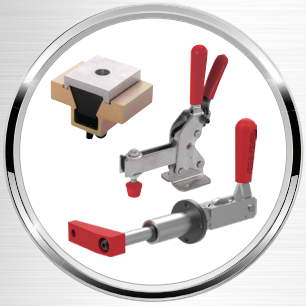
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CLAMPS & WORKHOLDING



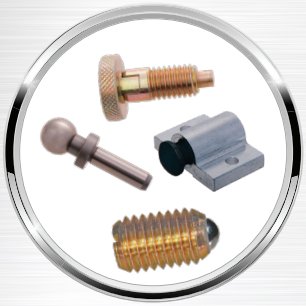
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ADJUSTABLE HANDLES



TOOLING & POSITIONING



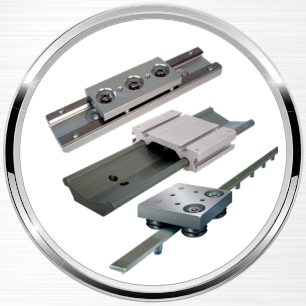
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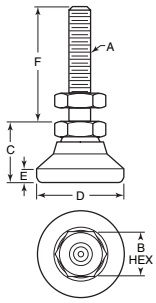
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Vlier Stud Type

STAINLESS STEEL OPTION AVAILABLE



Steel - Gold Chromate





Steel - Nickel Plated



Stainless Steel

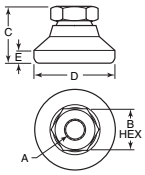
Item No.	A	B	C	D	E	F	Load Capacity
Steel - Gold Chromate - Inch							
HVTL-00	10-32	3/8	17/32	3/4	7/64	1	700
HVTL-10	10-32	3/8	17/32	3/4	7/64	2	700
HVTL-0	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
HVTL-15	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
HVTL-1	5/16-16	5/8	7/8	1 1/4	3/16	2	3,750
HVTL-20	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
HVTL-2	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
HVTL-25	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
HVTL-3	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
HVTL-30	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
HVTL-4	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
HVTL-35	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
HVTL-5	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
HVTL-40	1-8	1 3/8	1 7/8	4	13/32	8	22,000
Steel - Nickel Plated - Inch							
HVTL-00N	10-32	3/8	17/32	3/4	7/64	1	700
HVTL-10N	10-32	3/8	17/32	3/4	7/64	2	700
HVTL-0N	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
HVTL-15N	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
HVTL-1N	5/16-16	5/8	7/8	1 1/4	3/16	2	3,750
HVTL-20N	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
HVTL-2N	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
HVTL-25N	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
HVTL-3N	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
HVTL-30N	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
HVTL-4N	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
HVTL-35N	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
HVTL-5N	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
HVTL-40N	1-8	1 3/8	1 7/8	4	13/32	8	22,000
303 Stainless Steel - Inch							
HVTL-00SS	10-32	3/8	17/32	3/4	7/64	1	900
HVTL-10SS	10-32	3/8	17/32	3/4	7/64	2	700
HVTL-0SS	1/4-20	1/2	45/64	1	5/32	1 1/4	1,480
HVTL-15SS	1/4-20	1/2	45/64	1	5/32	2 1/2	1,100
HVTL-1SS	5/16-16	5/8	7/8	1 1/4	3/16	2	3,750
HVTL-20SS	3/8-16	5/8	7/8	1 1/4	3/16	4	3,750
HVTL-2SS	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
HVTL-25SS	1/2-13	3/4	1 1/8	1 7/8	1/4	4	5,000
HVTL-3SS	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
HVTL-30SS	5/8-11	7/8	1 1/4	2 1/2	5/16	4	6,000
HVTL-4SS	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
HVTL-35SS	3/4-10	1 1/16	1 1/2	3	1/2	4	7,200
HVTL-5SS	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000
HVTL-40SS	1-8	1 3/8	1 7/8	4	13/32	8	22,000

Vlier Socket Type

STAINLESS STEEL OPTION AVAILABLE



Steel - Gold Chromate





Steel - Nickel Plated



Stainless Steel

Item No.	A	B	C	D	E	Load Capacity
Steel - Gold Chromate - Inch						
HVL-5	10-32	3/8	17/32	3/4	7/64	700
HVL-6	1/4-20	1/2	45/64	1	5/32	1,100
HVL-2	5/8-11	7/8	1 1/4	2 1/2	5/16	6,000
HVL-3	3/4-10	1 1/16	1 1/2	3	1/2	7,200
HVL-4	1-8	1 3/8	1 7/8	4	13/32	22,000
Steel - Gold Chromate - Metric						
HVLM-20	M12 x 1.75	19	29	48	6	5,000
Steel - Nickel Plated - Inch						
HVL-5N	10-32	3/8	17/32	3/4	7/64	700
HVL-6N	1/4-20	1/2	45/64	1	5/32	1,100
HVL-2N	5/8-11	7/8	1 1/4	2 1/2	5/16	6,000
HVL-3N	3/4-10	1 1/16	1 1/2	3	1/2	7,200
HVL-4N	1-8	1 3/8	1 7/8	4	13/32	22,000
303 Stainless Steel - Inch						
HVL-5SS	10-32	3/8	17/32	3/4	7/64	700
HVL-6SS	1/4-20	1/2	45/64	1	5/32	1,100
HVL-2SS	5/8-11	7/8	1 1/4	2 1/2	5/16	6,000
HVL-3SS	3/4-10	1 1/16	1 1/2	3	1/2	7,200
HVL-4SS	1-8	1 3/8	1 7/8	4	13/32	22,000

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STEEL LEVELERS

Vlier Stud Type With Pad

STAINLESS STEEL OPTION AVAILABLE



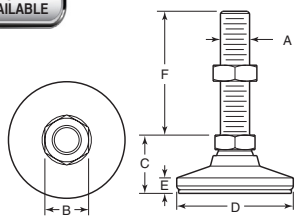
Steel - Gold Chromate



Steel - Nickel Plated



Stainless Steel



Item No.	A	B	C	D	E	F	Load Capacity
Steel - Gold Chromate, with 1/8" Elastomer - Inch							
HVTLE-00	10-32	3/8	21/32	3/4	7/64	1	525
HVTLE-10	10-32	3/8	21/32	3/4	7/64	2	525
HVTLE-0	1/4-20	1/2	53/64	1	5/32	1 1/4	800
HVTLE-15	1/4-20	1/2	53/64	1	5/32	2 1/2	800
HVTLE-1	3/8-16	5/8	1	1 1/4	3/16	2	2,800
HVTLE-20	3/8-16	5/8	1	1 1/4	3/16	4	2,800
HVTLE-2	1/2-13	3/4	1 1/4	1 7/8	1/4	2	3,750
HVTLE-25	1/2-13	3/4	1 1/4	1 7/8	1/4	4	3,750
HVTLE-3	5/8-11	7/8	1 3/8	2 1/2	5/16	2	4,500
HVTLE-30	5/8-11	7/8	1 3/8	2 1/2	5/16	4	4,500
HVTLE-4	3/4-10	1 1/16	1 5/8	3	1/2	2	5,400
HVTLE-35	3/4-10	1 1/16	1 5/8	3	1/2	4	5,400
HVTLE-5	1-8	1 3/8	2	4	13/32	4 1/4	16,400
HVTLE-40	1-8	1 3/8	2	4	13/32	8	16,400
Steel - Nickel Plated, with 1/8" Elastomer - Inch							
HVTLE-00N	10-32	3/8	21/32	3/4	7/64	1	525
HVTLE-10N	10-32	3/8	21/32	3/4	7/64	2	525
HVTLE-0N	1/4-20	1/2	53/64	1	5/32	1 1/4	800
HVTLE-15N	1/4-20	1/2	53/64	1	5/32	2 1/2	800
HVTLE-1N	3/8-16	5/8	1	1 1/4	3/16	2	2,800
HVTLE-20N	3/8-16	5/8	1	1 1/4	3/16	4	2,800
HVTLE-2N	1/2-13	3/4	1 1/4	1 7/8	1/4	2	3,750
HVTLE-25N	1/2-13	3/4	1 1/4	1 7/8	1/4	4	3,750
HVTLE-3N	5/8-11	7/8	1 3/8	2 1/2	5/16	2	4,500
HVTLE-30N	5/8-11	7/8	1 3/8	2 1/2	5/16	4	4,500
HVTLE-4N	3/4-10	1 1/16	1 5/8	3	1/2	2	5,400
HVTLE-35N	3/4-10	1 1/16	1 5/8	3	1/2	4	5,400
HVTLE-5N	1-8	1 3/8	2	4	13/32	4 1/4	16,400
HVTLE-40N	1-8	1 3/8	2	4	13/32	8	16,400
303 Stainless Steel, with 1/8" Elastomer - Inch							
HVTLE-00SS	10-32	3/8	21/32	3/4	7/64	1	525
HVTLE-10SS	10-32	3/8	21/32	3/4	7/64	2	525
HVTLE-0SS	1/4-20	1/2	53/64	1	5/32	1 1/4	800
HVTLE-15SS	1/4-20	1/2	53/64	1	5/32	2 1/2	800
HVTLE-1SS	3/8-16	5/8	1	1 1/4	3/16	2	2,800
HVTLE-20SS	3/8-16	5/8	1	1 1/4	3/16	4	2,800
HVTLE-2SS	1/2-13	3/4	1 1/4	1 7/8	1/4	2	3,750
HVTLE-25SS	1/2-13	3/4	1 1/4	1 7/8	1/4	4	3,750
HVTLE-3SS	5/8-11	7/8	1 3/8	2 1/2	5/16	2	4,500
HVTLE-30SS	5/8-11	7/8	1 3/8	2 1/2	5/16	4	4,500
HVTLE-4SS	3/4-10	1 1/16	1 5/8	3	1/2	2	5,400
HVTLE-35SS	3/4-10	1 1/16	1 5/8	3	1/2	4	5,400
HVTLE-5SS	1-8	1 3/8	2	4	13/32	4 1/4	16,400
HVTLE-40SS	1-8	1 3/8	2	4	13/32	8	16,400

Vlier Socket Type With Pad

STAINLESS STEEL OPTION AVAILABLE



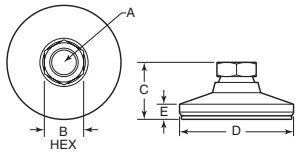
Steel - Gold Chromate



Steel - Nickel Plated



Stainless Steel



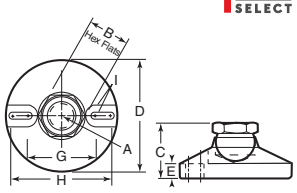
Item No.	A	B	C	D	E	Load Capacity
Steel - Gold Chromate, with 1/8" Elastomer - Inch						
HVLE-5	10-32	3/8	21/32	3/4	7/64	525
HVLE-6	1/4-20	1/2	53/64	1	5/32	800
HVLE-0	3/8-16	5/8	1	1 1/4	3/16	2,800
HVLE-1	1/2-13	3/4	1 1/4	1 7/8	1/4	3,750
HVLE-2	5/8-11	7/8	1 3/8	2 1/2	5/16	4,500
HVLE-4	1-8	1 3/8	2	4	13/32	16,400
Steel - Nickel Plated, with 1/8" Elastomer - Inch						
HVLE-5N	10-32	3/8	21/32	3/4	7/64	525
HVLE-6N	1/4-20	1/2	53/64	1	5/32	800
HVLE-0N	3/8-16	5/8	1	1 1/4	3/16	2,800
HVLE-1N	1/2-13	3/4	1 1/4	1 7/8	1/4	3,750
HVLE-2N	5/8-11	7/8	1 3/8	2 1/2	5/16	4,500
HVLE-3N	3/4-10	1 1/16	1 5/8	3	1/2	5,400
HVLE-4N	1-8	1 3/8	2	4	13/32	16,400
303 Stainless Steel, with 1/8" Elastomer - Inch						
HVLE-5SS	10-32	3/8	21/32	3/4	7/64	525
HVLE-6SS	1/4-20	1/2	53/64	1	5/32	800
HVLE-0SS	3/8-16	5/8	1	1 1/4	3/16	2,800
HVLE-1SS	1/2-13	3/4	1 1/4	1 7/8	1/4	3,750
HVLE-2SS	5/8-11	7/8	1 3/8	2 1/2	5/16	4,500
HVLE-3SS	3/4-10	1 1/16	1 5/8	3	1/2	5,400
HVLE-4SS	1-8	1 3/8	2	4	13/32	16,400

These leveling pads have a 15 degree swivel off centerline to adjust to uneven surfaces and level machine tools, electronic racks, benches, etc. Hardened ball prevents galling and forms its own seat. Large diameter pad design assures solid support. Lag holes provided for mounting to the floor. Zinc plated with gold chromate finish.

Reid Select Socket Type with Lag Holes



Steel - Gold Chromate

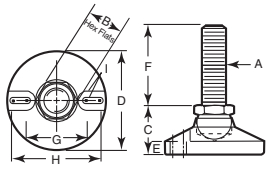


Item No.	A	B	C	D	E	G	H	For Socket Cap Screw I	Load Capacity
RSL-2000	5/8-11	7/8	1 1/4	2 1/2	5/16	1.592	1.97	5/16-18	6,000
RSL-2001	3/4-10	1 1/16	1 1/2	3	1/2	1.84	2.41	3/8-16	7,200
RSL-2002	1-8	1 3/8	1 7/16	4	13/32	2.395	3.23	1/2-13	22,000

Reid Select Stud Type with Lag Holes



Steel - Gold Chromate

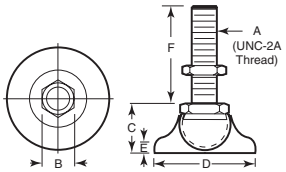


Item No.	A	B	C	D	E	F	G	H	For Socket Cap Screw I	Load Capacity
RSL-1000	5/8-11	7/8	1 1/4	2 1/2	5/16	2	1.592	1.97	5/16-18	6,000
RSL-1001	5/8-11	7/8	1 1/4	2 1/2	5/16	4	1.592	1.97	5/16-18	6,000
RSL-1002	3/4-10	1 1/16	1 1/2	3	1/2	2	1.84	2.41	3/8-16	7,200
RSL-1003	3/4-10	1 1/16	1 1/2	3	1/2	4	1.84	2.41	3/8-16	7,200
RSL-1004	1-8	1 3/8	1 7/8	4	13/32	4 1/2	2.395	3.23	1/2-13	22,000

Reid Select Stud Type



Steel - Gold Chromate

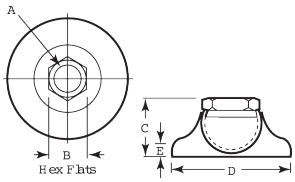


Gold Item No.	A	B	C	D	E	F	Load Capacity
RSL-1	10-32	3/8	17/32	3/4	7/64	1	700
RSL-2	1/4-20	1/2	45/64	1	5/32	1 1/4	1,100
RSL-3	3/8-16	5/8	7/8	1 1/4	3/16	2	3,750
RSL-4	1/2-13	3/4	1 1/8	1 7/8	1/4	2	5,000
RSL-5	5/8-11	7/8	1 1/4	2 1/2	5/16	2	6,000
RSL-6	3/4-10	1 1/16	1 1/2	3	1/2	2	7,200
RSL-7	1-8	1 3/8	1 7/8	4	13/32	4 1/4	22,000

Reid Select Socket Type



Steel - Gold Chromate



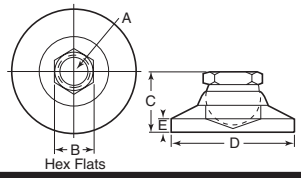
Gold Item No.	A	B	C	D	E	Load Capacity
RSL-10	10-32	3/8	17/32	3/4	7/64	700
RSL-11	1/4-20	1/2	45/64	1	5/32	1,100
RSL-12	3/8-16	5/8	7/8	1 1/4	3/16	3,750
RSL-13	1/2-13	3/4	1 1/8	1 7/8	1/4	5,000
RSL-14	5/8-11	7/8	1 1/4	2 1/2	5/16	6,000
RSL-15	3/4-10	1 1/16	1 1/2	3	1/2	7,200
RSL-16	1-8	1 3/8	1 7/8	4	13/32	22,000

These leveling pads have a 15° swivel off centerline to adjust to uneven surfaces and level machine tools, electronic racks, benches, etc. Hardened ball, except in stainless, prevents galling and forms its own seat. Large diameter pad design assures solid support. All steel parts are zinc plated. Metric dimensions are in millimeters. Metric load ratings are in kilograms.

Reid Select Socket Type



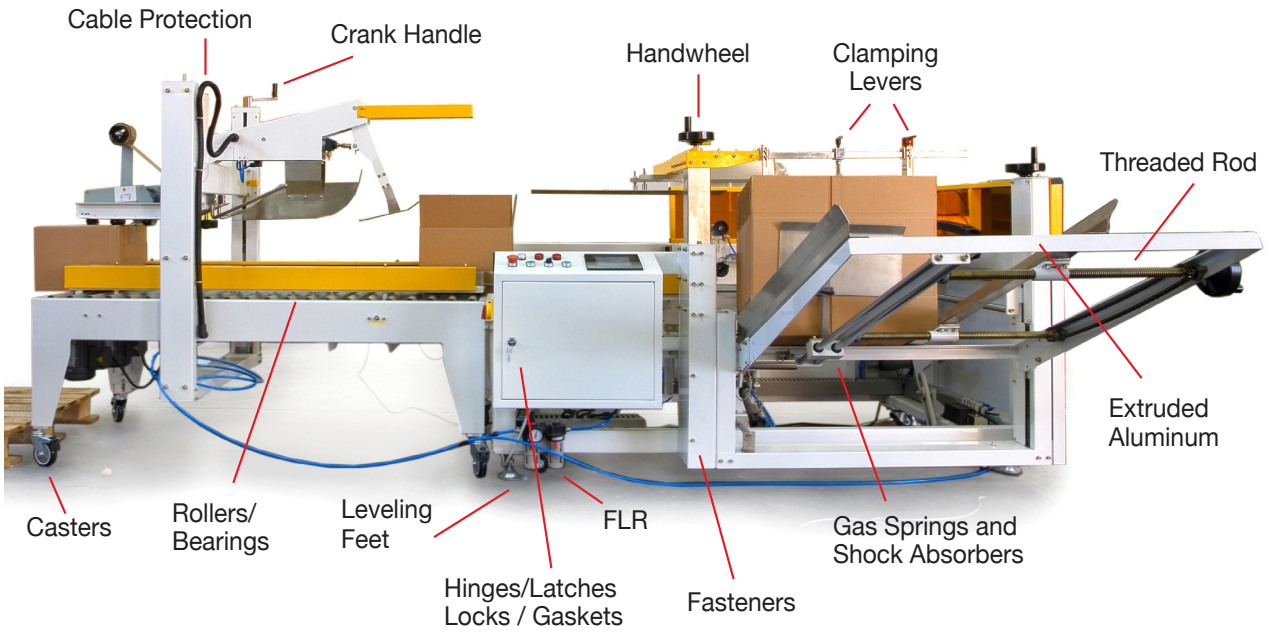
Steel - Gold Chromate



Item No.	A	Min. Thd. Depth	B	C	D	E	Load Capacity
Steel - Gold Chromate, with Delrin Pad - Inch							
LD-5	10-32	.17	3/8	53/100	3/4	1/8	150
LD-6	1/4-20	.31	1/2	7/10	1	3/20	200
LD-0	3/8-16	.38	5/8	7/8	1 1/4	3/16	300
LD-1	1/2-13	.44	3/4	1 1/8	1 7/8	1/4	700
LD-2	5/8-11	.44	7/8	1 1/4	2 1/2	5/16	1,200
LD-3	3/4-10	.62	1 1/16	1 1/2	3	1/2	1,800
LD-4	1-8	.81	1 3/8	1 7/8	4	13/32	2,400

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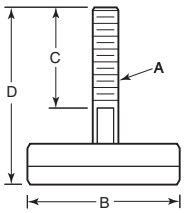


PLASTIC BASED LEVELERS

Light Duty Glides



Nylon Pad





Elastomer Pad

STAINLESS STEEL OPTION AVAILABLE

These industrial glides are an excellent and inexpensive solution for light duty applications such as office furniture, shelving, point of purchase (POP) displays, cabinetry and small machinery. The bases are available in a sturdy nylon base for glide applications or an elastomer base for non-skid applications. Studs and shell available in both clear zinc steel and ANSI Type 303 stainless steel.

Item No.	Thread	Base	Thread Length	Height	Load Capacity
Nylon Pad - Steel					
GL-5	10-24	1.2	1½	2¼	250
GL-10	¼-20	1.2	1½	2¼	250
GL-15	5/16-18	1.2	1½	2¼	250
GL-20	5/16-18	2.03	2	3	250
GL-25	⅜-16	2.03	2	3	250
GL-30	⅜-16	2.4	2	3	250
GL-35	⅜-16	2.4	4	5	250
GL-40	½-13	2.4	2	3	250
GL-45	½-13	2.4	4	5	250
GL-50	½-13	2.8	2	3 1/16	500
GL-55	½-13	2.8	4	5 1/16	500
GL-60	⅝-11	2.8	2	3 1/16	500
GL-65	⅝-11	2.8	4	5 1/16	500
GL-70	½-13	3.187	4	5⅛	500
GL-75	½-13	3.187	6	7⅛	500
GL-85	⅝-11	3.187	6	7⅛	500
Elastomer Pad - Steel					
GL-95	¼-20	1.2	1½	2¼	250
GL-100	5/16-18	1.2	1½	2¼	250
GL-105	5/16-18	2.03	2	3	250
GL-110	⅜-16	2.03	2	3	250
GL-115	⅜-16	2.4	2	3	250
GL-120	⅜-16	2.4	4	5	250
GL-125	½-13	2.4	2	3	250
GL-130	½-13	2.4	4	5	250
GL-135	½-13	2.8	2	3 1/16	500
GL-140	½-13	2.8	4	5 1/16	500
GL-150	⅝-11	2.8	4	5 1/16	500
GL-155	½-13	3.187	4	5⅛	500
GL-160	½-13	3.187	6	7⅛	500
GL-165	⅝-11	3.187	4	5⅛	500
GL-170	⅝-11	3.187	6	7⅛	500

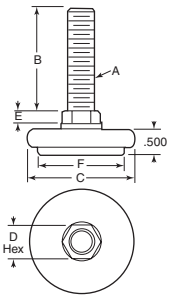
Item No.	Thread	Base	Thread Length	Height	Load Capacity
Nylon Pad - Stainless Steel					
GL-175	10-24	1.2	1½	2¼	250
GL-180	¼-20	1.2	1½	2¼	250
GL-185	5/16-18	1.2	1½	2¼	250
GL-190	5/16-18	2.03	2	3	250
GL-195	⅜-16	2.03	2	3	250
GL-200	⅜-16	2.4	2	3	250
GL-205	⅜-16	2.4	4	5	250
GL-210	½-13	2.4	2	3	250
GL-220	½-13	2.8	2	3 1/16	500
GL-225	½-13	2.8	4	5 1/16	500
GL-230	⅝-11	2.8	2	3 1/16	500
GL-240	½-13	3.187	4	5⅛	500
GL-250	⅝-11	3.187	4	5⅛	500
GL-255	⅝-11	3.187	6	7⅛	500
Elastomer Pad - Stainless Steel					
GL-265	¼-20	1.2	1½	2¼	250
GL-270	5/16-18	1.2	1½	2¼	250
GL-275	5/16-18	2.03	2	3	250
GL-280	⅜-16	2.03	2	3	250
GL-285	⅜-16	2.4	2	3	250
GL-290	⅜-16	2.4	4	5	250
GL-300	½-13	2.4	4	5	250
GL-305	½-13	2.8	2	3 1/16	500
GL-310	½-13	2.8	4	5 1/16	500
GL-320	⅝-11	2.8	4	5 1/16	500
GL-330	½-13	3.187	6	7⅛	500
GL-335	⅝-11	3.187	4	5⅛	500
GL-340	⅝-11	3.187	6	7⅛	500

Vlier Light Duty Glides

VLIER 75 YEARS OF INNOVATION
LEVEL STAR

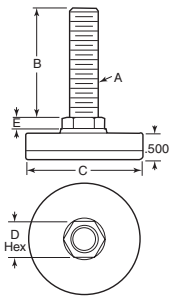


Elastomer Pad





Nylon Pad



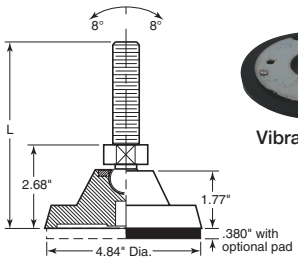
For light duty leveling applications. Can be used on furniture, light duty machines, tables, cabinets, light weight equipment, etc. Made of steel. Available with elastomer pad for non-skid applications or nylon pad for glide applications.

Item No.	Load Rating Lbs.	A	B	C	D	E	F
Elastomer Pad							
VE-700	300	¼-20	1.5	1.5	.5	.16	1.22
VE-701	300	5/16-18	1.5	1.5	.5	.16	1.22
VE-702	300	⅜-16	2	2.0	.5	.2	1.71
VE-703	300	½-13	2	2.0	.5	.2	1.71
Nylon Pad							
VE-704	300	¼-20	1.5	1.38	.5	.16	—
VE-705	300	5/16-18	1.5	1.38	.5	.16	—
VE-706	300	⅜-16	2	2.0	.5	.2	—
VE-707	300	½-13	2	2.0	.5	.2	—

4.84" Pad - Max. Load: 4,400 Lbs.
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE







Vibration Pad

Steel Item No.	Stainless Item No.	Thread	L
RL-1504-P	RL-1504-S	¾-10	5.63
RL-1506-P	—	¾-10	8.25
Vibration Pad			
RL-150-VP		Rubber Pad w/Steel Plate for 4.84" Base	

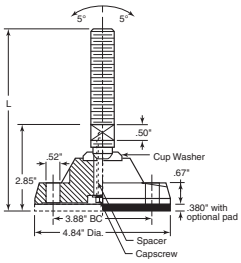
Loc-A-Lign Series
4.84" Pad - Max. Load: 9,900 Lbs.
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE





Vibration Pad



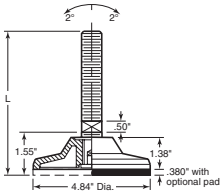
Steel Item No.	Stainless Item No.	Thread	L
RL-2210-P	—	1-8	7.45
RL-2225-P	RL-2225-S	1-8	9.95
RL-2240-P	—	1-8	11.95
RL-2250-P	—	1¼ - 7	11.95
Vibration Pad			
RL-150-VP		Rubber Pad w/Steel Plate for 4.84" Base	

4.84" Pad
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE



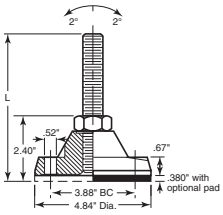
w/ Lag Holes



Heavy Duty



w/o Lag Holes



Extra Heavy Duty



Vibration Pad

Steel Item No.	Stainless Item No.	Thread	L
Heavy Duty w/o Lag Holes - Max. Load: 8,000 Lbs.			
RL-1601-P	—	¾-10	7.50
RL-1602-P	—	1-8	7.48
Extra Heavy Duty w/ Lag Holes - Max. Load: 9,900 Lbs.			
RL-1702-P	RL-1702-S	¾-10	7.48
RL-1703-P	RL-1703-S	1-8	7.48
RL-1715-P	—	1-8	10.07
Vibration Pad			
RL-150-VP	—	Rubber Pad w/Steel Base for 4.84" Base	

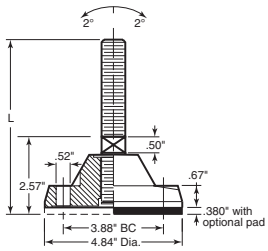
4.84" Pad - Max. Load: 9,900 Lbs.
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE





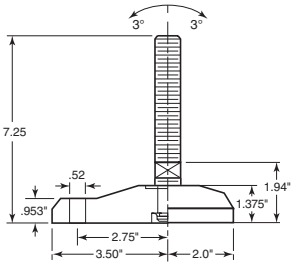
Vibration Pad



Steel Item No.	Stainless Item No.	Thread	L
RL-1720-P	RL-1720-S	¾-10	7.50
RL-1725-P	RL-1725-S	1-8	7.50
RL-1735-P	—	1-8	10.09
—	RL-1705-S	1¼ - 7	7.50
Vibration Pad			
RL-150-VP	—	Rubber Pad w/Steel Plate for 4.84" Base	

5.50" Pad - Max. Load: 7,200 Lbs.
Single Lag Hole - Cast Nylathane Base
Steel Stem





Item No.	Thread
RL-2110-P	¾-10
RL-2115-P	1-8

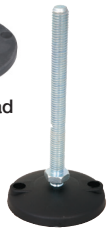
PLASTIC BASED LEVELERS

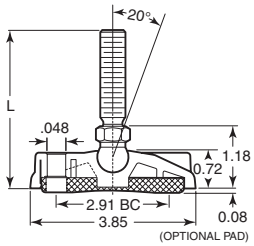
3.85" Pad - Max. Load: 2,600 Lbs.
Inch and Metric
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE


w/o Lag Holes


Vibration Pad


w/ Lag Holes



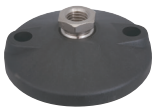
Steel Item No.	Stainless Item No.	Thread	L
w/o Lag Holes - Inch			
RL-1402-P	RL-1402-S	½-13	4.60
RL-1403-P	—	⅝-11	7.60
RL-1404-P	—	¾-10	7.60
RL-1420-P	—	¾-10	10.60
w/ Lag Holes - Inch			
—	RL-1412-S	½-13	4.60
RL-1413-P	RL-1413-S	⅝-11	7.60
RL-1414-P	RL-1414-S	¾-10	7.60
RL-1425-P	RL-1425-S	¾-10	10.60
w/o Lag Holes - Metric			
RL-1405-P	—	M16 x 2.00	118
—	RL-1406-S	M16 x 2.00	198
RL-1407-P	—	M20 x 2.50	198
w/ Lag Holes - Metric			
RL-1415-P	—	M16 x 2.00	118
RL-1416-P	RL-1416-S	M16 x 2.00	198
—	—	M20 x 2.50	198
Vibration Pad			
SX-140-VP	—	Rubber Pad for 3.85" Base	

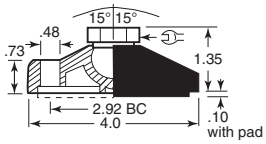
4" Pad - Max. Load: 2,600 Lbs.
Stainless Socket
Internal Threads

STAINLESS STEEL OPTION AVAILABLE


w/o Lag Holes


Vibration Pad


w/ Lag Holes



Item No.	Thread
w/o Lag Holes	
RL-2905-S	½-13
RL-2910-S	⅝-11
RL-2915-S	¾-10
w/Lag Holes	
RL-3105-S	½-13
RL-3115-S	¾-10
Vibration Pad	
RL-140-VP	—

1.54" Pad - Max. Load: 700 Lbs.
Inch and Metric
Steel and Stainless Stem


Vibration Pad

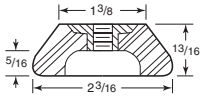


Steel Item No.	Stainless Item No.	Thread	L
Inch			
RL-2510-P	RL-2510-S	5/16-18	2.60
—	RL-2515-S	5/16-18	3.60
RL-2520-P	RL-2520-S	⅜-16	2.60
RL-2525-P	RL-2525-S	⅜-16	3.60
RL-2530-P	—	½-13	2.60
RL-2535-P	—	½-13	3.60
—	RL-2540-S	⅝-11	2.60
RL-2545-P	—	⅝-11	3.60
Metric			
RL-2550-P	RL-2550-S	M8 x 1.25	68
RL-2555-P	—	M8 x 1.25	94
RL-2565-P	—	M10 x 1.50	94
—	RL-2575-S	M12 x 1.75	94
Vibration Pad			
SX-2595-VP	—	Rubber Pad for 1.54" Base	

Mounting Feet
Bonded Neoprene


Stud


w/o Stud



These mounting feet let you isolate all types of machinery and equipment from vibration and floor motion. Made of neoprene bonded to a steel insert. These mounting feet are available with just the steel insert (allowing you to make a custom stud) or with a stud epoxied in the insert with one hex nut.

Stud Item No.	w/o Stud Item No.	Load Range Lbs.	Load Deflection	Stud Thread	Stud Length
TMF-553-A	TMF-553	6-35	.05-.25	⅜-16	2⅝
TMF-555-A	TMF-555	20-65	.05-.25	⅜-16	2⅝
TMF-557-A	TMF-557	50-130	.05-.25	⅜-16	2⅝
TMF-601-A	TMF-601	10-40	.08-.20	½-13	2½
TMF-602-A	TMF-602	30-80	.08-.20	½-13	2½
TMF-603-A	TMF-603	70-180	.08-.20	½-13	2½
TMF-608-A	TMF-608	60-300	.05-.20	½-13	2½
TMF-609-A	TMF-609	150-600	.05-.20	½-13	2½

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3.10" Pad - Max. Load: 2,000 Lbs.
Inch and Metric
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE



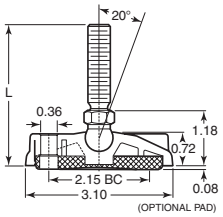
Vibration Pad



w/o Lag Holes



w/ Lag Holes



Steel Item No.	Stainless Item No.	Thread	L
w/o Lag Holes - Inch			
RL-1301-P	RL-1301-S	3/8-16	3.60
RL-1302-P	RL-1302-S	1/2-13	3.60
RL-1304-P	RL-1304-S	1/2-13	6.10
RL-1305-P	RL-1305-S	5/8-11	6.10
w/ Lag Holes - Inch			
RL-1309-P	RL-1309-S	3/8-16	3.60
RL-1310-P	RL-1310-S	1/2-13	3.60
RL-1311-P	RL-1311-S	1/2-13	6.10
RL-1312-P	RL-1312-S	5/8-11	6.10
w/ Lag Holes - Mixed			
RL-1313-P	RL-1313-S	M16 x 2.00	94
RL-1314-P	RL-1314-S	M16 x 2.00	153
Vibration Pad			
SX-130-VP	—	Rubber Pad for 3.10" Base	

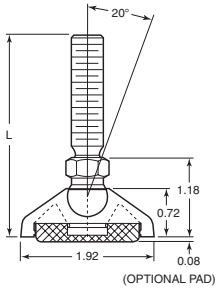
1.92" Pad - Max. Load: 700 Lbs.
Inch and Metric
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE





Vibration Pad



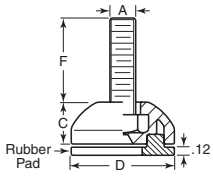
Steel Item No.	Stainless Item No.	Thread	L
Inch			
RL-3205-P	—	5/16-18	2.60
RL-3215-P	—	3/8-16	2.60
RL-3220-P	RL-3220-S	1/2-13	2.60
RL-3210-P	RL-3210-S	5/16-18	3.60
RL-1103-P	RL-1103-S	3/8-16	3.60
RL-1104-P	RL-1104-S	1/2-13	3.60
RL-3230-P	—	5/8-11	3.60
RL-1105-P	RL-1105-S	1/2-13	5.85
RL-1106-P	RL-1106-S	5/8-11	5.85
Metric			
RL-3235-P	—	M8 x 1.25	68
RL-3245-P	RL-3245-S	M10 x 1.50	68
RL-3250-P	RL-3250-S	M10 x 1.50	94
—	RL-3260-S	M12 x 1.75	94
RL-3265-P	RL-3265-S	M12 x 1.75	153
—	RL-1108-S	M16 x 2.00	153
Vibration Pad			
SX-110-VP	—	Rubber Pad for 1.92" Base	

Thermoplastic Leveling Pads
Inch





Vibration Pad



STAINLESS STEEL OPTION AVAILABLE

Reid SELECT

Item No.	A	C	D	F	Max. Static Load Lbs.
RST-500	5/16-18	.51	1.26	1.50	1,763
RST-501	3/8-16	.51	1.26	1.75	1,763
RST-502	5/16-18	.51	1.57	1.50	1,763
RST-503	3/8-16	.51	1.57	1.75	1,763
Vibration Pads					
RST-504			Rubber Pad for 1.26" Base		
RST-505			Rubber Pad for 1.57" Base		

These leveling pads are an economical choice for a wide range of applications. The base is made from reinforced thermoplastic. Threaded stem is made of treated steel. Optional non-skid rubber pads available separately. Metric dimensions are in millimeters.

Loc-A-Lign Series
4.00" Pad - Max. Load: 2,600 Lbs.
Steel and Stainless Stem

STAINLESS STEEL OPTION AVAILABLE

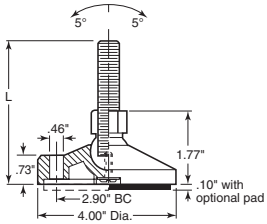
Steel Item No.	Stainless Item No.	Thread	L
w/o Lag Holes			
RL-2050-P	RL-2050-S	5/8-11	7.69
RL-2055-P	RL-2055-S	3/4-10	7.69
w/ Lag Holes			
RL-2075-P	RL-2075-S	3/4-10	7.69
RL-2080-P	RL-2080-S	3/4-10	10.69
Vibration Pad			
RL-140-VP	—	Rubber Pad for 4" Base	



w/o Lag Holes



w/ Lag Holes





Vibration Pad

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

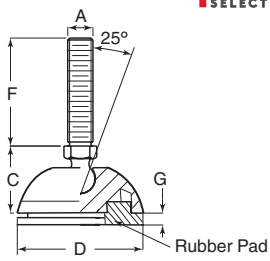
PLASTIC BASED LEVELERS

Thermoplastic Leveling Pads Metric





Vibration Pad



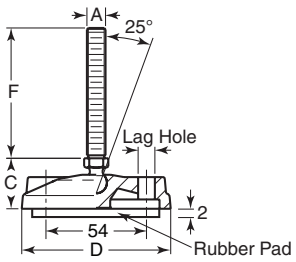
Item No.	A	C	D	F	G	Max. Static Load Newtons
RST-506	M8 x 1.25	22	32	45	3	10,000
RST-507	M8 x 1.25	22	32	70	3	10,000
RST-508	M10 x 1.50	22	32	45	3	10,000
RST-510	M8 x 1.25	22	40	45	3	10,000
RST-511	M8 x 1.25	22	40	70	3	10,000
RST-513	M10 x 1.50	22	40	70	3	10,000
RST-514	M8 x 1.25	27	50	45	2	10,000
RST-515	M8 x 1.25	27	50	70	2	10,000
RST-516	M10 x 1.50	27	50	45	2	10,000
RST-517	M10 x 1.50	27	50	70	2	10,000
RST-518	M12 x 1.75	27	50	45	2	10,000
RST-520	M8 x 1.25	27	80	45	2	10,000
RST-522	M10 x 1.50	27	80	45	2	10,000
RST-525	M12 x 1.75	27	80	70	2	10,000
RST-526	M14 x 2.00	27	80	70	2	10,000
RST-528	M16 x 2.00	27	80	70	2	10,000
RST-527	M14 x 2.00	27	80	120	2	10,000
RST-529	M16 x 2.00	27	80	120	2	10,000
RST-530	M20 x 2.50	27	80	100	2	10,000
Vibration Pads						
RST-531	Rubber Pad for 50mm Base					
RST-532	Rubber Pad for 80mm Base					

Thermoplastic Leveling Pads Base with Lag Holes Metric





Vibration Pad



Item No.	A	C	D	F	Max. Static Load Newtons
RST-533	M8 x 1.25	27	80	45	10,000
RST-534	M8 x 1.25	27	80	70	10,000
RST-535	M10 x 1.50	27	80	45	10,000
RST-536	M10 x 1.50	27	80	70	10,000
RST-537	M12 x 1.75	27	80	45	10,000
RST-548	M12 x 1.75	27	80	70	10,000
RST-539	M14 x 2.00	27	80	70	10,000
RST-540	M14 x 2.00	27	80	120	10,000
RST-541	M16 x 2.00	27	80	70	10,000
RST-542	M16 x 2.00	27	80	120	10,000
RST-543	M20 x 2.50	27	80	100	10,000
Vibration Pads					
RST-544	Rubber Pad for 80mm Base with Lag Holes				

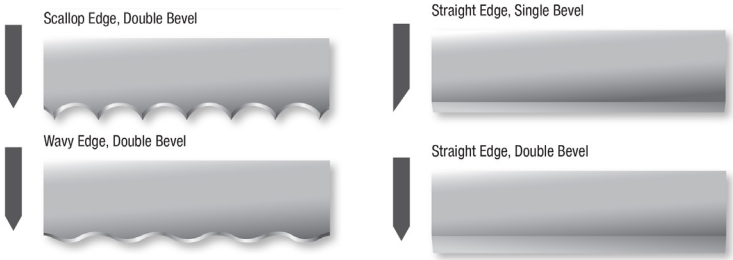


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CUT-TO-SIZE BAND SAW BLADES

Reid Supply can cut and weld band saw blades to fit most standard specifications.





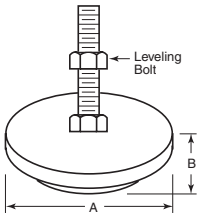
CALL - 1.800.253.0421 EMAIL - Sales@ReidSupply.com

Sunnex
Stainless and Zinc Anti-Vibration Mounts

sunnex

STAINLESS STEEL OPTION AVAILABLE





- Corrosive resistant design
- Designed with high grade materials, nitrile rubber, stainless steel
- Available in a wide variety of sizes
- All models available in zinc plated steel or #2 stainless steel

Stainless for damp or corrosive areas. Durable thread connection to equipment. Swivel movement ±7 degrees for stable support on inclined floors. Neoprene rubber ensures equipment does not move.

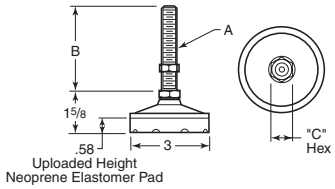
Stainless Item No.	Zinc Item No.	Bolt Size	Bolt Length	A Dia.	B Base Ht.	Load Capacity (Lbs.)
RY-605	RY-805	½-13	4	2.64	.94	250
RY-620	RY-820	½-13	4	2.64	.94	500
SX-625	SX-825	½-13	6	2.64	.94	500
RY-630	RY-830	⅝-11	4	2.64	1.00	500
—	SX-835	⅝-11	6	2.64	1.00	500
RY-640	RY-840	½-13	4	3.86	1.38	1,000
SX-645	SX-845	½-13	6	3.86	1.38	1,000
RY-650	RY-850	⅝-11	4	3.86	1.44	1,000
—	SX-855	⅝-11	6	3.86	1.44	1,000

Stainless Item No.	Zinc Item No.	Bolt Size	Bolt Length	A Dia.	B Base Ht.	Load Capacity (Lbs.)
RY-660	RY-860	¾-10	4	3.86	1.56	1,000
—	SX-865	¾-10	6	3.86	1.56	1,000
RY-670	RY-870	½-13	4	3.86	1.38	2,000
SX-675	SX-875	½-13	6	3.86	1.38	2,000
SX-680	SX-880	⅝-11	4	3.86	1.44	2,000
RY-685	RY-885	⅝-11	6	3.86	1.44	2,000
SX-690	SX-890	¾-10	4	3.86	1.56	2,000
RY-695	RY-895	¾-10	6	3.86	1.56	2,000

Vlier
Anti-Vibration leveling Pads
Inch and Metric Threads

VLIER 75 YEARS OF INNOVATION



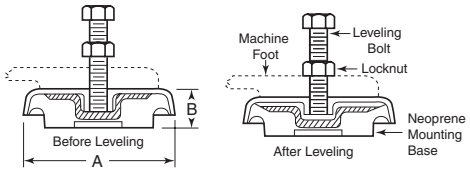


These anti-vibration leveling pads are the only swivel leveling devices specifically designed to provide low frequency vibration isolation, leveling and shock attenuation for electronics and machinery. These pads have a 15 degree swivel off center to adjust to uneven surfaces. They feature over ½" of black neoprene permanently bonded to the base. The steel parts are zinc plated with black chromate finish. The neoprene has an operating temperature range of -20 to +180 degree Fahrenheit. Metric dimensions are in millimeters.

Item No.	Load Rating Lbs.	A	B	C
Inch				
AX-5	100-400	½-13	2	¾
AX-10	100-400	½-13	4	¾
AX-15	200-800	½-13	2	¾
AX-20	200-800	½-13	4	¾
AX-25	400-1,200	½-13	2	¾
AX-30	400-1,200	½-13	4	¾
Metric				
AX-35	100-400	M12 x 1.75	51	19
AX-40	100-400	M12 x 1.75	84	19
AX-45	200-800	M12 x 1.75	51	19
AX-50	200-800	M12 x 1.75	84	19
AX-55	400-1,200	M12 x 1.75	51	19

Machine Leveling Mounts
Elastomer Base - OSHA Yellow Steel Cover





Item No.	A	B	Bolt Size/Lgth.	Load Rate Per Mount Lbs.
LM-00	2	1	¼-28 x 1¾	30/100
LM-0	3⅜	1½	⅜-24 x 3	100/300
LM-1	4¾	1½	½-13 x 5	300/1,000
LM-8	4¾	1½	½-13 x 8	300/1,000
LM-2	6⅝	1⅝	½-13 x 5	1,000/4,200
LM-3	6⅝	1⅝	¾-10 x 5	1,000/4,200
LM-11	6⅝	1⅝	¾-10 x 8	1,000/4,200
LM-12	6⅝	1⅝	¾-10 x 10	1,000/4,200
LM-30	7¼	1⅝	¾-10 x 5	4,000/10,000
LM-35	7¼	1⅝	¾-10 x 8	4,000/10,000
LM-4	9	2½	¾-10 x 5	4,000/13,000
LM-5	9	2½	1-14 x 8	4,000/13,000
LM-6	9	2¼	1-14 x 8	4,000/13,000

Protects general metalworking and process equipment (punch presses, milling machines, lathes, mixers, injection molding machines, grinders, etc.) from shock and vibration, and simplifies their installation. 2½" of neoprene provides controlled deflections under load; high isolation efficiency for vibration and shock forces; reduction of transmitted sound. Mounts are adjustable up to ½" above loaded height by a few turns of the leveling bolt. Tightening the check nut then maintains the exact height you need. Corrosion-resistant outer housing provides high strength; neoprene elastomer resists oil, grease, ozone, and caustics; zinc plated hardware resists rust. Hex head bolt and locknut furnished with mounts. All height dimensions indicate free height of mount under no load.

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WORKHOLDING SOLUTIONS

Our Destaco product offering includes stainless steel clamps that are suitable for many applications that demand a clamp that is more robust than traditional steel models and are well-suited for pharmaceutical manufacturing and other high temperature or harsh environments.

Sunnex
Heavy Duty Industrial Machine Mounts

sunnex®



Benefits:
- High strength machined components
- Rapid installation and leveling
- 80% vibration reduction
- Vertical and horizontal isolation

Application:
- Milling machines
- Presses
- Injection molding
- Packaging machines

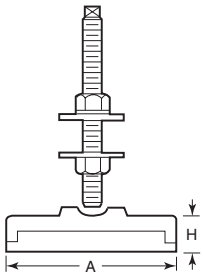
Item No.	Load Ranges Per Mount (lbs.)			
	Non-Impact Machinery	Presses Max. Strokes Per Minute		
		125 Strokes	180 Strokes	200 Strokes
SX-1	1,100	500	400	300
SX-2	2,200	1,000	800	600
SX-3A	4,400	2,400	1,900	1,400
SX-3	8,800	4,000	3,200	2,400
SX-4	12,000	5,500	4,400	3,300

Heavy duty industrial machine mount designed with high strength construction for reduction of both shock and vibration. Prevents vibration from affecting other machines and prevents mounted equipment from outside vibration effects. Provides precision leveling with large support plate and meets OSHA standards by preventing "walking".

Item No.	Load Lbs.	Base Dia.	Plate Dia.	Height	Adjust.	Bolt Type
SX-1	1,100	3.15	2.36	1.5	.50	M12-1.25
SX-2	2,200	4.75	3.15	1.80	.55	M16-1.5
SX-3A	4,400	6.25	3.94	2.10	.60	M20-1.5
SX-3	8,800	6.25	3.94	2.13	.60	M20-1.5
SX-4	12,000	7.87	3.94	2.2	.60	M20-1.5

General Purpose





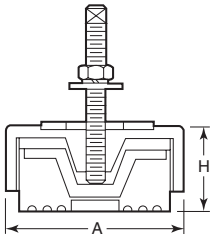
These leveling mounts are designed for installation of industrial machinery where the ratio of shear loads to vertical loads is less than or equal to 1:5. Base is unthreaded. The stud rests on the pad and is not threaded in or fastened to the pad. Self-aligning feature compensates for uneven floors without sacrificing stability. Scientifically designed diamond suction cells of the neoprene insert firmly anchor the machine to the floor. Recommended for a wide range of industrial machinery and equipment where simple precise leveling is required. One inch level adjustment.

Item No.	Maximum Load in Lbs.		Leveling Bolt Size	A	H
	Non-Impact Machinery	Impact Machinery			
VP-1	500	350	½-13 x 6	4	1
VP-2	1,000	700	½-13 x 6	4	1
VP-3	2,000	1,400	⅝-11 x 8	4	1
VP-4	2,000	1,400	¾-16 x 6	7	1¼
VP-5	4,000	2,800	¾-16 x 6	7	1¼
VP-8	12,000	8,500	1-14 x 8	7	1¼

Compression Shear Leveling Mounts

Durable, high-quality mount combines effective compression and shear isolation from vibration and shock with the convenience of an internal leveling device. Deep cavity design allows excellent vibration and shock control in both the vertical and horizontal direction. Heavy-duty ductile iron cover and chemically resistant neoprene insert. Internal leveling device easily levels your machine up to ½ inch. Specially designed recess on top of cover houses a rubber washer allowing superior contact between the machine and mount. Concentric rings on base of neoprene insert prevents walking or creeping. Ideal for lathes, milling machines, punch presses, printing machines, shears, brakes, injection molding machines, grinders, etc. Includes all necessary hardware.





Item No.	Maximum Load in Lbs.		Leveling Bolt Size	A	H
	Non-Impact Machinery	Impact Machinery			
VP-11	1,500	1,000	½-13 x 6	3.5	1⅞
VP-12	4,500	3,000	⅝-11 x 8	5.5	2¼

Note: Dimension H has no load

MACHINERY MOUNTS

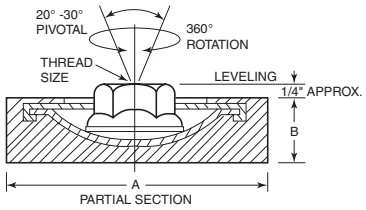
Pivotal Levelers



w/ Stud



w/o Stud

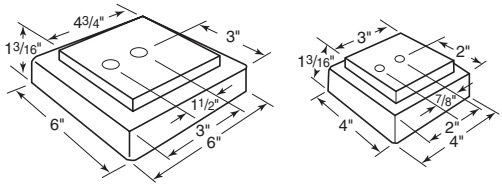


Made of tough bonded neoprene, these patented pivotal levelers keep equipment level and dampen an average of 85% of noise and vibration. The mounting nut, which holds the stud, is molded in the pad in a steel bracket and rotates freely permitting ¼" or more of leveling. These levelers are available with just the mounting hex nut (allowing you to make a custom stud) or with a stud epoxied in the mounting nut with one hex nut.

Stud		w/o Stud					
Item No.	Stud Length	Item No.	Max. Load Lbs.	Type	A	B	Stud Thread
TPL-510-A	4 13/16	—	350	Square	3	5/8	½-13
TPL-530-A	4 13/16	TPL-530	500	Round	3	¾	½-13
TPL-540-A	4 13/16	TPL-540	1,000	Round	3	¾	½-13
TPL-535-A	4½	TPL-535	3,700	Round	5	1½	¾-10
TPL-545-A	4½	TPL-545	8,000	Round	5	1½	¾-10

Cushioned Machine Leveling Mounts



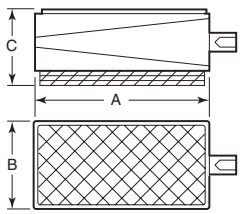


Reduces noise and vibration on heavy machinery, compressors and presses. High strength aluminum alloy mounting plate is imbedded in each pad with two tapped mounting holes for installation on all types of machines. The elastomer compound used in these pads is highly resistant to oil and chemicals. Included with each pad is a ½" thread cold forged 2½" long bolt. Thousands of tiny suction pockets on the bottom prevent machine from walking or slipping out of position.

Item No.	Size	Load Range Lbs.	Durometer
CO-1	4" x 4"	4,000	60
CO-2	4" x 4"	4,000 - 10,000	80
CO-3	6" x 6"	4,000	60
CO-4	6" x 6"	4,000 - 10,000	80

Light Duty Wedge Mounts



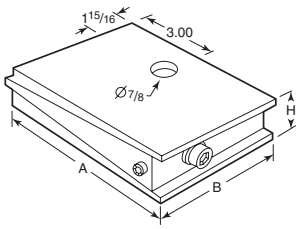


Used for leveling all types of production machines. Made of cast iron with non-skid pads on top and bottom. Excellent isolation and dampening properties. Free standing, compact, low construction height. Fine adjustments under full load. Pretensioned wedges for transverse stability and self-locking wedges for longitudinal stability.

Item No.	Max. Load Lbs.	A	B	Mid-Height C	Leveling Range
AWM-2	2,000	6	3	2⅜	+/- 3/16
AWM-3	3,500	8	3¾	2½	+/- ¼
AWM-4	6,500	8	8	2½	+/- ¼

Heavy Duty Wedge Mounts





Designed for installation and precise leveling of heavy industrial machinery. Three machined wedges are mounted and held together by a horizontal adjusting bolt. A lock screw secures the mount in the leveled position. Keys in the sliding surfaces of the wedges ensure rigidity within the mount construction. A special opening allows for bolting of the machine to the floor. Maximum leveling is ¼ inch. If more height is required a shim plate may be used.

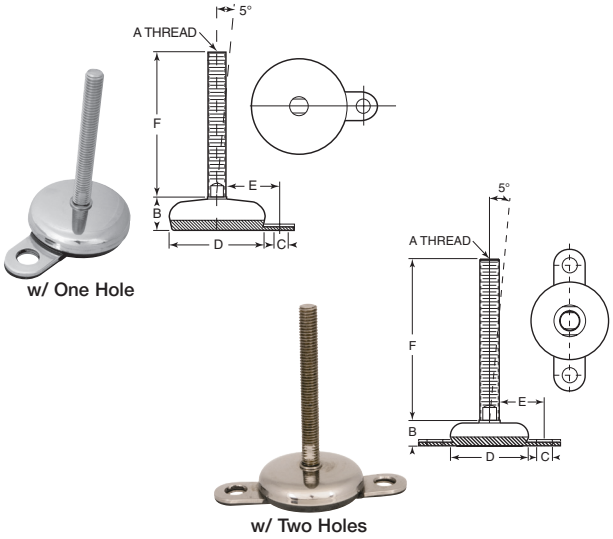
Item No.	Max. Load Lbs.	A	B	H
VP-50	15,000	6	4	1⅝
VP-51*	9,000	6	4	2

*Neoprene top and bottom for vibration, noise and shock isolation.

Sunnex Anchoring Hygienic Anti-Vibration Mounts

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STAINLESS STEEL OPTION AVAILABLE



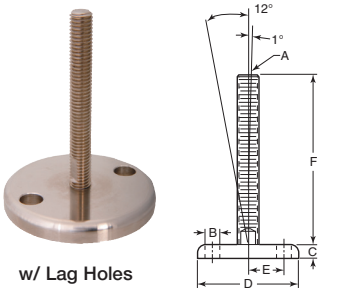
ANSI Type 304 stainless steel provides high corrosion resistance. Rounded polished base for fluid run-off during wash down applications. 5 degrees swivel for good floor contact. Rubber base meets FDA 177-2600. Operating temperatures are -20 to 100 degree Celsius. Available with one or two anchoring holes.

1-Hole Item No.	2-Holes Item No.	A	B	C	D	E	F	Load Capacity
SX-75	SX-83	½-13	.87	.63	2.95	2.05	4	1,770
SX-76	SX-84	½-13	.87	.63	2.95	2.05	6	1,770
SX-77	SX-85	⅝-11	.87	.63	2.95	2.05	6	1,770
SX-78	SX-86	⅝-11	.87	.63	2.95	2.05	8	1,770
SX-79	SX-87	¾-10	.87	.63	2.95	2.05	6	1,770
SX-80	SX-88	¾-10	.87	.63	2.95	2.05	8	1,770
SX-81	SX-89	⅞-9	.87	.63	2.95	2.05	6	1,770
SX-82	SX-90	⅞-9	.87	.63	2.95	2.05	8	1,770
SX-92	—	½-13	1.26	.63	3.94	2.64	6	2,220
SX-91	—	½-13	1.26	.63	3.94	2.64	4	2,220
SX-93	—	⅝-11	1.26	.63	3.94	2.64	6	2,220
SX-94	—	⅝-11	1.26	.63	3.94	2.64	8	2,220
SX-95	—	¾-10	1.26	.63	3.94	2.64	6	2,220
SX-96	—	¾-10	1.26	.63	3.94	2.64	8	2,220
SX-97	—	⅞-9	1.26	.63	3.94	2.64	6	2,220
SX-98	—	⅞-9	1.26	.63	3.94	2.64	8	2,220

Sunnex Low Profile Anchoring Leveler

STAINLESS STEEL OPTION AVAILABLE

sunnex



Solid stainless steel construction for heavy loads. Rounded profile makes leveler easy to clean. ANSI Type 304 stainless steel for high chemical resistance. Withstands temperatures of -20 to 100 degrees Celsius. Wrench flats in bolt provide full use of threaded bolt. Available with either 1 degree or 12 degrees of swivel.

1 degree Item No.	12 degrees Item No.	A	B	C	D	E	F	Load Capacity
SX-132	SX-148	½-13	.5	.47	3.54	1.26	4	13,300
—	SX-149	½-13	.5	.47	3.54	1.26	6	13,300
SX-134	SX-150	⅝-11	.5	.47	3.54	1.26	6	13,300
—	SX-151	⅝-11	.5	.47	3.54	1.26	8	13,300
SX-136	SX-152	¾-10	.5	.47	3.54	1.26	6	13,300
SX-137	SX-153	¾-10	.5	.47	3.54	1.26	8	13,300
SX-138	SX-154	⅞-9	.5	.47	3.54	1.26	6	13,300
SX-139	SX-155	⅞-9	.5	.47	3.54	1.26	8	13,300
SX-140	SX-156	½-13	.5	.47	4.33	1.73	4	13,300
SX-141	SX-157	½-13	.5	.47	4.33	1.73	6	13,300
SX-142	SX-158	⅝-11	.5	.47	4.33	1.73	6	13,300
SX-143	SX-159	⅝-11	.5	.47	4.33	1.73	8	13,300
SX-144	SX-160	¾-10	.5	.47	4.33	1.73	6	13,300
SX-145	SX-161	¾-10	.5	.47	4.33	1.73	8	13,300
SX-146	SX-162	⅞-9	.5	.47	4.33	1.73	6	13,300
—	SX-163	⅞-9	.5	.47	4.33	1.73	8	13,300

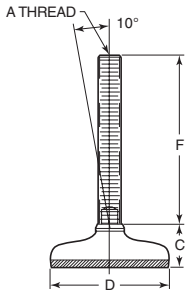
Sunnex Overall Hygienic

STAINLESS STEEL OPTION AVAILABLE

sunnex

Overall hygienic stainless steel mounts meet all USDA requirements for food processing equipment. Rubber contains no voids and is vulcanized to the housing for a completely hygienic seal. ANSI Type 304 stainless steel provides high corrosion resistance. Full range of motion up to 10 degrees. Pivot provides secure footing and complete vibration control.





Item No.	A	C	D	F	Load Capacity
SX-35	½-13	1.3	2.36	4	1,100
SX-36	½-13	1.3	2.36	6	1,100
SX-37	⅝-11	1.3	2.36	6	1,100
SX-38	⅝-11	1.3	2.36	8	1,100
SX-39	¾-10	1.3	2.36	6	1,100
SX-40	¾-10	1.3	2.36	8	1,100
SX-41	⅞-9	1.3	2.36	6	1,100
SX-42	⅞-9	1.3	2.36	8	1,100
SX-43	½-13	1.22	3.15	4	2,200
SX-44	½-13	1.22	3.15	6	2,200
SX-45	⅝-11	1.22	3.15	6	2,200
SX-46	⅝-11	1.22	3.15	8	2,200
SX-47	¾-10	1.22	3.15	6	2,200
SX-48	¾-10	1.22	3.15	8	2,200
SX-49	⅞-9	1.22	3.15	6	2,200
SX-50	⅞-9	1.22	3.15	8	2,200
SX-51	½-13	1.34	3.94	4	3,300
SX-52	½-13	1.34	3.94	6	3,300
SX-53	⅝-11	1.34	3.94	6	3,300
SX-54	⅝-11	1.34	3.94	8	3,300
SX-55	¾-10	1.34	3.94	6	3,300
SX-56	¾-10	1.34	3.94	8	3,300

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Get the most precise measurements.

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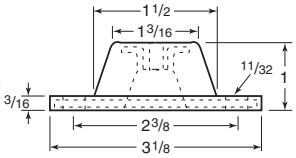
Digital Calipers

The new variation that displays an exact reading on a digital screen

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Compression Vibration Mounts
Neoprene

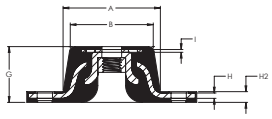




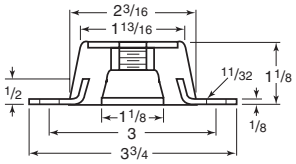
Style A



Style C+



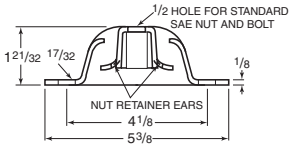




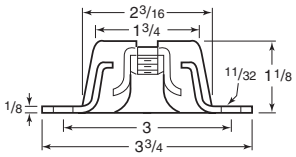
Style B



Style D



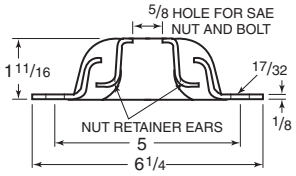




Style C



Style E

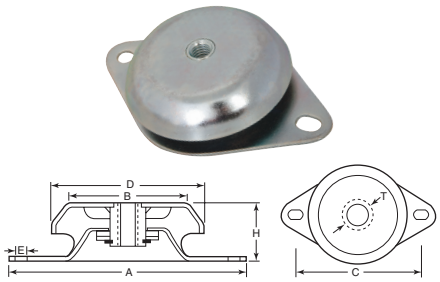


Protects against shock, vibration and noise in compression load applications. Use with compressors, motors, fans, generators, etc. Made from neoprene rubber with metal inserts and plates.

Item No.	Thread	Durometer	Load Lbs.	Item No.	Thread	Durometer	Load Lbs.
Style A				**1291458**	M6X1.0	40	87
KR-63-1	5/16-18	40	50	**1291459**	M6X1.0	50	115
KR-63-2	5/16-18	50	80	**1291460**	M6X1.0	60	137
1291451	5/16-18	60	110	**1291461**	M6X1.0	70	179
KR-63-4	5/16-18	70	160	**1291462**	5/16-18	30	85
Style B				**1291463**	5/16-18	40	160
KR-60-1	3/8-16	40	130	**1291464**	5/16-18	50	250
KR-60-2	3/8-16	50	250	**1291465**	5/16-18	60	340
KR-60-3	3/8-16	60	350	**1291466**	5/16-18	70	570
KR-60-4	3/8-16	70	480	**1291467**	M8X1.25	30	85
KR-60-11	1/2-20	40	130	**1291468**	M8X1.25	40	160
KR-60-22	1/2-20	50	250	**1291469**	M8X1.25	50	250
KR-60-33	1/2-20	60	350	**1291470**	M8X1.25	60	340
KR-60-44	1/2-20	70	480	**1291471**	M8X1.25	70	570
Style C				**1291472**	3/8-16	30	210
KR-69-1	3/8-16	30	160	**1291473**	3/8-16	40	340
KR-69-2	3/8-16	40	300	**1291474**	3/8-16	50	520
KR-69-3	3/8-16	50	470	**1291475**	3/8-16	60	680
KR-69-4	3/8-16	60	600	**Style D**			
KR-69-5	3/8-16	70	730	**KR-61-1**	1/2 Hole	40	375
Style C+				**KR-61-2**	1/2 Hole	50	800
1291452	1/4-20	30	46	**1291512**	1/2 Hole	60	925
1291453	1/4-20	40	87	**KR-61-4**	1/2 Hole	70	1,425
1291454	1/4-20	50	115	**Style E**			
1291455	1/4-20	60	137	**KR-62-1**	5/8 Hole	40	525
1291456	1/4-20	70	179	**KR-62-2**	5/8 Hole	50	1,000
1291457	M6X1.0	30	46	**KR-62-4**	5/8 Hole	70	1,950

VIBRATION MOUNTS

Cupmounts

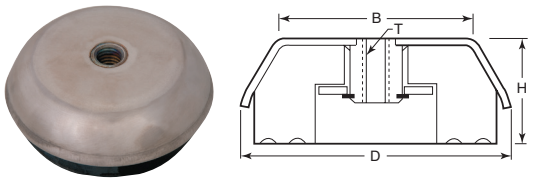


Industrial cupmounts provide excellent protection against severe impact shock, vibration and noise. High vibration dampening characteristics. Fail safe, rugged interlocking metal and neoprene construction. Metal cupmount is cold rolled steel. Low profile compact design. Metal top plate is domed shape to guard against oil contamination. High-grade neoprene elastomer provides resistance to oil and ozone.

Item No.	Max. Load in Lbs. Non-Impact Machinery	Impact Machinery	A	B	C	D	E	H	T
VP-41	400	250	6	2¾	5	3⅝	.39	1⅜	½-13
VP-42	700	450	6	2¾	5	3⅝	.39	1⅜	½-13
VP-43	1,400	900	7 11/16	4	6⅜	5 5/16	.55	1 11/16	⅝-11
VP-44	2,600	1,700	7 11/16	4	6⅜	5 5/16	.55	1 11/16	⅝-11

Stainless Steel
Compression/Shear Mounts for Harsh Environments

STAINLESS STEEL OPTION AVAILABLE

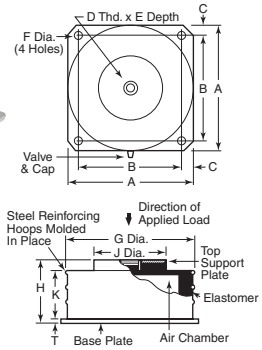


Compression/Shear mounts provide excellent protection against shock vibration and noise in compression and shear applications. Developed specially for applications in harsh working environments in food, pharmaceutical industries, or others where strict hygiene is required. High dampening characteristics. Stainless top plate is dome shaped to guard against oil contamination. Low profile, compact design. Elastomer insert is made from highly chemical resistant nitral with good deflection properties. Concentric rings on the base of the insert firmly anchor machine to the floor.

Item No.	Max. Load in Lbs. Non-Impact Machinery	Impact Machinery	B	D	H	T
VP-31	1,200	800	2¾	3⅝	1⅜	½-13
VP-33	2,800	1,800	4	5 5/16	1 11/16	⅝-11

Pneumatic Elastomeric



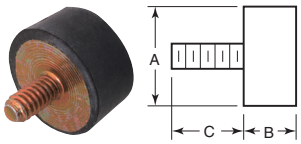


This machinery mount is a pneumatic elastomeric mount, well-suited for applications requiring higher deflection isolators. Vibration can be reduced as much as 90%. The high stability horizontal to vertical stiffness ratio is one-to-one, insuring excellent stability without the need for lateral restraints. Because the heavy wall construction is an integral part of the system, when significant shock forces are applied, the mount deflects and the shock load is transferred to the outer wall. Will not bottom-out if properly installed. Will continue to support and isolate even with no air pressure. Leveling the machine is easily accomplished by adding or releasing air.

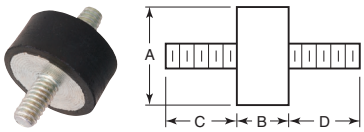
Item No.	Load Range Lbs.	A	B	C	D	E	F	G	H	J	K	T	Weight Lbs.
SLM-1	20-100	3.0	2.38	.31	⅜-16	.47	.27	2.89	2.5	1.09	1.94	.12	1
SLM-3	100-300	4.19	3.5	.34	½-13	.54	.29	4.14	2.5	2.06	1.94	.12	1½
SLM-6	300-550	5.13	4.25	.44	½-13	.54	.29	4.99	3.5	2.38	2.94	.12	3¼
SLM-12	500-1,200	6.88	6	.44	½-13	.54	.29	6.74	3.5	3.75	2.94	.12	5½
SLM-24	1,200-2,400	10	8.5	.75	⅝-11	.75	.56	9.66	3.5	5.44	2.94	.19	13
SLM-48	1,200-4,800	13.5	12	.75	⅝-11	.75	.56	13.31	3.5	8	2.94	.19	26
SLM-96	2,400-9,600	18.5	16	1.25	1-14	.88	.81	18.44	3.5	11.75	2.94	.25	57

Note: Dimension H +/- ¼ inch = Inflated loaded height for steady force application

Natural Rubber
Inch and Metric



Single End Male



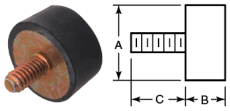
Double End Male/Male

Item No.	A	B	C	Approx. D	Thread
Single End - Male - Inch					
VM-184-1	1	½	½	—	¼-20
VM-147-1	1	¾	½	—	¼-20
VM-144-1	1	1	⅝	—	5/16-18
VM-1249-1	1½	¾	⅝	—	5/16-18
VM-136-1	1 9/16	1	⅝	—	5/16-18
VM-137-1	1 9/16	1	⅝	—	⅜-16
VM-175-1	2	¾	1⅛	—	⅜-16
VM-165-1	2	1⅝	⅝	—	⅜-16
Double End - Male/Male - Inch					
VM-80-1	⅜	½	½	½	8-32
VM-10	9/16	½	⅜	⅜	10-32
VM-82-1	⅝	½	½	½	8-32
VM-46-1	¾	¾	½	½	¼-20
VM-20	1	½	½	½	¼-20

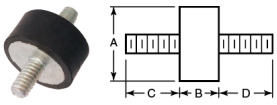
Item No.	A	B	C	Approx. D	Thread
Double End - Male/Male - Inch					
VM-47-1	1	¾	½	½	¼-20
VM-40	1	¾	⅝	⅝	¼-20
VM-474-1	1	¾	⅝	⅝	5/16-18
VM-74-1	1	1	½	½	¼-20
VM-44-1	1	1	⅝	⅝	5/16-18
VM-48-1	1¼	¾	½	½	¼-20
1291396	1¼	¾	⅝	⅝	5/16-18
VM-50	1¼	¾	⅝	⅝	5/16-18
VM-42-1	1¼	1	⅝	⅝	5/16-18
VM-43-1	1⅜	1	⅝	⅝	5/16-18
VM-60	1⅜	1	¾	¾	5/16-18
VM-249-1	1½	¾	⅝	⅝	5/16-18
VM-70	1½	1	⅝	⅝	⅜-16
VM-36-1	1 9/16	1	⅝	⅝	5/16-18
VM-37-1	1 9/16	1	⅝	⅝	⅜-16
VM-75-1	2	¾	1⅛	1⅛	⅜-16
VM-65-1	2	1⅝	⅝	⅝	⅜-16
VM-78-1	2 1/16	1¼	⅞	⅞	½-13
VM-72-1	3⅛	2¼	1¼	1¼	½-13

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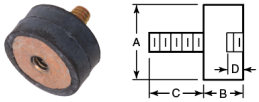
VIBRATION MOUNTS



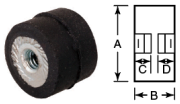
Single End Male



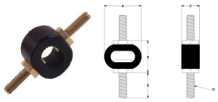
Double End Male/Male

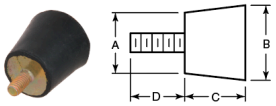


Double End Male/Female

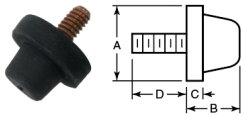


Double End Female/Female


Ring Mounts



Conical Single End Male



Special Purpose

Designed to absorb the transmission of vibration and noise between a piece of equipment and whatever it is mounted on. Made of natural rubber with bonded in studs and inserts. 50 durometer for use up to 150 degrees Fahrenheit. Metric dimensions are in millimeters.

Item No.	A	B	C	Approx. D	Thread	Load Lbs. Comp.	Load Lbs. Shear
Double End - Male/Female - Inch							
VM-83-1	5/8	1/2	1/2	0.18	8-32	20	3
VM-85-1	1	1/2	1/2	0.18	1/4-20	75	25
VM-475-1	1	3/4	1/2	0.18	1/4-20	50	15
VM-745-1	1	1	1/2	0.18	1/4-20	55	8
VM-41-1	1	1	5/8	0.20	5/16-18	55	8
VM-434-1	1 3/8	1	5/8	0.20	5/16-18	80	15
VM-66-1	2	1 5/8	5/8	0.45	3/8-16	165	55
VM-77-1	2	2	1 1/8	0.45	3/8-16	165	45
VM-725-1	3 1/8	2 1/4	1 1/4	0.54	1/2-13	720	140
Double End - Female/Female - Inch							
VM-87-1	5/8	1/2	0.18	0.18	8-32	25	5
VM-40-1	1	1	0.20	0.20	5/16-18	55	8
VM-35-1	1 1/2	1	0.20	0.20	5/16-18	170	40
VM-64-1	2	1 5/8	0.45	0.45	3/8-16	165	55
Conical Single End - Male - Inch							
VM-130-1	1 3/16	1 1/2	1 1/2	5/8	5/16-18	75	—
VM-133-1	1 3/8	1	1	5/8	5/16-18	80	—
Special Purpose - Inch							
VM-171-1	15/16	0.65	1/4	1/2	1/4-20	20	—
Single End - Male - Metric							
VM-184-1M	25	13	13	-	M6 x 1.0	50	15
VM-147-1M	25	19	13	-	M6 x 1.0	50	9
VM-144-1M	25	25	16	-	M8 x 1.25	45	8
VM-1249-1M	38	19	16	-	M8 x 1.25	110	18
VM-136-1M	40	25	16	-	M8 x 1.25	125	20
VM-137-1M	40	25	16	-	M10 x 1.5	125	20
VM-175-1M	51	19	29	-	M10 x 1.5	370	90
VM-165-1M	51	41	16	-	M10 x 1.5	165	55
Double End - Male/Male - Metric							
VM-80-1M	10	13	13	13	M4 x 0.7	7	.75
VM-82-1M	16	13	13	13	M4 x 0.7	20	3

Item No.	A	B	C	Approx. D	Thread	Load Lbs. Comp.	Load Lbs. Shear
VM-46-1M	19	19	13	13	M6 x 1.0	40	6
VM-47-1M	25	19	13	13	M6 x 1.0	50	9
VM-474-1M	25	19	16	16	M8 x 1.25	50	9
VM-74-1M	25	25	13	13	M6 x 1.0	45	8
VM-44-1M	25	25	16	16	M8 x 1.25	45	8
VM-50M	32	19	16	16	M8 x 1.25	60	18
VM-42-1M	32	25	16	16	M8 x 1.25	70	12
VM-43-1M	35	25	16	16	M8 x 1.25	80	15
VM-249-1M	38	19	16	16	M8 x 1.25	110	18
VM-36-1M	40	25	16	16	M8 x 1.25	125	20
VM-37-1M	40	25	16	16	M10 x 1.5	125	20
VM-75-1M	51	19	29	29	M10 x 1.5	370	90
VM-72-1M	79	57	35	35	M12 x 1.75	720	140
Double End - Male/Female - Metric							
VM-83-1M	16	13	13	5	M4 x 0.7	20	3
VM-85-1M	25	13	13	5	M6 x 1.0	75	25
VM-475-1M	25	19	13	5	M6 x 1.0	50	15
VM-745-1M	25	25	13	5	M6 x 1.0	55	8
VM-41-1M	25	25	16	5	M8 x 1.25	55	8
VM-434-1M	35	25	16	5	M8 x 1.25	80	15
VM-66-1M	51	41	16	11	M10 x 1.50	165	55
VM-77-1M	51	51	29	11	M10 x 1.50	165	45
VM-725-1M	79	57	32	14	M12 x 1.75	720	140
Double End - Female/Female - Metric							
VM-87-1M	16	13	5	5	M4 x 0.7	25	5
VM-40-1M	25	25	5	5	M8 x 1.25	55	8
VM-35-1M	38	25	5	5	M8 x 1.25	170	40
VM-64-1M	51	41	11	11	M10 x 1.50	165	55
Conical Single End - Male - Metric							
VM-130-1M	30	38	38	16	M8 x 1.25	75	—
VM-133-1M	35	25	25	16	M8 x 1.25	80	—
Special Purpose - Metric							
VM-171-1M	24	17	6	13	M6 x 1.0	20	—

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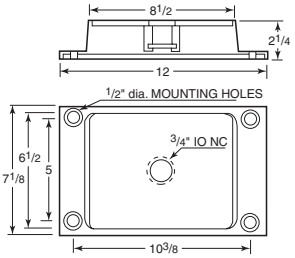
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VIBRATION MOUNTS

Rectangular Mounts



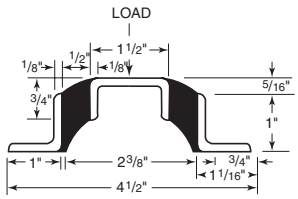


Consists of rectangular elastomer component bonded with two steel plates. Low installation height provides good stability. Effectively isolates against horizontal and vertical vibrations. Has high deflection capacity in horizontal direction while deflection is low in vertical. Oil and grease resistant. Meets OSHA anchoring standards. Ideally suited for presses, blowers, pumps, vibrators, rolling mills, crushers, etc.

Item No.	Max. Load Lbs.
VP-20	10,000
VP-25	15,000

Vibro-Insulator Strips

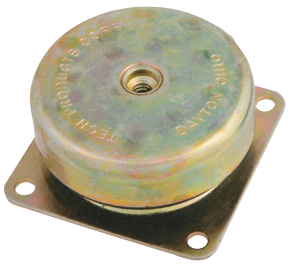


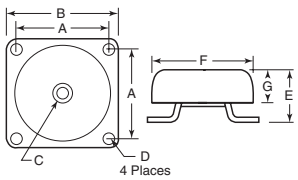


A continuous strip that has rubber elements. Elastomer is 50 durometer neoprene. Maximum recommended deflection is 3/16 inch which occurs at 50 lbs. per linear inch. Available in 4 inch, 12 inch, 24 inch and 30 inch lengths. Can be cut to meet your applications.

Item No.	Lgth.	Max. Load Lbs.
VM-104	4	200
VM-112	12	600
VM-124	24	1,200
VM-130	30	1,500

Industrial Cupmounts



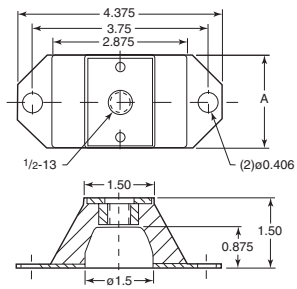


Cupmounts combine protection against severe impact shock with efficient vibration isolation characteristics at frequencies above 40Hz. Can be mounted in any orientation for protection of sensitive electronic, electrical and mechanical equipment from high impact shocks.

Item No.	Load Range Lbs.	A	B	C	D	Approx. E	F	G
BCM-1010	10-20	1.94	2.38	1/4-20	.196	1.13	2.28	.69
BCM-1015	20-40	1.94	2.38	1/4-20	.196	1.13	2.28	.69
BCM-1035	35-70	1.94	2.38	1/4-20	.196	1.13	2.28	.69
BCM-1050	70-140	1.94	2.38	1/4-20	.196	1.13	2.28	.69
BCM-2060	50-150	2.50	3.00	3/8-16	.266	1.50	3.00	1.00
BCM-2090	90-250	2.50	3.00	3/8-16	.266	1.50	3.00	1.00

Compression Mounts





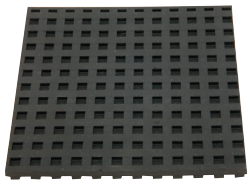
These mounts are normally used for vertically applied loads to prevent the transmission of noise and vibration caused by rotation of imbalanced equipment. Made with durable oil and ozone resistant neoprene. No special tools required for installation.

Item No.	Load Range Lbs.	A
BCM-60	40-60	2
BCM-100	50-100	2
BCM-130	60-130	2
BCM-200	80-200	4
BCM-260	110-260	4

Neoprene Pad Mounts



Ribbed



Waffle

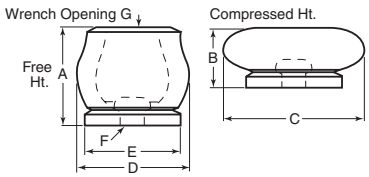
Provides a versatile, inexpensive way to isolate shock, vibration and reduce noise levels. Simply lift the machine and slide the pads under each foot. They provide firm footing to both floor and equipment. Ribbed pads allow them to be stacked with the ribs at 90 degree angles to each other or nested rib in groove. Ribbed pads are scored in 2" squares for easy cutting. Oil resistant.

Item No.	Type	Size	Load Range psi	Thickness
PM-1*	Ribbed	4 x 4	1-25	5/16
PM-5	Waffle	6 x 6	1-25	5/16
PM-6	Waffle	6 x 6	10-50	5/16
PM-7	Waffle	6 x 6	40-100	5/16
PM-8	Waffle	6 x 6	80-200	1/2
PM-9	Waffle	6 x 6	150-300	1/2
PM-2*	Ribbed	12 x 12	1-25	5/16
PM-13	Waffle	18 x 18	50-200	1/2
PM-3*	Ribbed	24 x 24	1-25	5/16

VIBRATION MOUNTS

Elastomer bumpers provide excellent resistance to chemicals and humidity. Durability is 20 times greater than urethane, 10 times greater than rubber and 500 times greater than coiled steel springs. Maintains excellent resilience at extreme temperatures and remains flexible with no material degradation between -80 and +300 degree Fahrenheit. Mounting screws not included.





High Energy Absorption
High Compact Size, Short Stroke

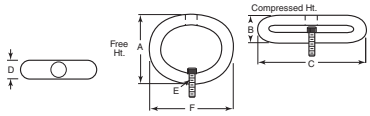
Item No.	Max. Comp. In. Lbs.	Peak Dynamic Force	A	B	C	D	E	Mounting Hole F	Wrench Opening G
GBA-1	100	700	¾	7/16	1⅛	⅞	¾	5/16	7/16
GBA-2	250	1,200	1	9/16	1 7/16	1⅛	1	5/16	9/16
GBA-3	400	2,000	1 3/16	11/16	1¾	1⅜	1 3/16	5/16	11/16
GBA-4	550	2,400	1 5/16	11/16	1⅞	1½	1 5/16	5/16	¾
GBA-5	700	2,500	1⅜	13/16	2	1 9/16	1⅜	5/16	13/16
GBA-6	900	3,600	1½	13/16	2 3/16	1 11/16	1½	7/16	13/16
GBA-7	1,100	3,300	1⅝	15/16	2⅜	1⅞	1⅝	9/16	15/16
GBA-8	1,400	3,800	1¾	1	2½	2	1¾	9/16	1
GBA-9	1,700	6,000	1⅞	1	2 11/16	2⅛	1⅞	9/16	1 1/16
GBA-10	2,000	5,000	2 1/16	1⅛	2⅞	2⅛	2	9/16	1 3/16
GBA-11	2,500	5,300	2 3/16	1 3/16	3 1/16	2 1/16	2⅛	9/16	1¼
GBA-12	3,000	6,100	2 5/16	1 5/16	3¼	2 9/16	2¼	9/16	1 5/16
GBA-13	3,600	6,600	2⅜	1¼	3 7/16	2 11/16	2⅜	9/16	1⅜
GBA-14	4,000	7,500	2 9/16	1 7/16	3⅝	2⅞	2½	13/16	1 7/16
GBA-16	6,000	8,700	2 15/16	1⅝	4⅛	3 5/16	2⅞	13/16	1 11/16
GBA-19	10,000	14,000	3 1/16	1 15/16	4⅞	3⅞	3⅜	13/16	1 15/16
GBA-20	17,000	18,500	3⅞	2⅛	5¾	4 9/16	3 15/16	13/16	2¼

Medium Energy Absorption
Low Reaction Force

Item No.	Max. Comp. In. Lbs.	Peak Dynamic Force	A	B	C	D	E	Mounting Hole F	Wrench Opening G
GBA-101S	50	300	13/16	7/16	1⅛	13/16	¾	5/16	½
GBA-102S	100	400	1 1/16	9/16	1 7/16	1 1/16	1	5/16	⅝
GBA-103S	200	600	1¼	1 1/16	1¾	1¼	1 3/16	5/16	¾
GBA-104S	250	700	1 7/16	1 1/16	1⅞	1⅜	1 5/16	5/16	⅞
GBA-105S	300	900	1½	1 3/16	2	1½	1⅜	7/16	1 3/16
GBA-107S	550	1,300	1¾	1 5/16	2⅜	1¾	1⅝	9/16	1
GBA-108S	700	1,600	1⅞	1	2 9/16	1⅞	1¾	9/16	1 1/16

Low Energy Absorption
Longer Stroke, Soft Stop



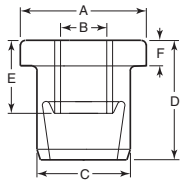


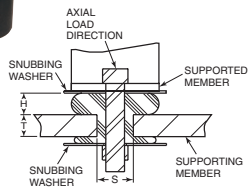
Item No.	Max. Comp. In. Lbs.	Peak Dynamic Force	A	B	C	D	Mounting Hole E	F
GBR-1	10	75	1	⅜	1 7/16	½	7/32	1⅛
GBR-2	20	100	1¼	½	1⅞	¾	7/32	1 7/16
GBR-3	30	150	1½	9/16	2¼	1 3/16	7/32	1 11/16
GBR-4	50	200	1 11/16	7/16	2 1/16	1⅜	7/32	1 15/16
GBR-5	100	300	2⅛	9/16	3⅜	1¾	7/32	2½
GBR-6	200	475	2¼	15/16	3 7/16	1 13/16	7/32	2⅝
GBR-7	300	600	2⅝	1⅛	3 15/16	1 13/16	9/32	3
GBR-8	400	725	2 13/16	1 13/16	4¼	2	9/32	3¼

Bonded Mounts

These one piece mounts protect against shock and vibration. Designed for multi-directional vibration isolation, shock attenuation and noise reduction due to structure borne vibrations. These one piece, fail safe mounts (when used with recommended snubbing washers) are easy to install and provide consistent performance. The resilient material is natural rubber. Core is steel. Temperature range is -40 to +180 degree Fahrenheit and is ozone resistant. The use of the snubbing washers listed below is recommended to ensure proper static and dynamic loading of the isolator and the supported equipment under severe shock environments. Snubbing washers are made from low carbon steel with zinc plate. Bolt not included with mount. Recommended bolt grade 8 or better.





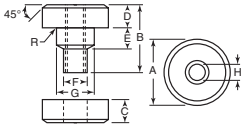


Mount Item No.	Head Washer Item No.	Tail Washer Item No.	Max. Static Load Lbs.	A	B	C	D	E	F	H	S	T	Bolt Size
BBM-5	BBM-105	BBM-135	75	1.09	.4	.81	1.02	.62	.22	.21	.75	.31	⅜
BBM-10	BBM-105	BBM-135	125	1.09	.4	.81	1.02	.62	.22	.21	.75	.31	⅜
BBM-15	BBM-110	BBM-140	250	1.75	.532	1.24	1.25	1	.41	.38	1.12	.38	½
BBM-20	BBM-110	BBM-140	450	1.75	.532	1.24	1.25	1	.41	.38	1.12	.38	½
BBM-25	BBM-115	BBM-145	350	2	.532	1.35	1.62	1.31	.53	.45	1.25	.62	½
BBM-30	BBM-115	BBM-145	600	2	.532	1.35	1.62	1.31	.53	.45	1.25	.62	½
—	—	—	500	2.5	.648	1.62	2	1.69	.62	.56	1.5	.75	⅝
BBM-40	—	—	1,000	2.5	.648	1.62	2	1.69	.62	.56	1.5	.75	⅝
BBM-50	—	BBM-155	1,400	2.98	.648	1.98	2.22	2	.81	.71	1.81	.93	⅝
BBM-60	—	—	1,400	3.74	.803	2.23	2.48	2	1	.75	2	.94	¾

Center Bonded Mounts
Two Piece - Neoprene







Designed for heavy duty applications where there are dynamic forces in multiple directions. These are two-piece installed through a mounting hole in a support structure. The mounts are fail safe when used with snubbing washers. Snubbing washers not supplied. 50 durometer.

Item No.	Support Structure	Max. Deflector (Lbs.) Axial	Radial	A	B	C	D	E	F	G	H	R
VM-190-2	.38	90	55	1.31	1.25	.485	.485	.38	.58	.79	.39	.04
VM-190-3	.5	150	80	1.88	1.94	.78	.78	.5	.83	1.3	.53	.06
VM-190-4	.75	280	180	2.55	2.45	.9	.9	.75	.97	1.58	.657	.09
VM-190-5	1	430	210	3.5	2.9	1	1	1	1.37	2.3	.938	.12

TOOLING AND POSITIONING

Work Supports, Rest Pads & Tooling Ball Pads, Rest Buttons

Pg. 336-339



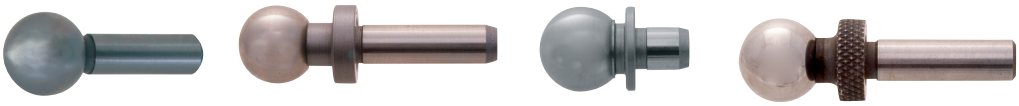
Pins and Retainers

Pg. 340



Tooling & Construction Balls / Fixture & Checking Balls / Mounting

Pg. 341-343



Ball Lock Mounting / Pins, Bushings, Liners

Pg. 344-346



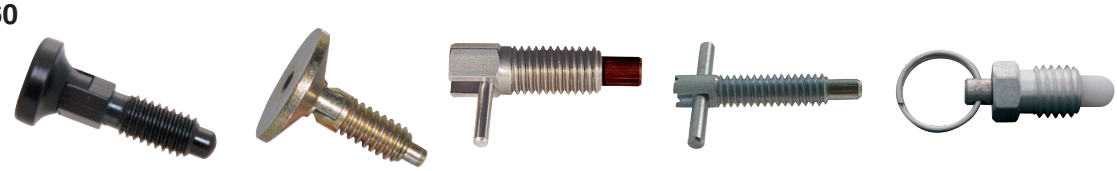
Spring Plungers / Press-Fit Spring Plungers

Pg. 348-353



Hand Retractable Spring Plungers

Pg. 354-360



Indexing Plungers

Pg. 361-368



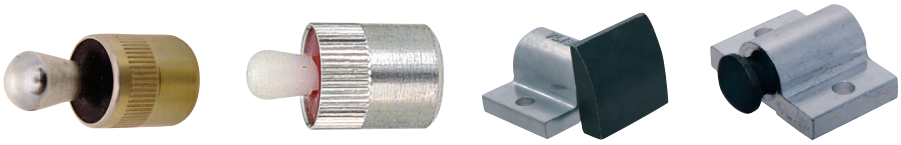
Push-Fit Ball Plungers / Ball Plungers

Pg. 369-374



Spring Locating Pins & Spring Stops

Pg. 375-376



Spring Loaded Catches

Pg. 378



Torque Handles, Thumb Screws & Inserts

Pg. 380-382



Grippers, Rest Pads

Pg. 382-387



T-Slot Bolts, Nuts, Washers & Accessories

Pg. 388-395



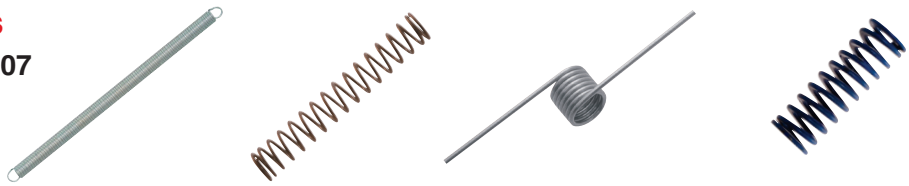
Clamping Kits, Rod Ends, Eye Bolts & Set-Up Studs

Pg. 396-398



Springs

Pg. 400-407

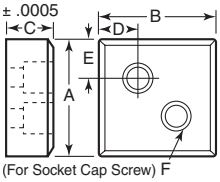


REST PADS & TOOLING BALL PADS

Made of cold finished steel, carburized and hardened. Thickness ground to size +/-.0005. Black oxide finish. Many applications on jig and fixture work.

Rest Pads
Standard Duty

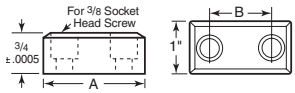




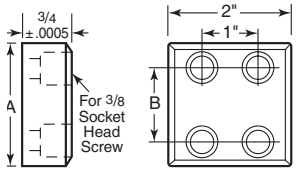
Item No.	A	B	C	D	E	F
JRP-1	1	1	.3125	5/16	5/16	#10
JRP-2	1¼	1¼	.3750	3/8	3/8	¼
JRP-3	1½	1½	.4375	7/16	7/16	¼
JRP-4	1¾	1¾	.5000	½	½	5/16

Rest Pads
Standard Duty





JRP-5 thru JRP-10



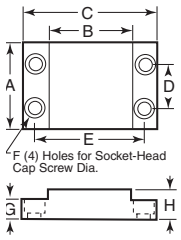
JRP-11* thru JRP-16

Item No.	A	B	Item No.	A	B
JRP-5	2	1¼	JRP-11*	2	1¼
JRP-6	2⅜	1⅝	JRP-12	3	2¼
JRP-7	3	2¼	JRP-13	3⅜	2⅝
JRP-8	4	3¼	JRP-14	4	3¼
JRP-9	5	4¼	JRP-15	5	4¼
JRP-10	6	5¼	JRP-16	6	5¼

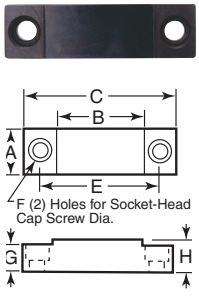
*JRP-11 has two diagonal holes upper right and lower left.

Rest Pads
Heavy Duty





Square



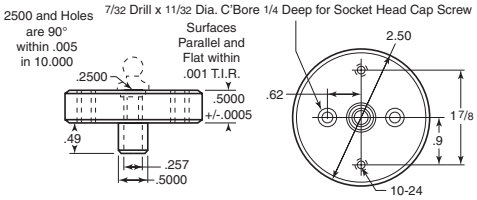
Rectangular

These rest pads have a large surface plate to support heavy work pieces. Many applications for heavy duty jig and fixture work. Made of 10-18 steel, carburized and hardened, with black oxide finish.

Item No.	A	B	C	D	E	F	G	+.0005/ -.0000 H
Square								
JRP-20	2	2	3¼	1	2½	¼-20 or M6	½	.7500
Rectangle								
JRP-21	1	2	3½	—	2¾	5/16-18 or M8	5/8	.7500
JRP-22	1	3	4½	—	3¾	5/16-18 or M8	5/8	.7500
JRP-23	1	4	5½	—	4¾	5/16-18 or M8	5/8	.7500

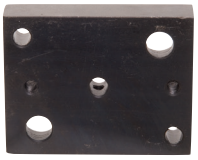
Round Tooling Pad

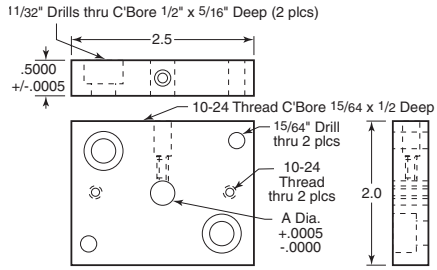




Item No.	MFG #	Description
UB-7825	UDB-919078	Round Tooling Pad

Square Tooling Pads
United Drill Bush

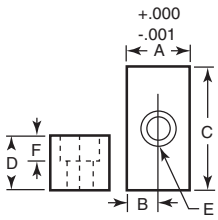




Item No.	MFG #	A
UB-7625	UDB-91907625	.2500
UB-7637	UDB-91907637	.3750

Fixture Keys - Plain
Reid Select





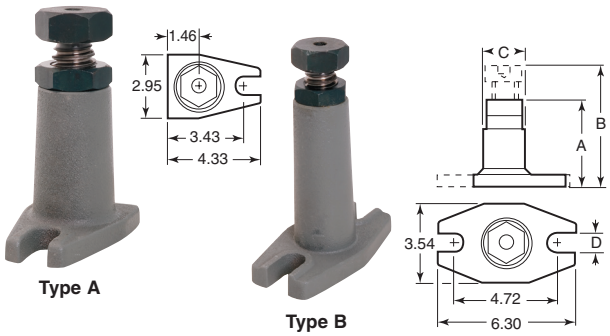
These fixture keys are hardened and precision ground. Made of cold finished steel with black oxide finish. Many applications on jig and fixture work.

Item No.	+.000/-.001 A	B	C	D	Screw Size E	F
FK-1	.5000	¼	¾	½	#10	7/32
FK-2	.5625	9/32	¾	½	¼	9/32
FK-3	.6250	5/16	¾	½	¼	9/32
FK-3L	.6250	5/16	1	½	¼	9/32
FK-4	.6875	11/32	1	½	¼	9/32
FK-4L	.6875	11/32	1¼	½	¼	9/32
FK-5	.7500	⅜	1¼	⅝	5/16	⅜
FK-6	.8125	13/32	1¼	⅝	5/16	⅜

Customer Service: (800) 253-0421 • (231) 777-3951

Jack Screws Extra Height

AMF



Used to support items where extended height would be a factor. Spindle is tempered steel with trapezoidal thread and varnished finish. Housing is cast iron with varnished finish. Centering hole diameter is 12mm with a counter nut.

Item No.	MFG #	Type	A	B	C	D	Max. Load Lbs.
AMF-49	72561	A	5.51	7.87	1.97	.71	13,488
AMF-50	72579	B	7.87	12.60	1.97	.87	8,992

Used to adjust items being held in place by jack screws. Pad is held on jack screw by a 12mm dia. centering hole. Pads are tempered steel with a burnished finish.

Jack Screw Accessories - Ball Pad

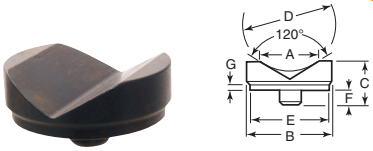
AMF



Item No.	MFG #	A	B	C	D	E	F
AMF-51	72710	1.46	1.38	.71	.32	.12	1.97

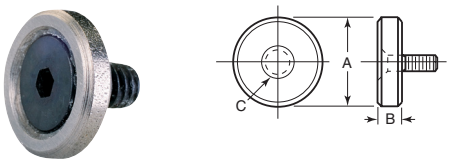
Jack Screw Accessories - Vee Pad

AMF



Item No.	MFG #	A	B	C	D Min.	D Max	E	F	G
AMF-52	72728	1.26	1.77	.91	.39	1.97	1.65	.32	.12

Flat Feet



Perfect for many jig and fixture applications because of their large diameter and thin cross section. Made of ledloy and heat treated. Cap screw included. Metric dimensions are in millimeters.

Item No.	MFG #	A	B	Screw C	Item No.	MFG #	A	B	Screw C
Inch					**Metric**				
JFF-19301	19301	½	⅛	8-32 x ⅜	**JFF-19351**	19351	13	3	M4 x 10
JFF-19302	19302	½	¼	8-32 x ½	**JFF-19352**	19352	13	6	M4 x 12
JFF-19303	19303	⅝	¼	10-32 x ⅝	**JFF-19353**	19353	16	6	M5 x 16
JFF-19304	19304	⅞	⅜	¼-20 x ¾	**JFF-19354**	19354	22	10	M6 x 20
JFF-19305	19305	1¼	⅜	5⁄16-18 x ¾	**JFF-19355**	19355	31	10	M8 x 20
JFF-19306	19306	1⅝	⅜	⅜-16 x ¾					

Note: Inch tolerance for dimension "B" is +.0005/-.000. Metric tolerance for dimension "B" is +.013/-.000

Mitutoyo

ABSOLUTE Digimatic Indicators

NEW PART# MI-543-783B-10

Replaces MI-543-783B

Same Great Indicator - with New Updated Part Number

TYPICALLY IN-STOCK SHIPS SAME-DAY!



- Measuring range (½”/12.7mm)
- Resolution (.0005”/0.01mm)
- Accuracy (±.0010”)
- 1 YEAR WARRANTY

Accredited Calibration Available*

**Additional charge(s) will apply.*

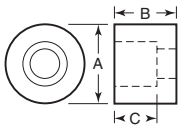
REST BUTTONS

Rest Buttons
Circular Type - Inch and Metric

S&W MANUFACTURING

Used for locating parts in jigs and fixtures.





Item No.	MFG #	Screw Size	A	B	C
Inch					
RB-1	**CF-1**	#10	1/2	.3125	7/32
RB-1L	**CF-1L**	#10	1/2	.5000	7/32
RB-2	**CF-2**	1/4	5/8	.4375	9/32
RB-2L	**CF-2L**	1/4	5/8	.6250	9/32
RB-3	**CF-3**	5/16	3/4	.5000	3/8
RB-3L	**CF-3L**	5/16	3/4	.7500	3/8
RB-4	**CF-4**	3/8	15/16	.6250	7/16
RB-5	**CF-5**	1/2	1 1/4	.8750	9/16
RB-6	**CF-6**	5/16	3/4	.6250	3/8
RB-7	**CF-7**	3/8	15/16	.7500	7/16
RB-8	**CF-8**	3/8	15/16	.8750	7/16
RB-9	**CF-9**	3/8	15/16	1.0000	7/16

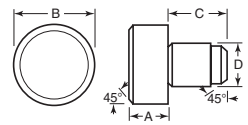
Item No.	MFG #	Screw Size	A	B	C
Metric					
RB-15	25751	M6 x 1.00	16	10	7
RB-16	25752	M6 x 1.00	16	12	7
RB-17	25754	M6 x 1.00	16	20	7
RB-18	25757	M8 x 1.25	22	12	9
RB-19	25759	M8 x 1.25	22	20	9
RB-20	25761	M8 x 1.25	22	24	9
RB-21	25766	M10 x 1.50	31	25	11

Note: Inch sizes are made of cold finished steel, carburized and hardened with black oxide finish. "B" dimension on the inch sizes is ground top and bottom +.001/-.000
Note 2: Metric sizes are made of low carbon steel, case hardened with black oxide finish. Tolerance on "B" dimension of metric sizes is +.013/-.000 mm. Socket head cap screw is included with metric sizes only. Metric dimensions are in millimeters.

Rest Buttons Press Fit Type - Inch

S&W MANUFACTURING





Made of cold finished steel. Carburized, hardened. Black oxide finish. Many applications on jig and fixture work.

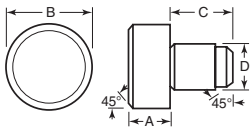
Item No.	MFG #	A	B	C	+.001/-.0005 D
PF-1T	—	1/4	3/8	3/8	.1885
PF-2T	—	3/8	3/8	3/8	.1885
PF-3T	**19112**	1/2	3/8	3/8	.1885
PF-1S	—	1/4	1/2	1/2	.2510
PF-2S	—	3/8	1/2	1/2	.2510
PF-3S	—	1/2	1/2	1/2	.2510
PF-1	**RPF-1**	1/4	5/8	1/2	.3760
PF-2	**RPF-2**	3/8	5/8	1/2	.3760
PF-3	**RPF-3**	1/2	5/8	1/2	.3760
PF-4	**RPF-4**	5/8	5/8	1/2	.3760
PF-5	**RPF-5**	3/4	5/8	1/2	.3760
PF-6	**RPF-6**	1	5/8	1/2	.3760
PF-7*	**RPF-7**	1 1/4	5/8	1/2	.3760
PF-8*	**RPF-8**	1 1/2	3/4	1/2	.5010

* Tolerance on "D" dimension for PF-7 and PF-8 is +/-.0005".

Rest Buttons Press Fit Type - Metric

Garfield Metal





Item No.	MFG #	A	B	C	+.013/-.000 D
PF-21	**45774**	6	13	12	6
PF-22	**45777**	6	16	12	10
PF-23	**45778**	10	16	12	10
PF-24	**45780**	12	16	12	10
PF-25	**45786**	16	22	14	12

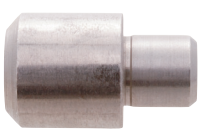
Made of 52100 steel, case hardened with black oxide finish. "A" dimension is +.25/+.38mm so that it can be ground after fixture is assembled.

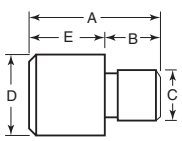
Note: Dimensions are in millimeters.

Rest Buttons
Press Fit Type - Stainless Steel

Morton Machine

Made from 303 stainless steel.





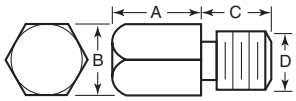
Item No.	MFG #	A	B	C	D	E
PF-105	**2375**	1/2	1/4	3/16	3/8	1/4
PF-110	**2376**	5/8	1/4	3/16	3/8	3/8
PF-115	**2377**	3/4	1/4	3/16	3/8	1/2
PF-120	**2503**	9/16	5/16	1/4	1/2	1/4
PF-125	**2504**	11/16	5/16	1/4	1/2	3/8
PF-130	**2505**	13/16	5/16	5/16	1/2	1/2
PF-135	**2506**	1 1/16	5/16	5/16	1/2	3/4
PF-140	**2507**	1 5/16	5/16	5/16	1/2	1

Rest Buttons
Hex Head Threaded Type - Inch

Morton Machine Works

S&W Manufacturing



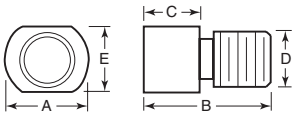


Easy to install. Body length held. Shoulder is square with threads. Improves appearance of jig or fixture on which they are used. Cold finished steel, hardened and black oxide coated.

Item No.	MFG #	A	B	C	D	Item No.	MFG #	A	B	C	D
Fine Thread - Class 2A Fit						Coarse Thread - Class 1A Fit					
JF-1	HJF-1	½	⅜	⅜	¼-28	JF-13	SRB-3775	¾	⅜	⅜	¼-20
JF-2	HJF-2	¾	⅜	⅜	¼-28	JF-14	SRB-3710	1	⅜	⅜	¼-20
JF-3	HJF-3	1	⅜	⅜	¼-28	JF-15	SRB-5025	¼	½	½	⅜-16
JF-4	HJF-4	½	½	½	⅜-24	JF-16	SRB-5037	⅜	½	½	⅜-16
JF-5	HJF-5	¾	½	½	⅜-24	JF-17	SRB-5050	½	½	½	⅜-16
JF-6	HJF-6	1	½	½	⅜-24	JF-18	SRB-5075	¾	½	½	⅜-16
JF-7	HJF-7	½	⅝	½	½-20	JF-19	SRB-5010	1	½	½	⅜-16
JF-8	HJF-8	¾	⅝	½	½-20	JF-20	SRB-6225	¼	⅝	⅝	½-13
JF-9	HJF-9	1	⅝	½	½-20	JF-21	SRB-6237	⅜	⅝	⅝	½-13
Coarse Thread - Class 1A Fit						JF-22	SRB-6250	½	⅝	⅝	½-13
JF-10	SRB-3725	¼	⅜	⅜	¼-20	JF-23	SRB-6262	⅝	⅝	⅝	½-13
JF-11	SRB-3737	⅜	⅜	⅜	¼-20	JF-24	SRB-6275	¾	⅝	⅝	½-13
JF-12	SRB-3750	½	⅜	⅜	¼-20	JF-25	SRB-6210	1	⅝	⅝	½-13

Rest Buttons
Flat Head Threaded Type - Metric





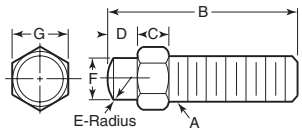
Made of low carbon steel, case hardened and black oxide coated. Class 6g thread. "C" dimension left with .25mm to .38mm for finishing after assembly. Dimensions are in millimeters.

Item No.	A mm	B mm	C mm	D mm	Across Flats E mm
JF-30	9	14	6	M6 x 1.00	8
JF-35	13	17	6	M10 x 1.50	10
JF-40	16	24	10	M12 x 1.75	14
JF-45	25	30	12	M16 x 2.0	20

Locating Screws
Threaded Adjustable

Actek





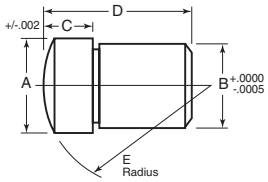
Item No.	MFG #	A	B	C	D	E	F	G
ALB-575	21401	10-32	1	⅛	⅛	⅛	3⁄16	¼
ALB-580	21402	¼-28	1½	3⁄16	3⁄16	3⁄16	¼	⅜
ALB-585	21404	⅜-24	2	¼	¼	¼	⅜	½
ALB-590	21405	½-20	2½	5⁄16	5⁄16	5⁄16	½	⅝
ALB-595	21406	⅝-18	3	⅜	⅝	⅝	⅝	¾

Adjustable locating screws are used together or in combination with fixed locating pins to accurately position work piece in jig or fixture. Heat treated steel. Black oxide finish.

Locating Buttons
Spherical - Press Fit

Reid Select





Provides a single point contact for support of surfaces that are not perpendicular to vertical axis of button. Heat treated and ground. Black oxide finish.

Item No.	A	B	C	D	E
SLB-25	5⁄16	.1890	⅛	⅜	½
SLB-27	⅜	.2515	3⁄16	½	⅝
SLB-29	½	.3765	3⁄16	9⁄16	¾
SLB-31	½	.3765	¼	⅝	¾
SLB-33	½	.3765	⅜	¾	¾
SLB-35	½	.3765	½	⅞	¾

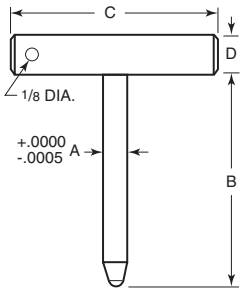
PINS & RETAINERS

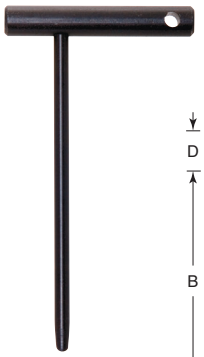
T And L Pins

United Drill Bush

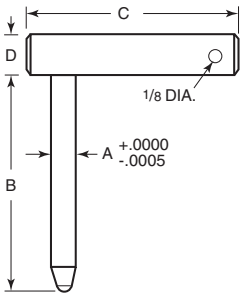


T-Pin





L-Pin



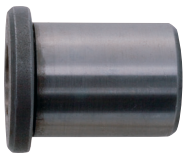
T-Pins and L-Pins are designed to be used as a removable locating device for precision alignment of work piece in jigs and fixtures. Heat treated steel. Black oxide finish.

Steel cable assemblies available; see page 546.

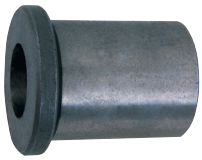
T-Pin Item No.	MFG #	L-Pin Item No.	MFG #	+.0000/-.0005 A	B	C	D
PNT-1	24201	PNL-1	24001	.1250	2½	1½	¼
PNT-2	24202	PNL-2	24002	.1875	3	2½	5/16
PNT-3	24203	PNL-3	24003	.1875	6	2½	5/16
PNT-7	24207	PNL-7	24007	.2500	3	2½	⅜
—	—	PNL-8	24008	.2500	4	2½	⅜
PNT-9	24209	PNL-9	24009	.2500	6	2½	⅜
PNT-11	24211	PNL-11	24011	.3125	3½	3	7/16
PNT-12	24212	PNL-12	24012	.3125	6	3	7/16
PNT-14	24214	PNL-14	24014	.3750	6	3½	½
PNT-15	24215	PNL-15	24015	.4375	4	3½	9/16
PNT-16	24216	PNL-16	24016	.4375	6	3½	9/16
PNT-17	24217	PNL-17	24017	.5000	4	3½	⅝
PNT-18	24218	PNL-18	24018	.5000	6	3½	⅝
—	—	PNL-19	24019	.5625	4	3½	⅝
PNT-21	24221	PNL-21	24021	.6250	6	3½	⅞
PNT-22	24222	PNL-22	24022	.7500	6	3½	⅞

Threaded Retainers

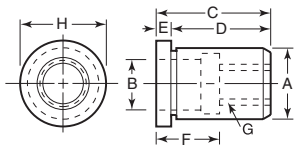
United Drill Bush



Finished



Oversized



Item No.	MFG #	A	B	C	D	E	F	G	H
Oversized									
ATR-005	UDB 622269	.457/.452	.3126/.3128	¾	21/32	⅜	½	¼-28	9/16
ATR-015	UDB 622271	.707/.702	.4376/.4378	1	⅞	⅛	⅝	⅜-24	⅞
Finished									
ATR-010	UDB 622268	.4392/.4389	.3126/.3128	¾	21/32	⅜	½	¼-28	9/16
ATR-020	UDB 622270	.6893/.6890	.4376/.4378	1	⅞	⅛	⅝	⅜-24	⅞
ATR-030	UDB 622272	.8143/.8140	.5626/.5629	1 5/16	1 5/32	5/32	¾	½-20	1
ATR-040	UDB 622274	1.2522/1.2518	.8751/.8754	1¾	1½	¼	1⅛	¾-16	1 9/16

Used with threaded locating pins and rest buttons. Heat treated and ground. OD is either ground oversize or finished.

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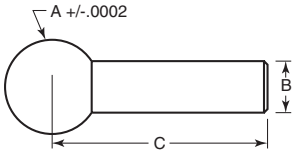
TOOLING & CONSTRUCTION BALLS

These high quality tooling and construction balls provide a precise reference point for critical machining operations. The standard and shoulder type listed below are available with slip fit or light press fit shank diameters. Slip fit shank tolerance is +.0000/-.0004". Press fit shank tolerance is +.0003/-.0000". Ball and shank are concentric within .0002" T.I.R.

Hardened ground steel. Shoulder tooling balls have a knurled shoulder. The weld between the ball and the shank is designed so the ball will fall off if subject to unusually heavy lateral force. This prevents set up and inspection errors that may occur because of a bent shank.

Standard Tooling Balls
Two Piece Construction
United Drill Bushl

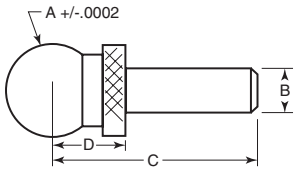




Press-Fit Item No.	MFG#	Slip-Fit Item No.	MFG#	+/-.0002 A	B	C
Steel						
UB-705	UDB-926705	**UB-706**	UDB-926706	.2500	.1250	.563
UB-710	UDB-926710	**UB-711**	UDB-926711	.3750	.1875	.750
UB-715	UDB-926715	**UB-716**	UDB-926716	.5000	.2500	.940
UB-720	UDB-926720	**UB-721**	UDB-926721	.5000	.2500	1.500
—	—	**UB-725**	UDB-926725	.5000	.2500	2.875
—	—	**UB-727**	UDB-926727	.5000	.3125	1.500
UB-735	UDB-926735	**UB-736**	UDB-926736	.6250	.3125	1.063
UB-740	UDB-926740	**UB-741**	UDB-926741	.7500	.3750	1.250
UB-745	UDB-926745	—		.8750	.4375	1.440
UB-750	UDB-926750	**UB-751**	UDB-926751	1.0000	.5000	1.625

Shoulder Tooling Balls
Two Piece Construction
United Drill Bush

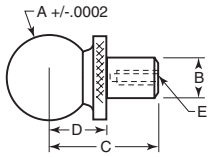




Press-Fit Item No.	MFG #	Slip-Fit Item No.	MFG#	+/-.0002 A	B	C	D
Steel							
UB-805	UDB-926805	**UB-806**	UDB-926806	.2500	.1250	.560	.2000
UB-810	UDB-926810	**UB-811**	UDB-926811	.3750	.1875	.750	.3000
UB-815	UDB-926815	**UB-816**	UDB-926816	.5000	.2500	.940	.4000
UB-818	UDB-926818	**UB-819**	UDB-926819	.5000	.2500	1.125	.5000
UB-820	UDB-926820	**UB-821**	UDB-926821	.5000	.2500	1.375	.5000
UB-822	UDB-926822	**UB-823**	UDB-926823	.5000	.2500	1.625	1.0000
—	—	**UB-977**	UDB-926977	.5000	.2500	.6250	.3125
—	—	**UB-981**	UDB-926981	.5000	.2500	1.5000	.5000
—	—	**UB-825**	UDB-926825	.5000	.2500	1.875	1.2500
—	—	**UB-982**	UDB-926982	.5000	.3125	1.5000	.5000
—	——	**UB-983**	UDB-926983	.5000	.3750	1.5000	.5000
UB-826	UDB-926826	**UB-827**	UDB-926827	.6250	.3125	1.050	.4500
UB-830	UDB-926830	**UB-831**	UDB-926831	.7500	.3750	1.250	.5000
UB-835	UDB-926835	**UB-836**	UDB-926836	1.0000	.5000	1.625	.7000

Construction Tooling Balls
Two Piece Construction
United Drill Bush





Construction balls can be pulled into a hole or bushing from below without applying pressure on the ball by using a cap screw in the internally tapped shank.

Item No.	MFG#	A	+.0000/-.0004 B	C	D	E
Steel						
UB-875	UDB-926875	.5000	.2500	.6250	.3125	6-32 x ¼
UB-979	UDB-926979	.5000	.3125	.9400	.5000	6-32 x 5⁄16
UB-870	UDB-926870	.5000	.2500	.8750	.5000	6-32 x ¼
UB-984	UDB-926984	.5000	.2500	.9400	.5000	6-32 x 5⁄16

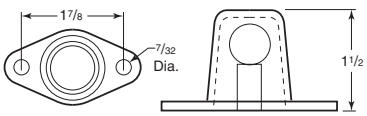
Tooling Ball Covers
United Drill Bush



Zinc



Plastic



Protects tooling balls. Made of die cast zinc alloy or plastic. Plastic covers have a smooth, attractive finish and are available in black, red and yellow.

Item No.	MFG#	Material	Color
UB-653041	UDB-653041	Zinc	Silver Metallic
CTM-22	CTM-22-COVER	Plastic	Black
CTM-33	CTM-33-COVER	Plastic	Red
CTM-66	CTM-66-COVER	Plastic	Yellow

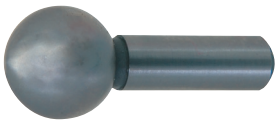
TOOLING & CONSTRUCTION BALLS

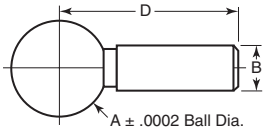
These high quality tooling and construction balls provide a precise reference point for critical machining operations. The standard and shoulder type listed below are available with slip fit or light press fit shank diameters. Slip fit shank tolerance is +.0000/-.0004". Press fit shank tolerance is +.0003/-.0000". Ball and shank are concentric within .0002" T.I.R.

The steel type are made of 1144 steel and heat treated to 53-57 RC. The stainless type are 440-C and heat treated to 55-58 RC.

Standard Tooling Balls
One Piece Construction

Anwrite Corp



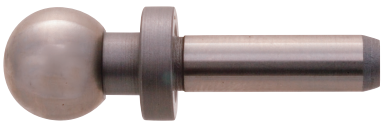


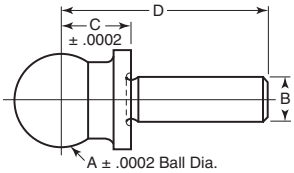
Slip-Fit Item No.	MFG #	Press-Fit Item No.		+/-.0002 A	B	D
Steel						
TCB-26705	26705	**TCB-26706**	26706	.2500	.1250	.5630
TCB-26710	26710	**TCB-26711**	26711	.3750	.1875	.7500
TCB-26715	26715	**TCB-26716**	26716	.5000	.2500	.9400
TCB-26720	26720	**TCB-26721**	26721	.5000	.2500	1.5000
TCB-26730	26730	**TCB-26731**	26731	.5000	.3750	1.5000
Stainless Steel						
STB-26705	26705-440-C	**STB-26706**	26706-440-C	.2500	.1250	.5630
STB-26710	26710-440-C	**STB-26711**	26711-440-C	.3750	.1875	.7500

Shoulder Tooling Balls
One Piece Construction

Anwrite Corp

Valtra





Precision ground shoulder provides precise "C" dimension to facilitate locating ball center line.

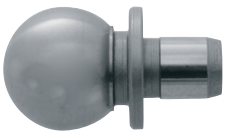
Slip-Fit Item No.	MFG #	Press-Fit Item No.	MFG #	+/-.0002 A	B	+/-.0002 C	D
Inch - Steel							
TCB-26805	26805	**TCB-26806**		.2500	.1250	.2000	.5630
TCB-26810	26810	**TCB-26811**		.3750	.1875	.3000	.7500
TCB-26815	26815	**TCB-26816**		.5000	.2500	.4000	.9400
TCB-26820	26820	**TCB-26821**		.5000	.2500	.5000	1.3750
TCB-26830	26830	**TCB-26831**		.7500	.3750	.5000	1.2500
Inch - Stainless Steel							
STB-26805	26805-440-C	**STB-26806**		.2500	.1250	.2000	.5630
STB-26810	26810-440-C	**STB-26811**		.3750	.1875	.3000	.7500
STB-26815	26815-440-C	**STB-26816**		.5000	.2500	.4000	.9400
STB-26820	26820-440-C	**STB-26821**		.5000	.2500	.5000	1.3750
Metric - Steel							
MTB-826807	826807	**MTB-826808**		6	3	6	10

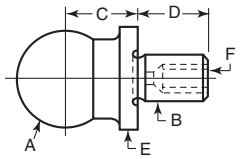
Note: Metric dimensions are in millimeters.

Construction Tooling Balls
One Piece Construction

Anwrite Corp

Valtra





One size fits majority of applications. Available with tapped hole for screw mounting. Shoulder provides precise .3125 (+/-.0002) shoulder base to center line dimension to facilitate locating ball center line. Ball and shank are concentric within .0002 T.I.R.

Solid Item No.	MFG #	Tapped Item No.		F	A	B	C	D	E
Inch - Steel									
TCB-26877	26877	**TCB-26875**	**26875**	6-32	.500	.2500	.3125	5/16	.49
Inch - Stainless Steel									
STB-26877	26877-440-C	**STB-26875**	**26875-440-C**	6-32	.500	.2500	.3125	5/16	.49
Metric - Steel									
MTB-826887	826887	**MTB-826885**	**826885**	6-32	12	6	12	22	12.5

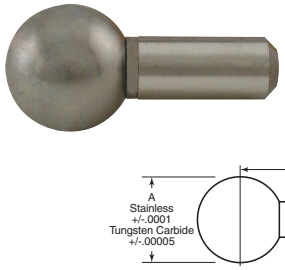
FIXTURE & CHECKING BALLS

Stainless steel is 440-C and hardened to RC 55-58. Tungsten carbide has only ⅓ the thermal expansion and is ten points harder than stainless steel. The weld or brazing between the ball and shank is designed so the ball will fall off if subjected to an unusually heavy lateral force. This prevents set up and inspection errors that may occur because of a bent shank. Maximum eccentricity, ball to shank, is .0002" T.I.R.

Fixture Balls - Plain Shank
Two Piece Welded Construction

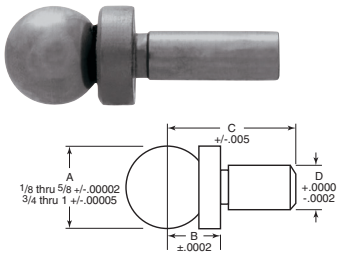
Machining Tech

Stainless Item No.	MFG #	Tungsten Carbide Item No.	Price Each	A	B	C
JFB-29001	ZZ404	**TTB-5**	ZZ404-TC	.250	.56	.1247
JFB-29002	ZZ406	**TTB-10**	1143001	.375	.75	.1872
JFB-29003	ZZ408	—	—	.500	.94	.2497
JFB-29004	ZZ410	—	—	.625	1.06	.3122
JFB-29005	ZZ412	—	—	.750	1.25	.3747
JFB-29007	ZZ416	—	—	1.000	1.62	.4997



Checking Balls with Reference Shoulder
Two Piece Welded Construction

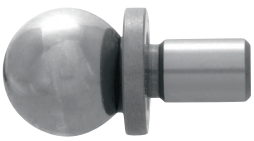
Machining Tech



Stainless Item No.	MFG#	Tungsten Carbide Item No.		A	B	C	D
JFB-29010*	ZZ802	—	—	.125	.0938	.375	.1255
JFB-29011	ZZ804	**TTB-40**	ZZ804-TC	.250	.2000	.560	.1247
JFB-29012	ZZ806	**TTB-45**	ZZ806-TC	.375	.3000	.750	.1872
JFB-29013	ZZ808	**TTB-50**	ZZ808-TC	.500	.4000	.940	.2497
JFB-29014	ZZ810	—	—	.625	.4500	1.060	.3122
JFB-29015	ZZ812	—	—	.750	.5000	1.250	.3747
JFB-29016	29016	—	—	.875	.6000	1.440	.4372
JFB-29017	ZZ816	—	—	1.000	.7000	1.620	.4997

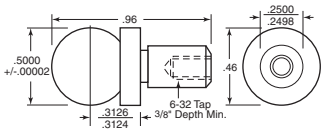
*Shoulder diameter is ¼ inch.

Checking Ball with Reference Shoulder and Tapped Shank
Two Piece Welded Construction



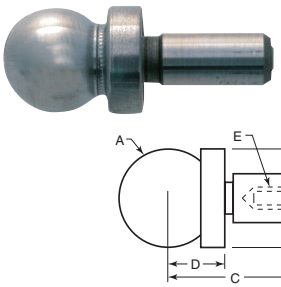
This checking ball can be pulled into a hole without applying pressure on the ball. This is done by using a cap screw in the tapped hole in the shank.

Item No.	MFG#	Description
JFB-29021	**ZZ348**	Checking Ball w/Reference Shoulder & Tapped Shank



Inspection Balls
One Piece Construction

TE-CO

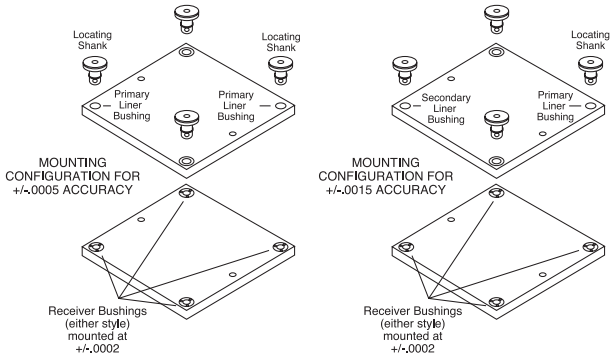


These premium short shank inspection balls are used as reference points for inspection applications in conjunction with coordinate measuring machines to accurately measure the work piece. One piece construction. Made of 8620 steel, case hardened. Concentricity of ball to shank is .0001 T.I.R.

Item No.	MFG #	+.0000/ -.0002 A	+.0000/ -.0002 B	C	D	Thread E	F
PIB-10601	**10601**	.2500	.1247	.58	.2000	—	¼
PIB-10602	**10602**	.3750	.1872	.74	.3000	—	⅜
PIB-10603	**10603**	.3750	.3125	.74	.3000	8-32	½
PIB-10604	**10604**	.5000	.2497	.63	.3125	6-32	½
PIB-10605	**10605**	.5000	.2497	.93	.4000	6-32	½
PIB-10606	**10606**	.5000	.2497	.88	.5000	6-32	½
PIB-10607	**10607**	.5000	.3750	1.31	.3750	10-24	⅝
PIB-10608	**10608**	.6250	.3122	1.08	.4500	8-32	⅝
PIB-10609	**10609**	.6250	.3750	1.42	.4500	10-24	⅝
PIB-10611	**10611**	.7500	.3750	1.53	.5625	10-24	¾
PIB-10612	**10612**	1.0000	.5000	1.64	.7000	10-24	1

BALL LOCK MOUNTING SYSTEM

	Material	Heat Treat	Finish
Shanks	4340	RC 40-45	Black Oxide
Bushings	4340	RC 50-54	Black Oxide
Liners	52100	RC 62-64	Black Oxide



Designed to speed accurate locating and locking of fixture plates and subplates. The system consists of three parts: a locating shank, a liner bushing (either primary or secondary) and a receiver bushing (either back mount or face mount). Once installed, tightening the locking shank provides considerable holding power and up to +/-.0005" repeatability.

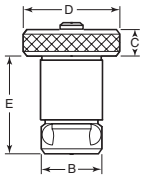
Each top plate should have one ball lock mount as a primary reference point and one as a secondary point spaced as far apart as possible. Additional shanks can be added to provide additional hold down force, however, omit the liner bushing in these holes. For repeatability of +/-.0005", both of the liner bushings in the fixture plate should be primary liners. The center distance of the reliever bushings in the subplate should be +/-.0002". For repeatability of .0015", use one primary and one secondary liner bushing. The center distance tolerance should be +/-.001".

Installation instructions are included with bushings.

Ball Lock Shanks



Ball Lock Shank



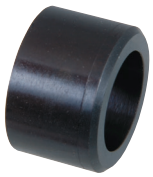


Repair Kit

Ball Lock Shanks Item No.	MFG#	Fixture Plate Thick.	Shank Dia. (mm) B	C	D	E	Max. Working Load (Lbs.)	Rec. Torque (Ft./Lbs.)	Hex Key Size	Repair Kits Item No.	MFG#
JBL-605	49605	.50	13	.25	.87	1.08	750	1.2	3/32	JBL-905	49905
JBL-606	49606	.75	13	.25	.87	1.33	750	1.2	3/32	JBL-906	49906
JBL-607	49607	.50	16	.32	1.50	1.15	1,200	3.0	1/8	JBL-907	49907
JBL-608	49608	.75	16	.32	1.50	1.40	1,200	3.0	1/8	JBL-908	49908
JBL-601	49601	.75	20	.38	1.75	1.53	3,000	4.0	1/8	JBL-901	49901
JBL-602	49602	1.00	20	.38	1.75	1.78	3,000	4.0	1/8	JBL-902	49902
JBL-611	49611	.75	25	.38	2.00	1.70	7,000	9.0	5/32	JBL-912	
JBL-612	49612	1.00	25	.38	2.00	1.95	7,000	9.0	5/32	-	-

Note: Fixture plate thickness is +/-.005
Note 2: Repair kits include replacement screw, locking balls, drive ball and O-ring

Ball Lock Liners



Secondary liner has an oversized ID to accommodate the wider center distance tolerance on your fixture.

Primary Liner Item No.	MFG #	Secondary Liner Item No.	MFG#	Fixture Plate Thickness +/-.005	Shank Dia. (mm)	Liner OD +.0000/-.0004
JBL-705	49705	JBL-805	49805	.50	13	.7518
JBL-706	49706	JBL-806	49806	.75	13	.7518
JBL-707	49707	JBL-807	49807	.50	16	1.0018
JBL-708	49708	JBL-808	49808	.75	16	1.0018
JBL-701	49701	JBL-801	49801	.75	20	1.3772
JBL-702	49702	JBL-802	49802	1.00	20	1.3772
JBL-711	49711	JBL-811	49811	.75	25	1.3772
JBL-712	49712	JBL-812	49812	1.00	25	1.3772

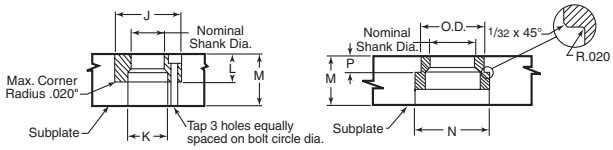
Ball Lock Receiver Bushings



Bolt-In Recessed



Reverse Mount Bushing



Two styles of receiver bushings are available. Generally, the bolt-in recessed receiver bushing is utilized in blind hole applications (slip fit). The reverse mount receiver bushing is used in through hole applications (light press fit). Installed bushings should be approximately .012" below subplate surface. To avoid binding on the back mount style, the maximum interference fit between the bore and bushing OD should not exceed .0005". Three Grade 8 mounting bolts are included with the bolt-in recessed bushing. Installation instructions are included with both styles.

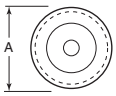
Item No.	MFG#	Shank Dia. mm	+.0000/-.0004 OD	+.0000/-.0005 Bore J	Drill Dia. K	+.002/-.000 Depth L	Min. Thickness M	Tap/ Depth	Bolt Circle Dia.	Max. Mounting Screw Torque In./Lbs.
Bolt-In										
JBL-506	49506	13	1.3750	1.3750	11/16	.469	3/4	8-32 x 1/4	.984	36
JBL-507	49507	16	1.4370	1.4370	13/16	.469	3/4	8-32 x 1/4	1.125	55
JBL-501	49501	20	1.6873	1.6873	13/16	.637	1	10-32 x 5/16	1.362	55
JBL-502	49502	25	2.0623	2.0623	1	.799	1 1/4	1/4-28 x 7/16	1.644	140

Note: Bolt circle diameter has three holes, equally spaced.

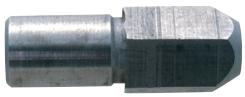
Item No.	MFG#	Shank Dia. mm	+.0000/-.0004 OD	Min. Thickness M	+/-.005 C-Bore N	+.000/-.002 P
Reverse						
JBL-516	49516	13	.7870	3/4	1.000	.277
JBL-517	49517	16	.8760	3/4	1.155	.285
JBL-511	49511	20	1.0950	7/8	1.280	.345
JBL-512	49512	25	1.3763	1	1.593	.416

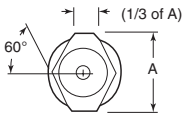
Locating Pins
Press Fit - Flangeless
United Drill Bush



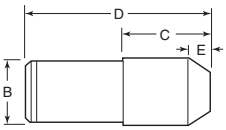


Round





Relieved

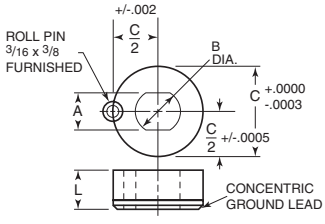


Made in round and relieved styles for locating. Do not require bushings or counterboring. Round pins are used to locate from hole to hole in workpiece. Relieved pins locate radially around the hole or round pin and avoid binding when loading or unloading while still maintaining accurate locations. Made from stress proof C1144 steel, hardened to RC-60-64.

Item No.	MFG #	Nominal A	Actual A	Nominal B	Actual B	C	D	E
Round								
UB-500	**UDB-623500**	1/4	.2495 - .2492	3/16	.1878 - .1876	11/32	3/4	3/32
UB-501	**UDB-623501**	5/16	.3120 - .3117	1/4	.2503 - .2501	13/32	7/8	3/32
UB-502	**UDB-623502**	3/8	.3745 - .3742	5/16	.3128 - .3126	1/2	1	1/8
UB-503	**UDB-623503**	7/16	.4370 - .4367	3/8	.3753 - .3751	19/32	1 1/4	5/32
UB-504	**UDB-623504**	1/2	.4995 - .4992	7/16	.4378 - .4376	21/32	1 3/8	5/32
UB-506	**UDB-623506**	5/8	.6240 - .6237	9/16	.5628 - .5626	27/32	1 3/4	7/32
UB-508	**UDB-623508**	3/4	.7490 - .7487	11/16	.6885 - .6880	1	2 1/8	1/4
Relieved								
UB-521	**UDB-623521**	1/4	.2493 - .2490	3/16	.1878 - .1876	11/32	3/4	3/32
UB-522	**UDB-623522**	5/16	.3118 - .3115	1/4	.2503 - .2501	13/32	7/8	3/32
UB-523	**UDB-623523**	3/8	.3743 - .3740	5/16	.3128 - .3126	1/2	1	1/8
UB-524	**UDB-623524**	7/16	.4368 - .4365	3/8	.3753 - .3751	19/32	1 1/4	5/32
UB-525	**UDB-623525**	1/2	.4993 - .4990	7/16	.4378 - .4376	21/32	1 3/8	5/32
UB-527	**UDB-623527**	5/8	.6240 - .6235	9/16	.5628 - .5626	27/32	1 3/4	7/32
UB-529	**UDB-623529**	3/4	.7490 - .7485	11/16	.6885 - .6880	1	2 1/8	1/4

Locating Bushings
Slotted Hole - For use with T-Pins and L-Pins
Press Fit For Metal Tooling





Used with T-pins and L-pins, for aligning two holes without binding. Roll pin is furnished. To install, drill and ream 3/16" hole for the supplied roll pin. Bore large hole for the bushing for light press fit (.003 to .005). Press pin and bushing in together.

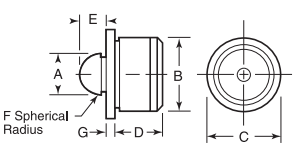
Item No.	MFG #	A	B	C	L
SHL-942	24301	.1876 - .1882	.312	.7504	.400
SHL-943	24302	.2501 - .2507	.375	.7504	.400
SHL-945	24304	.3126 - .3132	.437	1.0004	.400
SHL-946	24305	.3751 - .3757	.500	1.0004	.400
SHL-948	24306	.5001 - .5007	.625	1.0004	.400
SHL-048	24307	.5001 - .5007	.625	1.0004	.900
SHL-054	24308	.6251 - .6257	.750	1.2504	.900
SHL-056*	24309	.7501 - .7510	.812	1.5004	1.000
SHL-068*	24311	1.0001 - 1.0010	1.062	1.5004	1.000

*Axial float +/-.030

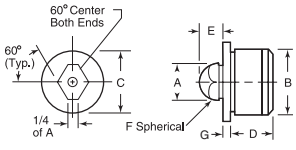
Bullet Nose Pins
ACTEK MFG & ENG







Round



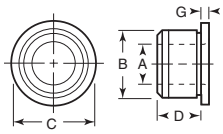
Relieved

The round and relieved pins are used together, along with matching bushings, to align two pieces of a fixture. The pin shank diameters and the bushing OD's are the same size so the fixture pieces can be drilled at the same time for greater accuracy. Heat treated and ground.

Round Item No.	MFG #	Relieved Item No.	MFG #	+.0000/ -.0003 A	+.0000/ -.0003 B	C	D	E	F	G
ABN-005	29201	**ABN-006**	29211	.2499	.4078	9/16	3/8	7/32	1/8	1/16
ABN-010	29202	**ABN-011**	29212	.3124	.5017	5/8	3/8	9/32	5/32	1/16
ABN-015	AK69115	**ABN-016**	29213	.3748	.6267	3/4	1/2	11/32	3/16	1/16
ABN-020	29204	**ABN-021**	29214	.4998	.7518	7/8	1/2	13/32	1/4	1/16
ABN-023	29205	**ABN-024**	29215	.7498	1.0018	1 1/8	3/4	9/16	3/8	1/8
ABN-025	29206	**ABN-026**	29216	.9998	1.3771	1 1/2	3/4	3/4	1/2	1/8

Bullet Nose Liners
United Drill Bush

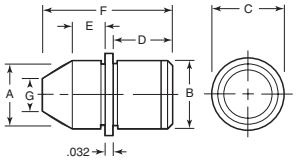




Item No.	MFG #	+.0004/-.0000 A	+.0000/-.0003 B	C	D	G
ABN-055	UDB-635155	.2501	.4078	9/16	7/16	1/16
ABN-060	UDB-635160	.3126	.5017	5/8	7/16	1/16
ABN-065	UDB-635165	.3751	.6267	3/4	7/16	1/16
ABN-070	UDB-635170	.5001	.7518	7/8	1/2	1/16
ABN-073	UDB-635173	.7502	1.0018	1 1/8	1/2	1/8
ABN-075	UDB-635175	1.0002	1.3771	1 1/2	11/16	1/8

Bullet Nose Dowels
Actek MFG & Eng



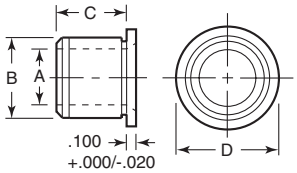


Used with a matching bushing to align two pieces of a fixture. Heat treated and ground.

Item No.	MFG #	+.0000/ -.0005 A	+.0000/ -.0003 B	C	D	E	F	G	Use Liner
BND-130	29221	.2499	.2516	.280	1/2	.125	.907	1/8	BND-180
BND-135	29222	.3124	.3141	.344	1/2	.157	.939	5/32	BND-185
BND-140	29223	.3749	.3766	.407	1/2	.187	1.032	3/16	BND-190
BND-145	29224	.4999	.5017	.532	1/2	.187	1.094	1/4	BND-195

Bullet Nose Liners
United Drill Bush

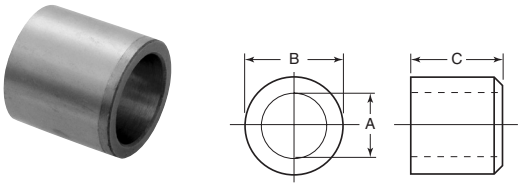




Item No.	MFG#	+.0004/-.0000 A	+.0000/-.0003 B	C	D
BND-180	UDB-635180	.2501	.5017	3/8	.625
BND-185	UDB-635185	.3126	.5017	3/8	.625
BND-190	UDB-635190	.3751	.6267	1/2	.750
BND-195	UDB-635195	.5001	.7518	5/8	.875

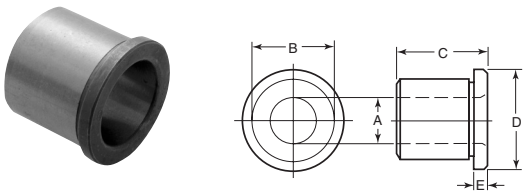
LOCATING PINS & LINERS

Locating Pin Liners Plain



Item No.	MFG#	A	B	C
LO-505	28501	.3129 - .3126	.5017 - .5014	½
LO-510	28502	.5005 - .5002	.7518 - .7515	¾
LO-515	28503	.7506 - .7503	1.0018 - 1.0015	1
LO-520	28504	1.0007 - 1.0004	1.3772 - 1.3768	1⅜

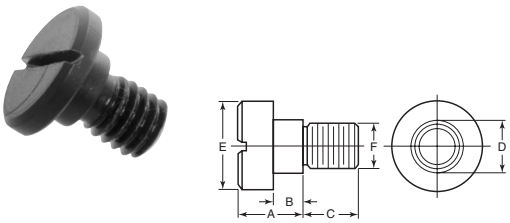
Locating Pin Liners With Shoulder



Item No.	MFG #	A	B	C	D	E
LO-605	40901	.3129 - .3126	.5017 - .5014	½	⅝	3/32
LO-610	40902	.5005 - .5002	.7518 - .7515	¾	⅞	3/32
LO-615	40903	.7506 - .7503	1.0018 - 1.0015	1	1⅛	⅛
LO-620	40904	1.0007 - 1.0004	1.3772 - 1.3768	1⅜	1½	⅛

Lock Screws

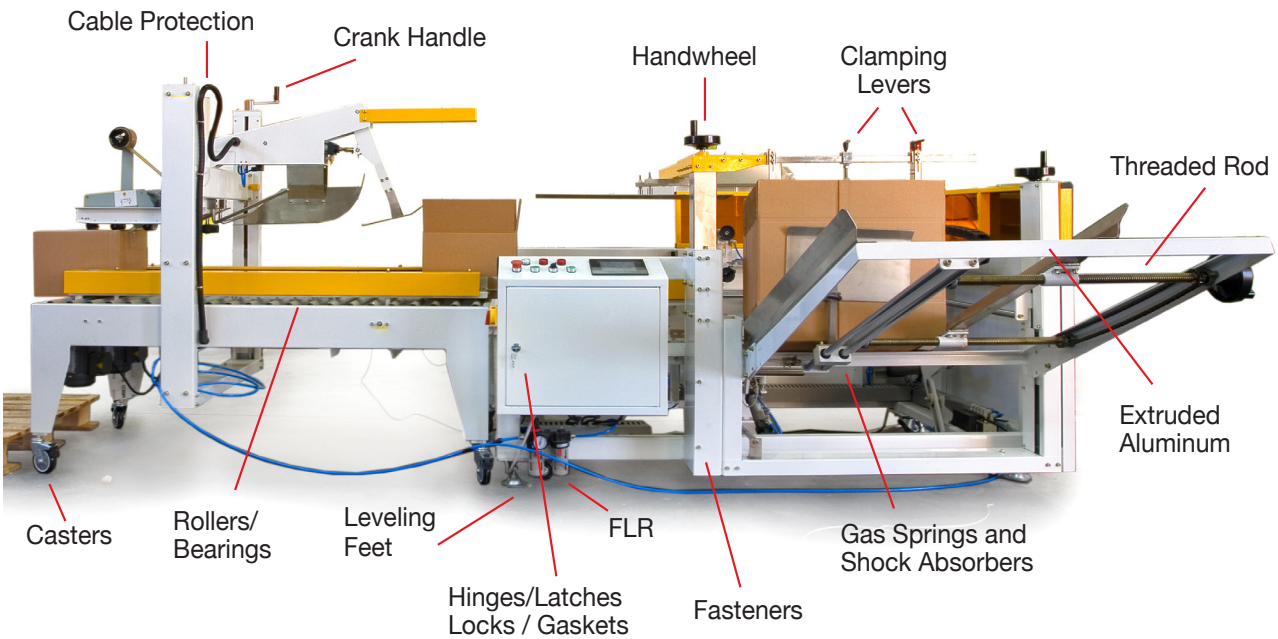
Acme Industrial Co.



Item No.	MFG #	A	B	C	D	E	F
Inch							
LO-700	1-LS	3/16	.096	¼	3/16	5/16	8-32
LO-703	2-LS	¼	.130	¼	¼	⅜	10-32
LO-705	1A-LS	¼	.135	⅜	⅜	⅝	5/16-18
LO-710	200-000018	⅜	.197	⅜	⅜	⅝	5/16-18
LO-715	3A-LS	⅜	.197	½	7/16	¾	⅜-16
LO-720	4A-LS	7/16	.228	⅝	7/16	¾	⅜-16
LO-725	5A-LS	½	.260	⅝	7/16	¾	⅜-16
Metric							
LO-727	LSM-1	6	3.0	9	7.5	13	M5 x .8
LO-728	LSM-2	9	6.0	9	7.5	13	M5 x .8
LO-729	LSM-3	8	4.0	10	9.5	16	M6 x 1.0
LO-730	LSM-4	12	8.0	10	9.5	16	M6 x 1.0
LO-731	LSM-5	10	5.5	12	12.0	20	M8 x 1.25
LO-732	LSM-6	15	10.5	12	12.0	20	M8 x 1.25

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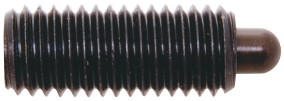


Clamping Technology | Standard Components | Operating Parts

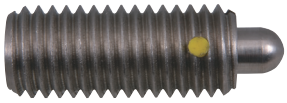
SPRING PLUNGERS

Spring Plungers
Inch and Metric

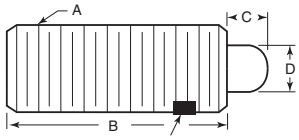
Vlier



Steel



Stainless Steel



Nylon Locking Element

For use in fixtures, jigs, detents, dies and other tooling applications. They give sure and positive spring tension. Steel noses are case hardened. Black oxide finish. Stainless steel is passivated. Accurate spring pressures. Nose ends accurately radiused. Delrin nose offers long life and high resistance to repeated impacts, moisture and solvents and heat up to 190 degree Fahrenheit. The plastic nose is used where it is important not to mar metals such as aluminum or brass. The plunger end of the plastic nose spring plunger is high tensile thermosetting plastic. Has self-lubricating surface. Metric dimensions are shown in millimeters, metric end forces are shown in Newtons.

Standard Item No.	MFG#	Locking Element Item No.	MFG#	A	B	C	D	Initial End Force	Final End Force
Steel Body									
Steel Nose - Heavy End Pressure - Inch									
SL-1A	S48A	**SL-1AN***	S48AP	6-32	3/8	1/16	.045	1.0	1.6
SL-1	S48	**SL-1N***	S48P	6-32	17/32	1/16	.045	1.5	4.5
SL-2	33103P	**SL-2N***	S50P	8-32	5/8	3/32	.069	2.7	7.3
SL-3	33105P	**SL-3N***	S52P	10-32	3/4	1/8	.092	2.9	11.1
SL-4	S54	**SL-4N**	S54N	1/4-20	1	3/16	.118	3.0	13.0
SL-4A	S54B	**SL-4AN**	S54BN	1/4-20	3/4	1/8	.118	2.0	9.0
SL-5	S54A	**SL-5N**	S54AN	1/4-28	1	3/16	.118	3.0	13.0
SL-6	S56	**SL-6N**	S56N	5/16-18	1	3/16	.134	3.0	15.0
SL-7	S58	**SL-7N**	S58N	3/8-16	1 1/8	3/16	.186	5.5	14.5
SL-8	33115P	**SL-8N**	33115	1/2-13	1 1/4	1/4	.247	6.6	17.4
SL-9	S62	**SL-9N**	S62N	5/8-11	1 1/2	5/16	.309	10.5	25.5
SL-10	S64	**SL-10N**	S64N	3/4-10	1 3/4	5/16	.373	6.7	37.3
SL-11	S66	**SL-11N**	S66N	1-8	2 13/32	1/2	.498	16.0	68.0
Metric									
SM-6A	SM6A	**SM-6AN**	SM6AP	M6 x 1.0	20	2.5	2.7	18	50
SM-8A	SM8A	**SM-8AN**	SM8AN	M8 x 1.25	22	3.0	3.5	25	70
SM-10A	SM10A	**SM-10AN**	SM10AN	M10 x 1.5	22	3.0	4.0	25	70
SM-12A	SM12A	**SM-12AN**	SM12AN	M12 x 1.75	28	4.0	6.0	45	110
Steel Nose - Light End Pressure - Inch									
ST-1	S49	**ST-1N***	S49P	6-32	17/32	1/16	.045	.5	1.5
ST-2	S51	**ST-2N***	S51P	8-32	5/8	3/32	.069	.7	2.3
ST-3	33204P	**ST-3N***	S53P	10-32	3/4	1/8	.092	1.3	2.7
ST-4	33206P	**ST-4N**	S55N	1/4-20	1	3/16	.118	1.0	4.0
ST-5	S55A	**ST-5N**	S55AN	1/4-28	1	3/16	.118	1.0	4.0
ST-6	S57	**ST-6N**	S57N	5/16-18	1	3/16	.134	1.5	4.5
ST-7	S59	**ST-7N**	S59N	3/8-16	1 1/8	3/16	.186	2.8	7.2
ST-8	S61	**ST-8N**	S61N	1/2-13	1 1/4	1/4	.247	2.7	9.3
ST-9	S63	**ST-9N**	S63N	5/8-11	1 1/2	5/16	.309	3.5	10.5
ST-11	S67	**ST-11N**	S67N	1-8	2 13/32	1/2	.498	4.0	31.0
Metric									
SML-6A	SML6A	**SML-6AN**	SML6AP	M6 x 1.0	20	2.5	2.7	7	20
SML-8A	SML8A	**SML-8AN**	SML8AN	M8 x 1.25	22	3.0	3.5	9	35
SML-10A	SML10A	**SML-10AN**	SML10AN	M10 x 1.5	20	3.0	4.0	9	35
SML-12A	SML12A	**SML-12AN**	SML12AN	M12 x 1.75	28	4.0	6.0	10	55
Steel Nose - Light End Pressure - Inch									
LHN-1	H55	**LHN-1N**	H55N	1/4-20	1	3/16	1/8	1.0	4.0
LHN-2	H57	**LHN-2N**	H57N	5/16-18	1	3/16	1/8	1.5	4.5
LHN-3	H59	**LHN-3N**	H59N	3/8-16	1 1/8	3/16	3/16	2.8	7.2
LHN-4	H61	**LHN-4N**	H61N	1/2-13	1 1/4	1/4	1/4	2.7	9.3
LHN-5	H63	**LHN-5N**	H63N	5/8-11	1 1/2	5/16	5/16	3.5	10.5
Delrin Nose - Heavy End Pressure - Inch									
DN-1	33001P	**DN-1N***	33001	8-32	5/8	3/32	.069	2.7	7.3
DN-2	NNS52	**DN-2N***	NNS52P	10-32	3/4	1/8	.091	2.9	11.1
DN-3	NNS54	**DN-3N**	NNS54N	1/4-20	1	3/16	.117	3.0	13.0
DN-8	NNS54A	**—**		1/4-28	1	3/16	.117	3.0	13.0
DN-4	NNS56	**DN-4N**	NNS56N	5/16-18	1	3/16	.134	3.0	15.0
DN-5	NNS58	**DN-5N**	NNS58N	3/8-16	1 1/8	3/16	.186	5.5	14.5
DN-6	NNS60	**DN-6N**	NNS60N	1/2-13	1 1/4	1/4	.247	6.6	17.4
DN-7	NNS62	**—**		5/8-11	1 1/2	5/16	.309	10.5	25.5
Delrin Nose - Light End Pressure - Inch									
LDN-1	NNS51	**LDN-1N***	NNS51P	8-32	5/8	3/32	.069	.7	2.3
LDN-2	NNS53	**LDN-2N***	NNS53P	10-32	3/4	1/8	.091	1.3	2.7
LDN-3	NNS55	**LDN-3N***	NNS55N	1/4-20	1	3/16	.117	1.0	4.0
LDN-4	33307P	**LDN-4N**	33307	5/16-18	1	3/16	.134	1.5	4.5
LDN-5	NNS59	**LDN-5N**	NNS59N	3/8-16	1 1/8	3/16	.186	2.8	7.2
LDN-6	33311P	**LDN-6N**	33311	1/2-13	1 1/4	1/4	.247	2.7	9.3
LDN-7	33313P	**LDN-7N**	33313	5/8-11	1 1/2	5/16	.309	3.5	10.5
LDN-8	NNS55A	**LDN-8N**	NNS55AN	1/4-28	1	3/16	.117	1.0	4.0
Plastic Nose - Heavy End Pressure - Inch									
PN-1	NS50	**PN-1N***	NS50P	8-32	5/8	3/32	.067	2.7	7.3
PN-2	NS52	**PN-2N***	NS52P	10-32	3/4	1/8	.091	2.9	11.1
PN-3	NS54	**PN-3N***	NS54N	1/4-20	1	3/16	.117	3.0	13.0
—		**PN-8N**	NS54AN	1/4-28	1	3/16	.117	3.0	13.0
PN-4	NS56	**PN-4N**	NS56N	5/16-18	1	3/16	.133	3.0	15.0
PN-5	NS58	**PN-5N**	NS58N	3/8-16	1 1/8	3/16	.185	5.5	14.5
PN-6	NS60	**PN-6N**	NS60N	1/2-13	1 1/4	1/4	.246	6.6	17.4
PN-7	NS62	**PN-7N**	NS62N	5/8-11	1 1/2	5/16	.308	10.5	25.5
Plastic Nose - Light End Pressure - Inch									
LPN-1	NS51	**LPN-1N**	NS51P	8-32	5/8	3/32	.067	.7	2.3
LPN-2	NS53	**LPN-2N**	NS53P	10-32	3/4	1/8	.091	1.3	2.7
LPN-3	NS55	**LPN-3N**	NS55N	1/4-20	1	3/16	.117	1.0	4.0
—		**LPN-8N**	NS55AN	1/4-28	1	3/16	.117	1.0	4.0
LPN-4	NS57	**LPN-4N**	NS57N	5/16-18	1	3/16	.133	1.5	4.5
LPN-5	NS59	**LPN-5N**	NS59N	3/8-16	1 1/8	3/16	.185	2.8	7.2
LPN-6	NS61	**LPN-6N**	NS61N	1/2-13	1 1/4	1/4	.246	6.6	17.4
LPN-7	NS63	**LPN-7N**	NS63N	5/8-11	1 1/2	5/16	.308	3.5	10.5

Standard Item No.	MFG#	Locking Element Item No.	MFG#	A	B	C	D	Initial End Force	Final End Force
Stainless Steel Body									
Stainless Steel Nose - Heavy End Pressure - Inch									
SLS-1A	SSS48A	**SLS-1AN***	33401	6-32	3/8	1/16	.045	1.0	1.6
SLS-1	SSS48	**SLS-1N***	SSS48P	6-32	17/32	1/16	.045	1.5	4.5
SLS-2	33403P	**SLS-2N***	33403	8-32	5/8	3/32	.069	2.7	7.3
SLS-3	33404P	**SLS-3N***	33404	10-32	3/4	1/8	.092	2.9	11.1
SLS-4	33405P	**SLS-4N**	33405	1/4-20	1	3/16	.118	3.0	13.0
SLS-4A	SSS54B	**SLS-4AN**	SSS54BN	1/4-20	3/4	1/8	.118	2.0	9.0
SLS-5	33406P *W/ LOCTITE**	**SLS-5N**	33406	1/4-28	1	3/16	.118	3.0	13.0
SLS-6	33408P	**SLS-6N**	33408	5/16-18	1	3/16	.134	3.0	15.0
SLS-8	SSS60	**SLS-8N**	SSS60N	1/2-13	1 1/4	1/4	.247	6.6	17.4
SLS-7	33409P	**SLS-7N**	33409	3/8-16	1 1/8	3/16	.186	5.5	14.5
SLS-9	SSS62	**SLS-9N**	SSS62N	5/8-11	1 1/2	5/16	.309	10.5	25.5
SLS-10	SSS64	**SLS-10N**	SSS64N	3/4-10	1 3/4	5/16	.373	6.7	37.3
SLS-11	SSS66	**—**		1-8	2 13/32	1/2	.498	16.0	68.0
Metric									
SSM-6A	SSM6A	**SSM-6AN**	SSM6AP	M6 x 1.0	20	2.5	2.7	18	50
SSM-8A	SSM8A	**SSM-8AN**	SSM8AN	M8 x 1.25	22	3.0	3.5	25	70
SSM-10A	SSM10A	**SSM-10AN**	SSM10AN	M10 x 1.5	22	3.0	4.0	25	70
SSM-12A	SSM12A	**SSM-12AN**	SSM12AN	M12 x 1.75	28	4.0	6.0	45	110
Stainless Steel Nose - Light End Pressure - Inch									
STS-1	33500P	**STS-1N***	SSS49P	6-32	17/32	1/16	.045	.5	1.5
STS-2	33503P	**STS-2N***	SSS51P	8-32	5/8	3/32	.069	.7	2.3
STS-3	SSS53	**STS-3N***	SSS53P	10-32	3/4	1/8	.092	1.3	2.7
STS-4	SSS55	**STS-4N**	33505	1/4-20	1	3/16	.118	1.0	4.0
STS-5	SSS55A	**STS-5N**	SSS55AN	1/4-28	1	3/16	.118	1.0	4.0
STS-6	SSS57	**STS-6N**	SSS57N	5/16-18	1	3/16	.134	1.5	4.5
STS-7	SSS59	**STS-7N**	SSS59N	3/8-16	1 1/8	3/16	.186	2.8	7.2
STS-8	SSS61	**STS-8N**	SSS61N	1/2-13	1 1/4	1/4	.247	2.7	9.3
STS-9	SSS63	**STS-9N**	SSS63N	5/8-11	1 1/2	5/16	.309	3.5	10.5
STS-11	SSS67	**STS-11N**	SSS67N	1-8	2 13/32	1/2	.498	4.0	31.0
Metric									
SSML-6A	SSML6A	**SSML-6AN**	SSML6AP	M6 x 1.0	20	2.5	2.7	7	20
SSML-8A	SSML8A	**SSML-8AN**	63725	M8 x 1.25	22	3.0	3.5	9	35
—		**SSML-10AN**	63726	M10 x 1.5	20	3.0	4.0	9	35
SSML-12A	SSML12A	**—**		M12 x 1.75	28	4.0	6.0	10	55
Delrin Nose - Heavy End Pressure - Inch									
SDH-2	SSSD50	**SDH-2N***	SSSD50P	8-32	5/8	3/32	.069	2.7	7.3
SDH-3	SSSD52	**SDH-3N***	SSSD52P	10-32	3/4	1/8	.092	2.9	11.1
SDH-4A	SSSD54B	**—**		1/4-20	3/4	1/8	.118	2.0	9.0
SDH-4	SSSD54	**SDH-4N**	SSSD54N	1/4-20	1	3/16	.118	3.0	13.0
SDH-5	33446P	**—**		1/4-28	1	3/16	.118	3.0	13.0
SDH-6	SSSD56	**SDH-6N**	SSSD56N	5/16-18	1	3/16	.134	3.0	15.0
SDH-7	SSSD58	**SDH-7N**	SSSD58N	3/8-16	1 1/8	3/16	.186	5.5	14.5
SDH-8	SSSD60	**SDH-8N**	SSSD60N	1/2-13	1 1/4	1/4	.247	6.6	17.4
SDH-9	SSSD62	**SDH-9N**	SSSD62N	5/8-11	1 1/2	5/16	.309	10.5	25.5
Delrin Nose - Light End Pressure - Inch									
SDL-2	SSSD51	**SDL-2N***	SSSD51P	8-32	5/8	3/32	.069	.7	2.3
SDL-3	33544P	**SDL-3N***	33544	10-32	3/4	1/8	.092	1.3	2.7
SDL-4	SSSD55	**SDL-4N**	SSSD55N	1/4-20	1	3/16	.118	1.0	4.0
SDL-5	33546P	**—**		1/4-28	1	3/16	.118	1.0	4.0
SDL-6	SSSD57	**SDL-6N**	33548	5/16-18	1	3/16	.134	1.5	4.5
SDL-7	SSSD59	**SDL-7N**	SSSD59N	3/8-16	1 1/8	3/16	.186	2.8	7.2
SDL-8	SSSD61	**SDL-8N**		1/2-13	1 1/4	1/4	.247	2.7	9.3

*Nylon Patch

Note: Plungers with nylon locking element are not recommended for use in aluminum applications.

Note 2: End force for Inch is in Lbs. End force for Metric is in Newtons.

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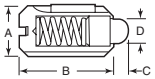
Reid SUPPLY AN ESSENTRA COMPANY

SPRING PLUNGERS

The Long-Lok thread lock provides additional resistance to vibration. The resilient nylon insert is squeezed like a wedge between the thread of the plunger and the fastening component, providing extremely high loosening torque. The Long-Lok thread lock does not require initial tension or any defined position so that it is secure in every position. All plungers are pressure and function tested. The steel plungers have a black oxide finish. Steel noses are made of hardened steel. Stainless steel plungers have a natural finish. Stainless noses are made of hardened stainless steel. Metric dimensions are in millimeters. Metric end pressures are in Newtons.

Spring Plungers
With Long-Lok Thread Lock
Slotted Style
Kipp


Steel Nose



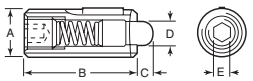
Item No.	MFG #	A	B	C	D	Initial End Force	Final End Force
Steel Body							
Steel Nose - Standard End Pressure - Inch							
KBP-93	K0323.AG	8-36	.35	.06	.07	1.35	4.50
KBP-94	K0323.AE	8-32	.35	.06	.07	1.35	4.50
KBP-95	K0323.A1	10-32	.47	.08	.09	1.35	4.50
KBP-96	K0323.AJ	1/4-28	.55	.08	.11	1.57	4.50
KBP-97	K0323.A2	1/4-20	.55	.08	.11	1.57	4.50
KBP-98	K0323.A3	5/16-18	.63	.08	.16	3.37	6.74
KBP-99	K0323.A4	3/8-16	.75	.10	.18	4.50	7.87
KBP-100	K0323.A5	1/2-13	.87	.14	.24	6.74	10.60
KBP-101	K0323.A6	5/8-11	.94	.18	.33	10.12	22.48
Metric							
KBP-79	K0323.04	M4	9	1.5	1.8	6	20
KBP-80	K0323.05	M5	12	2.0	2.4	6	20
KBP-81	K0323.06	M6	14	2.0	2.7	7	20
KBP-82	K0323.08	M8	16	2.0	4.0	15	30
KBP-83	K0323.10	M10	19	2.5	4.5	20	35
KBP-84	K0323.12	M12	22	3.5	6.0	30	55
KBP-85	K0323.16	M16	24	4.5	8.5	45	100
Steel Nose - Light End Pressure - Inch							
KBP-125	K0323.1AG	8-36	.35	.06	.07	.45	1.57
KBP-126	K0323.1AE	8-32	.35	.06	.07	.45	1.57
KBP-127	K0323.1A1	10-32	.47	.08	.09	.67	2.25
KBP-128	K0323.1AJ	1/4-28	.55	.08	.11	.67	2.02
KBP-129	K0323.1A2	1/4-20	.55	.08	.11	.67	2.02
KBP-130	K0323.1A3	5/16-18	.63	.08	.16	.90	3.60
KBP-131	K0323.1A4	3/8-16	.75	.10	.18	.90	3.60
KBP-132	K0323.1A5	1/2-13	.87	.14	.24	1.12	6.07
KBP-133	K0323.1A6	5/8-11	.94	.18	.33	4.50	10.12
Metric							
KBP-111	K0323.104	M4	9	1.5	1.8	2	7
KBP-112	K0323.105	M5	12	2.0	2.4	3	10
KBP-113	K0323.106	M6	14	2.0	2.7	3	9
KBP-114	K0323.108	M8	16	2.0	4.0	4	16
KBP-115	K0323.110	M10	19	2.5	4.5	4	16
KBP-116	K0323.112	M12	22	3.5	6.0	5	27

Item No.	MFG #	A	B	C	D	Initial End Force	Final End Force
Stainless Steel Body							
Stainless Steel Nose - Standard End Pressure - Inch							
KBP-102	K0324.AG	8-36	.35	.06	.07	1.35	4.50
KBP-103	K0324.AE	8-32	.35	.06	.07	1.35	4.50
KBP-104	K0324.A1	10-32	.47	.08	.09	1.35	4.50
KBP-105	K0324.AJ	1/4-28	.55	.08	.11	1.57	4.50
KBP-106	K0324.A2	1/4-20	.55	.08	.11	1.57	4.50
KBP-107	K0324.A3	5/16-18	.63	.08	.16	3.37	6.74
KBP-108	K0324.A4	3/8-16	.75	.10	.18	4.50	7.87
KBP-109	K0324.A5	1/2-13	.87	.14	.24	6.74	10.60
KBP-110	K0324.A6	5/8-11	.94	.18	.33	10.12	22.48
Metric							
KBP-86	K0324.04	M4	9	1.5	1.8	6	20
KBP-87	K0324.05	M5	12	2.0	2.4	6	20
KBP-88	K0324.06	M6	14	2.0	2.7	7	20
KBP-89	K0324.08	M8	16	2.0	4.0	15	30
KBP-90	K0324.10	M10	19	2.5	4.5	20	35
KBP-91	K0324.12	M12	22	3.5	6.0	30	55
KBP-92	K0324.16	M16	24	4.5	8.5	45	100
Stainless Steel Nose - Light End Pressure - Inch							
KBP-134	K0324.1AG	8-36	.35	.06	.07	.45	1.57
KBP-135	K0324.1AE	8-32	.35	.06	.07	.45	1.57
KBP-136	K0324.1A1	10-32	.47	.08	.09	.67	2.25
KBP-137	K0324.1AJ	1/4-28	.55	.08	.11	.67	2.02
KBP-138	K0324.1A2	1/4-20	.55	.08	.11	.67	2.02
KBP-139	K0324.1A3	5/16-18	.63	.08	.16	.90	3.60
KBP-140	K0324.1A4	3/8-16	.75	.10	.18	.90	3.60
KBP-141	K0324.1A5	1/2-13	.87	.14	.24	1.12	6.07
KBP-142	K0324.1A6	5/8-11	.94	.18	.33	4.50	10.12
Metric							
KBP-118	K0324.104	M4	9	1.5	1.8	2	7
KBP-119	K0324.105	M5	12	2.0	2.4	3	10
KBP-120	K0324.106	M6	14	2.0	2.7	3	9
KBP-121	K0324.108	M8	16	2.0	4.0	4	16
KBP-122	K0324.110	M10	19	2.5	4.5	4	16
KBP-123	K0324.112	M12	22	3.5	6.0	5	27

Spring Plungers
With Long-Lok Thread Lock
Hexagon Socket Style
Kipp


Steel Nose


Plastic Nose



Item No.	MFG #	A	B	C	D	E	Initial End Force	Final End Force
Steel Body								
Steel Nose - Standard End Pressure - Inch								
KBP-403	K0327.A1	10-32	.71	.09	.09	1/16	1.35	4.5
KBP-404	K0327.AJ	1/4-28	.79	.10	.11	5/64	1.57	4.50
KBP-405	K0327.A2	1/4-20	.79	.10	.11	5/64	1.57	4.50
KBP-28	K0327.A3	5/16-18	.87	.12	.14	3/32	2.02	7.87
KBP-406	K0327.A4	3/8-16	.87	.12	.16	1/8	2.25	12.36
KBP-407	K0327.A5	1/2-13	1.10	.16	.24	5/32	2.25	12.36
KBP-408	K0327.A6	5/8-11	1.26	.20	.30	3/16	10.01	22.48
Metric								
KBP-1	K0327.05	M5	20	2.5	2.7	2.0	7	20
KBP-2	K0327.06	M6	20	2.5	2.7	2.0	9	35
KBP-3	K0327.08	M8	22	3.0	3.5	2.5	9	35
KBP-4	K0327.10	M10	22	4.0	6.0	4.0	10	55
KBP-5	K0327.12	M12	28	4.0	6.0	4.0	10	55
KBP-6	K0327.16	M16	32	5.0	7.5	5.0	45	100
Steel Nose - Light End Pressure - Inch								
KBP-65	K0327.1A1	10-32	.71	.09	.09	1/16	.67	2.25
KBP-66	K0327.1AJ	1/4-28	.79	.10	.11	5/64	.67	2.02
KBP-67	K0327.1A2	1/4-20	.79	.10	.11	5/64	.67	2.02
KBP-68	K0327.1A3	5/16-18	.87	.12	.14	3/32	.90	3.60
KBP-69	K0327.1A4	3/8-16	.87	.12	.16	1/8	.90	3.60
KBP-70	K0327.1A5	1/2-13	1.10	.16	.24	5/32	1.12	6.07
KBP-71	K0327.1A6	5/8-11	1.26	.20	.30	3/16	4.50	10.12
Metric								
KBP-53	K0327.105	M5	18	2.3	2.4	1.5	3	10
KBP-54	K0327.106	M6	20	2.5	2.7	2.0	3	9
KBP-55	K0327.108	M8	20	3.0	3.5	2.5	4	16
KBP-56	K0327.110	M10	22	3.0	4.0	3.0	4	16
KBP-57	K0327.112	M12	28	4.0	6.0	4.0	5	27
KBP-58	K0327.116	M16	32	5.0	7.5	5.0	20	45
Plastic Nose - Standard End Pressure - Inch								
KBP-409	K0328.A1	10-32	.71	.09	.09	1/16	1.35	4.5
KBP-410	K0328.AJ	1/4-28	.79	.10	.11	5/64	1.57	4.50
KBP-411	K0328.A2	1/4-20	.79	.10	.11	5/64	1.57	4.50
KBP-412	K0328.A3	5/16-18	.87	.12	.14	3/32	2.02	7.87
KBP-413	K0328.A4	3/8-16	.87	.12	.16	1/8	2.25	12.36
KBP-414	K0328.A5	1/2-13	1.10	.16	.24	5/32	2.25	12.36
Metric								
KBP-8	K0328.06	M6	20	2.5	2.7	2.0	9	35
KBP-9	K0328.08	M8	22	3.0	3.5	2.5	9	35
KBP-10	K0328.10	M10	28	4.0	6.0	4.0	10	55
KBP-12	K0328.16	M16	32	5.0	7.5	5.0	45	100

Item No.	MFG #	A	B	C	D	E	Initial End Force	Final End Force
Plastic Nose - Light End Pressure - Inch								
KBP-72	K0328.1A1	10-32	.71	.09	.09	1/16	.67	2.25
KBP-73	K0328.1AJ	1/4-28	.79	.10	.11	5/64	.67	2.02
KBP-74	K0328.1A2	1/4-20	.79	.10	.11	5/64	.67	2.02
KBP-75	K0328.1A3	5/16-18	.87	.12	.14	3/32	.90	3.60
KBP-76	K0328.1A4	3/8-16	.87	.12	.16	1/8	.90	3.60
KBP-77	K0328.1A5	1/2-13	1.10	.16	.24	5/32	1.12	6.07
KBP-78	K0328.1A6	5/8-11	1.26	.20	.30	3/16	4.50	10.12
Metric								
KBP-60	K0328.106	M6	20	2.5	2.7	2.0	3	9
KBP-61	K0328.108	M8	20	3.0	3.5	2.5	4	16
KBP-62	K0328.110	M10	22	3.0	4.0	3.0	4	16
KBP-63	K0328.112	M12	28	4.0	6.0	4.0	5	27
Stainless Steel Body								
Stainless Steel Nose - Standard End Pressure - Inch								
KBP-416	K0329.A1	10-32	.71	.09	.09	1/16	1.12	3.82
KBP-417	K0329.AJ	1/4-28	.79	.10	.11	5/64	1.35	3.82
KBP-418	K0329.A2	1/4-20	.79	.10	.11	5/64	1.35	3.82
KBP-419	K0329.A3	5/16-18	.87	.12	.14	3/32	1.80	6.97
KBP-420	K0329.A4	3/8-16	.87	.12	.16	1/8	1.80	6.97
KBP-44	K0329.A5	1/2-13	1.10	.16	.24	5/32	2.25	10.57
KBP-421	K0329.A6	5/8-11	1.26	.20	.30	3/16	10.12	22.48
Metric								
KBP-13	K0329.05	M5	18	2.3	2.4	1.5	5	17
KBP-14	K0329.06	M6	20	2.5	2.7	2.0	6	17
KBP-15	K0329.08	M8	22	3.0	3.5	2.5	7	29
KBP-16	K0329.10	M10	22	3.0	4.0	3.0	8	31
KBP-17	K0329.12	M12	28	4.0	6.0	4.0	10	47
KBP-18	K0329.16	M16	32	5.0	7.5	5.0	45	100
Plastic Nose - Standard End Pressure - Inch								
KBP-422	K0330.A1	10-32	.71	.09	.09	1/16	1.12	3.82
KBP-47	K0330.AJ	1/4-28	.79	.10	.11	5/64	1.35	3.82
KBP-423	K0330.A2	1/4-20	.79	.10	.11	5/64	1.35	3.82
KBP-49	K0330.A3	5/16-18	.87	.12	.14	3/32	1.80	6.97
KBP-50	K0330.A4	3/8-16	.87	.12	.16	1/8	1.80	6.97
KBP-51	K0330.A5	1/2-13	1.10	.16	.24	5/32	2.25	10.57
KBP-52	K0330.A6	5/8-11	1.26	.20	.30	3/16	10.12	22.48
Metric								
KBP-19	K0330.05	M5	18	2.3	2.4	1.5	5	17
KBP-20	K0330.06	M6	20	2.5	2.7	2.0	6	17
KBP-400	K0330.10	M10	22	3.0	4.0	3.0	8	31
KBP-402	K0330.16	M16	32	5.0	7.5	5.0	45	100

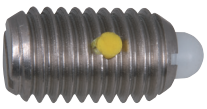
STUBBY SPRING PLUNGERS

Stubby Spring Plungers
Inch and Metric

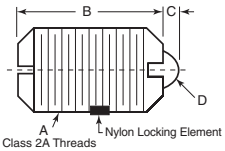
Vlier



Steel



Stainless Steel



Combines the short body of a ball plunger with the long nose of a spring plunger. Used where space is restricted, but where appreciable plunger travel and high end pressures are required. Plunger telescopes completely. Class 2A threads. Permits use where mating surfaces must be flush. Steel noses are case hardened. Stainless passivated. Delrin nose offers long life and high resistance to repeated impacts, moisture and solvents and heat up to 190 degree Fahrenheit. Delrin plunger has electrical insulating properties and will not mar soft metals such as brass and aluminum. Self-lubricating surface. Metric dimensions are in millimeters. Metric end forces are shown in Newtons.

Standard Item No.	Standard MFG#	Locking Element Item No.	Locking Element MFG#	A	B	C	D	Initial End Force	Final End Force
Steel Body									
Steel Nose - Heavy End Pressure - Inch									
JP-1	26601	**JP-1N***	26701	6-32	.375	.063	.046	½	3½
K-1A	M50A	**K1A-N***	33100	8-32	.437	.052	.070	1½	4¾
K-1	M50	**K1-N***	M50P	8-36	.437	.052	.070	1½	4¾
K-2	M52	**K2-N***	M52P	10-32	.468	.065	.093	1¾	6¼
K-3	M54	**K3-N**	M54N	¼-20	.531	.078	.119	3	10½
K-4	M56	**K4-N**	M56N	5/16-18	.562	.084	.135	3¾	15½
K-5	M58	**K5-N**	M58N	⅜-16	.625	.110	.186	4½	18½
K-6	SP-00057* ZINC PLATE*	**K6-N**	SP-00044	½-13	.750	.151	.248	5	28
K-7	M62	**K7-N**	M62N	⅝-11	1.062	.215	.310	7	50
Metric									
—	—	**JP-770N**	26770	M4 x .7	13.0	2.5	1.78	2.25	17.75
—	—	**JP-771N**	26771	M5 x .8	14.5	3.0	2.36	2.25	22.26
—	—	**JP-772N**	26772	M6 X 1.0	16.0	4.0	3.02	2.25	26.67
—	—	**JP-773N**	26773	M8 x 1.25	16.0	5.0	3.43	2.25	44.52
—	—	**JP-774N**	26774	M10 x 1.5	17.5	5.5	4.72	4.51	53.35
—	—	**JP-775N**	26775	M12 x 1.75	20.5	6.5	6.30	11.08	66.68
—	—	**JP-777N**	26777	M16 x 2.0	28.5	8.0	7.87	15.59	115.62
Steel Nose - Light End Pressure - Inch									
JP-2	27001	**JP-2N***	27101	6-32	.375	.063	.046	½	1½
LK-1A	M51A	**LK1A-N***	M51AP	8-32	.437	.052	.070	½	1½
LK-1	M51	**LK1-N***	M51P	8-36	.437	.052	.070	½	1½
LK-2	M53	**LK2-N***	M53P	10-32	.468	.065	.093	¾	2½
LK-3	M55	**LK3-N**	M55N	¼-20	.531	.078	.119	1	3½
LK-4	M57	**LK4-N**	M57N	5/16-18	.562	.084	.135	¼	4
LK-5	M59	**LK5-N**	M59N	⅜-16	.625	.110	.186	1½	5
LK-6	M61	**LK6-N**	M61N	½-13	.750	.151	.248	1¾	5½
LK-7	M63	**LK7-N**	M63N	⅝-11	1.062	.215	.310	2	8½
Metric									
—	—	**JP-170N**	27170	M4 x .7	13.0	2.5	1.78	2.25	8.92
—	—	**JP-171N**	27171	M5 x .8	14.5	3.0	2.36	1.37	13.34
—	—	**JP-172N**	27172	M6 x 1.0	16.0	4.0	3.02	1.37	15.59
—	—	**JP-173N**	27173	M8 x 1.25	16.0	5.0	3.43	2.25	20.00
—	—	**JP-174N**	27174	M10 x 1.5	17.5	5.5	4.72	6.67	33.34
—	—	**JP-175N**	27175	M12 x 1.75	20.5	6.5	6.30	7.55	37.85
Delrin Nose - Heavy End Pressure - Inch									
JP-7	30201	**JP-5N***	27101	6-32	.375	.063	.046	½	3½
NK-1A	NM50A	**NK1A-N***	M51AP	8-32	.437	.052	.070	1½	4¾
NK-1	NM50	**NK1-N***	M51P	8-36	.437	.052	.070	1½	4¾
NK-2	NM52	**NK2-N***	M53P	10-32	.468	.065	.093	1¾	6¼
NK-3	NM54	**NK3-N**	M55N	¼-20	.531	.078	.119	3	10½
NK-4	NM56	**NK4-N**	M57N	5/16-18	.562	.084	.135	3¾	15½
NK-5	33010P	**NK5-N**	M59N	⅜-16	.625	.110	.186	4½	18½
NK-6	NM60	**NK6-N**	M61N	½-13	.750	.151	.248	5	28
—		**NK7-N**	M63N	⅝-11	1.062	.215	.310	7	50
Metric									
—	—	**JP-370N**	30370	M4 x .7	13.0	2.5	1.78	2.25	17.75
—	—	**JP-371N**	30371	M5 x .8	14.5	3.0	2.36	2.25	22.26
—	—	**JP-372N**	30372	M6 x 1.0	16.0	4.0	3.02	2.25	26.67
—	—	**JP-373N**	30373	M8 x 1.25	16.0	5.0	3.43	2.25	44.52
—	—	**JP-377N**	30377	M16 x 2.0	28.5	8.0	7.87	15.59	115.62
Delrin Nose - Light End Pressure - Inch									
JP-5	30601	**JP-7N***	30701	6-32	.375	.063	.046	½	1½
LNK-1A	NM51A	**LNK1A-N***	NM51AP	8-32	.437	.052	.070	½	1½
LNK-1	NM51	**LNK1-N***	NM51P	8-36	.437	.052	.070	½	1½
LNK-2	NM53	**LNK2-N**	NM53P	10-32	.468	.065	.093	¾	2½
LNK-3	NM55	**LNK3-N**	NM55N	¼-20	.531	.078	.119	1	3½
LNK-4	NM57	**LNK4-N**	NM57N	5/16-18	.562	.084	.135	¼	4
LNK-5	NM59	**LNK5-N**	NM59N	⅜-16	.625	.110	.186	1½	5
LNK-6	33312P	**LNK6-N**	NM61N	½-13	.750	.151	.248	1¾	5½
LNK-7	NM63	**LNK7-N**	NM63N	⅝-11	1.062	.215	.310	2	8½
Metric									
—	—	**JP-270N**	30770	M4 x .7	13.0	2.5	1.78	2.25	8.92
—	—	**JP-271N**	30771	M5 x .8	14.5	3.0	2.36	1.37	13.34
—	—	**JP-272N**	30772	M6 x 1.0	16.0	4.0	3.02	1.37	15.59
—	—	**JP-273N**	30773	M8 x 1.25	16.0	5.0	3.43	2.25	20.00
Stainless Steel Body									
Stainless Steel Nose - Heavy End Pressure - Inch									
K-1AS	SSM50A	**K1A-SN***	SSM50AP	8-32	.437	.052	.070	1½	4¾
K-1S	SSM50	**K1-SN***	SSM50P	8-36	.437	.052	.070	1½	4¾
K-2S	SSM52	**K2-SN***	SSM52P	10-32	.468	.065	.093	1¾	6¼
K-3S	SSM54	**K3-SN**	SSM54N	¼-20	.531	.078	.119	3	10½
K-4S	SSM56	**K4-SN**	SSM56N	5/16-18	.562	.084	.135	3¾	15½
K-5S	SSM58	**K5-SN**	33425	⅜-16	.625	.110	.186	4½	18½
K-6S	SSM60	**K6-SN**	SSM60N	½-13	.750	.151	.248	5	28
K-7S	SSM62	**K7-SN**	SSM62N	⅝-11	1.062	.215	.310	7	50
Metric									
Stainless Steel Nose - Light End Pressure - Inch									
LK-1AS	SSM51A	**LK1A-SN***	SSM51AP	8-32	.437	.052	.070	½	1½
LK-1S	SSM51	**LK1-SN***	SSM51P	8-36	.437	.052	.070	½	1½
LK-2S	SSM53	**LK2-SN***	SSM53P	10-32	.468	.065	.093	¾	2½

*Nylon Patch

Standard Item No.	Standard MFG#	Locking Element Item No.	Locking Element MFG#	A	B	C	D	Initial End Force	Final End Force
LK-3S	SSM55	**LK3-SN**	SSM55N	¼-20	.531	.078	.119	1	3½
LK-4S	SSM57	**LK4-SN**	SSM57N	5/16-18	.562	.084	.135	1¼	4
LK-5S	SSM59	**LK5-SN**	SSM59N	⅜-16	.625	.110	.186	1½	5
LK-6S	SSM61	**LK6-SN**	SSM61N	½-13	.750	.151	.248	1¾	5½
LK-7S	SSM63	**LK7-SN**	SSM63N	⅝-11	1.062	.215	.310	2	8½
Metric									
Delrin Nose - Heavy End Pressure - Inch									
NK-1AS	33460P	**NK1A-SN***	SSMD50AP	8-32	.437	.052	.070	1½	4¾
NK-1S	SSMD50	**NK1-SN***	SSMD50P	8-36	.437	.052	.070	1½	4¾
NK-2S	SSMD52	**NK2-SN***	SSMD52P	10-32	.468	.065	.093	1¾	6¼
NK-3S	SSMD54	**NK3-SN**	SSMD54N	¼-20	.531	.078	.119	3	10½
NK-4S	SSMD56	**NK4-SN**	SSMD56N	5/16-18	.562	.084	.135	3¾	15½
NK-5S	SSMD58	**NK5-SN**	SSMD58N	⅜-16	.625	.110	.186	4½	18½
NK-6S	SSMD60	**NK6-SN**	SSMD60N	½-13	.750	.151	.248	5	28
—	—	**NK-7S**	SSMD62	⅝-11	1.062	.215	.310	7	50
—	—	**NK7-SN**	SSMD62N	⅝-11	1.062	.215	.310	7	50
Metric									
Delrin Nose - Light End Pressure - Inch									
LNK-1AS	33560P	LNK1A-SN*	sSMD51AP	8-32	.437	.052	.070	½	1½
LNK-1S	SSMD51	**LNK1-SN***	SSMD51P	8-36	.437	.052	.070	½	1½
LNK-2S	SSMD53	**LNK2-SN***	SSMD53P	10-32	.468	.065	.093	¾	2½
LNK-3S	SSMD55	**LNK3-SN**	SSMD55N	¼-20	.531	.078	.119	1	3½
LNK-4S	SSMD57	**LNK4-SN**	SSMD57N	5/16-18	.562	.084	.135	¼	4
LNK-5S	SSMD59	**LNK5-SN**	SSMD59N	⅜-16	.625	.110	.186	1½	5
LNK-6S	SSMD61	**LNK6-SN**	SSMD61N	½-13	.750	.151	.248	1¾	5½
LNK-7S	SSMD63	**LNK7-SN**	53526	⅝-11	1.062	.215	.310	2	8½

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Note: Plungers with nylon locking element are not recommended for aluminum applications.
Note 2: End force for inch is in Lbs. End force for Metric is in Newtons.

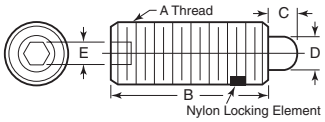
Posi Hex Spring Plungers Inch and Metric



Steel



Stainless Steel



Posi-hex plungers allow for easy installation and removal from the back side using a hex wrench. Plunger assembly will not come apart under critical applications because the hex plug is permanently installed and cannot break loose upon installation or removal. Posi-hex is recommended for use in high torque applications. Metric dimensions are in millimeters. Metric end pressures are in Newtons.

Standard Item No.	Standard MFG #	Locking Element Item No.	Locking Element MFG #	A	B	C	D	E	Initial End Force	Final End Force
Steel Body										
Steel Nose - Heavy End Pressure - Inch										
PH-48B	PH48B	PH-48BN*	PH48BP	6-32	1/2	1/16	.044	.050	1.0	1.6
PH-48	PH48	PH-48N*	PH48P	6-32	17/32	1/16	.044	.050	1.5	4.5
PH-50	PH50	PH-50N*	PH50P	8-32	5/8	3/32	.069	.063	2.7	7.3
PH-52	PH52	PH-52N*	PH52P	10-32	3/4	1/8	.091	.063	2.9	11.1
PH-54B	PH54B	PH-54BN	PH54BN	1/4-20	3/4	1/8	.117	.079	2.0	9.0
PH-54	PH54	PH-54N	PH54N	1/4-20	1	3/16	.117	.079	3.0	13.0
PH-54A	PH54A	PH-54AN	PH54AN	1/4-28	1	3/16	.117	.079	3.0	13.0
PH-56	PH56	—	—	5/16-18	1	3/16	.133	.093	3.0	15.0
Metric										
JP-570	26870	—	—	M4 x .7	16	2.5	1.78	2	11.96	41.09
JP-571	26871	—	—	M5 x .8	19	3.0	2.36	2.5	12.85	49.03
JP-572	26872	—	—	M6 x 1.0	25	5.0	3.02	3	13.24	57.37
JP-573	26873	—	—	M8 x 1.25	25	5.0	3.43	4	13.24	66.20
JP-574	26874	—	—	M10 x 1.5	29	5.0	4.72	5	24.32	64.04
JP-575	26875	—	—	M12 x 1.75	32	6.0	6.30	6	29.13	76.78
JP-577	26877	—	—	M16 x 2.0	38	8.0	7.87	8	46.39	112.58
Steel Nose - Light End Pressure - Inch										
PH-49	PH49	PH-49N*	PH49P	6-32	17/32	1/16	.044	.050	0.5	1.5
PH-51	PH51	PH-51N*	PH51P	8-32	5/8	3/32	.069	.063	0.7	2.3
PH-53	PH53	PH-53N*	PH53P	10-32	3/4	1/8	.091	.063	1.3	2.7
PH-55	PH55	PH-55N	PH55N	1/4-20	1	3/16	.117	.079	1.0	4.0
PH-55A	PH55A	PH-55AN	PH55AN	1/4-28	1	3/16	.117	.079	1.0	4.0
PH-57	PH57	PH-57N	PH57N	5/16-18	1	3/16	.133	.093	1.5	4.5
Metric										
JP-670	27270	—	—	M4 x .7	16	2.5	1.78	2	3.14	10.20
JP-672	27272	—	—	M6 x 1.0	25	5.0	3.02	3	4.41	17.65
JP-671	27271	—	—	M5 x .8	19	3.0	2.36	2.5	5.79	11.96
JP-673	27273	—	—	M8 x 1.25	25	5.0	3.43	4	6.67	19.91
JP-674	27274	—	—	M10 x 1.5	29	5.0	4.72	5	12.36	31.77
JP-675	27275	—	—	M12 x 1.75	32	6.0	6.30	6	11.96	41.09
JP-677	27277	—	—	M16 x 2.0	38	8.0	7.87	8	15.49	46.39
Metric										
JP-470	30470	—	—	M4 x .7	16	2.5	1.78	2	11.96	41.09
JP-471	30471	—	—	M5 x .8	19	3.0	2.36	2.5	12.85	49.03
JP-472	30472	—	—	M6 x 1.0	25	5.0	3.02	3	13.24	57.37
JP-473	30473	—	—	M8 x 1.25	25	5.0	3.43	4	13.24	66.20
JP-478	30478	—	—	M20 x 2.5	44	8.0	9.50	10	29.91	166.23
Metric										
JP-870	30870	—	—	M4 x .7	16	2.5	1.78	2	3.14	10.20
JP-871	30871	—	—	M5 x .8	19	3.0	2.36	2.5	5.79	11.96
JP-872	30872	—	—	M6 x 1.0	25	5.0	3.02	3	4.41	17.65
JP-873	30873	—	—	M8 x 1.25	25	5.0	3.43	4	6.67	19.91
JP-875	30875	—	—	M12 x 1.75	32	6.0	6.30	6	11.96	41.09
Stainless Steel Body										
Stainless Steel Nose - Heavy End Pressure - Inch										
SSPH-48B	SSPH48B	SSPH-48BN*	—	6-32	1/2	1/16	.044	.050	1.0	1.6
SSPH-48	SSPH48	SSPH-48N*	—	6-32	17/32	1/16	.044	.050	1.5	4.5
SSPH-50	SSPH50	SSPH-50N*	—	8-32	5/8	3/32	.069	.063	2.7	7.3
SSPH-52	SSPH52	SSPH-52N*	—	10-32	3/4	1/8	.091	.063	2.9	11.1
SSPH-54B	SSPH54B	SSPH-54BN	—	1/4-20	3/4	1/8	.117	.079	2.0	9.0
SSPH-54	SSPH54	SSPH-54N	—	1/4-20	1	3/16	.117	.079	3.0	13.0
SSPH-54A	SSPH54A	SSPH-54AN	—	1/4-28	1	3/16	.117	.079	3.0	13.0
SSPH-56	SSPH56	SSPH-56N	SSPH-56N	5/16-18	1	3/16	.133	.093	3.0	15.0
Metric										
Stainless Steel Nose - Light End Pressure - Inch										
SSPH-49	SSPH49	SSPH-49N	—	6-32	17/32	1/16	.044	.050	0.5	1.5
SSPH-51	SSPH51	SSPH-51N	—	8-32	5/8	3/32	.069	.063	0.7	2.3
SSPH-53	SSPH53	SSPH-53N	—	10-32	3/4	1/8	.091	.063	1.3	2.7
SSPH-55	SSPH55	SSPH-55N	—	1/4-20	1	3/16	.117	.079	1.0	4.0
SSPH-55A	SSPH55A	SSPH-55AN	—	1/4-28	1	3/16	.117	.079	1.0	4.0
SSPH-57	SSPH57	SSPH-57N	SSPH57N	5/16-18	1	3/16	.133	.093	1.5	4.5

*Nylon patch

Note: Plungers with nylon locking elements are not recommended for aluminum applications.
Note 2: End force for inch is in Lbs. End force for Metric is in Newtons.

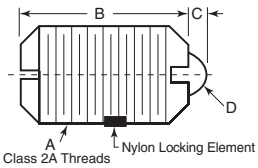
Spring Plungers Inch and Metric Short with Extended Travel



Steel Nose



Delrin Nose



The "short" spring plunger with extended travel provides the space saving features of a short body, along with the added nose travel of the standard length plunger. The nose travel (C column) and the diameter (D column) are identical to the standard spring plunger, with spring pressures mid range between the light and heavy "short" spring plunger. All "short" style plungers have the solid screw driver slot.

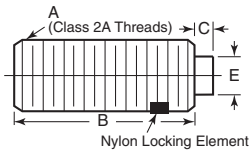
Standard Item No.	Standard MFG #	Locking Element Item No.	Locking Element MFG #	A	B	C	D	Initial End Force	Final End Force
Steel Body									
Steel Nose									
NSP-1	33135P	NSP-1N	33135	8-32	7/16	.093	.070	1.0	3.25
NSP-2	33136P	NSP-2N	33136	8-36	7/16	.093	.070	1.0	3.25
NSP-3	33137P	NSP-3N	33137	10-32	15/32	.125	.093	1.25	4.25
NSP-4	33138P	NSP-4N	33138	1/4-20	17/32	.187	.119	2.0	7.0
NSP-5	33139P	NSP-5N	33139	5/16-18	9/16	.187	.135	2.5	10.5
NSP-6	33140P	NSP-6N	33140	3/8-16	5/8	.187	.186	3.0	12.5
NSP-7	33141P	NSP-7N	33141	1/2-13	3/4	.250	.248	3.5	19.0
NSP-8	33142P	NSP-8N	33142	5/8-11	1 1/16	.312	.310	4.5	33.5
Metric									
Delrin Nose									
NSP-9	33035P	NSP-9N	33035	8-32	7/16	.093	.070	1.0	3.25
NSP-10	33036P	NSP-10N	33036	8-36	7/16	.093	.070	1.0	3.25
NSP-11	33037P	NSP-11N	33037	10-32	15/32	.125	.093	1.25	4.25
NSP-12	33038P	NSP-12N	33038	1/4-20	17/32	.187	.119	2.0	7.0
NSP-13	33039P	NSP-13N	33039	5/16-18	9/16	.187	.135	2.5	10.5
NSP-14	33040P	NSP-14N	33040	3/8-16	5/8	.187	.186	3.0	12.5
NSP-15	33041P	NSP-15N	33041	1/2-13	3/4	.250	.248	3.5	19.0
NSP-16	33042P	NSP-16N	33042	5/8-11	1 1/16	.312	.310	4.5	33.5
Metric									
Stainless Steel Body									
Stainless Steel Nose									
NSP-17	33145P	NSP-17N	33145	8-32	7/16	.093	.070	1.0	3.25
NSP-18	33146P	NSP-18N	33146	8-36	7/16	.093	.070	1.0	3.25
NSP-19	33147P	NSP-19N	33147	10-32	15/32	.125	.093	1.25	4.25
NSP-20	33148P	NSP-20N	33148	1/4-20	17/32	.187	.119	2.0	7.0
NSP-21	33149P	NSP-21N	33149	5/16-18	9/16	.187	.135	2.5	10.5
NSP-22	33150P	NSP-22N	33150	3/8-16	5/8	.187	.186	3.0	12.5
NSP-23	33151P	NSP-23N	33151	1/2-13	3/4	.250	.248	3.5	19.0
Delrin Nose									
NSP-24	33045P	NSP-24N	33045	8-32	7/16	.093	.070	1.0	3.25
NSP-25	33046P	NSP-25N	33046	8-36	7/16	.093	.070	1.0	3.25
NSP-26	33047P	NSP-26N	33047	10-32	15/32	.125	.093	1.25	4.25
NSP-27	33048P	NSP-27N	33048	1/4-20	17/32	.187	.119	2.0	7.0
NSP-28	33049P	NSP-28N	33049	5/16-18	9/16	.187	.135	2.5	10.5
NSP-29	33050P	NSP-29N	33050	3/8-16	5/8	.187	.186	3.0	12.5
NSP-30	33051P	NSP-30N	33051	1/2-13	3/4	.250	.248	3.5	19.0

STANDARD QUOTES
IN 4 HOURS OR LESS

SPRING PLUNGERS

Hi-Life Flat Hexagonal Nose
Steel Body and Steel Nose





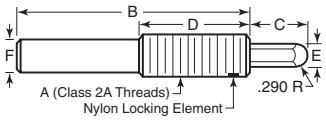
Guaranteed for 10 million cycles. Built to take the tough abuse of high speed, long run stamping operations. Flat hexagonal nose design makes them ideal for use as parts lifters in dies, or other applications requiring exceptionally long life. Special long life springs. Bodies black oxide finish. Nylon locking element. Not recommended in aluminum applications.

Item No.	MFG #	A	B	C	E	Initial End Force	Final End Force
HL-1	HT54N	¼-20		.078	⅛	½	6⅛
HL-2	HT56N	5/16-18	1.406	.088	⅛	½	8
HL-3	HT58N	⅜-16	1.532	.097	3/16	½	9⅞
HL-4	HT60N	½-13	1.718	.105	¼	½	16

Note: End force for inch is in Lbs.

Long Travel - Hex Nose
Steel Body
Vlier





For use in large sheet metal forming dies. The long plunger stroke lifts the formed sheet clear of the permit access for easy removal. Hexagonal shaped plungers provide for easy insertion, adjustment or removal with a standard wrench. Plungers are case hardened. Bodies and heavy end pressure plunger noses have a black oxide finish. Light end pressure plunger noses have a zinc plated finish. All bodies have a nylon locking element and are not recommended in aluminum applications.

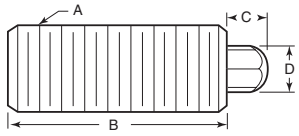
Item No.		A	B	C	D	E	F	Initial End Force	Final End Force
Heavy End Pressure									
LTP-00	HH6251	5/8-11	3⅛	1	1¼	5/18	.510	4	20
LTP-0	HH7501	¾-10	3¾	1	1½	⅜	.623	4	35

Note: End force for inch is in Lbs.

Hex Nose
Steel Body
Heavy End Pressure

Vlier





For use in fixtures, jigs, detents, dies and other tooling applications. They give sure and positive spring tension. Black oxide finish. Accurate spring pressures. Nose ends accurately radiused. Has self-lubricating surface.

Standard Item No.	MFG #	Locking Element Item No.	MFG #	A	B	C	D	Initial End Force Lbs.	Final End Force Lbs.
HN-1	H54	**HN-1N**	H54N	¼-20	1	3/16	⅛	3.0	13.0
HN-2	H56	**HN-2N**	H56N	5/16-18	1	3/16	⅛	3.0	15.0
HN-3	H58	**HN-3N**	H58N	⅜-16	1⅛	3/16	3/16	5.5	14.5
HN-4	H60	**HN-4N**	H60N	½-13	1¼	¼	¼	6.6	17.4
HN-5	H62	**HN-5N**	H62N	⅝-11	1½	5/16	5/16	10.5	25.5
HN-6	H64	**HN-6N**	H64N	¾-10	1¾	5/16	⅜	6.7	37.3
HN-7	H66	**HN-7N**	H66N	1-8	2 13/32	½	½	16.0	68.0

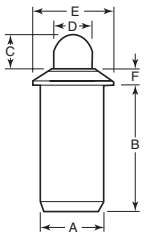
Note: Plungers with nylon locking element are not recommended for use in aluminum applications

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Steel or Stainless Steel Body With Steel or Stainless Steel Nose

Vlier





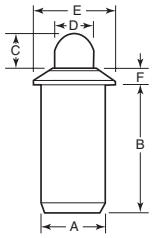
Easy installation for use in wood, soft plastic or aluminum. No thread adjustment. Withstands high temperature. Longer travel. Steel body and plunger are made from 12L14 steel. Plunger is case hardened to Rc 50-55. Stainless body and plunger are 300 series. Spring is 17-7 stainless for both styles.

Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	+.002/ -.000 A	B	C	D	E	F
PFP-51	PFP51	**SPFP-51**	SPFP51	.75	2.00	.188	.441	.094	.121	.250	.044
PFP-52	PFP52	**SPFP-52**	SPFP52	1.50	4.50	.188	.441	.094	.121	.250	.044
PFP-53	PFP53	**SPFP-53**	SPFP53	1.25	3.00	.250	.521	.125	.168	.312	.055
PFP-54	PFP54	**SPFP-54**	SPFP54	2.50	6.00	.250	.521	.125	.168	.312	.055
PFP-57	PFP57	**SPFP-57**	SPFP57	2.50	7.00	.375	.788	.187	.234	.500	.096
PFP-58	PFP58	**SPFP-58**	SPFP58	5.00	14.00	.375	.786	.187	.234	.500	.096
PFP-59	PFP59	**SPFP-59**	SPFP59	4.00	9.00	.500	1.100	.250	.332	.688	.134
PFP-60A	PFP60	**SPFP-60**	SPFP60	8.00	18.00	.500	1.100	.250	.332	.688	.134

Steel or Stainless Steel Body With Delrin Nose

Vlier



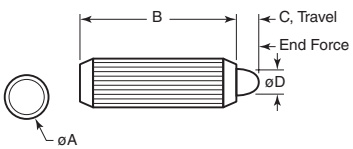


Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F
Light Pressure - White Delrin Nose											
PFP-86	10562	**SPFP-86**	10586	.50	1.0	.125	.252	.062	.070	.187	.032
PFP-87	10564	**SPFP-87**	10588	.75	2.5	.188	.405	.094	.121	.250	.035
PFP-88	10566	**SPFP-88**	10590	1.5	3.0	.250	.481	.125	.168	.312	.044
PFP-89	10568	**SPFP-89**	10592	2.0	5.0	.312	.643	.151	.186	.375	.045
PFP-90	10570	**SPFP-90**	10594	2.5	7.0	.375	.785	.187	.234	.500	.078
PFP-91	10572	**SPFP-91**	10596	4.0	9.0	.500	1.13	.250	.332	.688	.088
Heavy Pressure - Brown Delrin Nose											
PFP-80	10550	**SPFP-80**	10574	1.0	2.0	.125	.252	.062	.070	.187	.032
PFP-81	10552	**SPFP-81**	10576	1.5	4.5	.188	.405	.094	.121	.250	.035
PFP-82	10554	**SPFP-82**	10578	2.5	6.0	.250	.481	.125	.168	.312	.044
PFP-83	10556	**SPFP-83**	10580	4.0	10.0	.312	.643	.151	.186	.375	.045
PFP-84	10558	**SPFP-84**	10582	5.0	14.0	.375	.785	.187	.234	.500	.078
PFP-85	10560	**SPFP-85**	10584	8.0	18.0	.500	1.13	.250	.332	.688	.088

Shoulderless Knurled Press-Fit Steel and Stainless Steel Bodies Stainless Steel and Nylon Noses

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These plungers are designed for simple, easy installation into wood, soft plastic or aluminum. Ideal where a threaded plunger is impractical or when threaded adjustments are not required. Nylon nose resists marring. Designed without a shoulder for insertion from either end.

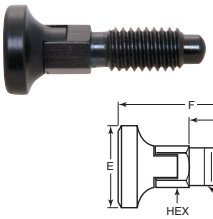
Steel Item No.	MFG #	Stainless Item No.	MFG#	A	B	C	D	Initial End Force	Final End Force
Nylon Ball									
Light Pressure									
WBP-5	DPFPK51	**WBP-45**	DSPFPK51	.215	.485	.094	.121	.75	2
WBP-15	DPFPK53	**WBP-55**	DSPFPK53	.259	.576	.125	.168	1.25	3
WBP-25	DPFPK57	**WBP-65**	DSPFPK57	.384	.882	.187	.234	2.5	7
WBP-35	DPFPK59	**WBP-75**	DSPFPK59	.509	1.234	.250	.332	4	9
Heavy Pressure									
WBP-10	DPFPK52	**WBP-50**	DSPFPK52	.215	.485	.094	.121	1.5	4.5
WBP-20	DPFPK54	**WBP-60**	DSPFPK54	.259	.576	.125	.168	2.5	6
WBP-30	DPFPK58	**WBP-70**	DSPFPK58	.384	.882	.187	.234	5	14
WBP-40	DPFPK60	**WBP-80**	DSPFPK60	.509	1.234	.250	.332	8	18
Stainless Steel Ball									
Light Pressure									
WBP-85	PFPK51	**WBP-125**	SPFPK51	.215	.485	.094	.121	.75	2
WBP-95	PFPK53	**WBP-135**	SPFPK53	.259	.576	.125	.168	1.25	3
WBP-105	PFPK57	**WBP-145**	SPFPK57	.384	.882	.187	.234	2.5	7
WBP-115	PFPK59	**WBP-155**	SPFPK59	.509	1.234	.250	.332	4	9
Heavy Pressure									
WBP-90	PFPK52	**WBP-130**	SPFPK52	.215	.485	.094	.121	1.5	4.5
WBP-100	PFPK54	**WBP-140**	SPFPK54	.259	.576	.125	.168	2.5	6
WBP-110	PFPK58	**WBP-150**	SPFPK58	.384	.882	.187	.234	5	14
WBP-120	PFPK60	**WBP-160**	SPFPK60	.509	1.234	.250	.332	8	18

HAND RETRACTABLE SPRING PLUNGERS

Hand retractable spring plungers permit the plunger to be easily withdrawn and re-engaged by pulling on the handle. Hardened plunger permits greater side loading and the tapered end on the plunger allows for easy alignment. Used on original equipment and machining applications as positioners, locating pins, indexing devices, etc. Steel are zinc plated and stainless is Type 303 or equivalent. On ring handle stainless models, all parts are stainless except the ring handle which is nickel plated steel. Locking types have a rest position where the plunger can stay in the retracted position. Nylon locking element not recommended for aluminum applications. Metric dimensions are in millimeters. Metric end forces shown in Newtons.

Black Delrin® Plastic Handle - Locking Steel Body and Plunger

Vlier

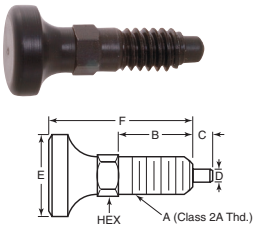


Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D	E	F	Hex
Inch												
PRT-11	—	**PRT-11N**	—	.12	.36	¼-20	.50	.130	.156	.50	.97	¼
PRT-13	—	**PRT-13N**	—	.25	2.00	⅜-16	.75	.187	.248	.75	1.44	⅜
PRT-12	—	**PRT-12N**	—	.50	1.75	½-13	1.00	.250	.312	1.00	1.90	½
Metric												
PRT-14*	—	**PRT-14N***	—	.50	1.5	M6 x 1.00	13	3	3	12	25	6
PRT-15		**PRT-15N**		1.00	9.0	M10 x 1.50	20	5	6	19	38	10
PRT-16		—		2.50	8.0	M12 x 1.75	25	6	8	25	47	12

*No thread relief on M6 thread size

Black Delrin® Plastic Handle - Non-Locking Steel Body and Plunger

Vlier

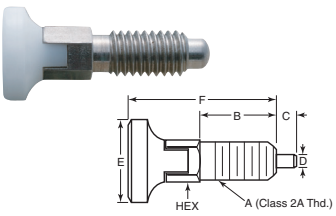


Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D	E	F	Hex
Inch												
PRT-1	PRT250	PRT-1N	PRT250P	.12	.36	¼-20	.50	.130	.156	.50	.97	¼
PRT-3	PRT375	PRT-3N	PRT375P	.25	2.00	⅜-16	.75	.187	.248	.75	1.44	⅜
PRT-2	PRT500	PRT-2N	PRT500P	.50	1.75	½-13	1.00	.250	.312	1.00	1.90	½
Metric												
PRT-4*	MPRT6	—	MPRT10P	.50	1.5	M6 x 1.00	13	3	3	12	25	6
PRT-5	MPRT10	PRT-5N		1.00	9.0	M10 x 1.50	20	5	6	19	38	10
PRT-6	MPRT12	—		2.50	8.0	M12 x 1.75	25	6	8	25	47	12

*No thread relief on M6 thread size

White Delrin® Plastic Handle - Locking Stainless Steel Body and Plunger

Vlier

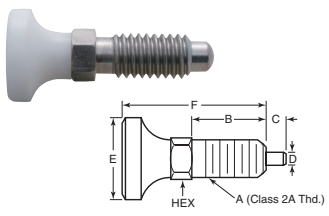


Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D	E	F	Hex
Inch												
PRT-26	SPRTL250	**PRT-26N**	—	.12	.36	¼-20	.50	.130	.156	.50	.97	¼
PRT-27	SPRTL375	**PRT-27N**	—	.25	2.00	⅜-16	.75	.187	.248	.75	1.44	⅜
PRT-28	SPRTL500	**PRT-28N**	—	.50	1.75	½-13	1.00	.250	.312	1.00	1.90	½
Metric												
PRT-29*	SMPRTL6	—	—	.50	1.5	M6 x 1.00	13	3	3	12	25	6
PRT-30	SMPRTL10	**PRT-30N**	—	1.00	9.0	M10 x 1.50	20	5	6	19	38	10
PRT-31	SMPRTL12	—	—	2.50	8.0	M12 x 1.75	25	6	8	25	47	12

*No thread relief on M6 thread size

White Delrin® Plastic Handle - Non-Locking Stainless Steel Body and Plunger

Vlier



Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D	E	F	Hex
Inch												
PRT-20	SPRT250	**PRT-20N**	SPRT250P	.12	.36	¼-20	.50	.130	.156	.50	.97	¼
PRT-21	SPRT375	**PRT-21N**	SPRT375P	.25	2.00	⅜-16	.75	.187	.248	.75	1.44	⅜
PRT-22	SPRT500	**PRT-22N**	SPRT500P	.50	1.75	½-13	1.00	.250	.312	1.00	1.90	½
Metric												
PRT-23*	SMPRT6	—		.50	1.5	M6 x 1.00	13	3	3	12	25	6
PRT-24	SMPRT10	—		1.00	9.0	M10 x 1.50	20	5	6	19	38	10
PRT-25	SMPRT12	**PRT-25N**	SMPRT12P	2.50	8.0	M12 x 1.75	25	6	8	25	47	12

*No thread relief on M6 thread size

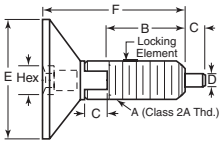
HAND RETRACTABLE SPRING PLUNGERS

Hand retractable spring plungers permit the plunger to be easily withdrawn and re-engaged by pulling on the handle. Hardened plunger permits greater side loading and the tapered end on the plunger allows for easy alignment. Used on original equipment and machining applications as positioners, locating pins, indexing devices, etc. Steel are zinc plated and stainless is Type 303 or equivalent. On ring handle stainless models, all parts are stainless except the ring handle which is nickel plated steel. Locking types have a rest position where the plunger can stay in the retracted position. Nylon locking element not recommended for aluminum applications. Metric dimensions are in millimeters. Metric end forces shown in Newtons.

Hex Drive Handle - Locking Steel and Stainless Steel

Vlier

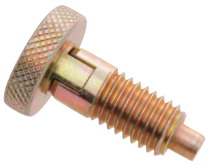


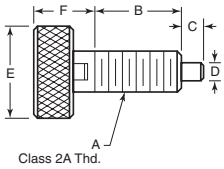


Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	+.000/ -.001 D	E	F	Hex
Steel												
Inch												
FHR-11	SLR250	**FHR-1**	SLR250P	1.0	4.0	¼-20	.400	⅛	.123	¾	.805	⅛
FHR-22	SLR312	**FHR-2**	SLR312P	1.0	6.0	5/16-18	.530	3/16	.154	⅞	1.070	⅛
FHR-33	SLR375	**FHR-3**	SLR375P	1.0	8.0	⅜-16	.750	7/32	.185	1	1.260	7/32
FHR-44	SLR500	**FHR-4**	SLR500P	1.0	10.0	½-13	.650	¼	.248	1¼	1.380	¼
Metric												
FHR-50	SLRM6	**FHR-50N**	SLRM6P	4.45	18.0	M6 x 1.00	10	3.2	3.0	19	20	3
FHR-55	SLRM8	**FHR-55N**	SLRM8P	4.45	27.0	M8 x 1.25	13.5	4.8	4	22	27	3
FHR-60	SLRM10	**FHR-60N**	SLRM10P	4.45	36.0	M10 x 1.50	19	5.6	4.7	25	32	5
FHR-65	SLRM12	**FHR-65N**	SLRM12P	4.45	44.5	M12 x 1.75	16.5	6.5	6.5	32	35	6
Stainless Steel												
Inch												
SPHR-635	SSLR250	**SPHR-635N**	SSLR250P	1.0	4.0	¼-20	.4	.125	.123	.75	.805	.125
SPHR-640	SSLR312	**SPHR-640N**	SSLR312P	1.0	6.0	5/16-18	.53	.187	.154	.875	1.07	.125
SPHR-645	SSLR375	**SPHR-645N**	SSLR375P	1.0	8.0	⅜-16	.75	.22	.185	1	1.26	.218
SPHR-650	SSLR500	**SPHR-650N**	SSLR500P	1.0	10.0	½-13	.65	.25	.248	1.25	1.38	.25
Metric												
SPHR-615	SSLRM6	**SPHR-615N**	SSLRM6P	4.45	18.0	M6 x 1.00	10	3.2	3.0	19	20	3
SPHR-620	SSLRM8	**SPHR-620N**	SSLRM8P	4.45	27.0	M8 x 1.25	13.5	4.8	4	22	27	3
SPHR-625	SSLRM10	**SPHR-625N**	SSLRM10P	4.45	36.0	M10 x 1.50	19	5.6	4.7	25	32	5
SPHR-630	SSLRM12	**SPHR-630N**	SSLRM12P	4.45	44.5	M12 x 1.75	16.5	6.5	6.5	32	35	6

Knurled Handle - Locking Steel and Stainless Steel

Vlier

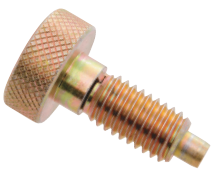


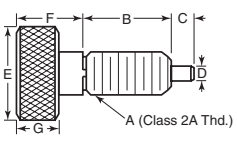


Standard Item No.	MFG #	Locking Element Item No.	MFG#	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	+.000/ -.001 D	E	F
Steel											
Inch											
PHR-250	SLF250	**PHR-250N**	SLF250P	.50	2.0	¼-20	.40	.125	.124	.50	.405
PHR-375	SLF375	**PHR-375N**	SLF375P	.50	3.0	⅜-16	.75	.220	.186	.75	.510
PHR-500	SLF500	**PHR-500N**	SLF500P	.50	4.0	½-13	.65	.250	.249	1.00	.730
Metric											
PHR-600	SLFM6	**PHR-600N**	SLFM6P	2.2	8.9	M6 x 1.00	10	3.2	3.0	13	10.7
PHR-605	SLFM10	**PHR-605N**	SLFM10P	2.2	13.3	M10 x 1.50	19	5.6	4.7	19	13
PHR-610	SLFM12	**PHR-610N**	SLFM12P	2.2	17.8	M12 x 1.75	17	6.4	6.3	25	18
Stainless Steel											
Inch											
SPHR-250	SSLF250	**SPHR-250N**	SSLF250P	.50	2.0	¼-20	.40	.125	.124	.50	.405
SPHR-375	SSLF375	**SPHR-375N**	SSLF375P	.50	3.0	⅜-16	.75	.220	.186	.75	.510
SPHR-500	SSLF500	**SPHR-500N**	SSLF500P	.50	4.0	½-13	.65	.250	.249	1.00	.730
Metric											
SPHR-600	SSLFM6	**SPHR-600N**	SSLFM6P	2.2	8.9	M6 x 1.00	10	3.2	3.0	13	10.7
SPHR-605	SSLFM10	**SPHR-605N**	SSLFM10P	2.2	13.3	M10 x 1.50	19	5.6	4.7	19	13
SPHR-610	SSLFM12	**SPHR-610N**	SSLFM12P	2.2	17.8	M12 x 1.75	17	6.4	6.3	25	18

Knurled Handle - Non Locking Steel and Stainless Steel

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Standard Item No.	MFG #	Locking Element Item No.	MFG#	A	B	C	D	E	F	G	Initial End Force	Final End Force
Steel												
Inch												
PHR-00*	SL190	**PHR-0***	SL190P	10-32	.400	3/32	.104	⅜	¼	.19	.50	3.0
PHR-11	SL250	**PHR-1**	SL250P	¼-20	.500	⅛	.124	½	5/16	.19	1.0	4.0
PHR-22	SL312	**PHR-2**	SL312P	5/16-18	.625	3/16	.155	⅝	⅜	.25	1.0	6.0
PHR-33	SL375	**PHR-3**	SL375P	⅜-16	.750	7/32	.186	¾	½	.31	1.0	8.0
PHR-44	SL500	**PHR-4**	SL500P	½-13	.875	¼	.249	1	⅝	.38	1.0	10.0
Metric												
PHR-50	SLM5	**PHR-50N**	SLM5P	M5 x .8	10	2	2.5	9	6	4	2.22	13.34
PHR-60	SLM6	**PHR-60N**	SLM6P	M6 x 1.0	13	3	3	13	8	5	4.45	17.80
PHR-100	SLM10	**PHR-100N**	SLM10P	M10 x 1.5	19	6	5	19	13	8	4.45	35.60
PHR-120	SLM12	**PHR-120N**	SLM12P	M12 x 1.75	23	6	6	25	16	10	4.45	44.5
Stainless Steel												
Inch												
PHR-44SS	SSL500	**PHR-4SS**	SSL500P	½-13	.875	¼	.249	1	⅝	.38	1.0	10.0
PHR-00SS*	SSL190	**PHR-0SS***	SSL190P	10-32	.400	3/32	.104	⅜	¼	.19	.50	3.0
PHR-11SS	SSL250	**PHR-1SS**	SSL250P	¼-20	.500	⅛	.124	½	5/16	.19	1.0	4.0
PHR-22SS	SSL312	**PHR-2SS**	SSL312P	5/16-18	.625	3/16	.155	⅝	⅜	.25	1.0	6.0
PHR-33SS	SSL375	**PHR-3SS**	SSL375P	⅜-16	.750	7/32	.186	¾	½	.31	1.0	8.0
Metric												
SPHR-50	SSLM5	—		M5 x .8	10	2	2.5	9	6	4	2.22	13.34
SPHR-60	SSLM6	**SPHR-60N**	SSLM6P	M6 x 1.0	13	3	3	13	8	5	4.45	17.80
SPHR-100	SSLM10	**SPHR-100N**	SSLM10P	M10 x 1.5	19	6	5	19	13	8	4.45	35.60
SPHR-120	SSLM12	—	—	M12 x 1.75	23	6	6	25	16	10	4.45	44.5

* .052 radius nose

Note: End force for inch is in Lbs. End force for Metric is in Newtons.

HAND RETRACTABLE SPRING PLUNGERS

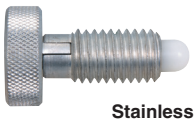
Hand retractable spring plungers permit the plunger to be easily withdrawn and re-engaged by pulling on the handle. Hardened plunger permits greater side loading and the tapered end on the plunger allows for easy alignment. Used on original equipment and machining applications as positioners, locating pins, indexing devices, etc. Steel are zinc plated and stainless is Type 303 or equivalent. On ring handle stainless models, all parts are stainless except the ring handle which is nickel plated steel. Locking types have a rest position where the plunger can stay in the retracted position. Nylon locking element not recommended for aluminum applications. Metric dimensions are in millimeters. Metric end forces shown in Newtons.

Knurled Handle
Steel and Stainless Steel
With Radiused Delrin Nose
Locking

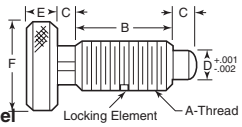
Northwestern Tools



Steel



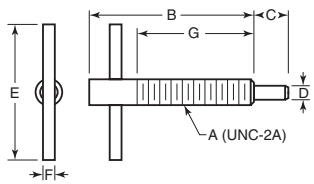
Stainless Steel



Standard Item No.	MFG #	Locking Element Item No.	MFG #	A	B	C	D	E	F	Initial End Force	Final End Force
Steel Body											
Light Pressure - Inch											
NKP-11	33609P	**NKP-11N**	33609	¼-20	½	⅛	.144	¼	½	.50	2.5
NKP-12	33610P	**NKP-12N**	33610	5/16-18	⅝	3/16	.179	9/32	⅝	.75	3.0
NKP-13	33611P	**NKP-13N**	33611	⅜-16	¾	7/32	.216	5/16	¾	.75	4.0
NKP-14	33612P	**NKP-14N**	33612	½-13	⅞	¼	.310	⅜	1	1.25	5.0
NKP-15	33613P	**NKP-15N**	33613	⅝-11	1	5/16	.373	13/32	1⅛	3.0	6.0
Metric											
NKPM-11	33870P	**NKPM-11N**	33870	M6 x 1.00	12.7	3.17	3.65	6.3	12.7	2.0	11.0
NKPM-12	33871P	**NKPM-12N**	33871	M8 x 1.25	15.8	4.75	4.54	7.0	15.8	3.0	13.0
NKPM-13	33872P	**NKPM-13N**	33872	M10 x 1.50	19.0	5.50	5.48	7.9	19.0	3.0	18.0
NKPM-14	33873P	**NKPM-14N**	33873	M12 x 1.75	22.2	6.35	7.87	9.4	25.4	5.5	22.0
NKPM-15	33874P	**NKPM-15N**	33874	M16 x 2.00	25.4	7.92	9.47	10.3	28.6	13.0	26.5
Heavy Pressure - Inch											
NKP-1	33601P	**NKP-1N**	33601	¼-20	½	⅛	.144	¼	½	1.0	5.0
NKP-2	33602P	**NKP-2N**	33602	5/16-18	⅝	3/16	.179	9/32	⅝	1.5	6.0
NKP-3	33603P	**NKP-3N**	33603	⅜-16	¾	7/32	.216	5/16	¾	1.5	8.0
NKP-4	33604P	**NKP-4N**	33604	½-13	⅞	¼	.310	⅜	1	2.5	10.0
NKP-5	33605P	**NKP-5N**	33605	⅝-11	1	5/16	.373	13/32	1⅛	5.0	10.0
Metric											
NKPM-1	33863P	**NKPM-1N**	33863	M6 x 1.00	12.7	3.17	3.65	6.3	12.7	4.5	22.0
NKPM-2	33864P	**NKPM-2N**	33864	M8 x 1.25	15.8	4.75	4.54	7.0	15.8	6.5	26.5
NKPM-3	33865P	**NKPM-3N**	33865	M10 x 1.50	19.0	5.50	5.48	7.9	19.0	6.5	35.5
NKPM-4	33866P	**NKPM-4N**	33866	M12 x 1.75	22.2	6.35	7.87	9.4	25.4	11.0	44.5
NKPM-5	33867P	**NKPM-5N**	33867	M16 x 2.00	25.4	7.92	9.47	10.3	28.6	22.0	44.5
Stainless Steel Body											
Light Pressure - Inch											
NKP-16	33625P	**NKP-16N**	33625	¼-20	½	⅛	.144	¼	½	.50	2.5
NKP-17	33626P	**NKP-17N**	33626	5/16-18	⅝	3/16	.179	9/32	⅝	.75	3.0
NKP-18	33627P	**NKP-18N**	33627	⅜-16	¾	7/32	.216	5/16	¾	.75	4.0
NKP-19	33628P	**NKP-19N**	33628	½-13	⅞	¼	.310	⅜	1	1.25	5.0
NKP-20	33629P	**NKP-20N**	33629	⅝-11	1	5/16	.373	13/32	1⅛	3.0	6.0
Metric											
NKPM-16	33870SSP	**NKPM-16N**	33870SSP	M6 x 1.00	12.7	3.17	3.65	6.3	12.7	2.0	11.0
NKPM-17	33871SSP	**NKPM-17N**	33871SSP	M8 x 1.25	15.8	4.75	4.54	7.0	15.8	3.0	13.0
NKPM-18	33872SSP	**NKPM-18N**	33872SSP	M10 x 1.50	19.0	5.50	5.48	7.9	19.0	3.0	18.0
NKPM-19	33873SSP	**NKPM-19N**	33873SSP	M12 x 1.75	22.2	6.35	7.87	9.4	25.4	5.5	22.0
NKPM-20	33874SSP	**NKPM-20N**	33874SSP	M16 x 2.00	25.4	7.92	9.47	10.3	28.6	13.0	26.5
Heavy Pressure - Inch											
NKP-6	33617P	**NKP-6N**	33617	¼-20	½	⅛	.144	¼	½	1.0	5.0
NKP-7	33618P	**NKP-7N**	33618	5/16-18	⅝	3/16	.179	9/32	⅝	1.5	6.0
NKP-8	33619P	**NKP-8N**	33619	⅜-16	¾	7/32	.216	5/16	¾	1.5	8.0
NKP-9	33620P	**NKP-9N**	33620	½-13	⅞	¼	.310	⅜	1	2.5	10.0
NKP-10	33621P	**NKP-10N**	33621	⅝-11	1	5/16	.373	13/32	1⅛	5.0	10.0
Metric											
NKPM-6	33863SSP	**NKPM-6N**	33863SS	M6 x 1.00	12.7	3.17	3.65	6.3	12.7	4.5	22.0
NKPM-7	33864SSP	**NKPM-7N**	33864SS	M8 x 1.25	15.8	4.75	4.54	7.0	15.8	6.5	26.5
NKPM-8	33865SSP	**NKPM-8N**	33865SS	M10 x 1.50	19.0	5.50	5.48	7.9	19.0	6.5	35.5
NKPM-9	33866SSP	**NKPM-9N**	33866SS	M12 x 1.75	22.2	6.35	7.87	9.4	25.4	11.0	44.5
NKPM-10	33867SSP	**NKPM-10N**	33867SS	M16 x 2.00	25.4	7.92	9.47	10.3	28.6	22.0	44.5

T-Handle - Locking
Steel and Stainless Steel
Vlier





Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G
Steel												
Inch												
FRT-25	FRT250	**FRT-250**	FRT250P	1.0	2.5	¼-20	1.14	.250	.155	1.13	.13	.80
FRT-37	FRT375	**FRT-375**	FRT375P	2.0	4.0	⅜-16	1.68	.375	.233	1.50	.13	1.20
FRT-50	FRT500	**FRT-500**	FRT500P	2.5	5.0	½-13	2.00	.500	.312	2.00	.16	1.40
FRT-62	FRT625	**FRT-625**	FRT625P	2.5	5.0	⅝-11	2.38	.625	.375	2.50	.19	1.70
Metric												
FRT-700	FRTM6	**FRT-700N**	FRTM6P	4.4	11	M6 x 1.00	29	6.4	4	29	3.3	20.3
FRT-705	FRTM10	**FRT-705N**	FRTM10P	9	17.8	M10 x 1.50	43	9.5	6	38	3.3	30.5
FRT-710	FRTM12	**FRT-710N**	FRTM12P	11	22	M12 x 1.75	51	12.7	8	51	4	35.5
FRT-715	FRTM16	—		11	22	M16 x 2.00	60	16	10	64	4.8	43
Stainless Steel												
Inch												
SSFRT-25	SFRT250	**SSFRT-250**	SFRT250P	1.0	2.5	¼-20	1.14	.250	.155	1.13	.13	.80
SSFRT-37	SFRT375	**SSFRT-375**	SFRT375P	2.0	4.0	⅜-16	1.68	.375	.233	1.50	.13	1.20
SSFRT-50	SFRT500	**SSFRT-500**	SFRT500P	2.5	5.0	½-13	2.00	.500	.312	2.00	.16	1.40
SSFRT-62	SFRT625	**SSFRT-625**	SFRT625P	2.5	5.0	⅝-11	2.38	.625	.375	2.50	.19	1.70
Metric												
FRT-720	SFRTM6	**FRT-720N**	SFRTM6P	4.4	11	M6 x 1.00	29	6.4	4	29	3.3	20.3
FRT-725	SFRTM10	**FRT-725N**	SFRTM10P	9	17.8	M10 x 1.50	43	9.5	6	38	3.3	30.5
FRT-730	SFRTM12	**FRT-730N**	SFRTM12P	11	22	M12 x 1.75	51	12.7	8	51	4	35.5
FRT-735	SFRTM16	—		11	22	M16 x 2.00	60	16	10	64	4.8	43

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Reid SUPPLY AN ESSENTRA COMPANY

HAND RETRACTABLE SPRING PLUNGERS

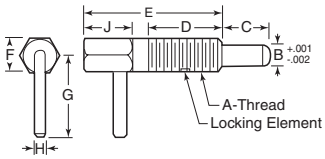
Hand retractable spring plungers permit the plunger to be easily withdrawn by pulling on the handle. Used in machining applications as positioners, leading pins and indexing devices. Threaded end is designed to accept any internally threaded knob or handle. Locking plunger can be withdrawn completely into the body and locked in a fully retractable position. To engage the plunger, simply turn the end knob to line up with the slot in the body. Radiused delrin and phenolic noses prevent marring of aluminum, brass or other soft materials. Available in zinc plated steel or stainless steel. Metric dimensions are in millimeters, except for dimension E. Metric end forces are in Newtons.

L-Handle - Standard or Short Length
Locking with Radiused Delrin Nose

Northwestern Tools



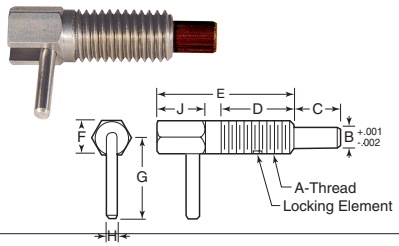




Item No.	MFG #	Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H	J
Standard Length														
Steel														
FRD-1	33649P	**FRD-1N**	33649	.500	2.500	¼-20	.156	⅜	⅝	1¼	¼	⅝	3/32	½
FRD-2	33651P	**FRD-2N**	33651	.750	3.750	⅜-16	.25	9/16	1 1/16	2	⅜	15/16	9/64	1 1/16
FRD-3	33652P	**FRD-3N**	33652	1.000	5.000	½-13	.312	¾	1⅛	2⅛	½	1¼	3/16	¾
FRD-4	33653P	**FRD-4N**	33653	1.000	5.000	⅝-11	.375	1	1¾	3	⅝	1 5/16	3/16	1 1/16
Stainless Steel														
FRD-5	33657P	**FRD-5N**	33657	.500	2.500	¼-20	.156	⅜	⅝	1¼	¼	⅝	3/32	½
FRD-6	33659P	**FRD-6N**	33659	.750	3.750	⅜-16	.25	9/16	1 1/16	2	⅜	15/16	9/64	1 1/16
FRD-7	33660P	**FRD-7N**	33660	1.000	5.000	½-13	.312	¾	1⅛	2⅛	½	1¼	3/16	¾
FRD-8	33661P	**FRD-8N**	33661	1.000	5.000	⅝-11	.375	1	1¾	3	⅝	1 5/16	3/16	1 1/16
Short Length														
Steel														
FRD-9	33665P	**FRD-9N**	33665	.125	.500	¼-20	.156	3/16	7/16	¾	¼	9/16	3/32	¼
FRD-10	33667P	**FRD-10N**	33667	.250	1.250	⅜-16	.25	5/16	⅝	1⅛	⅜	¾	9/64	⅜
FRD-11	33668P	**FRD-11N**	33668	.500	2.000	½-13	.312	13/32	⅞	1½	½	1	3/16	½
FRD-12	33669P	**FRD-12N**	33669	.750	2.500	⅝-11	.375	½	1⅛	1⅞	⅝	1 3/16	3/16	⅝
Stainless Steel														
FRD-13	33673P	**FRD-13N**	33673	.125	.500	¼-20	.156	3/16	7/16	¾	¼	9/16	3/32	¼
FRD-14	33675P	**FRD-14N**	33675	.250	1.250	⅜-16	.25	5/16	⅝	1⅛	⅜	¾	9/64	⅜
FRD-15	33676P	**FRD-15N**	33676	.500	2.000	½-13	.312	13/32	⅞	1½	½	1	3/16	½
FRD-16	33677P	**FRD-16N**	33677	.750	2.500	⅝-11	.375	½	1⅛	1⅞	⅝	1 3/16	3/16	⅝

L-Handle
Locking with Phenolic Nose
Nylon Locking Element

Northwestern Tools



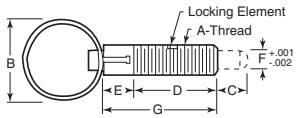
Item No.	MFG #	Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H	J
FR-9	33942	**FR-13**	33952	.125	.500	¼-20	.156	3/16	7/16	¾	¼	9/16	3/32	¼
FR-10	33944	**FR-14**	33954	.250	1.250	⅜-16	.25	5/16	⅝	1⅛	⅜	¾	9/64	⅜
FR-11	33946	**FR-15**	33956	.500	2.000	½-13	.312	13/32	⅞	1½	½	1	3/16	½
—	**—**	**FR-5**	33992	.500	2.500	¼-20	.156	⅜	⅝	1¼	¼	⅝	3/32	¼
FR-12	33948	**FR-16**	33958	.750	2.500	⅝-11	.375	½	1⅛	1⅞	⅝	1 3/16	3/16	⅝
FR-2	33984	**FR-6**	33994	.750	3.750	⅜-16	.25	9/16	1 1/16	2	⅜	15/16	9/64	⅜
FR-3	33986	**FR-7**	33996	1.000	5.000	½-13	.312	¾	1⅛	2⅛	½	1¼	3/16	½
FR-4	33988	**FR-8**	33998	1.000	5.000	⅝-11	.375	1	1¾	3	⅝	1 5/16	3/16	⅝

Note: Nose Diameter B tolerance +.001/-.002

Pull Ring - Standard Length
Locking with Radiused Delrin Nose

Northwestern Tools

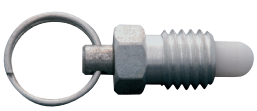


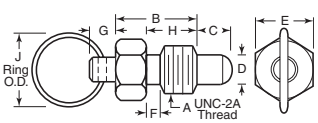


Item No.	MFG #	Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G
Steel												
PR-10	33681P	PR-10N	33681	1.000	2.500	¼-20	1	¼	13/16	5/16	.156	1⅛
PR-11	33683P	PR-11N	33683	2.000	4.000	⅜-16	1¼	⅜	1¼	7/16	.25	1 1/16
PR-12	33684P	PR-12N	33684	2.500	5.000	½-13	1⅜	½	1 7/16	9/16	.312	2
Stainless Steel												
PR-13	33689P	PR-13N	33689	1.000	2.500	¼-20	1	¼	13/16	5/16	.156	1⅛
PR-14	33691P	PR-14N	33691	2.000	4.000	⅜-16	1¼	⅜	1¼	7/16	.25	1 1/16
PR-15	33692P	PR-15N	33692	2.500	5.000	½-13	1⅜	½	1 7/16	9/16	.312	2

Pull Ring - Short Length
Non-Locking with Radiused Delrin Nose

Northwestern Tools





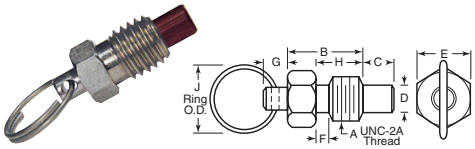
Item No.	MFG #	Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H	J
Steel														
PRSN-10	33633P	PRSN-10N	33633	.500	2.000	¼-20	7/16	3/16	.156	¼	1/32	5/32	9/32	¾
PRSN-11	33635P	PRSN-11N	33635	.750	3.000	⅜-16	⅝	9/32	.25	⅜	⅛	3/16	7/16	¾
PRSN-12	33636P	PRSN-12N	33636	1.000	4.000	½-13	13/16	⅜	.312	½	5/32	¼	9/16	1
PRSN-13	33637P	PRSN-13N	33637	1.250	5.000	⅝-11	1	7/16	.375	⅝	9/32	5/16	11/16	1
Stainless Steel														
PRSN-14	33641P	PRSN-14N	33641	.500	2.000	¼-20	7/16	3/16	.156	¼	1/32	5/32	9/32	¾
PRSN-15	33643P	PRSN-15N	33643	.750	3.000	⅜-16	⅝	9/32	.25	⅜	⅛	3/16	7/16	¾
PRSN-16	33644P	PRSN-16N	33644	1.000	4.000	½-13	13/16	⅜	.312	½	5/32	¼	9/16	1
PRSN-17	33645P	PRSN-17N	33645	1.250	5.000	⅝-11	1	7/16	.375	⅝	9/32	5/16	11/16	1

HAND RETRACTABLE SPRING PLUNGERS

Hand retractable spring plungers permit the plunger to be easily withdrawn and re-engaged by pulling on the handle. Hardened plunger permits greater side loading and the tapered end on the plunger allows for easy alignment. Used on original equipment and machining applications as positioners, locating pins, indexing devices, etc. Steel are zinc plated and stainless is Type 303 or equivalent. On ring handle stainless models, all parts are stainless except the ring handle which is nickel plated steel. Locking types have a rest position where the plunger can stay in the retracted position. Nylon locking element not recommended for aluminum applications. Metric dimensions are in millimeters. Metric end forces shown in Newtons.

Stubby Ring Handle
Non-Locking
Phenolic Nose and Nylon Locking Element

Vlier

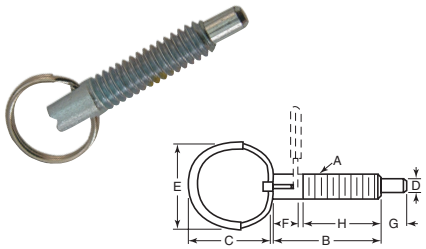


Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H	J
Inch														
PRSN-1	33722	**PRSN-5**	33732	.500	2.000	¼-20	7/16	3/16	.156	¼	1/32	5/32	9/32	¾
PRSN-2	33724	**PRSN-6**	33734	.750	3.000	3/8-16	5/8	9/32	.25	3/8	1/8	3/16	7/16	¾
PRSN-3	33726	**PRSN-7**	33736	1.000	4.000	½-13	13/16	3/8	.312	½	5/32	¼	9/16	1
PRSN-4	33728	**PRSN-8**	33738	1.250	5.000	5/8-11	1	7/16	.375	5/8	5/32	5/16	11/16	1

Note: Nose Diameter D tolerance +.001/-.002.

Ring Handle - Locking
Steel and Stainless Steel
Phenolic Nose and Nylon Locking Element

Vlier

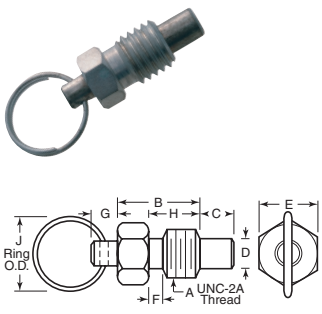


Designed to function where space is limited. Easy to grasp ring handle allows the plunger to be withdrawn completely into the fully retracted position.

Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H
Steel													
Inch													
PR-250	PR250	**PR-250N**	PR250P	1.0	2.5	¼-20	1.14	1.08	.155	.62	.23	.250	.8
PR-375	PR375	**PR-375N**	PR375P	2.0	4.0	3/8-16	1.68	1.19	.233	.98	.35	.375	1.2
PR-500	PR500	**PR-500N**	PR500P	2.5	5.0	½-13	2.00	1.33	.312	1.26	.46	.50	1.4
Metric													
PRM-10	PRM6	**PRM-10N**	PRM6P	4.4	11	M6 x 1.00	29	16	4	16	8.7	6.4	20.3
PRM-15	PRM10	**PRM-15N**	PRM10P	9	17.8	M10 x 1.50	43	25	6	25	12.5	9.5	30.5
PRM-20	PRM12	**PRM-20N**	PRM12P	11	22	M12 x 1.75	51	25	8	25	15.5	12.7	35.5
PRM-25	PRM16	**PRM-25N**	PRM16P	11	22	M16 x 2.00	60	25	10	25	17	16	43
Stainless Steel													
Inch													
SPR-375	SPR375	**SPR-375N**	SPR375P	2.0	4.0	3/8-16	1.68	1.19	.233	.98	.35	.375	1.2
SPR-500	SPR500	**SPR-500N**	SPR500P	2.5	5.0	½-13	2.00	1.33	.312	1.26	.46	.50	1.4
SPR-250	SPR250	**SPR-250N**	SPR250P	1.0	2.5	¼-20	1.14	1.08	.155	.62	.23	.250	.8
Metric													
SPR-600	SPRM6	**SPR-600N**	SPRM6P	4.4	11	M6 x 1.00	29	16	4	16	8.7	6.4	20.3
SPR-605	SPRM10	**SPR-605N**	SPRM10P	9	17.8	M10 x 1.50	43	25	6	25	12.5	9.5	30.5
SPR-610	SPRM12	**SPR-610N**	SPRM12P	11	22	M12 x 1.75	51	25	8	25	15.5	12.7	35.5
SPR-615	SPRM16	**SPR-615N**	SPRM16P	11	22	M16 x 2.00	60	25	10	25	17	16	43

Stubby Ring Handle - Non-Locking
Steel and Stainless Steel

Vlier



Plunger does not lock in fully retracted position. On stainless models, all parts are stainless steel except for the ring which is nickel plated steel.

Standard Item No.	MRF #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E Hex	F	G	H	J
Steel														
Inch														
PRSN-250*	33702P	**PRSN-250N***	33702	.50	2.0	¼-20	.44	.19	.16	.25	—	.13	.31	.62
PRSN-250A*	PRSN250A	**PRSN-250AN***	PRSN250AP	.50	2.0	¼-20	.44	.19	.16	.25	—	.13	.31	.75
PRSN-375	PRSN375	**PRSN-375N**	PRSN375P	.75	3.0	3/8-16	.63	.28	.25	.38	.13	.19	.44	.75
PRSN-500	PRSN500	**PRSN-500N**	33706	1.00	4.0	½-13	.81	.38	.31	.50	.13	.25	.56	1.00
PRSN-625	33708P	**PRSN-625N**	33708	1.25	5.0	5/8-11	1.00	.44	.38	.62	.13	.31	.69	1.00
Metric														
PRSN-700*	PRSNM6	**PRSN-700N***	PRSNM6P	2.2	8.9	M6 x 1.00	11	5	4	6	3	4.6	8	19
PRSN-705	PRSNM10	**PRSN-705N**	PRSNM10P	3.3	13.3	M10 x 1.50	16	7	6	10	3	4.8	11	19
PRSN-710	PRSNM12	**PRSN-710N**	PRSNM12P	4.4	17.8	M12 x 1.75	21	10	8	12	3	6.4	14	25
PRSN-715	PRSNM16	**PRSN-715N**	PRSNM16P	5.6	22.2	M16 x 2.00	25	11	10	16	3	8	18	25
Stainless Steel														
Inch														
PRSN-250S*	SPRSN250	**PRSN-250SN***	SPRSN250P	.50	2.0	¼-20	.44	.19	.16	.25	—	.13	.31	.62
PRSN-250AS*	SPRSN250A	**PRSN-250ASN***	SPRSN250AP	.50	2.0	¼-20	.44	.19	.16	.25	—	.13	.31	.75
PRSN-375S	SPRSN375	**PRSN-375SN**	SPRSN375P	.75	3.0	3/8-16	.63	.28	.25	.38	.13	.19	.44	.75
PRSN-500S	SPRSN500	**PRSN-500SN**	SPRSN500P	1.00	4.0	½-13	.81	.38	.31	.50	.13	.25	.56	1.00
PRSN-625S	SPRSN625	**PRSN-625SN**	SPRSN625P	1.25	5.0	5/8-11	1.00	.44	.38	.62	.13	.31	.69	1.00
Metric														
SPR-620*	SPRSNM6	**SPR-620N***	SPRSNM6P	2.2	8.9	M6 x 1.00	11	5	4	6	3	4.6	8	19
SPR-625	SPRSNM10	**SPR-625N**	SPRSNM10P	3.3	13.3	M10 x 1.50	16	7	6	10	3	4.8	11	19
SPR-630	SPRSNM12	**SPR-630N**	SPRSNM12P	4.4	17.8	M12 x 1.75	21	10	8	12	3	6.4	14	25
SPR-635	SPRSNM16	**SPR-635N**	SPRSNM16P	5.6	22.2	M16 x 2.00	25	11	10	16	3	8	18	25

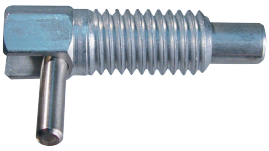
*No thread relief

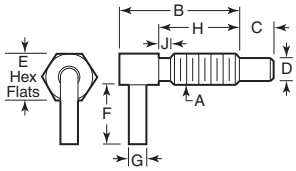
HAND RETRACTABLE SPRING PLUNGERS

Hand retractable spring plungers permit the plunger to be easily withdrawn by pulling on the handle. Used in machining applications as positioners, leading pins and indexing devices. Threaded end is designed to accept any internally threaded knob or handle. Locking plunger can be withdrawn completely into the body and locked in a fully retractable position. To engage the plunger, simply turn the end knob to line up with the slot in the body. Metric dimensions are in millimeters, except for dimension E. Metric end forces are in Newtons.

L-Handle - Locking
Steel and Stainless Steel

Vlier



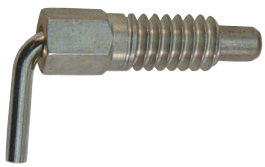


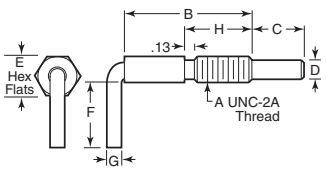
Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force	Final End Force	A	B	C	D	Hex E	F	G	H	J
Steel														
Inch														
FRS-25*	33922P	**FRS-250***	FRS250P	.12	.50	¼-20	.75	.20	.16	.25	.40	.09	.50	—
FRS-37	33924P	**FRS-375**	33924	.25	1.25	⅜-16	1.13	.30	.25	.38	.56	.14	.75	.13
FR-25*	33962P	**FR-250***	FR250P	.50	2.50	¼-20	1.25	.38	.16	.25	.50	.09	.80	—
FRS-50	33926P	**FRS-500**	33926	.50	2.00	½-13	1.50	.40	.31	.50	.75	.19	1.00	.13
FR-37	33964P	**FR-375**	33964	.75	3.75	⅜-16	2.00	.56	.25	.38	.75	.14	1.31	.13
FRS-62	33928P	**FRS-625**	33928	.75	2.50	⅝-11	1.88	.50	.38	.62	.88	.19	1.25	.13
FR-50	FR500	**FR-500**	FR500P	1.00	5.00	½-13	2.11	.75	.31	.50	1.00	.19	1.25	.13
FR-62	33968P	**FR-625**	33968	1.00	5.00	⅝-11	3.05	1.00	.38	.62	1.00	.19	2.00	.13
Metric														
FRS-800	FRSM6	**FRS-800N**	FRSM6P	.5	2.2	M6 x 1.00	19	5.0	4.0	6	10.0	2.3	12.7	—
FRS-805	FRSM10	**FRS-805N**	FRSM10P	1.1	5.6	M10 x 1.50	29	7.6	6.0	10	14.0	3.6	19.0	3.3
FRM-6*	FRM6	**FRM-6N***	FRM6P	2.2	11.1	M6 x 1.00	32	10.0	4.0	6	12.7	2.3	20.0	—
FRS-810	FRSM12	**FRS-810N**	FRSM12P	2.2	8.9	M12 x 1.75	38	10.0	8.0	12	19.0	4.8	25.0	3.8
FRM-10	FRM10	**FRM-10N**	FRM10P	3.3	16.7	M10 x 1.50	51	14.0	6.0	10	19.0	3.5	33.0	3.3
FRS-815	FRSM16	**FRS-815N**	FRSM16P	3.3	11.1	M16 x 2.00	48	13.0	9.7	16	22.0	4.8	32.0	4.6
FRM-12	FRM12	**FRM-12N**	FRM12P	4.5	22.3	M12 x 1.75	54	19.0	7.0	12	25.4	4.8	32.0	3.8
Stainless Steel														
Inch														
FRS-920	SSFRS250	**FRS-920N**	SSFRS250P	.12	.50	¼-20	.75	.20	.16	.25	.40	.09	.5	—
FRS-925	SSFRS375	**FRS-925N**	SSFRS375P	.25	1.25	⅜-16	1.13	.30	.25	.38	.56	.14	.75	.13
SSFR-25*	SSFR250	**SSFR-250***	SSFR250P	.50	2.50	¼-20	1.25	.38	.16	.25	.50	.09	.80	—
FRS-930	SSFRS500	**FRS-930N**	SSFRS500P	.50	2.00	½-13	1.50	.40	.31	.50	.75	.19	1	.15
SSFR-37	SSFR375	**SSFR-375**	SSFR375P	.75	3.75	⅜-16	2.00	.56	.25	.38	.75	.14	1.31	.13
FRS-935	SSFRS625	**FRS-935N**	SSFRS625P	.75	2.50	⅝-11	1.88	.50	.38	.62	.88	.19	1.25	.18
SSFR-50	SSFR500	**SSFR-500**	SSFR500P	1.00	5.00	½-13	2.11	.75	.31	.50	1.00	.19	1.25	.13
SSFR-62	SSFR625	**SSFR-625**		1.00	5.00	⅝-11	3.05	1.00	.38	.62	1.00	.19	2.00	.13
Metric														
FRS-840	SSFRSM6	**FRS-840N**	SSFRSM6P	.5	2.2	M6 x 1.00	19	5.0	4.0	6	10.0	2.3	12.7	—
FRS-845	SSFRSM10	**FRS-845N**	SSFRSM10P	1.1	5.6	M10 x 1.50	29	7.6	6.0	10	14.0	3.6	19.0	3.3
SFRM-6*	SFRM6	**SFRM-6N***	SFRM6P	2.2	11.1	M6 x 1.00	32	10.0	4.0	6	12.7	2.3	20.0	—
FRS-850	SSFRSM12	**FRS-850N**	SSFRSM12P	2.2	8.9	M12 x 1.75	38	10.0	8.0	12	19.0	4.8	25.0	3.8
SFRM-10	SFRM10	**SFRM-10N**	SFRM10P	3.3	16.7	M10 x 1.50	51	14.0	6.0	10	19.0	3.5	33.0	3.3
FRS-855	SSFRSM16	**FRS-855N**	SSFRSM16P	3.3	11.1	M16 x 2.00	48	13.0	9.7	16	22.0	4.8	32.0	4.6
SFRM-12	SFRM12	**SFRM-12N**		4.5	22.3	M12 x 1.75	54	19.0	7.0	12	25.4	4.8	32.0	3.8

*No thread relief

L-Handle - Non-Locking
Steel and Stainless Steel

Vlier





Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force	Final End Force	A	B	C	D	Hex E	F	G	H
Steel													
Inch													
FRSN-25*	FRSN250	**FRSN-250***	FRSN250P	.12	.50	¼-20	.75	.20	.16	.25	.40	.09	.50
FRSN-37	FRSN375	**FRSN-375**	FRSN375P	.25	1.25	⅜-16	1.13	.30	.25	.38	.56	.14	.75
FRSN-50	FRSN500	**FRSN-500**	FRSN500P	.50	2.00	½-13	1.50	.40	.31	.50	.75	.19	1.00
FRN-25	FRN250	**FRN-250**	FRN250P	.50	2.50	¼-20	1.25	.38	.16	.25	.50	.09	.80
FRSN-62	FRSN625	**FRSN-625**	FRSN625P	.75	2.50	⅝-11	1.88	.50	.38	.62	.88	.19	1.25
FRN-37	FRN375	**FRN-375**	FRN375P	.75	3.75	⅜-16	2.00	.56	.25	.38	.75	.14	1.31
FRN-50	FRN500	**FRN-500**	FRN500P	1.00	5.00	½-13	2.11	.75	.31	.50	1.00	.19	1.25
FRN-62	FRN625	**FRN-625**	FRN625P	1.00	5.00	⅝-11	3.05	1.00	.38	.62	1.00	.19	2.00
Metric													
FRS-820	FRSNM6	**FRS-820N**	FRSNM6P	.5	2.2	M6 x 1.00	19	5.0	4.0	6	10	2.3	12.7
FRS-825	FRSNM10	**FRS-825N**	FRSNM10P	1.1	5.6	M10 x 1.50	29	7.6	6.0	10	14	3.6	19.0
FRS-830	FRSNM12	**FRS-830N**	FRSNM12P	2.2	8.9	M12 x 1.75	38	10.0	8.0	12	19	4.8	25.0
FRS-835	FRSNM16	**FRS-835N**	FRSNM16P	3.3	11.1	M16 x 2.00	48	13.0	9.7	16	22	4.8	32.0
Stainless Steel													
Inch													
FRS-940	SSFRSN250	**FRS-940N**	SSFRSN250P	.12	.50	¼-20	.75	.20	.16	.25	.40	.09	.50
FRS-945	SSFRSN375	**FRS-945N**	SSFRSN375P	.25	1.25	⅜-16	1.13	.30	.25	.38	.56	.14	.75
FRS-950	SSFRSN500	**FRS-950N**	SSFRSN500P	.50	2.00	½-13	1.50	.40	.31	.50	.75	.19	1.00
FRS-880	SSFRN250	**FRS-880N**	SSFRN250P	.50	2.50	¼-20	1.25	.38	.16	.25	.50	.09	.80
FRS-955	SSFRSN625	**FRS-955N**	SSFRSN625P	.75	2.50	⅝-11	1.88	.50	.38	.62	.88	.19	1.25
FRS-885	SSFRN375	**FRS-885N**	SSFRN375P	.75	3.75	⅜-16	1.13	.56	.25	.38	.75	.14	1.31
FRS-890	SSFRN500	**FRS-890N**	SSFRN500P	1.00	5.00	½-13	1.50	.75	.31	.50	1.00	.19	1.25
FRS-895	SSFRN625	**FRS-895N**	SSFRN625P	1.00	5.00	⅝-11	1.88	1.00	.38	.62	1.00	.19	2.00
Metric													
FRS-860	SSFRSNM6	**FRS-860N**	SSFRSNM6P	.5	2.2	M6 x 1.00	19	5.0	4.0	6	10	2.3	12.7
FRS-865	SSFRSNM10	**FRS-865N**	SSFRSNM10P	1.1	5.6	M10 x 1.50	29	7.6	6.0	10	14	3.6	19.0
FRS-900	SSFRNM6	**FRS-900N**	SSFRNM6P	2.0	11.0	M6 x 1.00	19	5.0	4.0	6	13	2.0	20.0
FRS-870	SSFRSNM12	**FRS-870N**	SSFRSNM12P	2.2	8.9	M12 x 1.75	38	10.0	8.0	12	19	4.8	25.0
FRS-905	SSFRNM10	**FRS-905N**	SSFRNM10P	3.0	17.0	M10 x 1.50	29	7.6	6.0	10	19	4.0	33.0
FRS-875	SSFRSNM16	**FRS-875N**	SSFRSNM16P	3.3	11.1	M16 x 2.00	48	13.0	9.7	16	22	4.8	32.0
FRS-915	SSFRNM16	**FRS-915N**	SSFRNM16P	4.5	22.0	M16 x 2.00	48	13.0	10.0	16	25	5.0	51.0
FRS-910	SSFRNM12	**FRS-910N**	SSFRNM12P	4.5	22.0	M12 x 1.75	38	10.0	8.0	12	25	5.0	32.0

*No thread relief

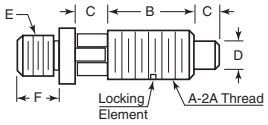
HAND RETRACTABLE SPRING PLUNGERS

Hand retractable spring plungers permit the plunger to be easily withdrawn by pulling on the handle. Used in machining applications as positioners, leading pins and indexing devices. Threaded end is designed to accept any internally threaded knob or handle. Locking plunger can be withdrawn completely into the body and locked in a fully retractable position. To engage the plunger, simply turn the end knob to line up with the slot in the body. Metric dimensions are in millimeters, except for dimension E. Metric end forces are in Newtons.

Threaded Adapter
For Use with Know or Handle
Locking
Steel and Stainless Steel

Northwestern Tools





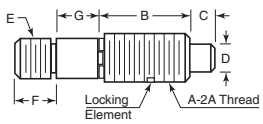
Standard Item No.	MFG #	Locking Element Item No.	MFG #	A	B	C	D	E	F	Initial End Force	Final End Force
Steel											
Light End Pressure - Inch											
NRP-1	34030P	**NRP-1N**	34030	10-32	13/32	3/32	.104	10-32	15/64	.50	1.50
NRP-2	34032P	**NRP-2N**	34032	1/4-20	1/2	1/8	.124	10-32	15/64	.50	2.50
NRP-3	34034P	**NRP-3N**	34034	5/16-18	5/8	3/16	.155	1/4-20	11/32	.75	3.00
NRP-4	34036P	**NRP-4N**	34036	3/8-16	3/4	7/32	.186	5/16-18	13/32	.75	4.00
NRP-5	34038P	**NRP-5N**	34038	1/2-13	7/8	1/4	.249	3/8-16	7/16	1.25	5.00
NRP-33	34039P	**NRP-33N**	34039	5/8-11	1	5/16	.311	1/2-13	7/16	3.00	6.00
Metric											
NRP-11	34068P	**NRP-11N**	34068	M6 x 1.0	12.7	3.17	3	10-32	5.9	2.0	11.0
NRP-12	34070P	**NRP-12N**	34070	M8 x 1.25	15.8	4.75	4	1/4-20	8.7	3.0	13.0
NRP-13	34072P	**NRP-13N**	34072	M10 x 1.5	19.0	5.50	5	5/16-18	10.3	3.0	18.0
NRP-14	34074P	**NRP-14N**	34074	M12 x 1.75	22.2	6.35	6	3/8-16	11.0	5.5	22.0
Heavy End Pressure - Inch											
NRP-15	34020P	**NRP-15N**	34020	10-32	13/32	3/32	.104	10-32	15/64	1.00	3.00
NRP-16	34022P	**NRP-16N**	34022	1/4-20	1/2	1/8	.124	10-32	15/64	1.00	5.00
NRP-17	34024P	**NRP-17N**	34024	5/16-18	5/8	3/16	.155	1/4-20	11/32	1.50	6.00
NRP-18	34026P	**NRP-18N**	34026	3/8-16	3/4	7/32	.186	5/16-18	13/32	1.50	8.00
NRP-19	34028P	**NRP-19N**	34028	1/2-13	7/8	1/4	.249	3/8-16	7/16	2.50	10.00
NRP-31	34029P	**NRP-31N**	34029	5/8-11	1	5/16	.311	1/2-13	7/16	5.00	10.00
Metric											
NRP-25	34060P	**NRP-25N**	34060	M6 x 1.0	12.70	3.17	3	10-32	5.9	4.5	22.0
NRP-26	34062P	**NRP-26N**	34062	M8 x 1.25	15.80	4.75	4	1/4-20	8.7	6.5	26.5
NRP-27	34064P	**NRP-27N**	34064	M10 x 1.5	19.00	5.50	5	5/16-18	10.3	6.5	35.5
NRP-28	34066P	**NRP-28N**	34066	M12 x 1.75	22.20	6.35	6	3/8-16	11.0	11.0	44.5
Stainless Steel											
Light End Pressure - Inch											
NRP-6	34050P	**NRP-6N**	34050	10-32	13/32	3/32	.104	10-32	15/64	.50	1.50
NRP-7	34052P	**NRP-7N**	34052	1/4-20	1/2	1/8	.124	10-32	15/64	.50	2.50
NRP-8	34054P	**NRP-8N**	34054	5/16-18	5/8	3/16	.155	1/4-20	11/32	.75	3.00
NRP-9	34056P	**NRP-9N**	34056	3/8-16	3/4	7/32	.186	5/16-18	13/32	.75	4.00
NRP-10	34058P	**NRP-10N**	34058	1/2-13	7/8	1/4	.249	3/8-16	7/16	1.25	5.00
NRP-34	34059P	**NRP-34N**	34059	5/8-11	1	5/16	.311	1/2-13	7/16	3.00	6.00
Heavy End Pressure - Inch											
NRP-20	34040P	**NRP-20N**	34040	10-32	13/32	3/32	.104	10-32	15/64	1.00	3.00
NRP-21	34042P	**NRP-21N**	34042	1/4-20	1/2	1/8	.124	10-32	15/64	1.00	5.00
NRP-22	34044P	**NRP-22N**	34044	5/16-18	5/8	3/16	.155	1/4-20	11/32	1.50	6.00
NRP-23	34046P	**NRP-23N**	34046	3/8-16	3/4	7/32	.186	5/16-18	13/32	1.50	8.00
NRP-24	34048P	**NRP-24N**	34048	1/2-13	7/8	1/4	.249	3/8-16	7/16	2.50	10.00
NRP-32	34049P	**NRP-32N**	34049	5/8-11	1	5/16	.311	1/2-13	7/16	5.00	10.00

Note: Nose Diameter D Inch tolerance +.001/-.002. Metric tolerance +.025/-.050
Note 2: Inch tolerance +.001/-.002 Metric tolerance +.025/-.050

Threaded Adapter
For Use with Knob or Handle
Non-Locking
Steel and Stainless Steel

Northwestern Tools





Standard Item No.	MFG #	Locking Element Item No.	MFG #	A	B	C	D	E	F	Initial End Force	Final End Force
Steel											
Light End Pressure - Inch											
NRP-63	34152P	**NRP-63N**	34152	10-32	13/32	3/32	.104	10-32	15/64	.50	2.00
NRP-64	34154P	**NRP-64N**	34154	1/4-20	1/2	1/8	.124	10-32	15/64	.50	2.50
NRP-65	34156P	**NRP-65N**	34156	5/16-18	5/8	3/16	.155	1/4-20	11/32	.75	3.00
NRP-66	34158P	**NRP-66N**	34158	3/8-16	3/4	7/32	.186	5/16-18	13/32	.75	4.00
NRP-67	34160P	**NRP-67N**	34160	1/2-13	7/8	1/4	.249	3/8-16	7/16	1.25	5.00
NRP-68	34161P	**NRP-68N**	34161	5/8-11	1	5/16	.311	1/2-13	7/16	3.00	6.00
Metric											
NRPM-75	34191P	**NRPM-75N**	34191	M5 x .80	10.3	2.36	2	10-32	5.9	2.0	9.0
NRPM-76	34192P	**NRPM-76N**	34192	M6 x 1.00	12.7	3.17	3	10-32	5.9	2.0	11.0
NRPM-77	34193P	—		M8 x 1.25	15.8	4.75	4	1/4-20	8.7	3.0	13.0
NRPM-78	34194P	**NRPM-78N**	34194	M10 x 1.50	19.0	5.50	5	5/16-18	10.3	3.0	18.0
NRPM-79	34195P	**NRPM-79N**	34195	M12 x 1.75	22.2	6.35	6	3/8-16	11.1	5.5	22.0
NRPM-80	34196P	**NRPM-80N**	34196	M16 x 2.00	25.4	7.92	8	1/2-13	11.1	13.0	26.5
Heavy End Pressure - Inch											
NRP-51	34142P	**NRP-51N**	34142	10-32	13/32	3/32	.104	10-32	15/64	1.00	3.50
NRP-52	34144P	**NRP-52N**	34144	1/4-20	1/2	1/8	.124	10-32	15/64	1.00	5.00
NRP-53	34146P	**NRP-53N**	34146	5/16-18	5/8	3/16	.155	1/4-20	11/32	1.50	6.00
NRP-54	34148P	**NRP-54N**	34148	3/8-16	3/4	7/32	.186	5/16-18	13/32	1.50	8.00
NRP-55	34150P	**NRP-55N**	34150	1/2-13	7/8	1/4	.249	3/8-16	7/16	2.50	10.00
NRP-56	34151P	**NRP-56N**	34151	5/8-11	1	5/16	.311	1/2-13	7/16	5.00	10.00
Metric											
NRPM-81	34184P	**NRPM-81N**	34184	M5 x .80	10.3	2.36	2	10-32	5.9	4.5	15.5
NRPM-82	34185P	**NRPM-82N**	34185	M6 x 1.00	12.7	3.17	3	10-32	5.9	4.5	22.0
NRPM-83	34186P	**NRPM-83N**	34186	M8 x 1.25	15.8	4.75	4	1/4-20	8.7	6.5	26.5
NRPM-84	34187P	**NRPM-84N**	34187	M10 x 1.50	19.0	5.50	5	5/16-18	10.3	6.5	35.5
NRPM-85	34188P	**NRPM-85N**	34188	M12 x 1.75	22.2	6.35	6	3/8-16	11.1	11.0	44.5
NRPM-86	34189P	**NRPM-86N**	34189	M16 x 2.00	25.4	7.92	8	1/2-13	11.1	22.0	44.5
Stainless Steel											
Light End Pressure - Inch											
NRP-69	34172P	**NRP-69N**	34172	10-32	13/32	3/32	.104	10-32	15/64	.50	2.00
NRP-70	34174P	**NRP-70N**	34174	1/4-20	1/2	1/8	.124	10-32	15/64	.50	2.50
NRP-71	34176P	**NRP-71N**	34176	5/16-18	5/8	3/16	.155	1/4-20	11/32	.75	3.00
NRP-72	34178P	**NRP-72N**	34178	3/8-16	3/4	7/32	.186	5/16-18	13/32	.75	4.00
NRP-73	34180P	**NRP-73N**	34180	1/2-13	7/8	1/4	.249	3/8-16	7/16	1.25	5.00
NRP-74	34181P	**NRP-74N**	34181	5/8-11	1	5/16	.311	1/2-13	7/16	3.00	6.00
Heavy End Pressure - Inch											
NRP-57	34162P	**NRP-57N**	34162	10-32	13/32	3/32	.104	10-32	15/64	1.00	3.50
NRP-58	34164P	**NRP-58N**	34164	1/4-20	1/2	1/8	.124	10-32	15/64	1.00	5.00
NRP-59	34166P	**NRP-59N**	34166	5/16-18	5/8	3/16	.155	1/4-20	11/32	1.50	6.00
NRP-60	34168P	**NRP-60N**	34168	3/8-16	3/4	7/32	.186	5/16-18	13/32	1.50	8.00
NRP-61	34170P	**NRP-61N**	34170	1/2-13	7/8	1/4	.249	3/8-16	7/16	2.50	10.00
NRP-62	34171P	**NRP-62N**	34171	5/8-11	1	5/16	.311	1/2-13	7/16	5.00	10.00

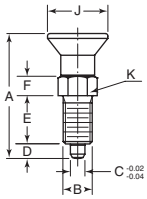
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the bolt has been manually disengaged. Style C is recommended for applications in which gradual disengagement of the locking bolt is desired, without any relocking of the locking pin.

Pull Knobs
Steel and Stainless Steel - Type 303
With Thermoplastic Knob

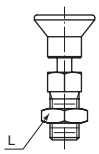
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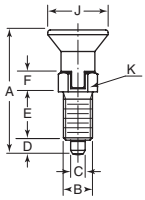
Style A
without locking slot
without locking nut



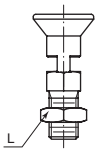
Style B
without locking slot
with locking nut



Style C
with locking slot
without locking nut



Style D
with locking slot
with locking nut



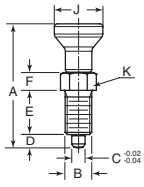
Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Style	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	-0.02/-0.04 C	D	E	F	J	K	L
Inch - Without Locking Nut															
KBP-500	K0338.1105AL	**KBP-504**	K0338.01105AL	A	1.12	2.69	1.712	⅜-24	.196	.196	.669	.275	.826	.511	—
KBP-501	K0338.1206A5	**KBP-505**	K0338.01206A5	A	1.34	3.14	2.035	½-13	.236	.236	.787	.314	.984	.551	—
KBP-502	K0338.1308A6	**KBP-506**	K0338.01308A6	A	3.37	7.86	2.677	⅝-11	.314	.314	1.023	.393	1.299	.748	—
KBP-503	K0338.1410A7	**KBP-507**	K0338.01410A7	A	3.37	8.99	2.913	¾-10	.393	.393	1.102	.472	1.299	.866	—
KBP-540	K0338.3105AL	**KBP-544**	K0338.03105AL	C	1.12	2.69	1.712	⅜-24	.196	.196	.669	.275	.826	.511	—
KBP-541	K0338.3206A5	**KBP-545**	K0338.03206A5	C	1.34	3.14	2.035	½-13	.236	.236	.787	.314	.984	.551	—
KBP-542	K0338.3308A6	**KBP-546**	K0338.03308A6	C	3.37	7.86	2.677	⅝-11	.314	.314	1.023	.393	1.299	.748	—
KBP-543	K0338.3410A7	**KBP-547**	K0338.03410A7	C	3.37	8.99	2.913	¾-10	.393	.393	1.102	.472	1.299	.866	—
Metric - Without Locking Nut															
—		**KBP-516**	K0338.01903	A	4.5	11	31.5	M6 x .75	3	3.5	12	5	14	8	—
KBP-509	K0338.1004	**KBP-517**	K0338.01004	A	6	12	38.5	M8 x 1.00	4	4	15	6	18	10	—
KBP-510	K0338.1105	**KBP-518**	K0338.01105	A	5	12	43.5	M10 x 1.00	5	5	17	7	21	13	—
KBP-511	K0338.1206	**KBP-519**	K0338.01206	A	6	14	51.7	M12 x 1.50	6	6	20	8	25	14	—
KBP-512	K0338.1308	**KBP-520**	K0338.01308	A	15	35	68	M16 x 1.50	8	8	26	10	33	19	—
KBP-513	K0338.1410	**KBP-521**	K0338.01410	A	15	34	74	M20 x 1.50	10	10	28	12	33	22	—
KBP-514	K0338.1412	**KBP-522**	K0338.01412	A	15	39	78	M20 x 1.50	12	12	28	14	33	22	—
KBP-515	K0338.1516	**KBP-523**	K0338.01516	A	20	46	96	M24 x 2.00	16	16	32	18	40	27	—
KBP-548	K0338.3903	**KBP-556**	K0338.03903	C	4.5	11	31.5	M6 x .75	3	3.5	12	5	14	8	—
KBP-549	K0338.3004	**KBP-557**	K0338.03004	C	6	12	38.5	M8 x 1.00	4	4	15	6	18	10	—
KBP-550	K0338.3105	**KBP-558**	K0338.03105	C	5	12	43.5	M10 x 1.00	5	5	17	7	21	13	—
KBP-551	K0338.3206	**KBP-559**	K0338.03206	C	6	14	51.7	M12 x 1.50	6	6	20	8	25	14	—
KBP-552	K0338.3308	**KBP-560**	K0338.03308	C	15	35	68	M16 x 1.50	8	8	26	10	33	19	—
KBP-553	K0338.3410	**KBP-561**	K0338.03410	C	15	34	74	M20 x 1.50	10	10	28	12	33	22	—
KBP-554	K0338.3412	**KBP-562**	K0338.03412	C	15	39	78	M20 x 1.50	12	12	28	14	33	22	—
KBP-555	K0338.3516	**KBP-563**	K0338.03516	C	20	46	96	M24 x 2.00	16	16	32	18	40	27	—
Metric - With Locking Nut															
KBP-524	K0338.2903	**KBP-532**	K0338.02903	B	4.5	11	31.5	M6 x .75	3	3.5	12	5	14	8	10
KBP-525	K0338.2004	**KBP-533**	K0338.02004	B	6	12	38.5	M8 x 1.00	4	4	15	6	18	10	13
KBP-526	K0338.2105	**KBP-534**	K0338.02105	B	5	12	43.5	M10 x 1.00	5	5	17	7	21	13	17
KBP-527	K0338.2206	**KBP-535**	K0338.02206	B	6	14	51.7	M12 x 1.50	6	6	20	8	25	14	19
KBP-528	K0338.2308	**KBP-536**	K0338.02308	B	15	35	68	M16 x 1.50	8	8	26	10	33	19	24
KBP-529	K0338.2410	**KBP-537**	K0338.02410	B	15	34	74	M20 x 1.50	10	10	28	12	33	22	30
KBP-530	K0338.2412	**KBP-538**	K0338.02412	B	15	39	78	M20 x 1.50	12	12	28	14	33	22	30
KBP-531	K0338.2516	**KBP-539**	K0338.02516	B	20	46	96	M24 x 2.00	16	16	32	18	40	27	36
KBP-564	K0338.4903	**KBP-572**	K0338.04903	D	4.5	11	31.5	M6 x .75	3	3.5	12	5	14	8	10
KBP-565	K0338.4004	**KBP-573**	K0338.04004	D	6	12	38.5	M8 x 1.00	4	4	15	6	18	10	13
KBP-566	K0338.4105	**KBP-574**	K0338.04105	D	5	12	43.5	M10 x 1.00	5	5	17	7	21	13	17
KBP-567	K0338.4206	**KBP-575**	K0338.04206	D	6	14	51.7	M12 x 1.50	6	6	20	8	25	14	19
KBP-568	K0338.4308	**KBP-576**	K0338.04308	D	15	35	68	M16 x 1.50	8	8	26	10	33	19	24
KBP-569	K0338.4410	**KBP-577**	K0338.04410	D	15	34	74	M20 x 1.50	10	10	28	12	33	22	30
KBP-570	K0338.4412	**KBP-578**	K0338.04412	D	15	39	78	M20 x 1.50	12	12	28	14	33	22	30
KBP-571	K0338.4516	**KBP-579**	K0338.04516	D	20	46	96	M24 x 2.00	16	16	32	18	40	27	36

Pull Knobs
Stainless Steel - Type 303

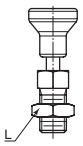
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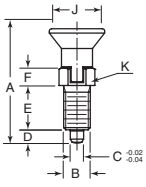
Style A
without locking slot
without locking nut



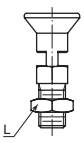
Style B
without locking slot
with locking nut



Style C
with locking slot
without locking nut



Style D
with locking slot
with locking nut



Item No.	MFG #	Style	Initial End Force Newtons	Final End Force Newtons	A	B	-0.02/-0.04 C	D	E	F	J	K	L
Metric - Without Locking Nut													
KBP-580	K0632.001004	A	6	12	43	M8 x 1.00	4	4	15	6	18	10	—
KBP-581	K0632.001105	A	5	12	50	M10 x 1.00	5	5	17	7	21	13	—
KBP-582	K0632.001206	A	6	14	59	M12 x 1.50	6	6	20	8	25	14	—
KBP-583	K0632.001308	A	15	35	77	M16 x 1.50	8	8	26	10	33	19	—
KBP-584	K0632.001410	A	15	34	83	M20 x 1.50	10	10	28	12	33	22	—
KBP-590	K0632.003004	C	6	12	43	M8 x 1.00	4	4	15	6	18	10	—
KBP-591	K0632.003105	C	5	12	50	M10 x 1.00	5	5	17	7	21	13	—
KBP-592	K0632.003206	C	6	14	59	M12 x 1.50	6	6	20	8	25	14	—
KBP-593	K0632.003308	C	15	35	77	M16 x 1.50	8	8	26	10	33	19	—
KBP-594	K0632.003410	C	15	34	83	M20 x 1.50	10	10	28	12	33	22	—
Metric - With Locking Nut													
KBP-585	K0632.002004	B	6	12	43	M8 x 1.00	4	4	15	6	18	10	13
KBP-586	K0632.002105	B	5	12	50	M10 x 1.00	5	5	17	7	21	13	17
KBP-587	K0632.002206	B	6	14	59	M12 x 1.50	6	6	20	8	25	14	19
KBP-588	K0632.002308	B	15	35	77	M16 x 1.50	8	8	26	10	33	19	24
KBP-589	K0632.002410	B	15	34	83	M20 x 1.50	10	10	28	12	33	22	30
KBP-595	K0632.004004	D	6	12	43	M8 x 1.00	4	4	15	6	18	10	13
KBP-596	K0632.004105	D	5	12	50	M10 x 1.00	5	5	17	7	21	13	17
KBP-597	K0632.004206	D	6	14	59	M12 x 1.50	6	6	20	8	25	14	19
KBP-598	K0632.004308	D	15	35	77	M16 x 1.50	8	8	26	10	33	19	24
KBP-599	K0632.004410	D	15	34	83	M20 x 1.50	10	10	28	12	33	22	30

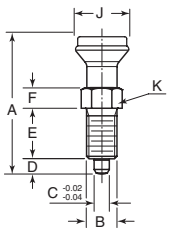
INDEXING PLUNGERS

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the bolt has been manually disengaged. Style C is recommended for applications in which gradual disengagement of the locking bolt is desired, without any relocking of the locking pin.

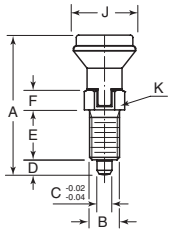
Pull Knobs
Steel and Stainless Steel - Type 303
With Thermoplastic Knob

Kipp







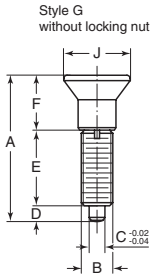


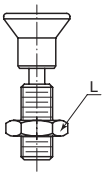
Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Style	Initial End Force Newtons	Final End Force Newtons	A	B	-0.02/-0.04 C	D	E	F	J	K
Metric - Without Locking Nut														
KBP-600	K0339.1105	**KBP-604**	K0339.01105	A	5	12	47	M10 x 1.00	5	5	17	7	21	13
KBP-601	K0339.1206	**KBP-605**	K0339.01206	A	6	14	56	M12 x 1.50	6	6	20	8	25	14
KBP-602	K0339.1308	**KBP-606**	K0339.01308	A	15	35	74	M16 x 1.50	8	8	26	10	33	19
KBP-603	K0339.1410	**KBP-607**	K0339.01410	A	15	34	80	M20 x 1.50	10	10	28	12	33	22
KBP-608	K0339.3105	**KBP-612**	K0339.03105	C	5	12	47	M10 x 1.00	5	5	17	7	21	13
KBP-609	K0339.3206	**KBP-613**	K0339.03206	C	6	14	56	M12 x 1.50	6	6	20	8	25	14
KBP-610	K0339.3308	**KBP-614**	K0339.03308	C	15	35	74	M16 x 1.50	8	8	26	10	33	19
KBP-611	K0339.3410	**KBP-615**	K0339.03410	C	15	34	80	M20 x 1.50	10	10	28	12	33	22

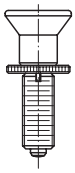
Pull Knobs
Steel and Stainless Steel - Type 303
Without Collar and Locking Nut
With Thermoplastic Knob

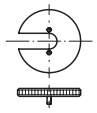
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Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Style	Initial End Force Newtons	Final End Force Newtons	A	B	-0.02/-0.04 C	D	E	F	J	L	Washer (Sold Separately)	MFG #
Metric - Without Locking Nut																
KBP-626	K0343.1004	**KBP-633**	K0343.01004	G	6	12	38.5	M8 x 1.00	4	4	21	13.5	18	—	KBP-664	K0344.90
KBP-627	K0343.1105	**KBP-634**	K0343.01105	G	5	12	43.5	M10 x 1.00	5	5	24	14.5	21	—	KBP-665	K0344.91
KBP-628	K0343.1206	**KBP-635**	K0343.01206	G	6	14	51.7	M12 x 1.50	6	6	28	17.7	25	—	KBP-666	K0344.92
KBP-629	K0343.1308	**KBP-636**	K0343.01308	G	15	35	68	M16 x 1.50	8	8	36	24	33	—	KBP-667	K0344.93
KBP-630	K0343.1410	**KBP-637**	K0343.01410	G	15	34	74	M20 x 1.50	10	10	40	24	33	—	KBP-668	K0344.94
KBP-631	K0343.1412	**KBP-638**	K0343.01412	G	15	39	78	M20 x 1.50	12	12	42	24	33	—	KBP-669	K0344.95
KBP-632	K0343.1516	**KBP-639**	K0343.01516	G	20	46	96	M24 x 2.00	16	16	50	30	40	—		
Metric - With Locking Nut																
KBP-640	K0343.2004	**KBP-647**	K0343.02004	H	6	12	38.5	M8 x 1.00	4	4	21	13.5	18	13	KBP-664	K0344.90
KBP-641	K0343.2105	**KBP-648**	K0343.02105	H	5	12	43.5	M10 x 1.00	5	5	24	14.5	21	17	KBP-665	K0344.91
KBP-642	K0343.2206	**KBP-649**	K0343.02206	H	6	14	51.7	M12 x 1.50	6	6	28	17.7	25	19	KBP-666	K0344.92
KBP-643	K0343.2308	**KBP-650**	K0343.02308	H	15	35	68	M16 x 1.50	8	8	36	24	33	24	KBP-667	K0344.93
KBP-644	K0343.2410	**KBP-651**	K0343.02410	H	15	34	74	M20 x 1.50	10	10	40	24	33	30	KBP-668	K0344.94
KBP-645	K0343.2412	**KBP-652**	K0343.02412	H	15	39	78	M20 x 1.50	12	12	42	24	33	30	KBP-669	K0344.95
KBP-646	K0343.2516	**KBP-653**	K0343.02516	H	20	46	96	M24 x 2.00	16	16	50	30	40	36		

Indexing Plunger Washers

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Item No.	MFG#
KBP-664	K0344.90
KBP-665	K0344.91
KBP-666	K0344.92
KBP-667	K0344.93
KBP-668	K0344.94
KBP-669	K0344.95

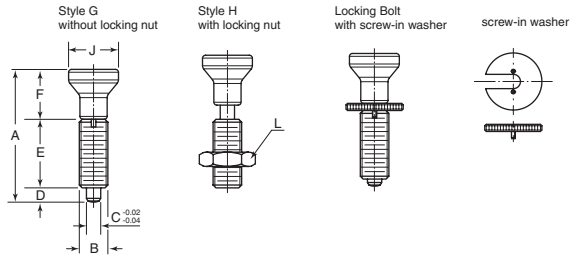


The washer is slid beneath the disengaged pull knob so that the follower pins engage in the slot. Only one washer is needed for any quantity ordered of indexing plungers with the same washer part number.

Pull Knobs
Without Collar
Stainless Steel - Type 303

Kipp



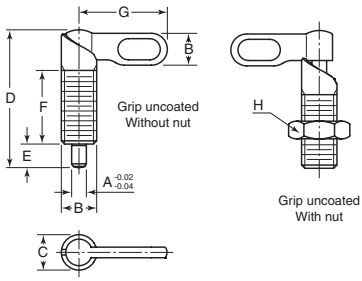


Item No.	MFG #	Style	Initial End Force Newtons	Final End Force Newtons	A	B	-0.02/-0.04 C	D	E	F	J	L	Washer (Sold Separately)
Metric - Without Locking Nut													
KBP-654	K0634.001004	G	6	12	43	M8 x 1.00	4	4	21	18	18	—	KBP-664
KBP-655	K0634.001105	G	5	12	50	M10 x 1.00	5	5	24	21	21	—	KBP-665
KBP-656	K0634.001206	G	6	14	59	M12 x 1.50	6	6	28	25	25	—	KBP-666
KBP-657	K0634.001308	G	15	35	77	M16 x 1.50	8	8	36	33	33	—	KBP-667
KBP-658	K0634.001410	G	15	34	83	M20 x 1.50	10	10	40	33	33	—	KBP-668
Metric - With Locking Nut													
KBP-659	K0634.002004	H	6	12	43	M8 x 1.00	4	4	21	18	18	13	KBP-664
KBP-660	K0634.002105	H	5	12	50	M10 x 1.00	5	5	24	21	21	17	KBP-665
KBP-661	K0634.002206	H	6	14	59	M12 x 1.50	6	6	28	25	25	19	KBP-666
KBP-662	K0634.002308	H	15	35	77	M16 x 1.50	8	8	36	33	33	24	KBP-667
KBP-663	K0634.002410	H	15	34	83	M20 x 1.50	10	10	40	33	33	30	KBP-668

Locking Bolts with Grip
Stainless Steel - Type 303

Kipp





Locking bolts with grip are used when the locking pin should not project at certain times. Turning the bolt through 180° pulls in the locking pin. A locking notch ensures that the locking bolt is held in this position.

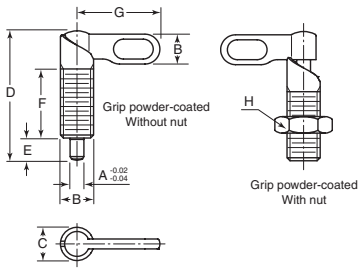
Without Nut Item No.	MFG #	With Nut Item No.	MFG #	Initial End Force Lbs./Newtons	Final End Force Lbs./Newtons	-0.02/-0.04 A	B	C	D	E	F	G	H
Inch													
KBP-766	K0637.10404A4	**KBP-790**	K0637.10504A4	1.79	3.14	4	3/8-16	10	38	6	20	25	9/16
KBP-767	K0637.10405A4	**KBP-791**	K0637.10505A4	1.79	3.14	5	7/8-16	10	38	6	20	25	9/16
KBP-768	K0637.10406A4	**KBP-792**	K0637.10506A4	1.79	3.14	6	3/8-16	10	38	6	20	25	9/16
KBP-769	K0637.10404AL	**KBP-793**	K0637.10504AL	1.79	3.14	4	3/8-24	10	38	6	20	25	9/16
KBP-770	K0637.10405AL	**KBP-794**	K0637.10505AL	1.79	3.14	5	3/8-24	10	38	6	20	25	9/16
KBP-771	K0637.10406AL	**KBP-795**	K0637.10506AL	1.79	3.14	6	3/8-24	10	38	6	20	25	9/16
KBP-772	K0637.10405A5	**KBP-796**	K0637.10505A5	1.79	3.37	5	1/2-13	12	46.8	8	25	30	3/4
KBP-773	K0637.10406A5	**KBP-797**	K0637.10506A5	1.79	3.37	6	1/2-13	12	46.8	8	25	30	3/4
KBP-774	K0637.10408A5	**KBP-798**	K0637.10508A5	1.79	3.37	8	1/2-13	12	46.8	8	25	30	3/4
KBP-775	K0637.10405AM	**KBP-799**	K0637.10505AM	1.79	3.37	5	1/2-20	12	46.8	8	25	30	3/4
KBP-776	K0637.10406AM	**KBP-800**	K0637.10506AM	1.79	3.37	6	1/2-20	12	46.8	8	25	30	3/4
KBP-777	K0637.10408AM	**KBP-801**	K0637.10508AM	1.79	3.37	8	1/2-20	12	46.8	8	25	30	3/4
KBP-778	K0637.10406A6	**KBP-802**	K0637.10506A6	3.37	7.86	6	5/8-11	16	60.4	10	32	40	15/16
KBP-779	K0637.10408A6	**KBP-803**	K0637.10508A6	3.37	7.86	8	5/8-11	16	60.4	10	32	40	15/16
KBP-780	K0637.10410A6	**KBP-804**	K0637.10510A6	3.37	7.86	10	5/8-11	16	60.4	10	32	40	15/16
KBP-781	K0637.10406AN	**KBP-805**	K0637.10506AN	3.37	7.86	6	7/8-18	16	60.4	10	32	40	15/16
KBP-782	K0637.10408AN	**KBP-806**	K0637.10508AN	3.37	7.86	8	5/8-18	16	60.4	10	32	40	15/16
KBP-783	K0637.10410AN	**KBP-807**	K0637.10510AN	3.37	7.86	10	5/8-18	16	60.4	10	32	40	15/16
KBP-784	K0637.10408A7	**KBP-808**	K0637.10508A7	4.49	13.48	8	3/4-10	20	70	12	35	50	1 1/8
KBP-785	K0637.10410A7	**KBP-809**	K0637.10510A7	4.49	13.48	10	3/4-10	20	70	12	35	50	1 1/8
KBP-786	K0637.10412A7	**KBP-810**	K0637.10512A7	4.49	13.48	12	3/4-10	20	70	12	35	50	1 1/8
KBP-787	K0637.10408AO	**KBP-811**	K0637.10508AO	4.49	13.48	8	3/4-16	20	70	12	35	50	1 1/8
KBP-788	K0637.10410AO	**KBP-812**	K0637.10510AO	4.49	13.48	10	3/4-16	20	70	12	35	50	1 1/8
KBP-789	K0637.10412AO	**KBP-813**	K0637.10512AO	4.49	13.48	12	3/4-16	20	70	12	35	50	1 1/8
Metric													
KBP-814	K0637.1040410	**KBP-838**	K0637.1050410	8	14	4	M10	10	38	6	20	25	14
KBP-815	K0637.1040510	**KBP-839**	K0637.1050510	8	14	5	M10	10	38	6	20	25	14
KBP-816	K0637.1040610	**KBP-840**	K0637.1050610	8	14	6	M10	10	38	6	20	25	14
KBP-817	K0637.10404101	**KBP-841**	K0637.10504101	8	14	4	M10 x 1.00	10	38	6	20	25	14
KBP-818	K0637.10405101	**KBP-842**	K0637.10505101	8	14	5	M10 x 1.00	10	38	6	20	25	14
KBP-819	K0637.10406101	**KBP-843**	K0637.10506101	8	14	6	M10 x 1.00	10	38	6	20	25	14
KBP-820	K0637.1040512	**KBP-844**	K0637.1050512	8	15	5	M12	12	46.8	8	25	30	15
KBP-821	K0637.1040612	**KBP-845**	K0637.1050612	8	15	6	M12	12	46.8	8	25	30	15
KBP-822	K0637.1040812	**KBP-846**	K0637.1050812	8	15	8	M12	12	46.8	8	25	30	15
KBP-823	K0637.10405121	**KBP-847**	K0637.10505121	8	15	5	M12 x 1.50	12	46.8	8	25	30	15
KBP-824	K0637.10406121	**KBP-848**	K0637.10506121	8	15	6	M12 x 1.50	12	46.8	8	25	30	15
KBP-825	K0637.10408121	**KBP-849**	K0637.10508121	8	15	8	M12 x 1.50	12	46.8	8	25	30	15
KBP-826	K0637.1040616	**KBP-850**	K0637.1050616	15	35	6	M16	16	60.4	10	32	40	35
KBP-827	K0637.1040816	**KBP-851**	K0637.1050816	15	35	8	M16	16	60.4	10	32	40	35
KBP-828	K0637.1041016	**KBP-852**	K0637.1051016	15	35	10	M16	16	60.4	10	32	40	35
KBP-829	K0637.10406161	**KBP-853**	K0637.10506161	15	35	6	M16 x 1.50	16	60.4	10	32	40	35
KBP-830	K0637.10408161	**KBP-854**	K0637.10508161	15	35	8	M16 x 1.50	16	60.4	10	32	40	35
KBP-831	K0637.10410161	**KBP-855**	K0637.10510161	15	35	10	M16 x 1.50	16	60.4	10	32	40	35
KBP-832	K0637.1040820	**KBP-856**	K0637.1050820	20	60	8	M20	20	70	12	35	50	60
KBP-833	K0637.1041020	**KBP-857**	K0637.1051020	20	60	10	M20	20	70	12	35	50	60
KBP-834	K0637.1041220	**KBP-858**	K0637.1051220	20	60	12	M20	20	70	12	35	50	60
KBP-835	K0637.10408201	**KBP-859**	K0637.10508201	20	60	8	M20 x 1.50	20	70	12	35	50	60
KBP-836	K0637.10410201	**KBP-860**	K0637.10510201	20	60	10	M20 x 1.50	20	70	12	35	50	60
KBP-837	K0637.10412201	**KBP-861**	K0637.10512201	20	60	12	M20 x 1.50	20	70	12	35	50	60

INDEXING PLUNGERS

Locking Bolts with Grip
Steel

Kipp





Locking bolts with grip are used when the locking pin should not project at certain times. Turning the bolt through 180° pulls in the locking pin. A locking notch ensures that the locking bolt is held in this position.

Without Nut Item No.	MFG #	With Nut Item No.	MFG #	Initial End Force Lbs./Newtons	Final End Force Lbs./Newtons	-0.02/-0.04 A	B	C	D	E	F	G	H
Inch													
KBP-670	K0348.0604A4	**KBP-694**	K0348.0704A4	1.79	3.14	.157	3/8-16	.393	1.496	.236	.787	.984	9/16
KBP-671	K0348.0605A4	**KBP-695**	K0348.0705A4	1.79	3.14	.196	3/8-16	.393	1.496	.236	.787	.984	9/16
KBP-672	K0348.0606A4	**KBP-696**	K0348.0706A4	1.79	3.14	.236	3/8-16	.393	1.496	.236	.787	.984	9/16
KBP-673	K0348.0604AL	**KBP-697**	K0348.0704AL	1.79	3.14	.157	3/8-24	.393	1.496	.236	.787	.984	9/16
KBP-674	K0348.0605AL	**KBP-698**	K0348.0705AL	1.79	3.14	.196	3/8-24	.393	1.496	.236	.787	.984	9/16
KBP-675	K0348.0606AL	**KBP-699**	K0348.0706AL	1.79	3.14	.236	3/8-24	.393	1.496	.236	.787	.984	9/16
KBP-676	K0348.0605A5	**KBP-700**	K0348.0705A5	1.79	3.37	.196	1/2-13	.472	1.842	.314	.984	1.181	3/4
KBP-677	K0348.0606A5	**KBP-701**	K0348.0706A5	1.79	3.37	.236	1/2-13	.472	1.842	.314	.984	1.181	3/4
KBP-678	K0348.0608A5	**KBP-702**	K0348.0708A5	1.79	3.37	.314	1/2-13	.472	1.842	.314	.984	1.181	3/4
KBP-679	K0348.0605AM	**KBP-703**	K0348.0705AM	1.79	3.37	.196	1/2-20	.472	1.842	.314	.984	1.181	3/4
KBP-680	K0348.0606AM	**KBP-704**	K0348.0706AM	1.79	3.37	.236	1/2-20	.472	1.842	.314	.984	1.181	3/4
KBP-681	K0348.0608AM	**KBP-705**	K0348.0708AM	3.37	7.86	.314	1/2-20	.629	2.377	.393	1.259	1.574	15/16
KBP-682	K0348.0606A6	**KBP-706**	K0348.0706A6	3.37	7.86	.236	5/8-11	.629	2.377	.393	1.259	1.574	15/16
KBP-683	K0348.0608A6	**KBP-707**	K0348.0708A6	3.37	7.86	.314	5/8-11	.629	2.377	.393	1.259	1.574	15/16
KBP-684	K0348.0610A6	**KBP-708**	K0348.0710A6	3.37	7.86	.393	5/8-11	.629	2.377	.393	1.259	1.574	15/16
KBP-685	K0348.0606AN	**KBP-709**	K0348.0706AN	3.37	7.86	.236	5/8-18	.629	2.377	.393	1.259	1.574	15/16
KBP-686	K0348.0608AN	**KBP-710**	K0348.0708AN	1.79	3.37	.314	5/8-18	.629	2.377	.314	1.250	1.574	15/16
KBP-687	K0348.0610AN	**KBP-711**	K0348.0710AN	3.37	7.86	.393	5/8-18	.629	2.377	.393	1.259	1.574	1 1/8
KBP-688	K0348.0608A7	**KBP-712**	K0348.0708A7	4.49	13.48	.314	3/4-10	.787	2.755	.472	1.377	1.968	1 1/8
KBP-689	K0348.0610A7	**KBP-713**	K0348.0710A7	4.49	13.48	.393	3/4-10	.787	2.755	.472	1.377	1.968	1 1/8
KBP-690	K0348.0612A7	**KBP-714**	K0348.0712A7	4.49	13.48	.472	3/4-10	.787	2.755	.472	1.377	1.968	1 1/8
KBP-691	K0348.0608AO	**KBP-715**	K0348.0708AO	4.49	13.48	.314	3/4-16	.787	2.755	.472	1.377	1.968	1 1/8
KBP-692	K0348.0610AO	**KBP-716**	K0348.0710AO	4.49	13.48	.393	3/4-16	.787	2.755	.472	1.377	1.968	1 1/8
KBP-693	K0348.0612AO	**KBP-717**	K0348.0712AO	4.49	13.48	.472	3/4-16	.787	2.755	.472	1.377	1.968	1 1/8
Metric													
KBP-718	K0348.060410	**KBP-742**	K0348.070410	8	14	4	M10	10	38	6	20	25	17
KBP-719	K0348.060510	**KBP-743**	K0348.070510	8	14	5	M10	10	38	6	20	25	17
KBP-720	K0348.060610	**KBP-744**	K0348.070610	8	14	6	M10	10	38	6	20	25	17
KBP-721	K0348.0604101	**KBP-745**	K0348.0704101	8	14	4	M10 x 1.00	10	38	6	20	25	17
KBP-722	K0348.0605101	**KBP-746**	K0348.0705101	8	14	5	M10 x 1.00	10	38	6	20	25	17
KBP-723	K0348.0606101	**KBP-747**	K0348.0706101	8	14	6	M10 x 1.00	10	38	6	20	25	17
KBP-724	K0348.060512	**KBP-748**	K0348.070512	8	15	5	M12	12	46.8	8	25	30	19
KBP-725	K0348.060612	**KBP-749**	K0348.070612	8	15	6	M12	12	46.8	8	25	30	19
KBP-726	K0348.060812	**KBP-750**	K0348.070812	8	15	8	M12	12	46.8	8	25	30	19
KBP-727	K0348.0605121	**KBP-751**	K0348.0705121	8	15	5	M12 x 1.50	12	46.8	8	25	30	19
KBP-728	K0348.0606121	**KBP-752**	K0348.0706121	8	15	6	M12 x 1.50	12	46.8	8	25	30	19
KBP-729	K0348.0608121	**KBP-753**	K0348.0708121	15	35	8	M12 x 1.50	16	60.4	10	32	40	19
KBP-730	K0348.060616	**KBP-754**	K0348.070616	15	35	6	M16	16	60.4	10	32	40	24
KBP-731	K0348.060816	**KBP-755**	K0348.070816	15	35	8	M16	16	60.4	10	32	40	24
KBP-732	K0348.061016	**KBP-756**	K0348.071016	15	35	10	M16	16	60.4	10	32	40	24
KBP-733	K0348.0606161	**KBP-757**	K0348.0706161	15	35	6	M16 x 1.50	16	60.4	10	32	40	24
KBP-734	K0348.0608161	**KBP-758**	K0348.0708161	8	15	8	M16 x 1.50	12	46.8	8	25	30	24
KBP-735	K0348.0610161	**KBP-759**	K0348.0710161	15	35	10	M16 x 1.50	16	60.4	10	32	40	24
KBP-736	K0348.060820	**KBP-760**	K0348.070820	20	60	8	M20	20	70	12	35	50	30
KBP-737	K0348.061020	**KBP-761**	K0348.071020	20	60	10	M20	20	70	12	35	50	30
KBP-738	K0348.061220	**KBP-762**	K0348.071220	20	60	12	M20	20	70	12	35	50	30
KBP-739	K0348.0608201	**KBP-763**	K0348.0708201	20	60	8	M20x1.5	20	70	12	35	50	30
KBP-740	K0348.0610201	**KBP-764**	K0348.0710201	20	60	10	M20x1.5	20	70	12	35	50	30
KBP-741	K0348.0612201	**KBP-765**	K0348.0712201	20	60	12	M20x1.5	20	70	12	35	50	30

STANDARD QUOTES
IN 4 HOURS OR LESS

MOST PRODUCTS
SHIP SAME DAY

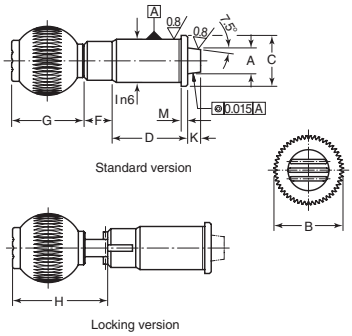
NOBODY WILL SERVE THE **CUSTOMER BETTER.**

The locking bolts with sleeves are a perfect combination for rapid positioning and fixing. The precise finish of both the locking bolt and the sleeve guarantees high repeating accuracy when assembling two elements.

Precision Locking Bolts
Steel with Thermoplastic Ball Grip
With Tapered Support
Metric

Kipp



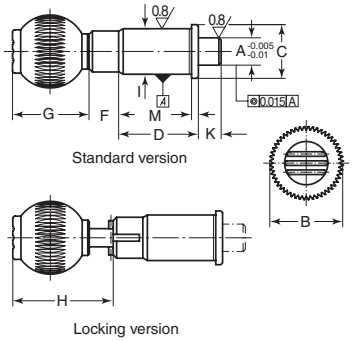


Item No.	Locking MFG #	H	Initial End Force Newtons	Final End Force Newtons	A	B	C	D	F	G	I	K (min.)	M	Grip Ball Internal Thread
KBP-867	K0359.110	32.5	19	29	10	25	19	31	13	25	16	6	2.5	M6

Precision Locking Bolts
Steel with Thermoplastic Ball Grip
With Cylindrical Support
Metric

Kipp



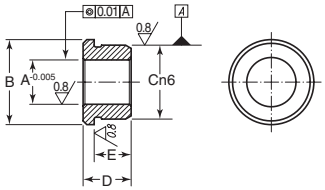


Standard Item No.	MFG #	Locking Item No.	MFG #	H	Initial End Force Newtons	Final End Force Newtons	A	B	C	D	F	G	I	K	M	Grip Ball Internal Thread
KBP-877	K0361.010	**KBP-882**	K0361.110	36.5	15	30	10	25	19	31	13	25	16	10	2.5	M6
KBP-878	K0361.012	**KBP-883**	K0361.112	44.5	15	35	12	32	23	35	13	33	20	10	3	M8
KBP-879	K0361.016	**KBP-884**	K0361.116	53	20	50	16	40	28	42	13	41.5	25	10	3	M10
KBP-880	K0361.020	**KBP-885**	K0361.120	53	36	63	20	40	33	50	13	41.5	30	10	3	M10
KBP-881	K0361.025	**KBP-886**	K0361.125	62.5	20	73	25	50	42	60	13	51	38	10	3	M10

Cylindrical Sleeves
Use with Precision Locking Bolts
Metric

Kipp



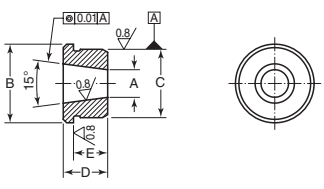


Item No.	MFG #	A	B	C	D	E
KBP-887	K0362.10	10	42	19	11	8.5
KBP-888	K0362.12	12	20	23	13	10
KBP-889	K0362.16	16	25	28	17	14
KBP-890	K0362.20	20	30	33	16	13
KBP-891	K0362.25	25	38	42	19	16

Tapered Sleeves
Use with Precision Locking Bolts
Metric

Kipp





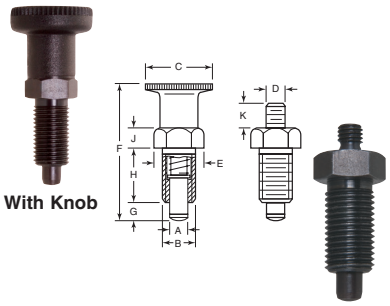
Item No.	MFG #	A	B	C	D	E
KBP-872	K0360.10	7.1	19	16	11	8.5
KBP-873	K0360.12	8.28	23	20	13	10
KBP-874	K0360.16	11.52	28	25	17	14
KBP-875	K0360.20	15.49	33	30	16	13
KBP-876	K0360.25	19.7	42	38	19	16

INDEXING PLUNGERS

These indexing plungers are spring loaded to work in a wide variety of uses in both tooling and equipment. The body is steel with black oxide finish. Plunger is hardened and ground. The knob is black matte plastic. Stainless is Type 303. Locking types have rest position where the plunger can stay in retracted position. Lock nuts sold separately. Metric dimensions are in millimeters, metric end forces are shown in Newtons.

Indexing Plungers
Non-Locking Type with Shoulder
Steel and Stainless Steel

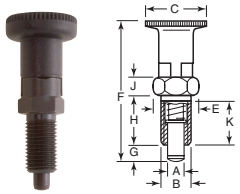
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Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D mm	E	F	G	H	J	K
w/ Knob													
Inch - Steel													
WIP-10	617-5-3/8X24-A	1.5	3.5	.197	3/8-24	.83	—	.54	1.77	.20	.67	.20	—
WIP-15	617-6-1/2X13-A	1.5	3.5	.236	1/2-13	.98	—	.64	2.15	.24	.79	.24	—
WIP-20	617-8-5/8X11-A	2.7	7	.315	5/8-11	1.22	—	.86	2.72	.31	1.02	.31	—
Metric - Steel													
WIP-110	617-5-M10X1-A	7	16	5	M10 x 1.00	21	—	13.8	45	5	17	5	—
WIP-115	617-6-M12X1.5-A	7	16	6	M12 x 1.50	25	—	16.2	45	6	20	6	—
WIP-1	L84/A	7	19	6	M12 x 1.50	25	—	19.6	45	6	10	5	—
WIP-2	L85/A	14	24	8	M16 x 1.50	31	—	21.9	54	8	12	6	—
WIP-120	617-8-M16X1.5-A	12	31	8	M16 x 1.50	31	—	21.9	69	8	26	8	—
Metric - Stainless Steel													
WIP-210	617-5-M10X1-A-NI	5.5	12.5	5	M10 x 1.00	21	—	13.8	45	5	17	5	—
WIP-215	617-6-M12X1.5-A-NI	5	11	6	M12 x 1.50	25	—	16.2	54.5	6	20	6	—
WIP-220	617-8-M16X1.5-A-NI	11	26	8	M16 x 1.50	31	—	21.9	69	8	26	8	—
w/o Knob													
Inch - Steel													
WIP-25	617-5-3/8X24-G	1.5	3.5	.197	3/8-24	—	M5	.54	1.77	.20	.67	.20	.24
WIP-30	617-6-1/2X13-G	1.5	3.5	.236	1/2-13	—	M6	.64	2.15	.24	.79	.24	.39
WIP-35	617-8-5/8X11-G	2.7	7	.315	5/8-11	—	M8	.86	2.72	.31	1.02	.31	.47
Metric - Steel													
WIP-130	617-6-M12X1.5-G	7	16	7	M12 x 1.50	—	M6	16.2	45	6	20	6	10

Indexing Plungers
Locking Type with Shoulder
Steel and Stainless Steel

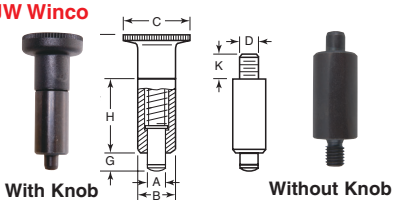
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Item No.	MFG #	Initial End Force Lbs./Newtons	Final End Force Lbs./Newtons	A	B	C	E	F	G	H	J	K
Inch - Steel												
WIP-510	617.1-5-3/8X24-A	1.5	3.5	.197	3/8-24	.83	.54	2.01	.20	.67	.20	.59
WIP-515	617.1-6-1/2X13-A	1.5	3.5	.236	1/2-13	.98	.64	2.40	.24	.79	.24	.67
WIP-520	617.1-8-5/8X11-A	2.7	7	.315	5/8-11	1.22	.86	2.97	.28	1.02	.31	.91
Metric - Steel												
WIP-610	617.1-5-M10X1-A	7	16	5	M10 x 1.00	21	13.8	51	5	17	5	15
WIP-5	L86/A	7	19	6	M12 x 1.50	25	19.6	45	6	10	5	—
WIP-615	617.1-6-M12X1.5-A	7	16	6	M12 x 1.50	25	16.2	61	6	20	6	17
WIP-6	L87/A	14	24	8	M16 x 1.50	31	21.9	54	8	12	6	—
WIP-620	617.1-8-M16X1.5-A	12	31	8	M16 x 1.50	31	21.9	75.5	7	26	8	23
Metric - Stainless Steel												
WIP-710	617.1-5-M10X1-A-NI	5.5	12.5	5	M10 x 1.00	21	13.8	51	5	17	5	15
WIP-715	617.1-6-M12X1.5-A-NI	5	11	6	M12 x 1.50	25	16.2	61	6	20	6	17
WIP-720	617.1-8-M16X1.5-A-NI	11	26	8	M16 x 1.50	31	21.9	75.5	7	26	8	23

Indexing Plungers
Non-Locking Type without Threads
Steel

JW Winco

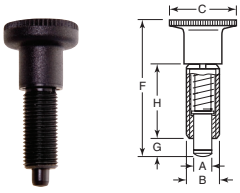


For use where application calls for plunger to be welded or bonded.

Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A mm	B mm	C mm	D mm	F mm	G mm	H mm	K mm
Metric - Steel											
w/ Knob											
WIP-810	F71/A	7	16	5	12	21	—	45	5	22	—
WIP-815	F72/A	7	16	6	14	25	—	54.5	6	26	—
WIP-820	F73/A	12	31	8	18	31	—	69	8	34	—
w/o Knob											
WIP-835	F73/G	12	31	8	18	—	M8	69	8	34	12

Indexing Plungers
Non-Locking Type without Shoulder
Steel and Stainless Steel

JW Winco

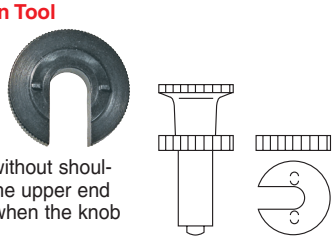


Installation tool required.

Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs. Newtons	A mm	B mm	C mm	F mm	G mm	H mm	Installation Tool
Metric - Steel										
WIP-310	F90/A	7	16	5	M10 x 1.00	21	45	5	22	**WIP-5005**
WIP-315	F91/A	7	16	6	M12 x 1.50	25	54.5	6	26	**WIP-5010**
WIP-320	F92/A	12	31	8	M16 x 1.50	31	69	8	34	**WIP-5015**
WIP-325	F93/A	20	45	10	M20 x 1.50	31	80	10	43	**WIP-5020**
Metric - Stainless Steel										
WIP-410	F94/A	5.5	12.5	5	M10 x 1.00	21	45	5	22	**WIP-5005**
WIP-425	F97/A	18	45	10	M20 x 1.50	31	80	10	43	**WIP-5020**

Indexing Plunger Installation Tool

JW Winco



For use with indexing plungers without shoulders. Two slots are provided in the upper end of the body and are accessible when the knob is in the retracted position.

Item No.	MFG#	Description	Item No.	MFG #	Description
WIP-5005	F99/5	For 5mm Plungers	**WIP-5015**	F99/8	For 8mm Plungers
WIP-5010	F99/6	For 6mm Plungers	**WIP-5020**	F99/10	For 10mm Plungers

Lock Nuts

JW Winco



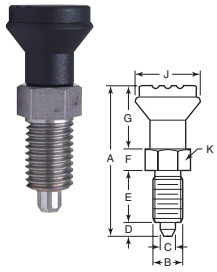
For use with indexing plungers. Steel have black oxide finish. Stainless are Type 303.

Item No.	MFG #	Thread
Steel - Inch		
WIP-6050	7THN2K	3/8-24
WIP-6055	8THN2K	1/2-13
WIP-6060	10THN2K	5/8-11
Steel - Metric		
WIP-6005	DIN439B0037	M10 x 1.00
WIP-6010	DIN439B0048	M12 x 1.50
WIP-6015	8675-M16X1.5-04-BT	M16 x 1.50
WIP-6020	DIN439B500	M20 x 1.50
Stainless Steel - Metric		
WIP-6025	DIN439BS0041	M10 x 1.00

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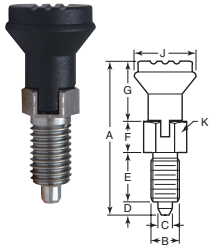
Used to prevent any change in locking position due to shearing force. These are spring loaded for use in fastening, locating and indexing on equipment, tooling and other applications. The plunger can be easily withdrawn by pulling on the handle. Locking types have a rest position where the plunger will stay in the retracted position. The knob is black thermoplastic. Steel type has a black oxide finish. Stainless is Type 303 or equivalent.

Indexing Plungers
Non-Locking Type with Knob
Steel and Stainless Steel
Kipp



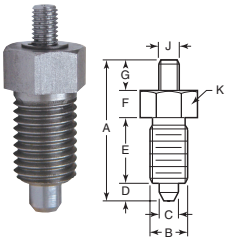
Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	+.000/-.002 C	D	E	F	G	J	K
GIP-5	K0339.1005A4	GIP-30	K0339.01005A4	1.12	2.70	1.85	⅜-16	.197(5mm)	.20	.67	.28	.71	.83	.51
GIP-10	K0339.1105AL	—	--	1.12	2.70	1.85	⅜-24	.197(5mm)	.20	.67	.28	.71	.83	.51
GIP-15	K0339.1206A5	GIP-40	K0339.01206A5	1.35	3.15	2.20	½-13	.236(6mm)	.24	.79	.31	.87	.98	.55
GIP-20	K0339.1308A6	GIP-45	K0339.01308A6	3.37	7.87	2.91	⅝-11	.315(8mm)	.31	1.02	.39	1.18	1.30	.75
GIP-25	K0339.1410A7	GIP-50	K0339.01410A7	4.50	8.99	3.15	¾-10	.394(10mm)	.39	1.10	.47	1.18	1.30	.87

Indexing Plungers
Locking Type with Knob
Steel and Stainless Steel
Kipp



Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	+.000/-.002 C	D	E	F	G	J	K
GIP-55	K0339.3005A4	GIP-80	K0339.03005A4	1.12	2.70	1.85	⅜-16	.197(5mm)	.20	.67	.28	.71	.83	.51
GIP-60	K0339.3105AL	GIP-85	K0339.03105AL	1.12	2.70	1.85	⅜-24	.197(5mm)	.20	.67	.28	.71	.83	.51
GIP-65	K0339.3206A5	GIP-90	K0339.03206A5	1.35	3.15	2.20	½-13	.236(6mm)	.24	.79	.31	.87	.98	.55
GIP-70	K0339.3308A6	GIP-95	K0339.03308A6	3.37	7.87	2.91	⅝-11	.315(8mm)	.31	1.02	.39	1.18	1.30	.75
GIP-75	K0339.3410A7	—		4.50	8.99	3.15	¾-10	.394(10mm)	.39	1.10	.47	1.18	1.30	.87

Indexing Plungers
Non-Locking Type without Knob
Steel and Stainless Steel
Kipp

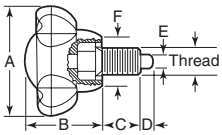


Special handle/grips can be fitted on these plungers. Also suitable for actuation with the aid of a pneumatic cylinder, remote control, cable, etc.

Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	+.000/-.002 C	D	E	F	G	J	K
GIP-105	K0341.1005A4	GIP-130	K0341.01005A4	1.12	2.70	1.46	⅜-16	.197(5mm)	.20	.67	.28	.31	M4	.51
GIP-110	K0341.1105AL	—		1.12	2.70	1.46	⅜-24	.197(5mm)	.20	.67	.28	.31	M4	.51
GIP-115	K0341.1206A5	GIP-140	K0341.01206A5	1.35	3.15	1.69	½-13	.236(6mm)	.24	.79	.31	.35	M6	.55
GIP-120	K0341.1308A6	GIP-145	K0341.01308A6	3.37	7.87	2.20	⅝-11	.315(8mm)	.31	1.02	.39	.47	M8	.75
GIP-125	K0341.1410A7	GIP-150	K0341.01410A7	4.50	8.99	2.44	¾-10	.394(10mm)	.39	1.10	.47	.47	M8	.87

Non-Locking Type with Large Knob
Kipp





These indexing plungers feature an extra large, fluted handle for quick and easy plunger retraction. The plunger can be fully retracted into the body by pulling up on the handle. Handle is made of black thermoplastic. Body and pin are made from steel with black oxide finish.

Item No.	MFG #	A	Thread	B	C	D	E	F
GK-750	K0245.1105AL	1.97	⅜-24	1.37	.51	.20	.197(5mm)	0.87

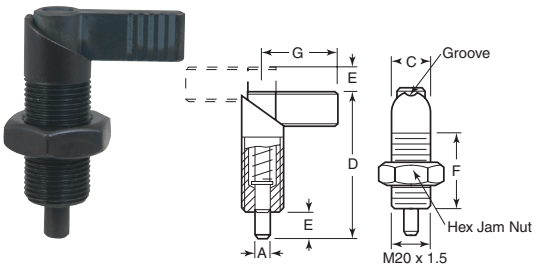
GK-760	K0245.1206A5	1.97	½-13	1.37	.67	.24	.236(6mm)	0.87

Item No.	MFG#	A	Thread	B	C	D	E	F
GK-765	K0245.1308A6	2.48	⅝-11	1.73	.87	.31	.315(8mm)	1.10
GK-770	K0245.1410A7	2.48	¾-10	1.73	.94	.39	.394(10mm)	1.10

CAM ACTION INDEXING PLUNGERS

These spring loaded action indexing plungers are used in many tooling applications as well as on many types of machinery and equipment. The plunger is retracted as the handle is turned on the cam of the body. A groove on the top of the cam locks the plunger into the retracted position. The body of the plunger is made of steel with black oxide finish. The plunger is made of steel, ground and nitrided. The mounting block is made from steel with black oxide finish and allows for greater mounting flexibility.

Plungers

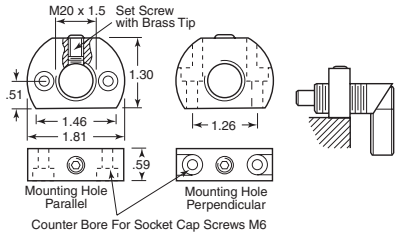


w/ Hex Nut		w/o Hex Nut									
Item No.	MFG #	Item No.	MFG #	-.001/-.002 A	C	D	E	F	G	Initial End Force Lbs.	Final End Force Lbs.
WCP-25	612-8-M20X1.5-AK	**WCP-10**	612-8-M20X1.5-A	.31(8mm)	.79	2.72	.47	1.42	1.46	21	58
WCP-30	612-8-M20X1.5-AK	**WCP-15**	612-10-M20X1.5-A	.39(10mm)	.79	2.72	.47	1.42	1.46	21	58
WCP-35	612-12-M20X1.5-AK	**WCP-20**	612-12-M20X1.5-A	.47(12mm)	.79	2.72	.47	1.42	1.46	21	58

Mounting Block with Plunger

JW Winco



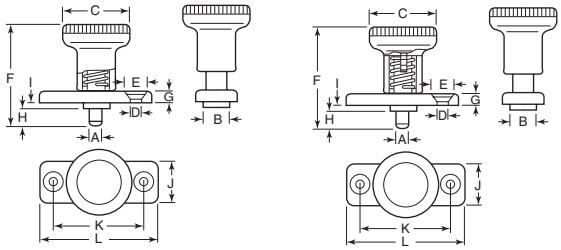


Item No.	MFG #	Description
WCP-40	612.1-M20X1.5-A	Parallel Hole Mounting Block
WCP-45	612.1-M20X1.5-B	Perpendicular Hole Mounting Block

Indexing Plungers with Mounting Plate Locking and Non-Locking

JW Winco





These indexing plungers are spring loaded to work in a variety of applications on both tooling and equipment that require surface mounting. The body is steel with black oxide finish. Plunger is hardened and ground. The knob is black matte plastic and the mounting plate is zinc die cast and zinc plated. Locking types have a rest position where the plunger will stay in the retracted position.
Metric dimensions are in millimeters, metric end forces are shown in Newtons.

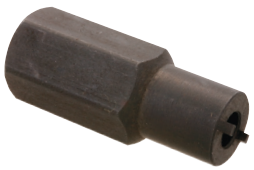
Item No.	MFG #	Initial End Force Newtons	Final End Force Newtons	A mm	B mm	C mm	D m	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm
Non-Locking Type															
WIP-1000	6W6L88	8.5	22	6	10	25	4.3	8.3	37	4.5	6	2.5	18	30	40
WIP-1005	8W8L88	15.5	28	8	12	31	5.3	10.4	44	5.5	8	2.5	20	34	46
Locking Type															
WIP-1010	6W6L90	8.5	22	6	10	25	4.3	8.3	37	4.5	6	2.5	18	30	40
WIP-1015	8W8L90	15.5	28	8	12	31	5.3	10.4	44	5.5	8	2.5	20	34	46

Wrenches for Spring and Ball Plungers

JW Winco

Item No.	MFG #	For Thread Size inch	mm
VW-48	34001	—	6-32
VW-50	34002	—	8-32, 8-36
VW-52	34003	M4, M5	10-32, M4, M5
VW-54	34004	M6	¼-20, ¼-28, M6
VW-56	34005	M8	5/16-18, M8
VW-58	34006	M10	⅜-6, M10
VW-60	34007	M12	½-13, M12
VW-62	34008	M16	⅝-11, M16
VW-64	34009	M10	¾-10, M10
VW-66	34010	—	1-8

*No thread relief



Provides fast installation or removal of spring, ball or stubby spring plungers (including metric). Prevents spring damage that can result when a screwdriver is used on the ball or plunger end. A real convenience and time saver.

PUSH-FIT BALL PLUNGERS

Push fit ball plungers can be used when a threaded ball plunger is impractical or when threaded adjustments are not required for detent. Easy installation for use in wood, soft plastic or aluminum. Steel are made 12L14 steel with black oxide finish. Stainless bodies are Type 303, stainless balls are Type 440.

Push-Fit Light and Heavy Pressure Ball Plungers
Steel or Stainless Steel Body
With Delrin, Nylon or Stainless Steel Balls

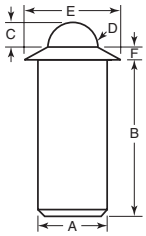
Vlier



Light Pressure



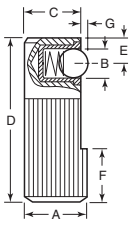
Heavy Pressure



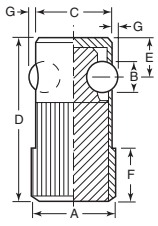
Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	+.002/ -.000 A	B	C	D	E	F	Initial End Force Lbs.	Final End Force Lbs.
Light Pressure											
Nylon Ball											
PFB-147	DPFB47	**SPFB-147**	DSPFB47	.125	.252	.035	.094	.187	.032	.40	1.3
PFB-148	DPFB48	**SPFB-148**	DSPFB48	.125	.252	.035	.094	.187	.032	.75	2.5
PFB-151	DPFB51	**SPFB-151**	DSPFB51	.188	.394	.058	.156	.250	.040	1.00	2.5
PFB-152	DPFB52	**SPFB-152**	DSPFB52	.188	.394	.058	.156	.250	.040	2.00	5.0
PFB-153	DPFB53	**SPFB-153**	DSPFB53	.250	.471	.070	.187	.312	.045	1.50	3.5
PFB-154	DPFB54	**SPFB-154**	DSPFB54	.250	.471	.070	.187	.312	.048	3.00	7.0
PFB-155	DPFB55	—		.312	.643	.090	.250	.375	.045	2.00	5.0
PFB-156	DPFB56	—		.312	.643	.090	.250	.375	.045	4.00	10.0
PFB-157	DPFB57	**SPFB-157**	DSPFB57	.375	.786	.110	.312	.500	.078	2.50	7.0
PFB-158	DPFB58	**SPFB-158**	DSPFB58	.375	.786	.110	.312	.500	.081	5.00	14.0
PFB-160	DPFB60	—		.500	1.100	.161	.437	.688	.110	8.00	18.0
Stainless Steel Ball											
PFB-60	PFB60	**SPFB-60**	SPFB60	.500	1.210	.161	.437	.688	.110	8.00	18.0
PFB-47	PFB47	**SPFB-47**	SPFB47	.125	.252	.035	.094	.187	.032	.40	1.3
PFB-48	PFB48	**SPFB-48**	SPFB48	.125	.252	.035	.094	.187	.032	.75	2.5
PFB-51	10411	**SPFB-51**	10431	.188	.405	.058	.156	.250	.035	1.00	2.5
PFB-52	PFB52	**SPFB-52**	SPFB52	.188	.394	.058	.156	.250	.040	2.00	5.0
PFB-53	10412	**SPFB-53**	10432	.250	.481	.070	.187	.312	.044	1.50	3.5
PFB-54	PFB54	**SPFB-54**	SPFB54	.250	.471	.070	.187	.312	.048	3.00	7.0
PFB-55	PFB55	**SPFB-55**	SPFB55	.312	.643	.090	.250	.375	.045	2.00	5.0
PFB-56	PFB56	**SPFB-56**	SPFB56	.312	.643	.090	.250	.375	.045	4.00	10.0
PFB-57	10413	**SPFB-57**	10433	.375	.785	.110	.312	.500	.078	2.50	7.0
PFB-58	PFB58	**SPFB-58**	SPFB58	.375	.786	.110	.312	.500	.081	5.00	14.0
PFB-59	10414	**SPFB-59**	10434	.500	1.130	.161	.437	.688	.088	4.00	9.0
Heavy Pressure											
Delrin Ball											
PFB-206	10445	**SPFB-206**	10465	.125	.252	.035	.093	.187	.032	2.0	5.0
PFB-207	10446	**SPFB-207**	10466	.188	.405	.058	.156	.250	.035	4.0	10.0
PFB-208	10447	**SPFB-208**	10467	.250	.481	.070	.187	.312	.044	6.0	13.0
PFB-209	10447A	**SPFB-209**	10467A	.312	.643	.090	.250	.375	.045	8.0	16.0
PFB-210	10448	**SPFB-210**	10468	.375	.785	.110	.312	.500	.078	10.0	18.0
PFB-211	10449	**SPFB-211**	10469	.500	1.13	.161	.437	.688	.088	12.0	23.0
Stainless Steel Ball											
PFB-200	10405	**SPFB-200**	10425	.125	.252	.035	.093	.187	.032	2.0	5.0
PFB-201	10406	**SPFB-201**	10426	.188	.405	.058	.156	.250	.035	4.0	10.0
PFB-202	10407	**SPFB-202**	10427	.250	.481	.070	.187	.312	.044	6.0	13.0
PFB-203	10407A	**SPFB-203**	10427A	.312	.643	.090	.250	.375	.045	8.0	16.0
PFB-204	10408	**SPFB-204**	10428	.375	.785	.110	.312	.500	.078	10.0	18.0
PFB-205	PFBH60	**SPFB-205**	10429	.500	1.13	.161	.437	.688	.088	12.0	23.0

Side Thrust Pins
JW Winco





Single Sided



Double Sided

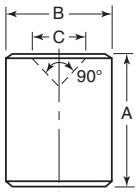
Side thrust pins are used primarily to hold, position and clamp work pieces. The body is made from steel with black oxide finish.

Item No.		A	B	C	D	E	F	G	Initial Load Rating Lbs.	Final Load Rating Lbs.
Single Sided, Stainless Ball, Stainless Spring										
WST-5	8WP14/ENI	.31	.12	.26	.98	.14	.24	.04	.56	1.46
WST-10	10WP14/ENI	.39	.16	.32	1.18	.17	.28	.04	1.01	2.02
WST-15	12WP14/ENI	.47	.20	.40	1.38	.19	.35	.06	1.46	2.92
WST-20	14WP14/ENI	.55	.26	.42	1.57	.23	.39	.07	1.80	4.05
Single Sided, Plastic Ball, Stainless Spring										
WST-25	8WP14/EKU	.31	.12	.26	.98	.14	.24	.04	.56	1.46
WST-30	10WP14/EKU	.39	.16	.32	1.18	.17	.28	.04	1.01	2.02
WST-35	12WP14/EKU	.47	.20	.40	1.38	.19	.35	.06	1.46	2.92
WST-40	14WP14/EKU	.55	.26	.42	1.57	.23	.39	.07	1.80	4.05
Single Sided, Steel Ball, Elasticized Spring										
WST-45	10WP15/EST	.39	.22	.36	1.18	.28	.31	.04	11.24	35.97
Double Sided, Steel Ball, Elasticized Spring										
WST-60	16WP16/BST	.63	.22	.59	1.38	.28	.43	.06	8.09	42.71
WST-65	18WP16/BST	.71	.26	.67	1.57	.31	.47	.07	8.54	60.70

Ball Buttons
Stainless Steel

Vlier





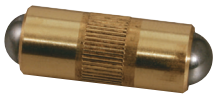
The perfect mating detent for ball plungers or for other similar applications. Hardened and ground. Materials is 440C stainless steel.

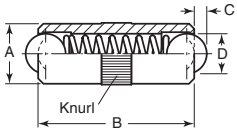
Item No.	For Use with Ball Diameter	A	+.0002/-.0000 B	C
VD-1	BB46	.0620	1/8	.1075	.056
VD-3	BB50	.0938	3/16	.1614	.069

PUSH-FIT & PRESS-FIT BALL PLUNGERS

Brass Body
Stainless Steel Balls
Double-Sided
Metric

Vlier



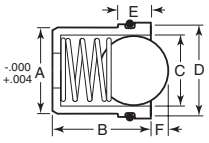


Item No.	MFG#	Initial End Force Newtons	Final End Force Newtons	A	B	C	D
BPFP-10	K0337.04	3	7	4	10	.9	3
BPFP-15	K0337.05	4	8	5	12	1.2	4
BPFP-20	K0337.06	6	10	6	16	1.6	5
BPFP-25	K0337.08	8	12	8	20	2.0	6
BPFP-30	K0337.10	10	16	10	24	2.9	8

Stainless Steel Body
Stainless Steel Ball
O-Ring Seal
Metric

Kipp





Item No.	MFG #	A	B	C	D	E	F	Initial End Force Lbs.	Final End Force Lbs.
SPFP-300	K0582.05	4	5	3	4.95	2.3	.8	3	7
SPFP-305	K0582.06	5	6	4	5.95	2.3	1	4	7
SPFP-310	K0582.08	6	7	5	7.95	3.7	1.5	6	12
SPFP-315	K0582.10	8	9	6.5	9.95	4.2	1.8	6	12
SPFP-320	K0582.12	10	13.5	8	11.95	5.3	2.7	10	20
SPFP-325	K0582.14	12	16	10	13.95	5.5	3.5	15	25

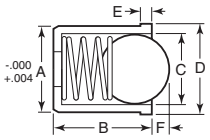
For use in vertical and overhead applications. The unique o-ring design holds the plunger in place and can be easily inserted by hand or assembly tool. Body, spring and ball are stainless steel. The o-ring is Nitrile butadiene rubber (NBR).

Plastic or Stainless Steel Body
With Stainless Steel or Plastic Ball

Kipp

Small and lightweight for use in sensitive and light duty applications. Available with black thermoplastic or stainless steel bodies. The spring and ball are stainless steel or white plastic.





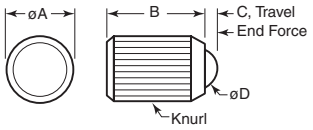
Item No.	MFG #	A	B	C	D	E	F	Initial End Force Lbs.	Final End Force Lbs.
Stainless Steel Ball									
PFP-10	K0334.04	.158(4mm)	.197	.118	.181	.04	.028	.67	1.57
—		.158(4mm)	.197	.118	.181	.04	.032	.67	1.57
PFP-15	K0334.05	.197(5mm)	.236	.157	.220	.04	.039	.90	1.57
PFP-20	K0334.06	.236(6mm)	.276	.197	.256	.04	.059	1.35	2.70
PFP-25	K0334.08	.318(8mm)	.354	.256	.335	.04	.071	1.35	2.70
—		.391(10mm)	.532	.315	.472	.098	.106	2.25	4.50
—		.472(12mm)	.63	.398	.551	.098	.138	3.37	5.62
Plastic Ball									
PFP-106	K0334.204	.158(4mm)	.197	.118	.181	.04	.028	.67	1.57
—		.158(4mm)	.197	.118	.181	.04	.032	.67	1.57
PFP-107	K0334.205	.197(5mm)	.236	.157	.220	.04	.039	.90	1.57
PFP-108	K0334.206	.236(6mm)	.276	.197	.256	.04	.059	1.35	2.70
PFP-109	K0334.208	.318(8mm)	.354	.256	.335	.04	.071	1.35	2.70

Shoulderless Knurled Press-Fit
Steel and Stainless Steel Bodies
Stainless Steel and Nylon Balls

Vlier

These plungers are designed for simple, easy installation into wood, soft plastic or aluminum. Ideal where a threaded plunger is impractical or when threaded adjustments are not required. Nylon ball resists marring. Designed without a shoulder for insertion from either end.





Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D
Nylon Ball									
Light Pressure									
WBP-165	DPFBK47	**WBP-225**	DSPFBK47	.4	1.3	.134	.287	.035	.0937
WBP-175	DPFBK51	**WBP-235**	DSPFBK51	1	2.5	.197	.434	.058	.156
WBP-185	DPFBK53	**WBP-245**	DSPFBK53	1.5	3.5	.259	.519	.07	.1875
WBP-195	DPFBK55	**WBP-255**	DSPFBK55	2	5	.321	.693	.09	.25
WBP-205	DPFBK57	**WBP-265**	DSPFBK57	2.5	7	.384	.866	.11	.3125
WBP-215	DPFBK59	**WBP-275**	DSPFBK59	4	9	.509	1.213	.161	.4375
Heavy Pressure									
WBP-180	DPFBK52	**WBP-240**	DSPFBK52	2	5	.197	.434	.058	.156
WBP-200	DPFBK56	**WBP-260**	DSPFBK56	4	10	.321	.693	.09	.25
WBP-170	DPFBK48	**WBP-230**	DSPFBK48	.75	2.5	.134	.287	.035	.0937
WBP-210	DPFBK58	**WBP-270**	DSPFBK58	5	14	.384	.866	.11	.3125
WBP-190	DPFBK54	**WBP-250**	DSPFBK54	3	7	.259	.519	.07	.1875
WBP-220	DPFBK60	**WBP-280**	DSPFBK60	8	18	.509	1.213	.161	.4375

Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D
Stainless Steel Ball									
Light Pressure									
WBP-285	PFBK47	**WBP-345**	SPFBK47	.4	1.3	.153	.287	.035	.0937
WBP-295	PFBK51	**WBP-355**	SPFBK51	1	2.5	.215	.434	.058	.1562
WBP-305	PFBK53	**WBP-365**	SPFBK53	1.5	3.5	.259	.519	.07	.1875
WBP-315	PFBK55	**WBP-375**	SPFBK55	2	5	.321	.693	.09	.25
WBP-325	PFBK57	**WBP-385**	SPFBK57	2.5	7	.384	.866	.11	.3125
WBP-335	PFBK59	**WBP-395**	SPFBK59	4	9	.509	1.213	.161	.4375
Heavy Pressure									
WBP-300	PFBK52	**WBP-360**	SPFBK52	2	5	.215	.434	.058	.1562
WBP-320	PFBK56	**WBP-380**	SPFBK56	4	10	.321	.693	.09	.25
WBP-290	PFBK48	**WBP-350**	SPFBK48	.75	2.5	.153	.284	.035	.0937
WBP-330	PFBK58	**WBP-390**	SPFBK58	5	14	.384	.864	.11	.312
WBP-310	PFBK54	**WBP-370**	SPFBK54	3	7	.259	.519	.07	.1875
WBP-340	PFBK60	**WBP-400**	SPFBK60	8	18	.509	1.21	.161	.437

BALL PLUNGERS

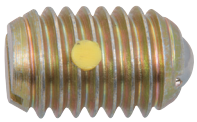
Ball plungers are compact units ideally suited for many locating or positioning applications in dies, special tooling, automatic feed devices, etc., where controlled end pressure is required. Nylon balls offer resistance to repeated impacts, moisture and solvents. Also resists heat up to 190 degrees Fahrenheit and offers electrical insulating properties. Will not mar soft surfaces such as brass or aluminum. Stainless type have stainless bodies and are available with stainless steel or nylon balls. End pressures are shown in pounds for inch sizes and Newtons for metric sizes. Metric dimensions are shown in millimeters. Steel bodies are coded to indicate end force; silver = light end force; black = standard end force; gold = heavy end force. Stainless steel bodies are color coded on the rear of the assembly to indicate end forces; plain = light end force; black = standard end force; orange = heavy end force.

Ball Plungers
Steel Bodies
Stainless Steel or Nylon Ball With Locking Element
Inch or Metric

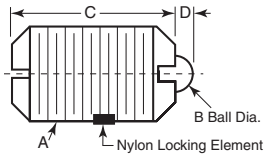
Vlier



Stainless Steel Ball



Nylon Ball with Locking Element



Standard Item No.	MFG#	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D
Stainless Steel Balls									
Inch									
W-23	B46	**W-23N***	B46P	⅛	½	4-48	.0620	.187	.020
W-24	B47	**W-24N***	B47P	¼	¾	5-40	.0620	.250	.020
W-25	B48	**W-25N***	B48P	½	1	6-40	.0780	.312	.023
W-26A	B50A	**W-26AN***	B50AP	½	1¼	8-32	.0937	.344	.025
W-26	B50	**W-26N***	B50P	½	1¼	8-36	.0937	.344	.025
W-14	BL52	**W-14N***	BL52P	½	1½	10-32	.0937	.513	.025
W-13	B52	**W-13N***	B52P	1½	3	10-32	.0937	.513	.025
W-15	BH52	**W-15N***	BH52P	2	5	10-32	.0937	.513	.025
W-17	BL54	**W-17N**	BL54N	2	4	¼-20	.1250	.531	.035
W-16	B54	**W-16N**	B54N	3	7	¼-20	.1250	.531	.035
W-18	BH54	**W-18N**	BH54N	4	12	¼-20	.1250	.531	.035
W-2	BL56	**W-2N**	BL56N	2	4½	5/16-18	.1560	.578	.040
W-1	B56	**W-1N**	B56N	4	9	5/16-18	.1560	.578	.040
W-3	BH56	**W-3N**	BH56N	6	17	5/16-18	.1560	.578	.040
W-5	BL58	**W-5N**	BL58N	2½	5	⅜-16	.1875	.625	.048
W-4	B58	**W-4N**	B58N	5	10	⅜-16	.1875	.625	.048
W-6	BH58	**W-6N**	BH58N	6	21	⅜-16	.1875	.625	.048
W-8	BL60	**W-8N**	BL60N	3	6	½-13	.2813	.750	.072
W-7	B60	**W-7N**	B60N	6	12	½-13	.2813	.750	.072
W-9	BH60	**W-9N**	BH60N	6	30	½-13	.2813	.750	.072
W-11	BL62	**W-11N**	BL62N	4½	9	⅝-11	.3750	.984	.096
W-12	BH62	**W-12N**	BH62N	7	50	⅝-11	.3750	.984	.096
W-10	B62	**W-10N**	B62N	9	18	⅝-11	.3750	.984	.096
Metric									
—	—	**BM-195N**	BM3AP	4.5	3	M3 x 0.5	1.50	7	.4
—	—	**JP-972N**	10972	2.25	5.49	M5 x .8	2.38	13	.6
—	—	**JP-973N**	10973	6.67	13.25	M5 x .8	2.38	13	.6
—	—	**JP-974N**	10974	8.83	22.06	M5 x .8	2.38	13	.6
BM-120	BM4A	**BM-120N**	BM4AP	4	10	M4 x .7	2.50	9	.8
BM-130	BML6A	**BM-130N**	BML6AP	2	6	M6 x 1.0	3.50	14	1.0
BM-125	BM6A	**BM-125N**	BM6AP	9	13	M6 x 1.0	3.50	14	1.0
BM-200	BM5A	**BM-200N**	BM5AP	14	8	M5 x 0.8	3.50	12	.9
BM-210	BMH5A	**BM-210N**	BMH5AP	22	15	M5 x 0.8	3.50	12	.9
BM-135	BMH6A	**BM-135N**	BMH6AP	28	40	M6 x 1.0	3.50	14	1.0
BM-145	BML8A	**BM-145N**	BML8AN	5	10	M8 x 1.25	5.00	16	1.5
BM-140	BM8A	**BM-140N**	BM8AN	15	30	M8 x 1.25	5.00	16	1.5
BM-150	BMH8A	**BM-150N**	BMH8AN	40	60	M8 x 1.25	5.00	16	1.5
BM-160	BML10A	**BM-160N**	BML10AN	8	15	M10 x 1.50	6.00	19	2.0
BM-155	BM10A	**BM-155N**	BM10AN	20	35	M10 x 1.50	6.00	19	2.0
BM-165	BMH10A	**BM-165N**	BMH10AN	60	90	M10 x 1.50	6.00	19	2.0
BM-175	BML12A	—		10	20	M12 x 1.75	8.00	22	2.5
BM-170	BM12A	**BM-170N**	BM12AN	30	55	M12 x 1.75	8.00	22	2.5
—		**BM-175N**	BML12AN	10	20	M12 x 1.75	8.00	22	2.5
BM-180	BMH12A	**BM-180N**	BMH12AN	75	115	M12 x 1.75	8.00	22	2.5
BM-190	BM16A	**BM-190N**	BM16AN	86	41	M16 x 2.0	10	24	3.50
BM-205	BMH16A	**BM-205N**	BMH16AN	142	68	M16 x 2.0	10	24	3.50

Standard Item No.	MFG#	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D
Nylon Balls									
Inch									
W-40	DB46	**W-40N**	DB46P	⅛	½	4-48	.0620	.187	.020
W-42	DB47	**W-42N***	DB47P	¼	¾	5-40	.0620	.250	.020
W-44	DB48	**W-44N***	DB48P	½	1	6-40	.0780	.312	.023
W-48	DB50	**W-48N***	DB50P	½	1¼	8-36	.0937	.344	.025
W-46	DB50A	**W-46N***	DB50AP	½	1¼	8-32	.0937	.344	.025
W-50	DBL52	**W-50N***	DBL52P	½	1½	10-32	.0937	.513	.025
W-52	DB52	**W-52N***	DB52P	1½	3	10-32	.0937	.513	.025
W-54	DBH52	**W-54N***	DBH52P	2	5	10-32	.0937	.513	.025
W-56	DBL54	**W-56N**	DBL54N	2	4	¼-20	.1250	.531	.035
W-58	DB54	**W-58N**	DB54N	3	7	¼-20	.1250	.531	.035
W-60	DBH54	**W-60N**	DBH54N	4	12	¼-20	.1250	.531	.035
W-62	DBL56	**W-62N**	DBL56N	2	4½	5/16-18	.1560	.578	.040
W-64	DB56	**W-64N**	DB56N	4	9	5/16-18	.1560	.578	.040
W-66	DBH56	—		6	17	5/16-18	.1560	.578	.040
W-68	DBL58	**W-68N**	DBL58N	2½	5	⅜-16	.1875	.625	.048
W-70	DB58	**W-70N**	DB58N	5	10	⅜-16	.1875	.625	.048
W-72	DBH58	—		6	21	⅜-16	.1875	.625	.048
W-74	DBL60	**W-74N**	DBL60N	3	6	½-13	.2813	.750	.072
W-76	DB60	**W-76N**	DB60N	6	12	½-13	.2813	.750	.072
W-78	DBH60	**W-78N**	DBH60N	6	30	½-13	.2813	.750	.072
—		**W-80N**	DBL62N	4½	9	⅝-11	.3750	.984	.096
W-84	DBH62	**W-84N**	DBH62N	7	50	⅝-11	.3750	.984	.096
W-82	DB62	**W-82N**	DB62N	9	18	⅝-11	.3750	.984	.096
Metric									
BM-220	DBM3A	**BM-220N**	DBM3AP	4.5	3	M3 X 0.5	1.50	7	.4
BM-225	DBM3A	**BM-225N**	DBM5AP	14	8	M5 X 0.8	3.50	12	.9
BM-235	DBM3A	**BM-235N**	DBMH5AP	22	15	M5 X 0.8	3.50	12	.9
BM-215		**BM-215N**	DBM16AN	86	41	M16 x 2.0	10	24	3.50
BM-230		**BM-230N**	DBMH16AN	142	68	M16 X 2.0	10	24	3.50

*Sizes ¼-20 and smaller with have a Nylon Patch. Sizes greater than ¼-20 will have a Nylon Plug.

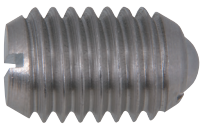
Note: Plungers with nylon locking element are not recommended for aluminum applications.

BALL PLUNGERS

Ball plungers are compact units ideally suited for many locating or positioning applications in dies, special tooling, automatic feed devices, etc., where controlled end pressure is required. Nylon balls offer resistance to repeated impacts, moisture and solvents. Also resists heat up to 190 degrees Fahrenheit and offers electrical insulating properties. Will not mar soft surfaces such as brass or aluminum. Stainless type have stainless bodies and are available with stainless steel or nylon balls. End pressures are shown in pounds for inch sizes and Newtons for metric sizes. Metric dimensions are shown in millimeters. Steel bodies are coded to indicate end force; silver = light end force; black = standard end force; gold = heavy end force. Stainless steel bodies are color coded on the rear of the assembly to indicate end forces; plain = light end force; black = standard end force; orange = heavy end force.

Ball Plungers
Stainless Steel Bodies
Stainless Steel or Nylon Ball With Locking Element
Inch or Metric
Vlier

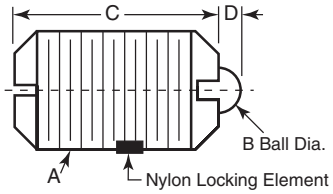
Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D
Stainless Steel Balls									
Inch									
X-1	SSB46	**X1-N***	10001	⅛	½	4-48	.0620	.187	.020
X-2	SSB47	**X2-N***	SSB47P	¼	¾	5-40	.0620	.250	.020
X-3	SSB48	**X3-N***	SSB48P	½	1	6-40	.0780	.312	.023
X-4A	SSB50A	**X4A-N***	SSB50AP	½	1¼	8-32	.0937	.344	.025
X-4	SSB50	**X4-N***	SSB50P	½	1¼	8-36	.0937	.344	.025
X-11	SSBL52	**X11-N***	SSBL52P	½	1½	10-32	.0937	.513	.025
X-5	SSB52	**X5-N***	SSB52P	1½	3	10-32	.0937	.513	.025
X-12	SSBH52	**X12-N***	SSBH52P	2	5	10-32	.0937	.513	.025
X-13	SSBL54	**X13-N**	SSBL54N	2	4	¼-20	.1250	.531	.035
X-6	SSB54	**X6-N**	SSB54N	3	7	¼-20	.1250	.531	.035
X-14	SSBH54	**X14-N**	SSBH54N	4	12	¼-20	.1250	.531	.035
X-15	SSBL56	**X15-N**	SSBL56N	2	4½	5⁄16-18	.1560	.578	.040
X-7	SSB56	**X7-N**	SSB56N	4	9	5⁄16-18	.1560	.578	.040
X-16	SSBH56	**X16-N**	SSBH56N	6	17	5⁄16-18	.1560	.578	.040
X-17	SSBL58	**X17-N**	SSBL58N	2½	5	⅜-16	.1875	.625	.048
X-8	SSB58	**X8-N**	SSB58N	5	10	⅜-16	.1875	.625	.048
X-18	SSBH58	**X18-N**	SSBH58N	6	21	⅜-16	.1875	.625	.048
X-19	SSBL60	**X19-N**	SSBL60N	3	6	½-13	.2813	.750	.072
X-9	SSB60	**X9-N**	SSB60N	6	12	½-13	.2813	.750	.072
X-20	SSBH60	**X20-N**	SSBH60N	6	30	½-13	.2813	.750	.072
X-21	SSBL62	**X21-N**	SSBL62N	4½	9	⅝-11	.3750	.984	.096
X-22	SSBH62	**X22-N**	SSBH62N	7	50	⅝-11	.3750	.984	.096
X-10	SSB62	**X10-N**	SSB62N	9	18	⅝-11	.3750	.984	.096
Metric									
BM-265	SBM3	**BM-265N**	SBM3P	4.5	3	M3 X 0.5	1.50	7	.4
SBM-120	SBM4	**SBM-120N**	SBM4P	4	10	M4 x .7	2.50	9	.8
SBM-130	SBML6	**SBM-130N**	SBML6P	2	6	M6 x 1.0	3.50	14	1.0
SBM-125	SBM6	**SBM-125N**	SBM6P	9	13	M6 x 1.0	3.50	14	1.0
BM-270	SBM5	**BM-270N**	SBM5P	14	8	M5 X 0.8	3.50	12	.9
BM-280	SBMH5	**BM-280N**	SBMH5P	22	15	M5 X 0.8	3.50	12	.9
SBM-135	SBMH6	**SBM-135N**	SBMH6P	28	40	M6 x 1.0	3.50	14	1.0
SBM-145	SBML8	**SBM-145N**	SBML8N	5	10	M8 x 1.25	5.00	16	1.5
SBM-140	SBM8	**SBM-140N**	SBM8N	15	30	M8 x 1.25	5.00	16	1.5
SBM-150	SBMH8	**SBM-150N**	SBMH8N	40	60	M8 x 1.25	5.00	16	1.5
SBM-160	SBML10	**SBM-160N**	SBML10N	8	15	M10 x 1.50	6.00	19	2.0
SBM-155	SBM10	**SBM-155N**	SBM10N	20	35	M10 x 1.50	6.00	19	2.0
SBM-165	SBMH10	**SBM-165N**	SBMH10N	60	90	M10 x 1.50	6.00	19	2.0
SBM-170	SBM12	**SBM-170N**	SBM12N	30	55	M12 x 1.75	8.00	22	2.5
SBM-175	SBML12	**SBM-175N**	SBML12N	75	20	M12 x 1.75	8.00	22	2.5
SBM-180	SBMH12	**SBM-180N**	SBMH12N	75	115	M12 x 1.75	8.00	22	2.5
BM-260	SBM16	**BM-260N**	SBM16N	86	41	M16 X 2.0	10	24	3.50
BM-275	SBMH16	**BM-275N**	SBMH16N	142	68	M16 X 2.0	10	24	3.50



Stainless Steel Ball



Nylon Ball with Locking Element



Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs./ Newtons	Final End Force Lbs./ Newtons	A	B	C	D
Nylon Balls									
Inch									
Y-1	DSSB46	**Y-1N***	10150	⅛	½	4-48	.0620	.187	.020
Y-2	DSSB47	**Y-2N***	DSSB47P	¼	¾	5-40	.0620	.250	.020
Y-3	DSSB48	**Y-3N***	DSSB48P	½	1	6-40	.0780	.312	.023
Y-4A	DSSB50A	**Y-4AN***	DSSB50AP	½	1¼	8-32	.0937	.344	.025
Y-4	DSSB50	**Y-4N***	DSSB50P	½	1¼	8-36	.0937	.344	.025
Y-11	DSSBL52	**Y-11N***	DSSBL52P	½	1½	10-32	.0937	.513	.025
Y-5	DSSB52	**Y-5N***	DSSB52P	1½	3	10-32	.0937	.513	.025
Y-12	DSSBH52	**Y-12N***	10157	2	5	10-32	.0937	.513	.025
Y-13	DSSBL54	**Y-13N**	DSSBL54N	2	4	¼-20	.1250	.531	.035
Y-6	DSSB54	**Y-6N**	DSSB54N	3	7	¼-20	.1250	.531	.035
Y-14	DSSBH54	**Y-14N**	DSSBH54N	4	12	¼-20	.1250	.531	.035
Y-15	DSSBL56	**Y-15N**	DSSBL56N	2	4½	5⁄16-18	.1560	.578	.040
Y-7	DSSB56	**Y-7N**	DSSB56N	4	9	5⁄16-18	.1560	.578	.040
Y-16	DSSBH56	**Y-16N**	DSSBH56N	6	17	5⁄16-18	.1560	.578	.040
Y-17	DSSBL58	**Y-17N**	DSSBL58N	2½	5	⅜-16	.1875	.625	.048
Y-8	10165P	**Y-8N**	DSSB58N	5	10	⅜-16	.1875	.625	.048
Y-18	DSSBH58	**Y-18N**	DSSBH58N	6	21	⅜-16	.1875	.625	.048
—		**Y-19N**	DSSBL60N	3	6	½-13	.2813	.750	.072
Y-9	DSSB60	**Y-9N**	DSSB60N	6	12	½-13	.2813	.750	.072
Y-20	DSSBH60	**Y-20N**	DSSBH60N	6	30	½-13	.2813	.750	.072
Y-21	DSSBL62	**—**		4½	9	⅝-11	.3750	.984	.096
Y-22	DSSBH62	**Y-22N**	DSSBH62N	7	50	⅝-11	.3750	.984	.096
Metric									
BM-240	DSBM3	**BM-240N**	DSBM3P	4.5	3	M3 X 0.5	1.50	7	.4
BM-245	DSBM5	**BM-245N**	DSBM5P	14	8	M5 X 0.8	3.50	12	.9
BM-250	DSBMH5	**BM-250N**	DSBMH5P	22	15	M5 X 0.8	3.50	12	.9
BM-255	DSBM16	**BM-255N**	DSBM16N	86	41	M16 X 2.0	10	24	3.50

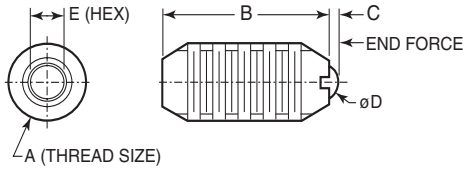
*Sizes ¼-20 and smaller with have a Nylon Patch. Sizes greater than ¼-20 will have a Nylon Plug.
Note: Plungers with nylon locking element are not recommended for aluminum applications.

BALL PLUNGERS

Posi-hex plungers allow for easy installation and removal from the back side using a hex wrench. Plunger assembly will not come apart under critical applications because the hex plug is permanently installed and cannot break loose upon installation or removal. Posi-hex is recommended for use in high torque applications.

Posi-Hex
Steel and Stainless Steel
Vlier





Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	+/-.010 A	B	C	D	E
Steel										
—	—	**1288593**	—	.50	1	6-40	.35	.023	.078	
W-101	PHB50	**W-101N***	PHB50P	.50	1.25	8-32	.445	.025	.094	.063
W-102	PHB52	**W-102N***	PHB52P	1.5	3.0	10-32	.570	.025	.094	.079
W-103	PHB54	**W-103N**	PHB54P	3.0	7.0	¼-20	.675	.035	.125	.079
W-104	PHB56	**W-104N**	PHB56P	4.0	9.0	5⁄16-18	.720	.040	.156	.095
W-105	PHB58	**W-105N**	PHB58P	5.0	10.0	⅜-16	.800	.048	.188	.156
W-106	PHB60	**W-106N**	PHB60P	6.0	12.0	½-13	1.05	.072	.281	.219
W-107	PHB62	**W-107N**	PHB62P	9.0	18.0	⅝-11	1.25	.096	.375	.253
Delrin Ball										
1288596	—	**1288597**	—	0.5	1	6-40	.35	.023	.078	
1288598	—	**1288599**	—	0.5	1.25	8-32	.445	.025	.094	
1288600	—	**1288601**	—	1.5	3	10-32	.57	.025	.094	
1288602	—	**1288603**	—	3	7	¼-20	.675	.035	.125	
1288604	—	**1288605**	—	4	9	5⁄16-18	.72	.04	.156	
1288606	—	**1288607**	—	5	10	⅜-16	.8	.048	.188	
1288608	—	**1288609**	—	6	12	½-13	1.05	.072	.281	
1288610	—	**1288611**	—	9	18	⅝-11	1.25	.096	.375	
Metric - Stainless Steel Ball										
1288736	—	**1288737**	—	4	10	M4x0.7	11.2	0.8	2.5	
1288738	—	**1288739**	—	8	14	M5x0.8	14.4	0.9	3.5	
1288740	—	**1288741**	—	15	22	M5x0.8	14.4	0.9	3.5	
1288744	—	**1288745**	—	2	6	M6x1.0	17	1	3.5	
1288742	—	**1288743**	—	9	13	M6x1.0	17	1	3.5	
1288746	—	**1288747**	—	28	40	M6x1.0	17	1	3.5	
1288750	—	**1288751**	—	5	10	M8x1.25	18.2	1.5	5	
1288748	—	**1288749**	—	15	30	M8x1.25	18.2	1.5	5	
1288752	—	**1288753**	—	40	60	M8x1.25	18.2	1.5	5	
1288756	—	**1288757**	—	8	15	M10x1.5	22.9	2	6	
1288754	—	**1288755**	—	20	35	M10x1.5	22.9	2	6	
1288758	—	**1288759**	—	60	90	M10x1.5	22.9	2	6	
1288762	—	**1288763**	—	10	20	M12x1.75	26.6	2.5	8	
1288760	—	**1288761**	—	30	55	M12x1.75	26.6	2.5	8	
1288764	—	**1288765**	—	75	115	M12x1.75	26.6	2.5	8	
1288768	—	**1288769**	—	20	40	M16x2.0	31.7	3.5	10	
1288766	—	**1288767**	—	41	86	M16x2.0	31.7	3.5	10	
1288770	—	**1288771**	—	68	142	M16x2.0	31.7	3.5	10	
Metric - Nylon Ball										
1288808	—	**1288809**	—	4	10	M4x0.7	11.2	0.8	2.5	
1288810	—	**1288811**	—	8	14	M5x0.8	14.4	0.9	3.5	
1288812	—	**1288813**	—	15	22	M5x0.8	14.4	0.9	3.5	
1288816	—	**1288817**	—	2	6	M6x1.0	17	1	3.5	
1288814	—	**1288815**	—	9	13	M6x1.0	17	1	3.5	
1288818	—	**1288819**	—	28	40	M6x1.0	17	1	3.5	
1288822	—	**1288823**	—	5	10	M8x1.25	18.2	1.5	5	
1288820	—	**1288821**	—	15	30	M8x1.25	18.2	1.5	5	
1288824	—	**1288825**	—	40	60	M8x1.25	18.2	1.5	5	
1288828	—	**1288829**	—	8	15	M10x1.5	22.9	2	6	
1288826	—	**1288827**	—	20	35	M10x1.5	22.9	2	6	
1288830	—	**1288831**	—	60	90	M10x1.5	22.9	2	6	
1288834	—	**1288835**	—	10	20	M12x1.75	26.6	2.5	8	
1288832	—	**1288833**	—	30	55	M12x1.75	26.6	2.5	8	
1288836	—	**1288837**	—	75	115	M12x1.75	26.6	2.5	8	
1288840	—	**1288841**	—	20	40	M16x2.0	31.7	3.5	10	
1288838	—	**1288839**	—	41	86	M16x2.0	31.7	3.5	10	
1288842	—	**1288843**	—	68	142	M16x2.0	31.7	3.5	10	

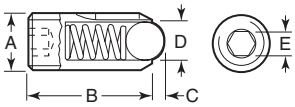
*Nylon patch

Standard Item No.	MFG #	Locking Element Item No.	MFG #	Initial End Force Lbs.	Final End Force Lbs.	+/-.010 A	B	C	D	E
Stainless Steel										
1288594		**1288595**		0.5	1	6-40	0.35	023	.078	
W-111	SSPHB50	**W-111N**	SSPHB50P	.50	1.25	8-32	.445	.025	.094	.063
Stainless Steel										
W-112	SSPHB52	**W-112N**	SSPHB52P	1.5	3.0	10-32	.570	.025	.094	.079
W-113	SSPHB54	**W-113N**	SSPHB54P	3.0	7.0	¼-20	.675	.035	.125	.079
W-114	SSPHB56	**W-114N**	SSPHB56P	4.0	9.0	5⁄16-18	.720	.040	.156	.095
W-115	SSPHB58	**W-115N**	SSPHB58P	5.0	10.0	⅜-16	.800	.048	.188	.156
W-116	SSPHB60	**W-116N**	SSPHB60P	6.0	12.0	½-13	1.05	.072	.281	.219
W-117	SSPHB62	**W-117N**	SSPHB62P	9.0	18.0	⅝-11	1.25	.096	.375	.253
Delrin Ball										
1288612	—	**1288613**	—	.5	1	6-40	.35	.023	.078	
1288614	—	**1288615**	—	.5	1.25	8-32	.445	.025	.094	
1288616	—	**1288617**	—	1.5	3	10-32	.57	.025	.094	
1288618	—	**1288619**	—	3	7	¼-20	.675	.035	.125	
1288620	—	**1288621**	—	4	9	5⁄16-18	.72	.04	.156	
1288622	—	**1288623**	—	5	10	⅜-16	.8	.048	.188	
1288624	—	**1288625**	—	6	12	½-13	1.05	.072	.281	
1288626	—	**1288627**	—	9	18	⅝-11	1.25	.096	.375	
Metric - Stainless Steel Ball										
1288772	—	**1288773**	—	4	10	M4x0.7	11.2	0.8	2.5	
1288774	—	**1288775**	—	8	14	M5x0.8	14.4	0.9	3.5	
1288776	—	**1288777**	—	15	22	M5x0.8	14.4	0.9	3.5	
1288780	—	**1288781**	—	2	6	M6x1.0	17	1	3.5	
1288778	—	**1288779**	—	9	13	M6x1.0	17	1	3.5	
1288782	—	**1288783**	—	28	40	M6x1.0	17	1	3.5	
1288786	—	**1288787**	—	5	10	M8x1.25	18.2	1.5	5	
1288784	—	**1288785**	—	15	30	M8x1.25	18.2	1.5	5	
1288788	—	**1288789**	—	40	60	M8x1.25	18.2	1.5	5	
1288792	—	**1288793**	—	8	15	M10x1.5	22.9	2	6	
1288790	—	**1288791**	—	20	35	M10x1.5	22.9	2	6	
1288794	—	**1288795**	—	60	90	M10x1.5	22.9	2	6	
1288798	—	**1288799**	—	10	20	M12x1.75	26.6	2.5	8	
1288796	—	**1288797**	—	30	55	M12x1.75	26.6	2.5	8	
1288800	—	**1288801**	—	75	115	M12x1.75	26.6	2.5	8	
1288804	—	**1288805**	—	20	40	M16x2.0	31.7	3.5	10	
1288802	—	**1288803**	—	41	86	M16x2.0	31.7	3.5	10	
1288806	—	**1288807**	—	68	142	M16x2.0	31.7	3.5	10	
Metric - Nylon Ball										
1288844	—	**1288845**	—	4	10	M4x0.7	11.2	0.8	2.5	
1288846	—	**1288847**	—	8	14	M5x0.8	14.4	0.9	3.5	
1288848	—	**1288849**	—	15	22	M5x0.8	14.4	0.9	3.5	
1288852	—	**1288853**	—	2	6	M6x1.0	17	1	3.5	
1288850	—	**1288851**	—	9	13	M6x1.0	17	1	3.5	
1288854	—	**1288855**	—	28	40	M6x1.0	17	1	3.5	
1288858	—	**1288859**	—	5	10	M8 x1.25	18.2	1.5	5	
1288856	—	**1288857**	—	15	30	M8x1.25	18.2	1.5	5	
1288860	—	**1288861**	—	40	60	M8x1.25	18.2	1.5	5	
1288864	—	**1288865**	—	8	15	M10x1.5	22.9	2	6	
1288862	—	**1288863**	—	20	35	M10x1.5	22.9	2	6	
1288866	—	**1288867**	—	60	90	M10x1.5	22.9	2	6	
1288870	—	**1288871**	—	10	20	M12x1.75	26.6	2.5	8	
1288868	—	**1288869**	—	30	55	M12x1.75	26.6	2.5	8	
1288872	—	**1288873**	—	75	115	M12x1.75	26.6	2.5	8	
1288876	—	**1288877**	—	20	40	M16x2.0	31.7	3.5	10	
1288874	—	**1288875**	—	41	86	M16x2.0	31.7	3.5	10	
1288878	—	**1288879**	—	68	142	M16x2.0	31.7	3.5	10	

BALL PLUNGERS

Ball Plungers
Hexagon Socket Style
With Long-Lok Thread Lock
Inch or Metric
Kipp





The Long-Lok thread lock provides additional resistance to vibration. A resilient nylon insert is squeezed like a wedge between the thread of the plunger and the fastening component, providing extremely high loosening torque. The Long-Lok thread lock does not require initial tension or any defined position so that it is secure in every position. All plungers are pressure and function tested. The steel plungers have a black oxide finish. Steel noses are made of hardened steel. Stainless plungers have a natural finish. Stainless noses are hardened. Metric dimensions are in millimeters. Metric end pressures are in Newtons.

Steel Item No.	MFG #	Stainless Item No.	MFG #	Initial End Force	Final End Force	A	B	C	D	E
Inch - Standard End Pressure										
KBP-153	K0325.AJ	**KBP-159**	K0326.AJ	2.02	2.92	¼-28	.59	.04	.14	⅛
KBP-154	K0325.A2	**KBP-160**	K0326.A2	2.02	2.92	¼-20	.59	.04	.14	⅛
KBP-155	K0325.A3	**KBP-161**	K0326.A3	3.37	6.74	5/16-18	.71	.06	.20	5/32
KBP-156	K0325.A4	**KBP-162**	K0326.A4	4.50	7.87	⅜-16	.91	.08	.24	3/16
KBP-157	K0325.A5	**KBP-163**	K0326.A5	6.74	12.36	½-13	1.02	.10	.31	7/32
KBP-158	K0325.A6	**KBP-164**	K0326.A6	14.61	28.10	⅝-11	1.30	.14	.39	5/16
Metric - Standard End Pressure										
KBP-143	K0325.06	**KBP-148**	K0326.06	9	13	M6	15	1.0	3.5	3
KBP-144	K0325.08	**KBP-149**	K0326.08	15	30	M8	18	1.5	5.0	4
KBP-145	K0325.10	**KBP-150**	K0326.10	20	35	M10	23	2.0	6.0	5
KBP-146	K0325.12	**KBP-151**	K0326.12	30	55	M12	26	2.5	8.0	6
KBP-147	K0325.16	**KBP-152**	K0326.16	65	125	M16	33	3.5	10.0	8
Inch - Heavy End Pressure										
KBP-175	K0325.2AJ	**KBP-181**	K0326.2AJ	6.29	8.99	¼-28	.59	.04	.14	⅛
KBP-176	K0325.2A2	**KBP-182**	K0326.2A2	6.29	8.99	¼-20	.59	.04	.14	⅛
KBP-177	K0325.2A3	**KBP-183**	K0326.2A3	10.57	16.41	5/16-18	.71	.06	.20	5/32
KBP-178	K0325.2A4	**KBP-184**	K0326.2A4	14.84	22.48	⅜-16	.91	.08	.24	3/16
KBP-179	K0325.2A5	**KBP-185**	K0326.2A5	14.84	26.98	½-13	1.02	.10	.31	7/32
KBP-180	K0325.2A6	**KBP-186**	K0326.2A6	20.23	40.46	⅝-11	1.30	.14	.39	5/16
Metric - Heavy End Pressure										
KBP-165	K0325.206	**KBP-170**	K0326.206	28	40	M6	15	1.0	3.5	3
KBP-166	K0325.208	**KBP-171**	K0326.208	47	73	M8	18	1.5	5.0	4
KBP-167	K0325.210	**KBP-172**	K0326.210	66	100	M10	23	2.0	6.0	5
KBP-168	K0325.212	**KBP-173**	K0326.212	66	120	M12	26	2.5	8.0	6
KBP-169	K0325.216	**KBP-174**	K0326.216	90	180	M16	33	3.5	10.0	8

Note: End force for inch is in Lbs. End force for Metric is in Newtons.

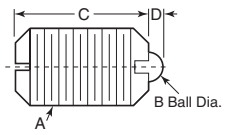
Delrin Body
Stainless Steel and Nylon Ball
Vlier



Stainless Ball



Nylon Ball

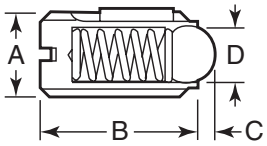


For use in plastic applications or when situation requires as few metal parts as possible. Excellent when electrical isolation is necessary. Highly durable Delrin body and stainless steel spring allows use in corrosive environments. Plunger wrenches will not work with this style.

Stainless Ball Item No.	MFG #	Nylon Ball Item No.	MFG #	Color	Initial End Force	Final End Force	A	B	C	D
Delrin Body - Stainless Steel and Nylon Ball										
DL54	DL54	**NDL54**	NDL54	Blue	1.0	2.5	¼-20	.125	.531	.027
D54	D54	**ND54**	ND54	White	2.0	5.0	¼-20	.125	.531	.027
DL56	DL56	**NDL56**	NDL56	Blue	2.0	4.5	5/16-18	.156	.578	.039
D56	D56	**ND56**	ND56	White	4.0	9.0	5/16-18	.156	.578	.039
DL58	DL58	**NDL58**	NDL58	Blue	2.5	5.0	⅜-16	.187	.625	.053
D58	D58	**ND58**	ND58	White	5.0	10.0	⅜-16	.187	.625	.053

Ball Plungers
Slotted Style
With Long-Lok Thread Lock
Inch or Metric
Kipp





The Long-Lok thread lock provides additional resistance to vibration. A resilient nylon insert is squeezed like a wedge between the thread of the plunger and the fastening component, providing extremely high loosening torque.

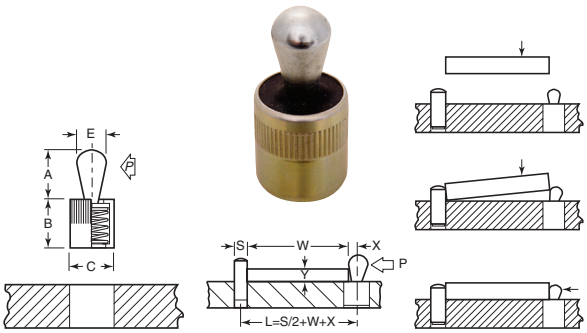
The Long-Lok thread lock does not require initial tension or any defined position so that it is secure in every position. All plungers are pressure and function tested. The steel plungers have a black oxide finish. Steel noses are made of hardened steel. Stainless plungers have a natural finish. Stainless noses are hardened.

Metric dimensions are in millimeters.
Metric end pressures are in Newtons.

Steel Item No.	MFG #	Stainless Item No.	MFG#	Initial End Force	Final End Force	A	B	C	D
Inch - Standard End Pressure									
KBP-203	K0321.AD	**KBP-213**	K0322.AD	.33	.67	6-32	.28	.02	.06
KBP-204	K0321.AG	**KBP-214**	K0322.AG	.90	2.25	8-36	.35	.03	.10
KBP-205	K0321.AE	**KBP-215**	K0322.AE	.90	2.25	8-32	.35	.03	.10
KBP-206	K0321.A1	**KBP-216**	K0322.A1	1.35	2.47	10-32	.47	.04	.12
KBP-207	K0321.AJ	**KBP-217**	K0322.AJ	2.02	2.92	¼-28	.55	.04	.14
KBP-208	K0321.A2	**KBP-218**	K0322.A2	2.02	2.92	¼-20	.55	.04	.14
KBP-209	K0321.A3	**KBP-219**	K0322.A3	3.37	6.74	5/16-18	.63	.06	.20
KBP-210	K0321.A4	**KBP-220**	K0322.A4	4.50	7.87	⅜-16	.75	.08	.24
KBP-211	K0321.A5	**KBP-221**	K0322.A5	6.74	12.36	½-13	.87	.10	.31
KBP-212	K0321.A6	**KBP-222**	K0322.A6	14.61	28.10	⅝-11	.94	.14	.39
Metric - Standard End Pressure									
KBP-187	K0321.03	**KBP-195**	K0322.03	1.5	3	M3	7	.50	1.5
KBP-188	K0321.04	**KBP-196**	K0322.04	4	10	M4	9	.80	2.5
KBP-189	K0321.05	**KBP-197**	K0322.05	6	11	M5	12	.90	3.0
KBP-190	K0321.06	**KBP-198**	K0322.06	9	13	M6	14	1.0	3.5
KBP-191	K0321.08	**KBP-199**	K0322.08	15	30	M8	16	1.5	5.0
KBP-192	K0321.10	**KBP-200**	K0322.10	20	35	M10	19	2.0	6.0
KBP-193	K0321.12	**KBP-201**	K0322.12	30	55	M12	22	2.5	8.0
KBP-194	K0321.16	**KBP-202**	K0322.16	65	125	M16	24	3.5	10.0
Inch - Heavy End Pressure									
KBP-235	K0321.2A1	**KBP-242**	K0322.2A1	4.27	6.74	10-32	.47	.04	.12
KBP-236	K0321.2AJ	**KBP-243**	K0322.2AJ	6.29	8.99	¼-28	.55	.04	.14
KBP-237	K0321.2A2	**KBP-244**	K0322.2A2	6.29	8.99	¼-20	.55	.04	.14
KBP-238	K0321.2A3	**KBP-245**	K0322.2A3	10.57	16.41	5/16-18	.63	.06	.20
KBP-239	K0321.2A4	**KBP-246**	K0322.2A4	14.84	22.48	⅜-16	.75	.08	.24
KBP-240	K0321.2A5	**KBP-247**	K0322.2A5	14.84	26.98	½-13	.87	.10	.31
KBP-241	K0321.2A6	**KBP-248**	K0322.2A6	20.23	40.46	⅝-11	.94	.14	.39
Metric - Heavy End Pressure									
KBP-223	K0321.205	**KBP-229**	K0322.205	19	30	M5	12	.90	3.0
KBP-224	K0321.206	**KBP-230**	K0322.206	28	40	M6	14	1.0	3.5
KBP-225	K0321.208	**KBP-231**	K0322.208	47	73	M8	16	1.5	5.0
KBP-226	K0321.210	**KBP-232**	K0322.210	66	100	M10	19	2.0	6.0
KBP-227	K0321.212	**KBP-233**	K0322.212	66	120	M12	22	2.5	8.0
KBP-228	K0321.216	**KBP-234**	K0322.216	90	180	M16	24	3.5	10.0

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

SPRING LOCATING PINS



To determine mounting hole locations, use the following formula: L = S/2+W+X
To determine the proper thickness of the workpiece, use the following formula: Y>(C-B/2)
L = Location S = Diameter of locating pin W = Width of workpiece X = See chart Y = Height of workpiece

These spring locating pins are used for positioning parts against fixed locators to insure proper contact. Their compact design makes them especially helpful when clamping small parts or for use in tight spaces. They also help hold the part during the set up operation. The sleeve is aluminum, spring is steel and the pressure pin is steel or plastic. The seal helps keep out coolant and other contaminants. Metric dimensions are in millimeters.

Spring Locating Pins
Inch
Vlier

Item No.	MFG #	A	B	C	E	P (Lbs.)	X Dimension When Y Equals Y=.063	Y=.125	Y=.188	Y=.25	Y=.313	Y=.375	Y=.438
w/ Seal													
KSP-100	SLPL250	.158	.295	.250	.118	2.2	.022	.024	.024	.024	.024	.024	.024
KSP-105	SLP250	.158	.295	.250	.118	4.5	.022	.024	.024	.024	.024	.024	.024
KSP-110	SLPH250	.158	.295	.250	.118	9	.022	.024	.024	.024	.024	.024	.024
KSP-115	SLPL438	.236	.452	.438	.197	4.5	—	.055	.055	.055	.055	.055	.055
KSP-120	SLP438	.236	.452	.438	.197	11.2	—	.055	.055	.055	.055	.055	.055
KSP-125	SLPH438	.236	.452	.438	.197	22.5	—	.055	.055	.055	.055	.055	.055
KSP-130	SLPL438A	.394	.452	.438	.236	9	—	—	.049	.059	.059	.059	.059
KSP-135	SLP438A	.394	.452	.438	.236	17	—	—	.049	.059	.059	.059	.059
KSP-140	SLPH438A	.394	.452	.438	.236	34	—	—	.049	.059	.059	.059	.059
KSP-145	SLPL500	.512	.532	.500	.315	11.2	—	—	—	.077	.087	.087	.087
KSP-150	SLP500	.512	.532	.500	.315	22.5	—	—	—	.077	.087	.087	.087
KSP-155	SLPH500	.512	.532	.500	.315	45	—	—	—	.077	.087	.087	.087
KSP-160	SLPL625	.630	.689	.625	.394	22.5	—	—	—	—	.098	.107	.110
KSP-165	SLP625	.630	.689	.625	.394	45	—	—	—	—	.098	.107	.110
KSP-170	SLPH625	.630	.689	.625	.394	67.5	—	—	—	—	.098	.107	.110

Note: Dimension C mounting hole +.004 or .1mm | Y = Height of the Workpiece

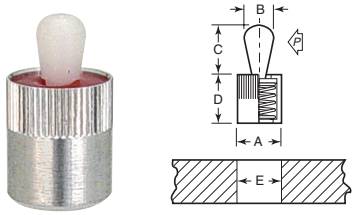
Spring Locating Pins
Metric
Kipp

Item No.	MFG #	A	B	C	E	P (Newtons) Steel Pins	P (Newtons) Plastic Pins	X Dimension When Y Equals Y=1	Y=2	Y=3	Y=4.5	Y=6	Y=8
Steel Pin - No Seal													
KSP-5	K0368.21036	4.0	7	6	3	20	—	.8	1.0	—	—	—	—
KSP-10	K0368.21056	6.7	11	10	5	50	—	—	1.5	1.7	—	—	—
KSP-15	K0368.21066	10.7	11	10	6	75	—	—	—	—	1.7	1.9	—
Steel Pin - w/ Seal													
KSP-30	K0368.22036	4.0	7	6	3	20	—	.8	1.0	—	—	—	—
KSP-35	K0368.22056	6.0	12	10	5	50	—	—	1.5	1.7	—	—	—
KSP-40	K0368.22066	10.0	12	10	6	75	—	—	—	—	1.7	1.9	—
KSP-45	K0368.22086	13.0	14	12	8	100	—	—	—	—	—	2.5	2.7

Item No.	MFG #	A	B	C	E	P (Newtons) Steel Pins	P (Newtons) Plastic Pins	X Dimension When Y Equals Y=1	Y=2	Y=3	Y=4.5	Y=6	Y=8
Plastic Pin - No Seal													
KSP-55	K0368.71034	4.0	7	6	3	—	10	.8	1.0	—	—	—	—
KSP-60	K0368.71054	6.7	11	10	5	—	20	—	1.5	1.7	—	—	—
Plastic Pin - w/ Seal													
KSP-85	K0368.72054	6.0	12	10	5	—	20	—	1.5	1.7	—	—	—

Note: Dimension C mounting hole +.004 or .1mm
Y = Height of the Workpiece

Spring Locating Pins
With Steel Plastic or Stainless Pin



These spring locating pins are designed for fixturing small parts in tight or compact space. Ideal for positioning and chucking flat parts and round parts for profile clamping. Bodies are made of aluminum and are available with steel, stainless steel or plastic pins. Steel pins are case hardened and zinc coated. Plastic pins are made of delrin. Steel and plastic pin locators with seal have steel springs. Stainless locators with seal have Type 304 stainless pin with cast nylon spring and aluminum body. Available with or without seals. Pins with no seal have neoprene inside rather than a spring. Pins with seal recommended for applications involving any fluid or liquid.

See page ### for installation tools and liners.

Steel Pin Item No.	Steel Pin MFG #	Plastic Pin Item No.	Plastic Pin MFG #	Stainless Pin Item No.	Diameter A	B	C	D	+.001/-.000 E	Force (Lbs.) P	X	Installation Tool
w/ Seal												
JLP-5	36201	**JLP-80**	36221	—	.250	.118	.158	.276	.250	2.2	.035	JLP-400
JLP-10	36202	**JLP-85**	36222	—	.250	.118	.158	.276	.250	4.5	.035	JLP-400
JLP-15	36203	—		—	.250	.118	.158	.276	.250	9	.035	JLP-400
JLP-20	36204	**JLP-90**	36223	—	.438	.197	.236	.472	.438	4.5	.063	JLP-405
JLP-25	36205	**JLP-95**	36224	—	.438	.197	.236	.472	.438	11.2	.063	JLP-405
JLP-30	36206	—		—	.438	.197	.236	.472	.438	21.5	.063	JLP-405
JLP-35	36207	**JLP-100**	36225	—	.438	.236	.438	.472	.438	9	.071	JLP-410
JLP-40	36208	**JLP-105**	36226	—	.438	.236	.438	.472	.438	17.0	.071	JLP-410
JLP-45	36209	—		—	.438	.236	.438	.472	.438	34.0	.071	JLP-410
JLP-50	36210	**JLP-110**	36227	—	.500	.315	.512	.551	.500	11.2	.102	JLP-415
JLP-55	36211	**JLP-115**	36228	—	.500	.315	.512	.551	.500	22.5	.102	JLP-415
JLP-60	36212	—		—	.500	.315	.512	.551	.500	45	.102	JLP-415
JLP-65	36213	**JLP-120**	36229	—	.625	.394	.625	.709	.625	22.5	.126	JLP-420
JLP-70	36214	**JLP-125**	36230	—	.625	.394	.625	.709	.625	45	.126	JLP-420
JLP-75	36215	—		—	.625	.394	.625	.709	.625	67.5	.126	JLP-420
No Seal												
JLP-130	36231	**JLP-195**	36251	**JLP-255**	.250	.118	.146	.295	.250	2.2	.039	JLP-400
JLP-135	36232	**JLP-200**	36252	**JLP-260**	.250	.118	.146	.295	.250	4.4	.039	JLP-400
JLP-140	36233	**JLP-205**	36253	**JLP-265**	.438	.197	.287	.354	.438	6.7	.063	JLP-405
JLP-145	36234	**JLP-210**	36254	**JLP-270**	.438	.197	.287	.354	.438	13.5	.063	JLP-405
JLP-150	36235	**JLP-215**	36255	**JLP-275**	.438	.197	.287	.354	.438	20.0	.063	JLP-405
JLP-155	36236	—		**JLP-280**	.438	.236	.406	.354	.438	4.4	.075	JLP-410
JLP-160	36237	**JLP-225**	36257	**JLP-285**	.438	.236	.406	.354	.438	6.7	.075	JLP-410
JLP-165	36238	—		**JLP-290**	.438	.236	.406	.354	.438	13.5	.075	JLP-410
JLP-170	36239	—		**JLP-295**	.438	.236	.406	.354	.438	20.0	.075	JLP-410
JLP-175	36240	—		**JLP-300**	.500	.315	.520	.512	.500	11.1	.106	JLP-415
JLP-180	36241	—		**JLP-305**	.500	.315	.520	.512	.500	22.2	.106	JLP-415
JLP-185	36242	**JLP-245**	36261	**JLP-310**	.625	.394	.654	.625	.625	17.5	.134	JLP-420
JLP-190	36243	**JLP-250**	36262	**JLP-315**	.625	.394	.654	.625	.625	35.0	.134	JLP-420

SPRING STOPS & ACCESSORIES

Spring Stops
Flat Face
With or without Tang
Vlier

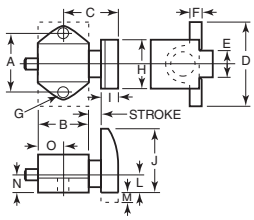
Ideal for holding thin gauge sheet metal in jigs and fixtures during spot welding or machining operations. Aluminum body. Plunger is case hardened. Supplied with or without tang. Tang prevents thin gauge material from sliding under plunger.



With Tang



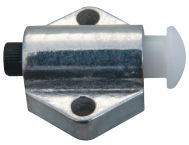
Without Tang



Item No.		Body Material	Initial End Force Lbs.	Final End Force Lbs.	Stroke	A	B	C	D	E	F	G	H	I	J	L	M	N	O	Base Style
Flat Face w/ Tang																				
DS-4	SS88A	Aluminum	5.13	14.58	1/8	21/32	11/16	21/32	7/8	1/4	3/16	#29	5/8	3/16	5/8	13/64	1/4	7/32	11/32	Triangular
DS-6	SS90A	Aluminum	2.25	25.75	3/16	1 1/8	1	15/16	1 1/2	3/8	1/4	13/64	7/8	1/4	7/8	19/64	1/4	5/16	1/2	Rectangular
DS-8	SS92A	Aluminum	16.50	47.50	1/4	1 1/2	1 3/8	1 5/16	2	1/2	1/4	17/64	1 1/4	3/8	1 1/4	27/64	1/4	7/16	1 1/16	Rectangular
Flat Face w/o Tang																				
DS-5	SS88B	Aluminum	5.13	14.58	1/8	21/32	11/16	21/32	7/8	—	3/16	#29	5/8	3/16	5/8	—	—	7/32	11/32	Triangular
DS-7	SS90B	Aluminum	2.25	25.75	3/16	1 1/8	1	15/16	1 1/2	—	1/4	13/64	7/8	1/4	7/8	—	—	5/16	1/2	Rectangular
DS-9	SS92B	Aluminum	16.50	47.50	1/4	1 1/2	1 3/8	1 5/16	2	—	1/4	17/64	1 1/4	3/8	1 1/4	—	—	7/16	1 1/16	Rectangular

Spring Stops
Round Nose
Vlier

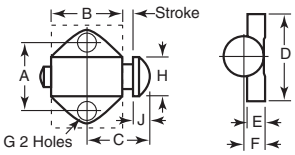
Spring stops are used extensively in the locating of parts in jigs and fixtures, particularly where fixture walls are not available. Plunger is hardened and ground smooth. Properly radiused nose for perfect fit with no wobble. Aluminum body. Steel or delrin nose.



Delrin Nose



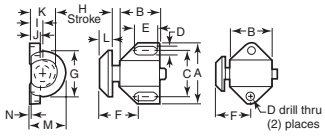
Steel Nose

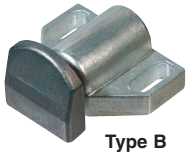


Steel Nose Item No.	MFG #	Delrin Nose Item No.	MFG#	Body Material	Initial End Force Lbs.	Final End Force Lbs.	A	B	C	D	E	F	G	H	J	Base Style
DS-1	SS88	**DS-1N**	NSS88	Aluminum	5.13	14.58	21/32	11/16	19/32	7/8	3/16	7/32	#29	3/8	1/8	Triangular
DS-2	SS90	**DS-2N**	NSS90	Aluminum	2.25	25.75	1 1/8	1	7/8	1 1/2	1/4	5/16	13/64	9/16	3/16	Rectangular
DS-3	SS92	**DS-3N**	NSS92	Aluminum	16.50	47.50	1 1/2	1 3/8	1 7/32	2	1/4	7/16	17/64	13/16	9/32	Rectangular

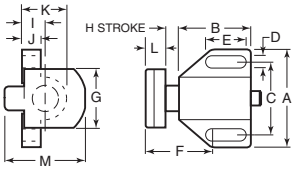
Spring Stops
Flat Button Type







Type B



Aluminum alloy body. Plunger is low carbon steel and case hardened.

Item No.	MFG #	Type	Half-Depressed End Force Lbs.	A	B	C	D	E	F	G	H	I	J	K	L	M	N
DS-60	**36107**	A	10	15/16	11/16	21/32	.14	.35	21/32	3/4	1/8	7/32	3/16	13/32	3/16	19/32	1/64
DS-61	**36111**	B	14	1 1/2	1	1 1/8	.20	.54	29/32	7/8	3/16	5/16	9/32	5/8	1/4	1 1/8	—
DS-62	**36109**	A	32	2	1 3/8	1 1/2	1/4	.69	1 5/16	1 1/2	1/4	7/16	1/4	7/8	3/8	1 3/16	1/64

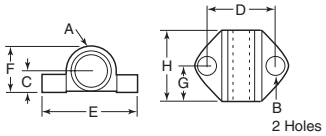
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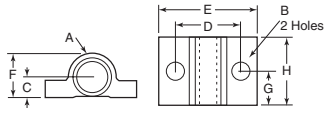
Spring Stop
Tooling Flanges
Vlier





Triangular





Rectangular

Tooling flanges are compatible with a wide variety of spring loaded devices and tooling components. Ideal for fixtures requiring a horizontal application of a spring plunger.

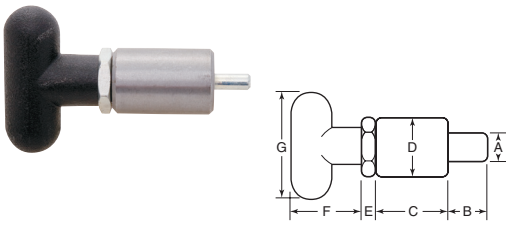
Item No.		Style	A	B	C	D	E	F	G	H
DS-25	**TF25**	Triangular	1/4-20	.136	.22	.66	.88	.41	.34	.69
DS-50	**TF50**	Rectangular	1/2-13	.203	.31	1.13	1.50	.63	.50	1.00

PULL PINS

These spring loaded pull pins allow you to quickly retract and engage the plunger for locating, fastening and quick change operations. They consist of two parts which include a housing (barrel) and a plunger assembly. The plunger assembly screws into the housing. The housing is designed to be welded into place for strength. Pulling on the handle of the plunger assembly retracts the plunger into the housing. Releasing the handle allows the spring loaded plunger to extend. The lockout style allows you to pull and rotate the handle ¼ turn to hold the plunger in the retracted position. The style without handles features a ⅜-16 threaded end so the user can add a different handle or other method of actuation. The zinc plated steel plunger assemblies are made from C1038 steel on all sizes except the ⅝ which is made from 12L15 steel. The steel housing is made from 12L15 steel for welding to the fixture and is not plated. The aluminum housings are made from 6061-T6. The stainless steel models (plunger assembly and housing) are made from Type 303 stainless steel. Pull up force is approximately 5 lbs. Handles are made from black plastic.

Pull Pins
T-Handle

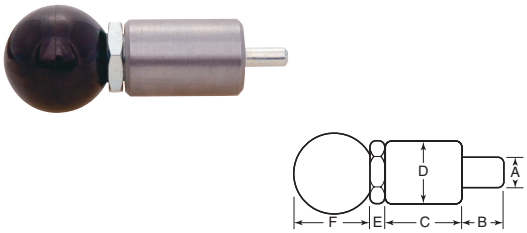
Fairlane Products



Standard Item No.	MFG #	Lockout Item No.	MFG #	A	B	C	D	E	F	G
Steel Plunger - Steel Housing										
BSD-50	CP-K25T	**BSD-50LO**	CP-K25TLO	¼	9/16	1½	1	3/16	1 7/16	2¼
BSD-55	CP-K100T	**BSD-55LO**	CP-K100TLO	⅜	9/16	1½	1	3/16	1 7/16	2¼
BSD-60	CP-K200T	**BSD-60LO**	CP-K200TLO	½	9/16	1½	1	3/16	1 7/16	2¼
BSD-65	CP-K320T	**BSD-65LO**	CP-K320TLO	½	9/16	2¼	1	3/16	1 7/16	2¼
BSD-70	CP-K420T	**BSD-70LO**	CP-K420TLO	⅝	9/16	2¼	1	3/16	1 7/16	2¼
Steel Plunger - Aluminum Housing										
BSD-50AL	CP-K25TAL	**BSD-50LOAL**	CP-K25TLOAL	¼	9/16	1½	1	3/16	1 7/16	2¼
BSD-55AL	CP-K100TAL	**BSD-55LOAL**	CP-K100TLOAL	⅜	9/16	1½	1	3/16	1 7/16	2¼
BSD-60AL	CP-K200TAL	**BSD-60LOAL**	CP-K200TLOAL	½	9/16	1½	1	3/16	1 7/16	2¼
BSD-65AL	CP-K320TAL	**BSD-65LOAL**	CP-K320TLOAL	½	9/16	2¼	1	3/16	1 7/16	2¼
BSD-70AL	CP-K420TAL	**BSD-70LOAL**	CP-K420TLOAL	⅝	9/16	2¼	1	3/16	1 7/16	2¼
Stainless Steel Plunger - Stainless Steel Housing										
BSD-55SS	CP-K100TSS	**BSD-55LOSS**	CP-K100TLOSS	⅜	9/16	1½	1	3/16	1 7/16	2¼
BSD-60SS	CP-K200TSS	**BSD-60LOSS**	CP-K200TLOSS	½	9/16	1½	1	3/16	1 7/16	2¼
BSD-65SS	CP-K320TSS	**BSD-65LOSS**	CP-K320TLOSS	½	9/16	2¼	1	3/16	1 7/16	2¼

Pull Pins
Round Handle

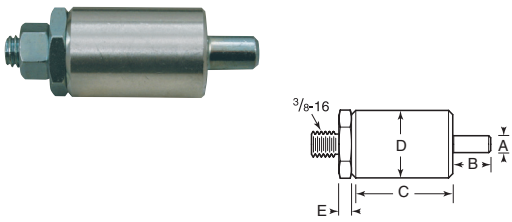
Fairlane Products



Standard Item No.	MFG #	Lockout Item No.	MFG #	A	B	C	D	E	F
Steel Plunger - Steel Housing									
BSD-25	CP-K25R	**BSD-25LO**	CP-K25RLO	¼	9/16	1½	1	3/16	1⅜
BSD-30	CP-K100R	**BSD-30LO**	CP-K100RLO	⅜	9/16	1½	1	3/16	1⅜
BSD-35	CP-K200R	**BSD-35LO**	CP-K200RLO	½	9/16	1½	1	3/16	1⅜
BSD-40	CP-K320R	**BSD-40LO**	CP-K320RLO	½	9/16	2¼	1	3/16	1⅜
BSD-45	CP-K420R	**BSD-45LO**	CP-K420RLO	⅝	9/16	2¼	1	3/16	1⅜
Steel Plunger - Aluminum Housing									
BSD-25AL	CP-K25RAL	**BSD-25LOAL**	CP-K25RLOAL	¼	9/16	1½	1	3/16	1⅜
BSD-30AL	CP-K100RAL	**BSD-30LOAL**	CP-K100RLOAL	⅜	9/16	1½	1	3/16	1⅜
BSD-35AL	CP-K200RAL	**BSD-35LOAL**	CP-K200RLOAL	½	9/16	1½	1	3/16	1⅜
BSD-40AL	CP-K320RAL	**BSD-40LOAL**	CP-K320RLOAL	½	9/16	2¼	1	3/16	1⅜
BSD-45AL	CP-K420RAL	**BSD-45LOAL**	CP-K420RLOAL	⅝	9/16	2¼	1	3/16	1⅜
Stainless Steel Plunger - Stainless Steel Housing									
BSD-30SS	CP-K100RSS	**BSD-30LOSS**	CP-K100RLOSS	⅜	9/16	1½	1	3/16	1⅜
BSD-35SS	CP-K200RSS	**BSD-35LOSS**	CP-K200RLOSS	½	9/16	1½	1	3/16	1⅜
BSD-40SS	CP-K320RSS	**BSD-40LOSS**	CP-K320RLOSS	½	9/16	2¼	1	3/16	1⅜

Pull Pins
Threaded End - Non-Locking

Fairlane Products

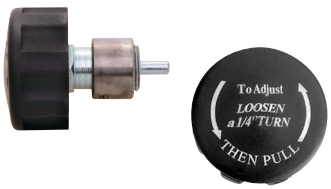


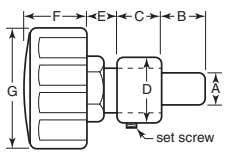
Item No.	MFG#	A	B	C	D	E
Steel Plunger - Steel Housing						
BSD-75	CP-K25NK	¼	9/16	1½	1	3/16
BSD-80	CP-K100NK	⅜	9/16	1½	1	3/16
BSD-85	CP-K200NK	½	9/16	1½	1	3/16
BSD-90	CP-K320NK	½	9/16	2¼	1	3/16
BSD-95	CP-K420NK	⅝	9/16	2¼	1	3/16
Steel Plunger - Aluminum Housing						
BSD-75AL	CP-K25NKAL	¼	9/16	1½	1	3/16
BSD-80AL	CP-K100NKAL	⅜	9/16	1½	1	3/16
BSD-85AL	CP-K200NKAL	½	9/16	1½	1	3/16
BSD-90AL	CP-K320NKAL	½	9/16	2¼	1	3/16
BSD-95AL	CP-K420NKAL	⅝	9/16	2¼	1	3/16
Stainless Steel Plunger - Stainless Steel Housing						
BSD-80SS	CP-K100NKSS	⅜	9/16	1½	1	3/16
BSD-85SS	CP-K200NKSS	½	9/16	1½	1	3/16
BSD-90SS	CP-K320NKSS	½	9/16	2¼	1	3/16

Adjustable Clamping Pins
Spring Loaded

Fairlane Products

These spring loaded adjustable clamping pins allow for quick clamping and release. Once the pin is engaged, turning the knob allows the pin to tighten down on the work piece or further extend the plunger in the locating hole. Because it can be quickly adjusted, it is ideal for applications where there is variance in the part being held. Pulling up on the handle retracts the plunger fully into the housing. The set screw on the housing allows you to lock the plunger at a set depth for repeated operations and prevents the mechanism from coming out of the housing. Plunger is made from 1038 steel providing a tensile strength of 90 to 95 KSI. These can be heat treated for greater strength as specials. The housing is made from 12L15 steel for welding to fixture.





Item No.	MFG#	A	B	C	D	E	F	G	Adjustment
BSD-5	CP-C25P	¼	9/16	¾	1⅛	½	1⅛	2¼	⅝
BSD-15	CP-C200P	½	9/16	¾	1⅛	½	1⅛	2¼	⅝

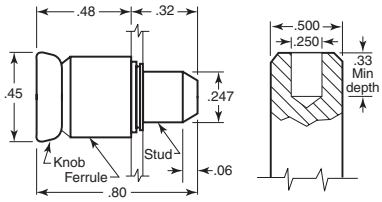
SPRING LOADED CATCHES

Provides quick release of sliding parts. Optional hold open feature available. Hold open feature operates by turning knob 90 degrees and plunger will remain in retracted position. Simply turn knob back 90 degrees to release. Working shear loads for all plungers are 400 lbs. when installed in steel panels, 300 lbs. for aluminum panels.

Spring Loaded Catches
Press In

Southco Inc.





Press in plungers are made of 1006 steel, case hardened, bright nickel plate. Install by pressing knob with approximately 3,000 lbs. for steel and 1,500 lbs. for aluminum panels until ferrule sits flush with panel. A solid back up tool must be used for proper installation.

Item No.	MFG #
Without Hold Open	
SC-560	56-60
With Hold Open	
SC-561	56-61

Spring Loaded Catches
Flare In

Southco Inc.

Flare in plungers are made of passivated stainless steel. A flaring tool is available to aid in installation. 82° counter sink is recommended for installation, but not necessary.

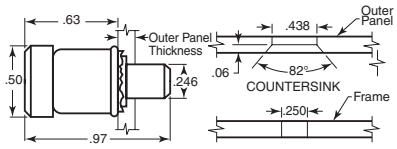
Item No.	MFG #	Outer Panel Thickness w/ Countersink	Outer Panel Thickness w/o Countersink
Without Hold Open			
SC-5611	56-99-192-01	.109 - .141	.063 - .078
With Hold Open			
SC-5601	56-10-801-10	.109 - .141	.063 - .078
SC-5603	56-10-803-10	.234 - .266	.156 - .203



Flare In Plunger



Flaring Tool

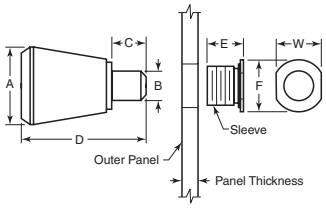


Spring Loaded Catches
Thread In

Southco Inc.



Thread In Plunger





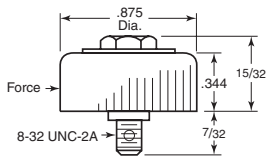
Installation Tool

Item No.	MFG #	A	B	C	D	E	F	W	Panel Thickness
With Hole Open									
SC-5621	56-10-301-20	.53	.183	.25	.78	.22	.34	.28	.025 - .060
SC-5622	56-10-401-20	.69	.245	.31	1.03	.28	.44	.37	.031 - .125
Without Hole Open									
SC-5631	56-99-196-20	.53	.183	.25	.78	.22	.34	.28	.025 - .060
SC-5632	56-99-197-20	.69	.245	.31	1.03	.28	.44	.37	.031 - .125

Thread in plungers are made of 6262-T9 aluminum with low carbon steel stud. Installation tool is available to aid installation.

Stock Crowders
Vlier





Provides positive alignment of stock in dies and fixtures. Saves pilots and is easily removed when dies are to be sharpened. Handles stock as thin as .010" and width variation up to 1/16". Thinner material can be handled by setting stock pusher in counter bore. Simple to mount - only requires one tapped hole.

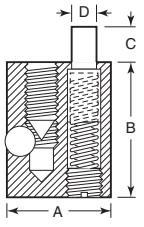
Item No.	MFG #	Force Lbs.
PL-4	**PL4**	2 or 4
PM-4	**PM4**	3 or 6
PH-4	**PH4**	5 or 10

Note: To assure that the proper force will be applied, locate tapped hole .407 from edge of stock (for 2, 3, and 5 lbs.) or .376 from edge of stock (for 4, 6 and 10 lbs.)

Gauge Stops
Adjustable - Internal Locking

Rolar Products





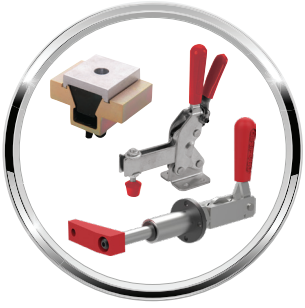
Speeds layout and set up by eliminating exact position locators as well as the need to remove the die or fixture for adjustment. The spring loaded pin completely retracts into the gauge body. Easily installed by drilling at an approximate location and dropping in the stop. Adjusts by rotating. Tightening the set screw forces the ball outward, locking the gauge in position.

Item No.	MFG #	Installation Data A	B	Center Dia.	Hole Depth	C	Max. Adjustment	D
GS-1	**GS-1**	.748	1	3/4	1 to 1 1/32	3/16	3/8	3/16
GS-2	**GS-2**	.998	1 5/16	1	1 5/16 to 1 11/32	5/16	1/2	1/4
GS-3	**GS-3**	1.248	1 5/16	1 1/4	1 5/16 to 1 11/32	1/2	9/16	1/2

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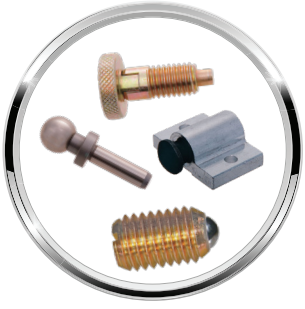
KNOBS HANDLES



LATCHES, CATCHES HINGES



ADJUSTABLE HANDLES



TOOLING & POSITIONING



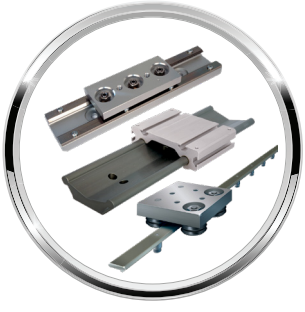
FEET, CASTERS VIBRATION MOUNTS



MEASURING & INSPECTING



HANDWHEELS



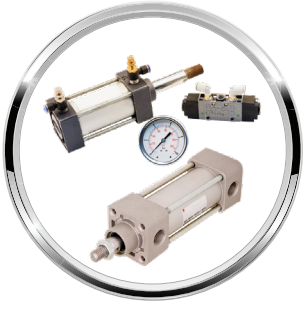
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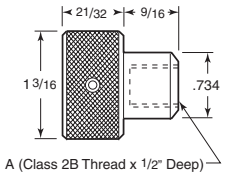
TORQUE HANDLES & THUMB SCREWS

Torque thumb screws have many holding applications in the construction of jigs, fixtures and other special tooling. They are used extensively in supporting parts against cutting tool thrust. The controlled end pressure prevents over-tightening - the result being that spoilage due to deflection is eliminated. The head of the screw turns freely when the preset end pressure is reached. Backing off action is positive, assuring speedy unloading of fixture or tool. A spring-controlled ball-check design in the head release mechanism is perpendicular to the screw axis assuring accurate end pressures, long life and no wobble. The head design prevents chips and dirt from reaching the working parts. A Truarc retaining ring secures the knurled ring in place. Removal of Truarc ring permits quick disassembly. Check nut furnished with each torque screw. Check nut prevents backing off during operation due to chatter or vibration. Black oxide finish.

For controlling forward pressures on jigs, fixtures, machinery, etc. End pressure adjustable. Hex wrench adjustment in head permits holding forces to be varied as needed. Instructions supplied with each shipment.

Adjustable Torque Handles
Steel with Black Oxide Finish

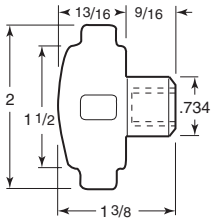




Item No.	MFG #	Adjustable Torque In.-Lbs.	Thread
AH-4	TH225	3-12	5/16-18
AH-5	TH226	3-12	3/8-16
AH-6	TH227	3-12	1/2-13

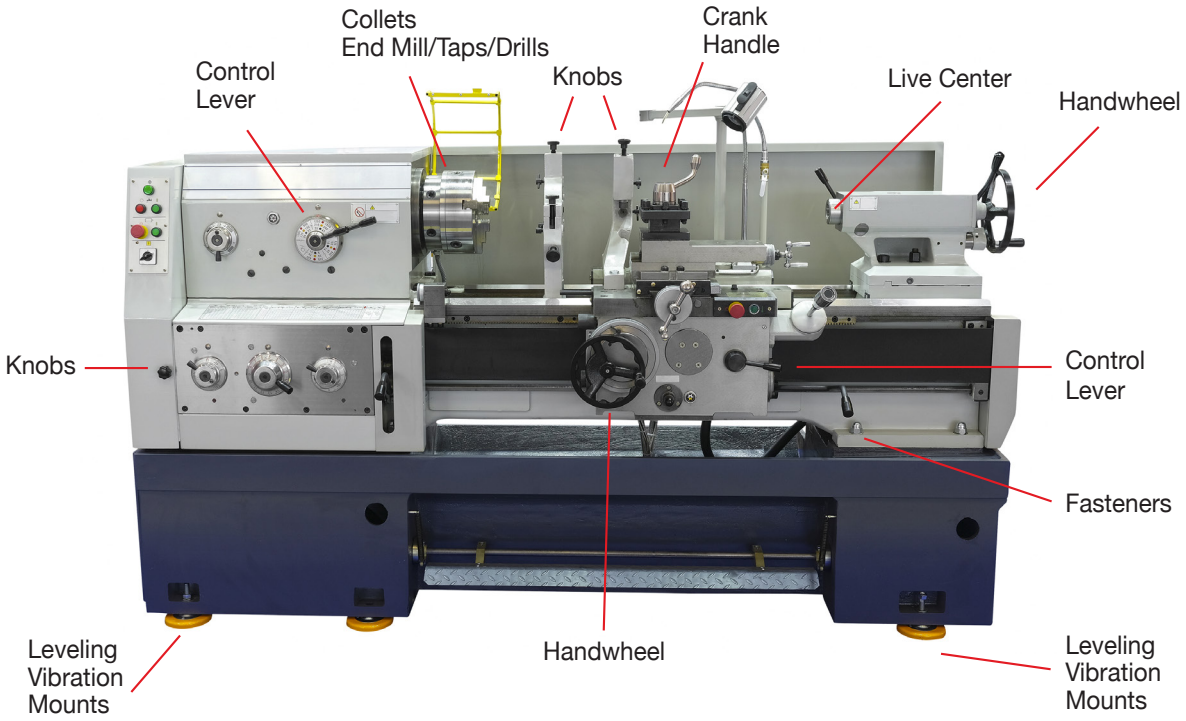
Adjustable Torque Handles
Die Cast Aluminum
Hardened Cast Insert





Item No.	MFG #	Adjustable Torque In.-Lbs.	Thread
AH-1	TH103A	3-12	5/16-18
AH-2	TH104	3-12	3/8-16
AH-3	TH106	3-12	1/2-13

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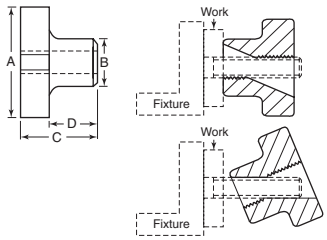
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Quick Acting Knobs - Inch and Metric

Northwestern Tools





For faster clamping. Tilt knob and it will slide in or out. Straighten knob and threads will engage for clamping. Many tooling applications. Made from powdered metal.

Item No.	MFG #	Thread Size	A	B	C	D
Inch						
QK-1	**28101**	¼-20	1⅛	9/16	⅝	5/16
QK-2	**28102**	5/16-18	1½	11/16	⅞	½
QK-3	**28103**	⅜-16	2	13/16	1	½
QK-4	**28104**	½-13	2½	1	1⅛	9/16
QK-5	**28105**	⅝-11	3	1¼	1¼	⅝
QK-6	**28106**	¾-10	3	1¼	1¼	⅝

Insert Locking Nuts

Northwestern Tools



Used for locking quick acting inserts in position. Heat treated steel. Black oxide finish.

Swivel screw clamps can be constructed by pairing any of the bodies with any of the pads. All pads swivel 10 degrees from vertical and have left hand threads to prevent backout. Clamping screws are made from 12L14 steel with a black oxide finish. Knob style is aluminum with the stud press-fitted in. Pads are case hardened, black oxide finish. Bodies and pads must be ordered separately.

Item No.	MFG #	Thread Size	Hex Size	Thickness
QN-1	**27001**	½-20	¾	3/16
QN-2	**27002**	⅝-18	1 1/16	¼
QN-3	**27003**	¾-16	1⅛	5/16
QN-4	**27004**	1-14	1½	⅜
QN-5	**27005**	1¼-12	1¾	7/16

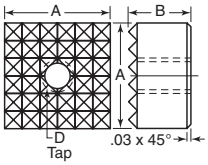
GRIPPERS

Eliminates costly maintenance and chuck jaw replacement. After long periods of maintenance-free service these inserts can be quickly replaced at low cost. Replacement can be accomplished right at the machine without costly downtime. Applicable to most chuck jaw designs. Held in place either by being threaded (to be held by screws entered through jaw), or flat on side to be held by set screw pressure. Steel type are made from hardened tool steel.

Grippers
Steel Square



*No Wrench Flat



Item No.	MFG#	+.000/ -.005 A	+.000/ -.005 B	D Tap	Tooth Pattern	Item No.	MFG#	+.000/ -.005 A	+.000/ -.005 B	D Tap	Tooth Pattern
RGHS-360	HS-90	⅜	⅜	10-32	Ex-Fine	RGHS-400	HS-98	¾	⅜	10-32	Coarse
RGHS-5	HS-95	½	⅜	10-32	Fine	RGHS-405	HS-975	¾	½	10-32	Fine
RGHS-370	HS-95-EF	½	⅜	10-32	Ex-Fine	RGHS-410	HS-975-EF	¾	½	10-32	Ex-Fine
RGHS-375	HS-955	½	½	10-32	Fine	RGHS-415	HS-985	¾	½	10-32	Coarse
RGHS-380	HS-955-EF	½	½	10-32	Ex-Fine	RGHS-7	HS-101	1	⅜	¼-28	Fine
RGHS-385	HS-96	½	⅜	10-32	Coarse	RGHS-420	HS-101-EF	1	⅜	¼-28	Ex-Fine
RGHS-390	HS-965	½	½	10-32	Coarse	RGHS-425	HS-102	1	⅜	¼-28	Coarse
RGHS-6	HS-97	¾	⅜	10-32	Fine	RGHS-430	HS-105	1	½	¼-28	Fine
RGHS-395	HS-97-EF	¾	⅜	10-32	Ex-Fine						

Grippers
Steel
Angle Grip



Item No.	MFG#	+.000/ -.005 A	+.000/ -.005 B	C Tap	Tooth Pattern
RGHS-127-4	**HS-127-4**	.562	.375	10-32	4 Point
RGHS-127-12	**HS-127-12**	.562	.375	10-32	Fine
RGHS-560	**HS-145-5**	.562	.375	10-32	Angular
RGHS-128-4	**HS-128-4**	.750	.500	¼-28	4 Point

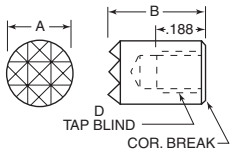
For use on N.A. Woodworth ball lock chuck.

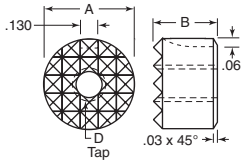
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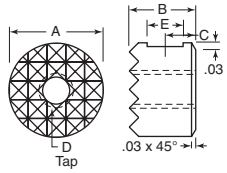
Eliminates costly maintenance and chuck jaw replacement. After long periods of maintenance-free service these inserts can be quickly replaced at low cost. Replacement can be accomplished right at the machine without costly downtime. Applicable to most chuck jaw designs. Held in place either by being threaded (to be held by screws entered through jaw), or flat on side to be held by set screw pressure. Steel type are made from hardened tool steel.

Grippers
Steel Round
Fairlane Products









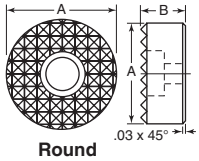
with Keyway

Item No.	MFG #	+.000/-.005 A	+.000/-.005 B	C	Thru Hole D	E	Tooth Pattern
RGHS-00*	HS-20	1/4	3/8	—	8-32	—	Ex-Fine
RGHS-0	HS-40	3/8	3/8	11/64	10-32	3/16	Ex-Fine
RGHS-210	HS-405	3/8	1/2	15/64	10-32	3/16	Ex-Fine
RGHS-1	HS-50	1/2	3/8	11/64	10-32	3/16	Fine
RGHS-215	HS-50-EF	1/2	3/8	11/64	10-32	3/16	Ex-Fine
RGHS-220	HS-51	1/2	1/2	15/64	10-32	3/16	Coarse
RGHS-225*	HS-52	1/2	1/2	Keyway	10-32	Keyway	Fine
RGHS-2	HS-53	1/2	1/2	15/64	10-32	3/16	Fine
RGHS-235	HS-53-EF	1/2	1/2	15/64	10-32	3/16	Ex-Fine
RGHS-240	HS-54	1/2	.651	19/64	10-32	3/16	Fine
RGHS-3	HS-62	5/8	3/8	11/64	1/4-28	3/16	Fine
RGHS-250	HS-62-EF	5/8	3/8	11/64	1/4-28	3/16	Ex-Fine
RGHS-260	HS-63	5/8	3/8	11/64	1/4-28	3/16	Coarse
RGHS-265	HS-625	5/8	1/2	15/64	1/4-28	3/16	Fine
RGHS-275	HS-635	5/8	1/2	15/64	1/4-28	3/16	Coarse
RGHS-4	HS-75	3/4	3/8	11/64	1/4-28	3/16	Fine
RGHS-285	HS-75-EF	3/4	3/8	11/64	1/4-28	3/16	Ex-Fine
RGHS-290	HS-76	3/4	3/8	11/64	1/4-28	3/16	Coarse
RGHS-295	HS-755	3/4	1/2	15/64	1/4-28	3/16	Fine
RGHS-300	HS-755-EF	3/4	1/2	15/64	1/4-28	3/16	Ex-Fine
RGHS-305	HS-765	3/4	1/2	15/64	1/4-28	3/16	Coarse
RGHS-315	HS-81	1	3/8	11/64	1/4-28	3/16	Coarse
RGHS-41	HS-82	1	3/8	11/64	1/4-28	3/16	Fine
RGHS-330	HS-82-EF	1	3/8	11/64	1/4-28	3/16	Ex-Fine
RGHS-335	HS-815	1	1/2	15/64	1/4-28	3/16	Coarse
RGHS-345	HS-825	1	1/2	15/64	1/4-28	3/16	Fine
RGHS-350	HS-825-EF	1	1/2	15/64	1/4-28	3/16	Ex-Fine

Grippers
Steel
Round and Square
With Counterbore

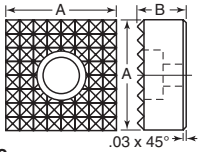
Fairlane Products





Round





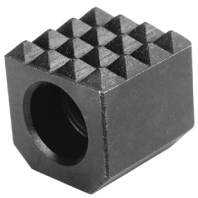
Square

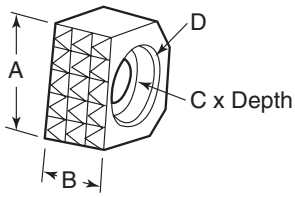
Item No.	MFG#	+.000/ -.005 A	+.000/ -.005 B	C'Bore to Fit	Tooth Pattern
Round					
RGHS-2405	HS-50-C	1/2	3/8	#8	Fine
RGHS-2410	HS-50-C-EF	1/2	3/8	#8	Ex-Fine
RGHS-2415	HS-53-C	1/2	1/2	#8	Fine
RGHS-2420	HS-53-C-EF	1/2	1/2	#8	Ex-Fine
RGHS-2425*	HS-62-C	5/8	3/8	#8	Fine
RGHS-2430	HS-62-C-EF	5/8	3/8	#8	Ex-Fine
RGHS-2435	HS-625-C	5/8	1/2	#8	Fine
RGHS-2440	HS-625-C-EF	5/8	1/2	#8	Ex-Fine
RGHS-2445	HS-75-C	3/4	3/8	#10	Fine
RGHS-80	HS-755-C	3/4	1/2	#10	Fine
RGHS-2455	HS-755-C-EF	3/4	1/2	#10	Ex-Fine
RGHS-2460	HS-76-C	3/4	3/8	#10	Coarse
RGHS-2470	HS-765-C	3/4	1/2	#10	Coarse
RGHS-2475	HS-81-C	1	1/2	1/4	Coarse
RGHS-81	HS-82-C	1	1/2	1/4	Fine
RGHS-2480	HS-82-C-EF	1	1/2	1/4	Ex-Fine
Square					
RGHS-2485	HS-92-C	1/2	3/8	#10	Fine
RGHS-2490	HS-92-C-EF	1/2	3/8	#10	Ex-Fine
RGHS-2495	HS-95-C	1/2	1/2	#10	Fine
RGHS-82	HS-97-C	3/4	1/2	1/4	Fine
RGHS-2505	HS-97-C-EF	3/4	1/2	1/4	Ex-Fine
RGHS-2510	HS-98-C	3/4	1/2	1/4	Coarse
RGHS-83	HS-101-C	1	1/2	1/4	Fine
RGHS-2515	HS-101-C-EF	1	1/2	1/4	Ex-Fine
RGHS-2520	HS-102-C	1	1/2	1/4	Coarse

*Socket head cap screw

Grippers
Square Edge Steel

Fairlane Products





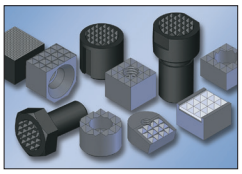
Items RGHS-20 through RGHS-34 are counterbored for a socket head cap screw and RGHS-35 through RGHS-53 are counterbored for a low head socket cap screw.

Item No.	MFG#	A	B	C'Bore for x Depth C	Chamfer D (degrees)	Tooth Pattern
RGHS-20	HSE-902	3/8	1/4	#6 x .146	1/16 x 45	Ex-Fine
RGHS-21	HSE-902-SF	3/8	1/4	#6 x .146	1/16 x 45	Super-Fine
RGHS-22	HSE-903	3/8	3/8	#6 x .146	1/16 x 45	Ex-Fine
RGHS-23	HSE-903-SF	3/8	3/8	#6 x .146	1/16 x 45	Super-Fine
RGHS-26	HSE-952	1/2	1/4	#8 x .170	3/32 x 45	Fine
RGHS-27	HSE-952-EF	1/2	1/4	#8 x .170	3/32 x 45	Ex-Fine
RGHS-28	HSE-952-SF	1/2	1/4	#8 x .170	3/32 x 45	Super-Fine
RGHS-29	HSE-953	1/2	3/8	#8 x .175	3/32 x 45	Fine
RGHS-30	HSE-953-EF	1/2	3/8	#8 x .175	3/32 x 45	Ex-Fine
RGHS-31	HSE-953-SF	1/2	3/8	#8 x .175	3/32 x 45	Super-Fine
RGHS-32	HSE-955	1/2	1/2	#8 x .175	3/32 x 45	Fine
RGHS-33	HSE-955-EF	1/2	1/2	#8 x .175	3/32 x 45	Ex-Fine
RGHS-35	HSE-962	5/8	1/4	1/4 x .130	1/8 x 45	Fine
RGHS-36	HSE-962-EF	5/8	1/4	1/4 x .130	1/8 x 45	Ex-Fine
RGHS-37	HSE-963	5/8	3/8	1/4 x .130	1/8 x 45	Fine
RGHS-38	HSE-963-EF	5/8	3/8	1/4 x .130	1/8 x 45	Ex-Fine
RGHS-39	HSE-965	5/8	1/2	1/4 x .130	1/8 x 45	Fine
RGHS-40	HSE-965-EF	5/8	1/2	1/4 x .130	1/8 x 45	Ex-Fine
RGHS-42	HSE-972	3/4	1/4	5/16 x .161	1/8 x 45	Fine
RGHS-44	HSE-973	3/4	3/8	5/16 x .161	1/8 x 45	Fine
RGHS-46	HSE-975	3/4	1/2	5/16 x .161	1/8 x 45	Fine
RGHS-47	HSE-975-EF	3/4	1/2	5/16 x .161	1/8 x 45	Ex-Fine
RGHS-48	HSE-102	1	1/4	3/8 x .194	1/8 x 45	Fine
RGHS-50	HSE-103	1	3/8	3/8 x .194	1/8 x 45	Fine
RGHS-52	HSE-105	1	1/2	3/8 x .194	1/8 x 45	Fine
RGHS-53	HSE-105-EF	1	1/2	3/8 x .194	1/8 x 45	Ex-Fine

STANDARD QUOTES IN 4 HOURS OR LESS

MOST PRODUCTS SHIP SAME DAY

GRIPPERS

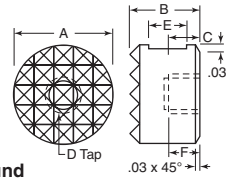


Eliminates costly maintenance and chuck jaw replacement. After long periods of maintenance-free service these inserts can be quickly replaced at low cost. Replacement can be accomplished right at the machine without costly downtime. Applicable to most chuck jaw designs. Held in place either by being threaded (to be held by screws entered through jaw), or flat on side to be held by set screw pressure. Steel type are made from hardened tool steel.

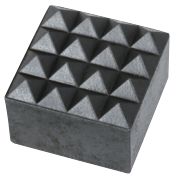
Grippers
Solid Carbide
Round and Square

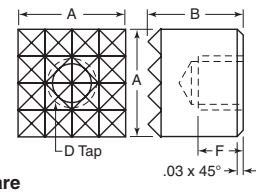
Fairlane Products





Round





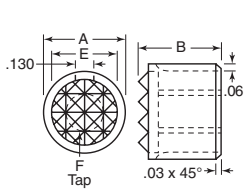
Square

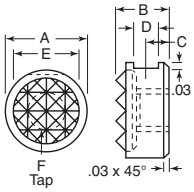
Item No.	MFG #	+.000/ -.005 A	+.000/ -.005 B	Tap C	D	E	F	Tooth Pattern
Round								
RGSC-1	**FSC-841**	1/2	3/8	11/64	10-32	3/16	3/16	Fine
RGSC-1270	**FSC-844-4**	1/2	1/2	15/64	10-32	3/16	5/16	4 Point
RGSC-2	**FSC-844**	1/2	1/2	15/64	10-32	3/16	5/16	Fine
RGSC-3	**FSC-850**	5/8	3/8	11/64	1/4-28	3/16	3/16	Fine
RGSC-4	**FSC-860**	3/4	3/8	11/64	1/4-28	3/16	3/16	Fine
Square								
RGSC-5	**FSC-870**	1/2	3/8	—	10-32	—	3/16	Fine
RGSC-6	**FSC-875**	1/2	1/2	—	10-32	—	5/16	Fine

Grippers
Carbide Tipped
Round

Fairlane Products







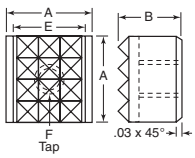
with Keyway

Item No.	MFG #	+.000/ -.005 A	+.000/ -.005 B	C	D	E	Blind Hole Tap F	Tooth Pattern
RG-0	CT-830	3/8	3/8	11/64	3/16	5/16	10-32	Ex-Fine
RG-200	CT-835	3/8	1/2	15/64	3/16	5/16	10-32	Ex-Fine
RG-202	CT-840-EF	1/2	1/2	15/64	3/16	3/8	10-32	Ex-Fine
RG-204	CT-840-4	1/2	1/2	15/64	3/16	3/8	10-32	4 Point
RG-230	CT-841-EF	1/2	3/8	11/64	3/16	3/8	10-32	Ex-Fine
RG-206	CT-841-4	1/2	3/8	11/64	3/16	3/8	10-32	4 Point
RG-208	CT-842	1/2	.651	19/64	3/16	3/8	10-32	Fine
RG-210	CT-842-EF	1/2	.651	19/64	3/16	3/8	10-32	Ex-Fine
RG-234	CT-850-EF	5/8	3/8	11/64	3/16	1/2	1/4-28	Ex-Fine
RG-218	CT-855	5/8	1/2	15/64	3/16	1/2	1/4-28	Fine
RG-224	CT-071	5/8	5/8	Keyway	—	1/2	1/4-28	Fine
RG-4	CT-860	3/4	3/8	11/64	3/16	5/8	1/4-28	Fine
RG-236	CT-860-EF	3/4	3/8	11/64	3/16	5/8	1/4-28	Ex-Fine
RG-222	CT-862	3/4	1/2	15/64	3/16	5/8	1/4-28	Fine
RG-238	CT-862-EF	3/4	1/2	15/64	3/16	5/8	1/4-28	Ex-Fine
RG-41	CT-865	1	3/8	11/64	3/16	3/4	1/4-28	Fine
RG-240	CT-865-EF	1	3/8	11/64	3/16	3/4	1/4-28	Ex-Fine

Grippers
Carbide Tipped Square

Fairlane Products

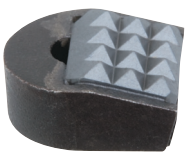


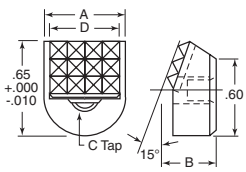


Item No.		+.000/-.005 A	+.000/-.005 B	E	Blind Hole Tap F	Tooth Pattern
RG-5	CT-870	1/2	3/8	13/32	10-32	Fine
RG-250	CT-870-EF	1/2	3/8	13/32	10-32	Ex-Fine
RG-255	CT-875	1/2	1/2	13/32	10-32	Fine

Grippers
Carbide Tipped
Angle Grip

Fairlane Products



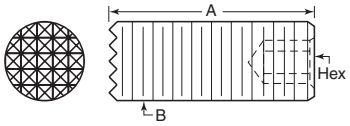


Item No.	MFG #	+.000/-.005 A	+.000/-.005 B	Blind Hole Tap C	D	Tooth Pattern
RG-270	CT-127-4	.562	.375	10-32	15/32	4 Point
RG-275	CT-127-12	.562	.375	10-32	15/32	Fine

Grippers
Steel - Adjustable

Fairlane Products

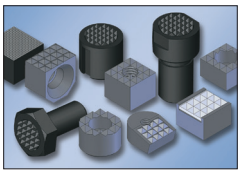




Item No.	MFG#	A	B	Hex	Tooth Pattern	Item No.	MFG #	A	B	Hex	Tooth Pattern
RGHS-600	**HS-0231**	1	3/8-24	1/8	Ex-Fine	**RGHS-91**	**HS-0515**	1 1/2	1/2-13	3/16	Fine
RGHS-605	**HS-0235**	1 1/2	3/8-24	1/8	Ex-Fine	**RGHS-615**	**HS-0620**	1 1/2	5/8-18	1/4	Fine
RGHS-90	**HS-0375**	1 1/2	3/8-16	1/8	Ex-Fine	**RGHS-92**	**HS-0625**	1 1/2	5/8-11	1/4	Fine
RGHS-610	**HS-0500**	1 1/2	1/2-20	3/16	Fine	**RGHS-93**	**HS-0755**	1 1/2	3/4-10	5/16	Fine

Customer Service: (800) 253-0421 • (231) 777-3951

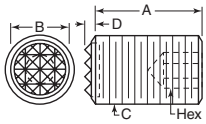
Reid SUPPLY AN ESSENTRA COMPANY



Eliminates costly maintenance and chuck jaw replacement. After long periods of maintenance-free service these inserts can be quickly replaced at low cost. Replacement can be accomplished right at the machine without costly downtime. Applicable to most chuck jaw designs. Held in place either by being threaded (to be held by screws entered through jaw), or flat on side to be held by set screw pressure. Steel type are made from hardened tool steel.

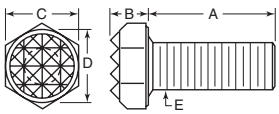
Grippers
Carbide Tipped Adjustable
Fairlane Products





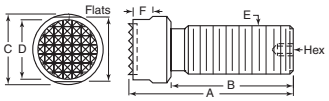
Socket Type





Hex Type





Wrench Flats Type

Item No.	MFG #	A	B	C	D	Hex	Tooth Pattern
RG-1000	PG-0230	½	¼	⅜-24	.05	3/16	Ex-Fine
RG-1002	PG-0231	1	¼	⅜-24	.05	3/16	Ex-Fine
RG-1004	PG-0231X1.5	1½	¼	⅜-24	.05	3/16	Ex-Fine
RG-1006	PG-0231X2	2	¼	⅜-24	.05	3/16	Ex-Fine
RG-1010	PG-0370	½	¼	⅜-16	.05	3/16	Ex-Fine
RG-30	PG-0375	1	¼	⅜-16	.05	3/16	Ex-Fine
RG-1012	PG-0375X2	2	¼	⅜-16	.05	3/16	Ex-Fine
RG-1014	PG-0375X3	3	¼	⅜-16	.05	3/16	Ex-Fine
RG-1016	PG-0500	1	⅜	½-20	.05	¼	Fine
RG-1018	PG-0500-EF	1	⅜	½-20	.05	¼	Ex-Fine
RG-1020	PG-0500-4	1	⅜	½-20	.07	¼	4 Point
RG-1022	PG-0500X2	2	⅜	½-20	.05	¼	Fine
RG-1024	PG-0500X2-EF	2	⅜	½-20	.05	¼	Ex-Fine
RG-1026	PG-0500X2-4	2	⅜	½-20	.07	¼	4 Point
RG-1028	PG-0500X3	3	⅜	½-20	.05	¼	Fine
RG-31	PG-0510	1	⅜	½-13	.05	¼	Fine
RG-1034	PG-0510-EF	1	⅜	½-13	.05	¼	Ex-Fine
RG-1036	PG-0510-4	1	⅜	½-13	.07	¼	4 Point
RG-32	PG-0510X2	2	⅜	½-13	.05	¼	Fine
RG-1038	PG-0510X2-EF	2	⅜	½-13	.05	¼	Ex-Fine
RG-1040	PG-0510X2-4	2	⅜	½-13	.07	¼	4 Point
RG-1042	PG-0510X3	3	⅜	½-13	.05	¼	Fine
RG-1044	PG-0510X3-EF	3	⅜	½-13	.05	¼	Ex-Fine
RG-1048	PG-0620	1	½	⅝-18	.05	5/16	Fine
RG-33	PG-0625	1	7/16	⅝-11	.05	5/16	Fine
RG-34	PG-0625X2	2	7/16	⅝-11	.05	5/16	Fine
RG-1080	PG-0625X3	3	7/16	⅝-11	.05	5/16	Fine
RG-1086	PG-0750	1	½	¾-16	.05	⅜	Fine
RG-1092	PG-0750X2	2	½	¾-16	.05	⅜	Fine
RG-35	PG-0755	1	½	¾-10	.05	⅜	Fine
RG-1104	PG-0755-EF	1	½	¾-10	.05	⅜	Ex-Fine

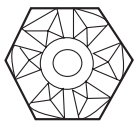
Item No.	MFG #	A	B	C	D	E	F	Tooth Pattern
RG-825	CTH-0200	½	13/64	7/16	5/16	¼-20	⅞	Ex-Fine
RG-20	CTH-0250	1	13/64	7/16	5/16	¼-20	⅞	Ex-Fine
RG-827*	CTH-0250X1.5	1½	13/64	7/16	5/16	¼-20	⅞	Ex-Fine
RG-829	CTH-0280	½	13/64	7/16	5/16	¼-28	½	Ex-Fine
RG-831	CTH-0281	1	13/64	7/16	5/16	¼-28	⅞	Ex-Fine
RG-835	CTH-0310	½	¼	½	⅜	5/16-18	½	Fine
RG-837	CTH-0310-EF	½	¼	½	⅜	5/16-18	½	Ex-Fine
RG-21	CTH-0312	1	¼	½	⅜	5/16-18	1	Fine
RG-839	CTH-0312-EF	1	¼	½	⅜	5/16-18	1	Ex-Fine
RG-841*	CTH-0312X1.5	1½	¼	½	⅜	5/16-18	1½	Fine
RG-843*	CTH-0312X1.5-EF	1½	¼	½	⅜	5/16-18	1	Ex-Fine
RG-845	CTH-0320	½	¼	½	⅜	5/16-24	½	Fine
RG-847	CTH-0320-EF	½	¼	½	⅜	5/16-24	½	Ex-Fine
RG-849	CTH-0321	1	¼	½	⅜	5/16-24	1	Fine
RG-851	CTH-0321-EF	1	¼	½	⅜	5/16-24	1	Ex-Fine
RG-853*	CTH-0321X1.5	1½	¼	½	⅜	5/16-24	1	Fine
RG-857	CTH-0230	½	9/32	9/16	½	⅜-24	½	Fine
RG-861	CTH-0231	1	9/32	9/16	½	⅜-24	1	Fine
RG-863	CTH-0231-EF	1	9/32	9/16	½	⅜-24	1	Ex-Fine
RG-865*	CTH-0231X1.5	1½	9/32	9/16	½	⅜-24	1⅛	Fine
RG-869	CTH-0370	½	9/32	9/16	½	⅜-16	½	Fine
RG-871	CTH-0370-EF	½	9/32	9/16	½	⅜-16	½	Ex-Fine
RG-22	CTH-0375	1	9/32	9/16	½	⅜-16	1	Fine
RG-873	CTH-0375-EF	1	9/32	9/16	½	⅜-16	1	Ex-Fine
RG-23*	CTH-0375X1.5	1½	9/32	9/16	½	⅜-16	1⅛	Fine
RG-875*	CTH-0375X1.5-EF	1½	9/32	9/16	½	⅜-16	1⅛	Ex-Fine
RG-877	CTH-0240	1	23/64	¾	⅝	½-20	1	Fine
RG-879	CTH-0240-EF	1	23/64	¾	⅝	½-20	1	Ex-Fine
RG-881	CTH-0500	1½	23/64	¾	⅝	½-20	1½	Fine
RG-24	CTH-0510	1	23/64	¾	⅝	½-13	1	Fine
RG-885	CTH-0510-EF	1	23/64	¾	⅝	½-13	1	Ex-Fine
RG-25	CTH-0515	1½	23/64	¾	⅝	½-13	1½	Fine
RG-887	CTH-0515-EF	1½	23/64	¾	⅝	½-13	1½	Ex-Fine
RG-889	CTH-0620	1	7/16	15/16	¾	⅝-18	1	Fine
RG-26	CTH-0625	1	7/16	15/16	¾	⅝-11	1	Fine
RG-27	CTH-0625X2	2	7/16	15/16	¾	⅝-11	1½	Fine
RG-901	CTH-0750-EF	1	½	1⅛	1	¾-16	1	Ex-Fine
RG-903	CTH-0750X2.5-EF	2½	½	1⅛	1	¾-16	1¾	Ex-Fine

Item No.	MFG #	A	B	C	D	E	F	Tooth Pattern
RG-750	AG-0230	.937	9/16	.500	⅜	⅜-24	.15	Fine
RG-752	AG-0230-EF	.937	9/16	.500	⅜	⅜-24	.15	Ex-Fine
RG-754	AG-0231	1.375	1	.500	⅜	⅜-24	.15	Fine
RG-756	AG-0231-EF	1.375	1	.500	⅜	⅜-24	.15	Ex-Fine
RG-770	AG-0370	.937	9/16	.500	⅜	⅜-16	.15	Fine
RG-100	AG-0375	1.375	1	.500	⅜	⅜-16	.15	Fine
RG-776	AG-0375X1.5	1.875	1½	.500	⅜	⅜-16	.15	Fine
RG-780	AG-0240	1.375	⅞	.625	½	½-20	.25	Fine
RG-784	AG-0500	2.062	1½	.625	½	½-20	.25	Fine
RG-101	AG-0510	1.375	⅞	.625	½	½-13	.25	Fine
RG-796	AG-0620X2	2.562	2	.750	⅝	⅝-18	.25	Fine
RG-102	AG-0515	2.062	1½	.625	½	½-13	25	Fine
RG-800	AG-0625X1	1.562	1	.750	⅝	⅝-11	.25	Fine
RG-103	AG-0625X2	2.562	2	.750	⅝	⅝-11	.25	Fine
RG-804	AG-0625X2-EF	2.562	2	.750	⅝	⅝-11	.25	Ex-Fine
RG-814	AG-0755X1	1.562	1	.875	¾	¾-10	.25	Fine
RG-818	AG-0755X2.5	3.062	2½	.875	¾	¾-10	.25	Fine



Fine Serrated



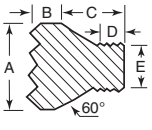


Pointed





Carbide Tipped



Simply drill, tap and install. These blind hole grippers make it easy to modify soft tip jaws, strap clamps or fixtures. Grippers can be installed from one side using a combination center drill, tap and wrench, eliminating the need to drill through holes. Hardened steel grippers are case hardened with black oxide finish. Carbide tipped grippers have cadmium plated finish.

Chuck Jaw Grippers
Hardened Steel

Serrated Item No.	MFG #	Pointed Item No.	Hex A	B	C	D	Thread E	Center Drill	Drill to Dia.
JRG-23801	23801	JRG-23811	5/16	.093	.32	.19	8-32	No. 4	.310
JRG-23802	23802	JRG-23812	½	.125	.46	.25	¼-28	No. 6	.498
JRG-23803	23803	JRG-23813	¾	.187	.70	.38	⅜-16	No. 8	.745

Chuck Jaw grippers
Carbide Tipped

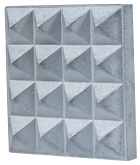
Item No.	MFG #	Hex A	B	C	D	Thread E	Center Drill	Drill to Dia.
JRG-23822	23822	½	.125	.46	.25	¼-28	No. 6	.498
JRG-23823	23823	¾	.187	.70	.38	⅜-16	No. 8	.745

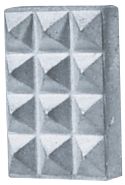
REST PADS

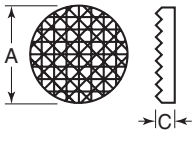
Rest Pads
Solid Carbide Round, Square and Rectangle

Fairlane Products

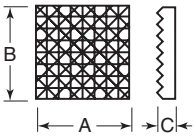




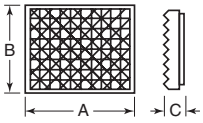




Round



Square



Rectangular

Item No.	MFG #	+.000/-.005 A	C	Tooth Pattern	Item No.	MFG #	+.000/-.005 A	+.005/-.000 B	C	Tooth Pattern
Round					**Square**					
RGCP-1	CC-1	1/4	1/8	Ex-Fine	RGCP-9	CS-4	1/2	1/2	1/8	Fine
RGCP-2	CC-2	5/16	1/8	Ex-Fine	RGCP-1227	CS-4-EF	1/2	1/2	1/8	Ex-Fine
RGCP-1207	CC-2-4	5/16	1/8	4 Point	RGCP-1229	CS-5-EF	5/8	5/8	1/8	Ex-Fine
RGCP-3	CC-3	3/8	1/8	Fine	RGCP-11	CS-6-EF	3/4	3/4	5/32	Ex-Fine
RGCP-1211	CC-3-EF	3/8	1/8	Ex-Fine	RGCP-12	CS-8-EF	1	1	5/32	Ex-Fine
RGCP-1213	CC-3-4	3/8	1/8	4 Point	**Rectangle**					
RGCP-13	CC-3F	3/8	1/8	Flat	RGCP-1231	CR-2-EF	3/8	1/4	1/8	Ex-Fine
RGCP-4	CC-437	7/16	1/8	Fine	RGCP-1233	CR-870	1/2	13/32	1/8	Fine
RGCP-5	CC-4	1/2	1/8	Fine	RGCP-1239	CR-127-12	29/64	13/32	1/8	Fine
RGCP-1215	CC-4-EF	1/2	1/8	Ex-Fine	RGCP-1245	CR-4	1	1/2	3/16	Sawtooth
RGCP-6	CC-5	5/8	1/8	Fine	RGCP-1247	CR-4-EF	1	1/2	3/16	Ex-Fine
RGCP-7	CC-6	3/4	1/8	Fine	RGCP-1249	CR-6	1 1/2	3/4	1/4	Sawtooth
RGCP-1223	CC-6-EF	3/4	1/8	Ex-Fine						
RGCP-8	CC-8-EF	1	5/32	Ex-Fine						

Rest Pads
Tapped Hole Design
Steel and Delrin

Fairlane Products

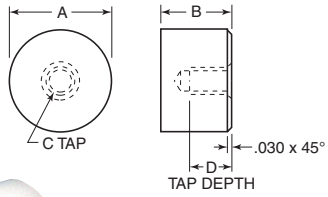
Steel Item No.	Steel MFG#	Delrin Item No.	Delrin MFG#	A	B	C	D
RRP-2S	SRP-40	**RRP-2D**	DRP-40	3/8	3/8	10-32	3/16
RRP-4S	SRP-405	**RRP-4D**	DRP-405	3/8	1/2	10-32	5/16
RRP-6S	SRP-50	—		1/2	3/8	10-32	3/16
RRP-8S	SRP-53	—		1/2	1/2	10-32	5/16
RRP-10S	SRP-62	**RRP-10D**	DRP-62	5/8	3/8	1/4-28	3/16
RRP-12S	SRP-625	—		5/8	1/2	1/4-28	5/16
RRP-14S	SRP-75	—		3/4	3/8	1/4-28	3/16
RRP-16S	SRP-755	—		3/4	1/2	1/4-28	5/16
RRP-18S	SRP-81	—		1	3/8	1/4-28	3/16
RRP-20S	SRP-815	**RRP-20D**	DRP-815	1	1/2	1/4-28	5/16



Steel



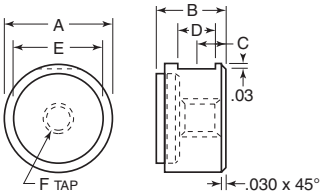
Delrin



Rest Pads
Tapped Hole Design
Carbide Tipped

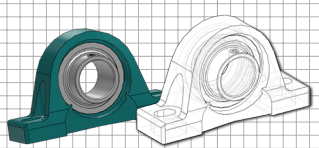
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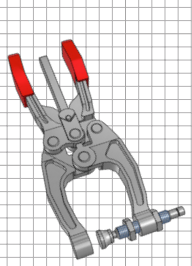


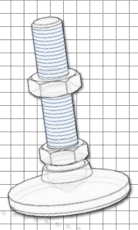


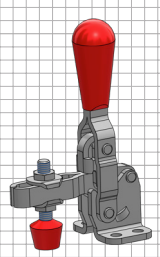
Item No.	MFG #	A	+/-.001 B	C	D	E	F
RRP-22	CRP-40	3/8	3/8	11/64	3/16	5/16	10-32
RRP-24	CRP-405	3/8	1/2	15/64	3/16	5/16	10-32
RRP-26	CRP-50	1/2	3/8	11/64	3/16	3/8	10-32
RRP-28	CRP-53	1/2	1/2	15/64	3/16	3/8	10-32
RRP-30	CRP-62	5/8	3/8	11/64	3/16	1/2	1/4-28
RRP-36	CRP-755	3/4	1/2	15/64	3/16	5/8	1/4-28
RRP-38	CRP-81	1	3/8	11/64	3/16	3/4	1/4-28

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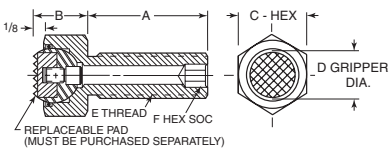
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Consists of stainless steel ball with pocket area to accept a replaceable gripper and a socket head cap screw to hold the gripper in place. Ball is retained in the hex head housing by an O-ring that facilitates swiveling action and keeps contaminants out. Housing is heat treated alloy steel. Grippers are not included in assembly and must be purchased separately. Any round style gripper or rest pad with a tapped hole can be used (carbide tipped, high speed steel, solid carbide or Delrin). See "D" dimension for gripper diameter to use.

Swivel Action Gripper Hex Head Ball Unit

Fairlane Products



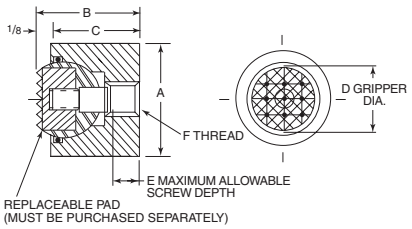


Item No.	MFG #	A	+/-.005 B	C	D	E	F	Ball Dia.
RGBU-200	BUH-0230	1/2	5/8	5/8	3/8	3/8-24	1/8	1/2
RGBU-205	BUH-0231	1	5/8	5/8	3/8	3/8-24	1/8	1/2
RGBU-210	BUH-0231X1.5	1 1/2	5/8	5/8	3/8	3/8-24	1/8	1/2
RGBU-215	BUH-0370	1/2	5/8	5/8	3/8	3/8-16	1/8	1/2
RGBU-220	BUH-0375	1	5/8	5/8	3/8	3/8-16	1/8	1/2
RGBU-225	BUH-0375X1.5	1 1/2	5/8	5/8	3/8	3/8-16	1/8	1/2
RGBU-230	BUH-0240	1	3/4	13/16	1/2	1/2-20	3/16	5/8
RGBU-235	BUH-0500	1 1/2	3/4	13/16	1/2	1/2-20	3/16	5/8
RGBU-240	BUH-0510	1	3/4	13/16	1/2	1/2-13	3/16	5/8
RGBU-245	BUH-0515	1 1/2	3/4	13/16	1/2	1/2-13	3/16	5/8
RGBU-255	BUH-0620X2	2	13/16	15/16	5/8	5/8-18	1/4	3/4
RGBU-260	BUH-0625	1	13/16	15/16	5/8	5/8-11	1/4	3/4
RGBU-265	BUH-0625X2	2	13/16	15/16	5/8	5/8-11	1/4	3/4
RGBU-270	BUH-0750	1	7/8	1 1/8	3/4	3/4-16	5/16	7/8
RGBU-275	BUH-0750X2.5	2 1/2	7/8	1 1/8	3/4	3/4-16	5/16	7/8
RGBU-280	BUH-0755	1	7/8	1 1/8	3/4	3/4-10	5/16	7/8
RGBU-285	BUH-0755X2.5	2 1/2	7/8	1 1/8	3/4	3/4-10	5/16	7/8
RGBU-1307	BUH-1114X4	4	1	1 1/2	1	1-14	3/8	1 1/8
RGBU-1309	BUH-1108X2	2	1	1 1/2	1	1-8	3/8	1 1/8
RGBU-1311	BUH-1108X4	4	1	1 1/2	1	1-8	3/8	1 1/8

Swivel Action Gripper Base Ball Unit

Fairlane Products



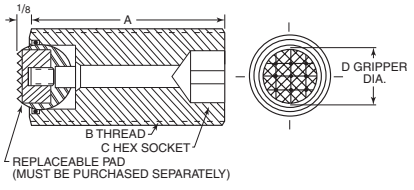


Item No.	MFG #	A	+/- .005 B	C	D	+/-.010 E	F	Ball Dia.
RGBU-300	BBU-500	5/8	7/8	3/4	3/8	.24	1/4-28	1/2
RGBU-305	BBU-600	13/16	1	7/8	1/2	.35	5/16-24	5/8
RGBU-310	BBU-700	15/16	1	7/8	5/8	.28	3/8-24	3/4
RGBU-315	BBU-800	1 1/8	1 1/16	15/16	3/4	.26	1/2-20	7/8
RGBU-1315	BBU-1100	1 1/2	1 3/8	1 1/4	1	.44	1/2-20	1 1/8

Swivel Action Gripper Threaded ball Unit

Fairlane Products





Item No.	MFG #	A	B	C	D	Ball Dia.
RGBU-415	TBU-0755X2	2	3/4-10	3/8	3/8	1/2
RGBU-1322	TBU-0755X3	3	3/4-10	3/8	3/8	1/2
RGBU-1324	TBU-1114X2	2	1-14	3/8	5/8	3/4
RGBU-1326	TBU-1114X3	3	1-14	3/8	5/8	3/4

These assemblies are similar to the ball units, however, the pad and ball are one unit and included with the assemblies. The pads are available in high speed steel, (serrated or flat) and delrin (flat only).

Swivel Action Gripper Hex Head Ball Assemblies

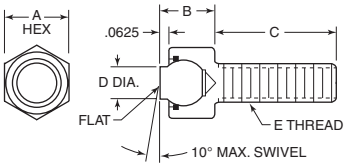
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Serrated



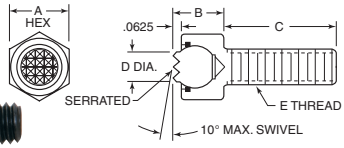
Flat



Flat



Serrated



Serrated

Item No.	MFG#	Type	A	+/-.005 B	C	D	E
RGBA-6S	BUH-0132-S	Serrated	3/8	5/16	1/2	5/32	10-32
RGBA-10S	BUH-0250-S	Serrated	7/16	3/8	1/2	1/4	1/4-20
RGBA-12S	BUH-0251-S	Serrated	7/16	3/8	1	1/4	1/4-20
RGBA-14S	BUH-0251X1.5-S	Serrated	7/16	3/8	1 1/2	1/4	1/4-20
RGBA-16S	BUH-0280-S	Serrated	7/16	3/8	1/2	1/4	1/4-28
RGBA-22S	BUH-0310-S	Serrated	1/2	7/16	1/2	5/16	5/16-18
RGBA-24S	BUH-0312-S	Serrated	1/2	7/16	1	5/16	5/16-18
RGBA-26S	BUH-0312X1.5-S	Serrated	1/2	7/16	1 1/2	5/16	5/16-18
RGBA-28S	BUH-0320-S	Serrated	1/2	7/16	1/2	5/16	5/16-24
RGBA-10F	BUH-0250-F	Flat	7/16	3/8	1/2	1/4	1/4-20
RGBA-22F	BUH-0310-F	Flat	1/2	7/16	1/2	5/16	5/16-18
RGBA-24F	BUH-0312-F	Flat	1/2	7/16	1	5/16	5/16-18
RGBA-30F	BUH-0321-F	Flat	1/2	7/16	1	5/16	5/16-24
RGBA-26D	BUH-0312X1-1/2-D	Delrin	1/2	7/16	1 1/2	5/16	5/16-18

Swivel Action Gripper Base Ball Assemblies

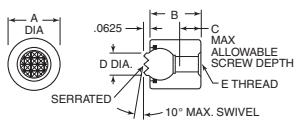
Fairlane Products

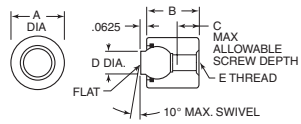


Serrated



Flat



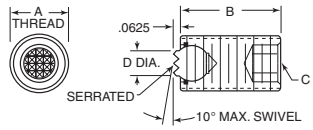


Item No.	MFG#	Type	A	+/-.005 B	+/-.010 C	D	E
RGBA-44S	BBU-300-S	Serrated	1/2	9/16	5/32	5/16	10-32
RGBA-44F	BBU-300-F	Flat	1/2	9/16	5/32	5/16	10-32
RGBA-46S	BBU-301-S	Serrated	1/2	1 1/16	5/8	5/16	10-32

Swivel Action Gripper Threaded Ball Assemblies

Fairlane Products





Item No.	MFG #	Type	A	B	C	D
RGBA-50S	TBU-0230-S	Serrated	3/8-24	1/2	3/16	5/32
RGBA-52S	TBU-0231-S	Serrated	3/8-24	1	3/16	5/32
RGBA-54S	TBU-0231X2-S	Serrated	3/8-24	2	3/16	5/32
RGBA-60S	TBU-0375-S	Serrated	3/8-16	1	3/16	5/32
RGBA-62S	TBU-0375X2-S	Serrated	3/8-16	2	3/16	5/32
RGBA-64S	TBU-0375X3-S	Serrated	3/8-16	3	3/16	5/32
RGBA-66S	TBU-0500-S	Serrated	1/2-20	1	1/4	1/4
RGBA-70S	TBU-0500X3-S	Serrated	1/2-20	3	1/4	1/4
RGBA-72S	TBU-0510-S	Serrated	1/2-13	1	1/4	1/4
RGBA-74S	TBU-0510X2-S	Serrated	1/2-13	2	1/4	1/4
RGBA-76S	TBU-0510X3-S	Serrated	1/2-13	3	1/4	1/4
RGBA-78S	TBU-0620-S	Serrated	5/8-18	1	5/16	5/16
RGBA-86S	TBU-0625X2-S	Serrated	5/8-11	2	5/16	5/16

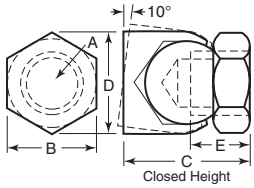
SWIVEL PADS & T-SLOT ACCESSORIES

Toggle or Swivel Pads
With Flat or Serrated Bottom
Steel or Stainless Steel Body

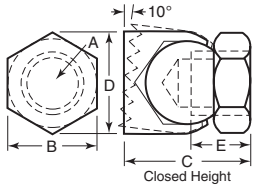
Vlier



Steel Body



Flat Bottom



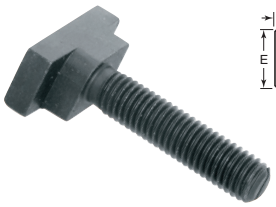
Serrated Bottom

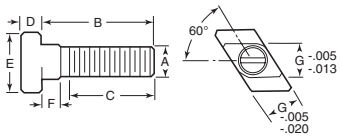
Available with flat or serrated bottom. Flat bottoms are available in zinc plated steel with steel or delrin pads and stainless steel with stainless or delrin pads. Serrated bottoms are available in zinc plated steel with steel pad or stainless steel with stainless pad. The ball portion is hardened. Pad is not heat treated. Stainless is 300 series.

Item No.	MFG#	Steel Pad Max. Load	A	B	C	D	E
Flat Bottom							
RP-4	P306	7,000	½-13	¾	15/16	⅞	7/16
RP-5	P308	10,000	⅝-11	⅞	1	1	7/16
RP-6	P310	13,500	¾-10	1 1/16	1 1/32	1¼	⅝
RP-7	P312	18,750	1-8	1⅜	1 53/64	1⅝	13/16

T-Slot Bolts
Rotary Type

Valtra Inc.



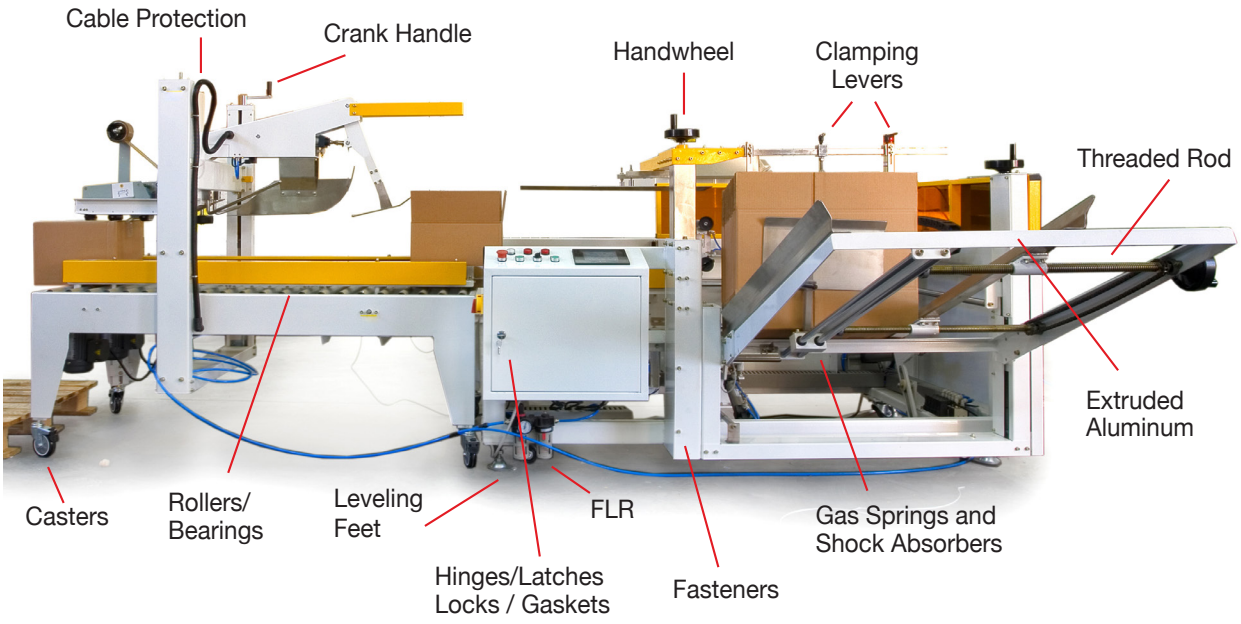


Slot on the top of the bolt makes it easy to rotate the head in the T-slot. Extra long threaded shank for versatility. Made of 4140 steel. Heat treated to Grade 5 strength (125,000 psi) with black oxide finish.

Item No.	MFG #	Thread A	B	C	D	E	F	G
RTSB-5	**843515**	½-13	1½	1	11/32	1⅛	11/32	.625
RTSB-10	**843520**	½-13	2	1½	11/32	1⅛	11/32	.625
RTSB-15	**843525**	½-13	2½	2	11/32	1⅛	11/32	.625
RTSB-20	**843530**	½-13	3	2½	11/32	1⅛	11/32	.625
RTSB-25	**843535**	½-13	3½	2	11/32	1⅛	11/32	.625
RTSB-40	**843550**	½-13	5	2½	11/32	1⅛	11/32	.625
RTSB-55	**843620**	⅝-11	2	1½	13/32	1¼	13/32	.750
RTSB-65	**843630**	⅝-11	3	2½	13/32	1¼	13/32	.750
RTSB-75	**843640**	⅝-11	4	2½	13/32	1¼	13/32	.750
RTSB-85	**843660**	⅝-11	6	2½	13/32	1¼	13/32	.750

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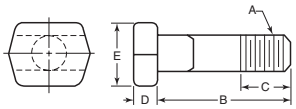
We work with many suppliers to give you solutions to fit your budget.



T-Slot Bolts
Standard Type
Inch and Metric

George H. Seltzer





Used for setting up work on planers, shapers, milling machines or similar applications. Heads sized to fit in table slot. Cannot twist or jam in slot. Inch are hot forged from C-1045 steel, Class 3NC threads. T-slot bolt head dimension "D" is undersized to fit machine table slot. Inch dimensions are +/- .015. Metric are forged, with milled T-slot guide and faces, and rolled thread. Sizes M6 - M12 are heat treated to strength Class 10.9, M16 - M24 are heat treated to Class 8.8. Metric dimensions are in millimeters.

See page 264 for flange nuts.

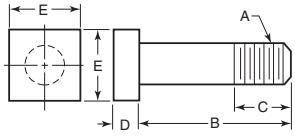
Item No.	MFG #	Thread A	B	C	D	E	Table Slot
Inch							
TSB-1	**10010**	3/8-16	1	5/8	3/16	11/16	3/8
TSB-2	**10012**	3/8-16	1 1/2	1	3/16	11/16	3/8
TSB-3	**10014**	3/8-16	2	1 1/2	3/16	11/16	3/8
TSB-4	**10016**	3/8-16	2 1/2	1 1/2	3/16	11/16	3/8
TSB-5	**10018**	3/8-16	3	1 1/2	3/16	11/16	3/8
TSB-6	**10019**	3/8-16	3 1/2	2	3/16	11/16	3/8
TSB-7	**10020**	3/8-16	4	1 1/4	3/16	11/16	3/8
TSB-36	**10022**	3/8-16	5	1 1/4	3/16	11/16	3/8
TSB-8	**20012**	1/2-13	1 1/2	1	9/32	7/8	1/2
TSB-9	**20014**	1/2-13	2	1 1/2	9/32	7/8	1/2
TSB-10	**20016**	1/2-13	2 1/2	1 1/2	9/32	7/8	1/2
TSB-11	**20018**	1/2-13	3	1 1/2	9/32	7/8	1/2
TSB-12	**20019**	1/2-13	3 1/2	2	9/32	7/8	1/2
TSB-13	**20020**	1/2-13	4	2	9/32	7/8	1/2
TSB-14	**20022**	1/2-13	5	2	9/32	7/8	1/2
TSB-15	**20024**	1/2-13	6	2	9/32	7/8	1/2
TSB-39	**20025**	1/2-13	7	2	9/32	7/8	1/2
TSB-40	**20026**	1/2-13	8	2 1/2	9/32	7/8	1/2
TSB-16	**30012**	5/8-11	1 1/2	1	11/32	1 3/32	5/8
TSB-17	**30014**	5/8-11	2	1 1/2	11/32	1 3/32	5/8
TSB-18	**30016**	5/8-11	2 1/2	1 1/2	11/32	1 3/32	5/8
TSB-19	**30018**	5/8-11	3	1 1/2	11/32	1 3/32	5/8
TSB-20	**30019**	5/8-11	3 1/2	2	11/32	1 3/32	5/8
TSB-21	**30020**	5/8-11	4	2	11/32	1 3/32	5/8
TSB-22	**30022**	5/8-11	5	2	11/32	1 3/32	5/8
TSB-23	**30024**	5/8-11	6	2	11/32	1 3/32	5/8
TSB-24	**30026**	5/8-11	8	2 1/2	11/32	1 3/32	5/8
TSB-25	**40018**	3/4-10	3	1 1/2	7/16	1 1/4	3/4
TSB-26	**40019**	3/4-10	3 1/2	2	7/16	1 1/4	3/4
TSB-27	**40020**	3/4-10	4	2	7/16	1 1/4	3/4
TSB-28	**40022**	3/4-10	5	2	7/16	1 1/4	3/4
TSB-29	**40024**	3/4-10	6	2	7/16	1 1/4	3/4
TSB-42	**40025**	3/4-10	7	2	7/16	1 1/4	3/4
TSB-30	**40026**	3/4-10	8	2 1/2	7/16	1 1/4	3/4
TSB-43	**40028**	3/4-10	10	2 1/2	7/16	1 1/4	3/4
TSB-44	**40029**	3/4-10	12	3	7/16	1 1/4	3/4

Item No.	MFG #	Thread A	B	C	D	E	Table Slot
Inch							
TSB-45	**60020**	7/8-9	4	2	9/16	1 1/2	7/8
TSB-46	**60022**	7/8-9	5	2	9/16	1 1/2	7/8
TSB-47	**60024**	7/8-9	6	2	9/16	1 1/2	7/8
TSB-48	**60025**	7/8-9	7	2	9/16	1 1/2	7/8
TSB-49	**60026**	7/8-9	8	2 1/2	9/16	1 1/2	7/8
TSB-31	**80020**	1-8	4	2	5/8	1 3/4	1
TSB-32	**80022**	1-8	5	2	5/8	1 3/4	1
TSB-33	**80024**	1-8	6	2	5/8	1 3/4	1
TSB-52	**80025**	1-8	7	2	5/8	1 3/4	1
TSB-34	**80026**	1-8	8	2 1/2	5/8	1 3/4	1
TSB-35	**80028**	1-8	10	2 1/2	5/8	1 3/4	1
TSB-53	**80029**	1-8	12	3	5/8	1 3/4	1
Metric							
TSB-100	**84004**	M6 x 1.00	25	15	4	10	6
TSB-103	**84038**	M8 x 1.25	32	22	6	13	8
TSB-104	**80374**	M8 x 1.25	50	35	6	13	8
TSB-106	**84046**	M10 x 1.50	40	30	6	15	10
TSB-107	**80390**	M10 x 1.50	63	45	6	15	10
TSB-109	**80416**	M12 x 1.75	50	35	7	18	12
TSB-110	**85605**	M12 x 1.75	63	40	7	18	12
TSB-111	**80424**	M12 x 1.75	80	55	7	18	12
TSB-165	**80465**	M12 x 1.75	80	55	22	8	14
TSB-170	**81851**	M12 x 1.75	100	65	22	8	14
TSB-175	**80473**	M12 x 1.75	125	75	22	8	14
TSB-180	**82966**	M12 x 1.75	160	100	22	8	14
TSB-190	**80531**	M16 x 2.00	63	45	25	9	16
TSB-195	**85621**	M16 x 2.00	80	55	25	9	16
TSB-200	**80549**	M16 x 2.00	100	65	25	9	16
TSB-215	**80572**	M16 x 2.00	63	45	10	28	18
TSB-130	**85639**	M16 x 2.00	80	55	10	28	18
TSB-220	**80580**	M16 x 2.00	100	65	10	28	18
TSB-240	**85662**	M20 x 2.50	160	110	12	32	20
TSB-144	**80622**	M20 x 2.50	125	85	14	35	22
TSB-255	**80663**	M24 x 3.00	160	110	18	44	28
TSB-260	**85712**	M24 x 3.00	200	125	18	44	28

T-Slot Bolts
Standard Type

TE-CO





Holds work more securely than ordinary bolts. Eliminates damage to table slots. Made of medium carbon alloy, heat treated, black oxide finish. Threads are Class 2A UNC.

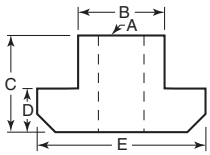
Item No.	MFG #	Thread A	B	C	D	E	Table Slot
TB-110	**46201**	3/8-16	1 1/2	1	1/4	11/16	3/8
TB-111	**46202**	3/8-16	2	1 1/2	1/4	11/16	3/8
TB-112	**46203**	3/8-16	2 1/2	2	1/4	11/16	3/8
TB-113	**46204**	3/8-16	3	2	1/4	11/16	3/8
TB-114	**46205**	3/8-16	3 1/2	2	1/4	11/16	3/8
TB-115	**46206**	3/8-16	4	2	1/4	11/16	3/8
TB-116	**46207**	3/8-16	5	2	1/4	11/16	3/8
TB-117	**46208**	3/8-16	6	2	1/4	11/16	3/8
TB-118	**46209**	3/8-16	7	2	1/4	11/16	3/8
TB-119	**46210**	3/8-16	8	2	1/4	11/16	3/8
TB-5	**46405**	1/2-13	3 1/2	2	5/16	7/8	1/2
TB-6	**46406**	1/2-13	4	2	5/16	7/8	1/2
TB-7		1/2-13	4 1/2	2	1/4	7/8	1/2
TB-8	**46407**	1/2-13	5	2	5/16	7/8	1/2
TB-10	**46408**	1/2-13	6	2	5/16	7/8	1/2
TB-11	**46409**	1/2-13	7	2	5/16	7/8	1/2
TB-12	**46410**	1/2-13	8	2	5/16	7/8	1/2
TB-14	**46411**	1/2-13	10	2	5/16	7/8	1/2
TB-16	**46412**	1/2-13	12	2	5/16	7/8	1/2
TB-17	**46501**	5/8-11	1 1/2	1	13/32	1 1/8	5/8
TB-18	**46502**	5/8-11	2	1 1/2	13/32	1 1/8	5/8
TB-19	**46503**	5/8-11	2 1/2	2	13/32	1 1/8	5/8
TB-20	**46504**	5/8-11	3	2	13/32	1 1/8	5/8
TB-21	**46505**	5/8-11	3 1/2	2	13/32	1 1/8	5/8
TB-22	**46506**	5/8-11	4	2	13/32	1 1/8	5/8

Item No.	MFG #	Thread A	B	C	D	E	Table Slot
TB-24	46507	5/8-11	5	2	13/32	1 1/8	5/8
TB-26	46508	5/8-11	6	2	13/32	1 1/8	5/8
TB-27	46509	5/8-11	7	2	13/32	1 1/8	5/8
TB-28	46510	5/8-11	8	2	13/32	1 1/8	5/8
TB-30	46511	5/8-11	10	2	13/32	1 1/8	5/8
TB-32	46512	5/8-11	12	2	13/32	1 1/8	5/8
TB-33	101-042701-2.00	3/4-10	2	1 1/4	1/2	1 1/4	3/4
TB-34	42701	3/4-10	2 1/2	1 1/4	1/2	1 1/4	3/4
TB-35	46601	3/4-10	3	2	17/32	1 5/16	3/4
TB-36	46602	3/4-10	3 1/2	2	17/32	1 5/16	3/4
TB-37	46603	3/4-10	4	2	17/32	1 5/16	3/4
TB-39	46604	3/4-10	5	2	17/32	1 5/16	3/4
TB-41	46605	3/4-10	6	2	17/32	1 5/16	3/4
TB-42	46606	3/4-10	7	2	17/32	1 5/16	3/4
TB-43	46607	3/4-10	8	2	17/32	1 5/16	3/4
TB-44	42708	3/4-10	10	3	1/2	1 5/16	3/4
TB-45	46608	3/4-10	10	2	17/32	1 5/16	3/4
TB-47	46609	3/4-10	12	2	17/32	1 5/16	3/4
TB-55	42901	1-8	4	2 1/2	11/16	1 11/16	1
TB-56	42902	1-8	5	2 1/2	11/16	1 11/16	1
TB-57	42903	1-8	6	2 1/2	11/16	1 11/16	1
TB-58	42911	1-8	7	2 1/2	11/16	1 11/16	1
TB-59	42904	1-8	8	3	11/16	1 11/16	1
TB-60	42912	1-8	9	3	11/16	1 11/16	1

T-SLOT NUTS

Chamfered Type
Metric - DIN-508





Cold drawn T-nut features unique undercut to prevent interference from T-slot burrs. Stud stays perpendicular to the table. Bottom chamfer (approximately 60° off horizontal) clears chips for easy insertion. Threads are roll formed for more holding power and last thread is incomplete to prevent T-slot or table damage. Made of cold formed steel, case hardened, black oxide finish. Tempered to tensile strength Class 10.

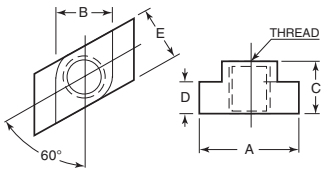
Item No.	MFG #	Table Slot	Thread A	B	C	D	E	Overall Length
TN-25	80002	6	M5 x .80	5.7	8	4	10	10
TN-26	80010	8	M6 x 1.00	7.7	10	6	13	13
TN-27	80028	10	M8 x 1.25	9.7	12	6	15	15
TN-56*	84665	10	M8 x 1.25	9.7	12	6	15	30
TN-29	80036	12	M10 x 1.50	11.7	14	7	18	18
TN-57*	84673	12	M10 x 1.50	11.7	14	7	18	36
TN-58*	84681	14	M12 x 1.75	13.7	16	8	22	44
TN-32	80044	14	M12 x 1.75	13.7	16	8	22	22
TN-50	80168	16	M12 x 1.75	15.7	18	9	25	25
TN-51	158907	18	M12 x 1.75	17.7	20	10	28	28
TN-40	80069	18	M16 x 2.0	17.7	20	10	28	28
TN-59*	84707	18	M16 x 2.0	17.7	20	10	28	56
TN-53	155630	22	M16 x 2.0	21.7	28	14	35	35
TN-46	80085	22	M20 x 2.50	21.7	28	14	35	35
TN-55	80101	28	M24 x 3.0	27.7	36	18	44	44

*Extended length
Note: Dimensions are in millimeters.

Rotary Type
Inch and Metric

Item No.	MFG #	Table Slot	Thread	A	+.000/ -.010 B	C	D	+.000/ -.020 E
Inch								
RTN-25	825736	½	⅜-16	⅞	.495	½	9/32	.495
RTN-50	825755	9/16	½-13	⅞	.557	⅝	11/32	.557
RTN-75	825756	⅝	½-13	1	.620	⅝	11/32	.620
RTN-100	825757	11/16	½-13	1⅛	.682	¾	7/16	.682
RTN-125	825765	11/16	⅝-11	1⅛	.682	¾	7/16	.682
RTN-150	825766	¾	⅝-11	1¼	.745	¾	15/32	.745
RTN-175	825777	1	¾-10	1⅝	.995	1	⅝	.995
Metric								
TN-62	80259	12	M10 x 1.50	18	11.7	14	7	11.7
TN-63	80267	14	M12 x 1.75	22	13.7	16	8	13.7
TN-64	80283	18	M16 x 2.0	28	17.7	20	10	17.7
TN-65	80309	22	M20 x 2.50	35	21.7	28	14	21.7

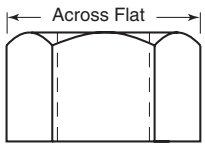




Unique rotary T-nuts allow convenient addition of studs and clamp straps without tearing down previous set ups. Made of cold finished steel, case hardened, black oxide finish. These T-nuts feature a safety design which is tapped one thread short of going through to prevent the stud from being screwed into the table. Metric dimensions are in millimeters. Metric style are chamfered on bottom.

Hardened Hexagon Nuts

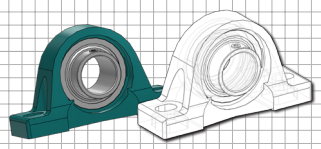


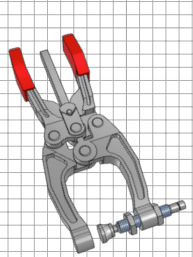


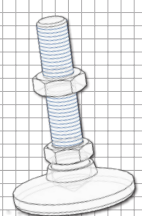
Used extensively on tool, jig and fixture work. Also used with studs, T-bolts, etc. for machine setups. Precision tapped. Case hardened. Black oxide finish. National coarse are heavy pattern. National fine are light pattern.

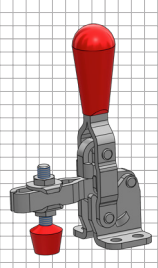
Item No.	MFG #	Thread Size	Across Flat
HNC-1	14NHHBE	¼-20	.49
HNC-2	31NHHBE	5/16-18	.55
HNC-3	37NHHBE	⅜-16	.68
HNC-4	43NHHBE	7/16-14	.74
HNC-5	50NHHBE	½-13	.86
HNC-6	62NHHBE	⅝-11	1.05
HNC-7	75NHHBE	¾-10	1.21
HNC-8	87NHHBE	⅞-9	1.40
HNC-9	100NHHBE	1-8	1.59

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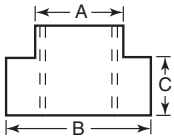


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T-Slot Nuts
Standard Type
Steel or Stainless Steel





Used for setting up work on machine tools. Also used with stud sets and have many applications on jig and fixture work. Tongue of T-nuts slightly undersize to fit machine table slot-A. Steel type are made of cold finished steel, case hardened, black oxide finish. Stainless is Type 304. The standard T-nuts are threaded completely through. The safety design is tapped one thread short of going through to prevent the stud from being screwed into the table.

Standard Item No.	MFG #	Safety Item No.	MFG#	Table Slot A	Thread	B	C	Overall Length	Overall Height
Steel - Threaded									
TN-0	41470T	TN-100	41470	3/8	1/4-20	5/8	1/4	7/8	3/8
TN-1	41403T	TN-101	41403	3/8	5/16-18	5/8	1/4	7/8	3/8
TN-18	41471T	TN-118	41471	7/16	5/16-18	3/4	7/32	1	1/2
TN-2	41472T	TN-102	41472	7/16	3/8-16	3/4	7/32	1	1/2
TN-3	41473T	TN-103	41473	1/2	3/8-16	7/8	9/32	1	1/2
TN-19	41474T	TN-119	41474	9/16	3/8-16	7/8	11/32	1	5/8
TN-4	41475T	TN-104	41475	9/16	1/2-13	7/8	11/32	1	5/8
TN-20*	41476T	TN-120*	41476	5/8	3/8-16	1	3/8	1	5/8
TN-5*	41477T	TN-105*	41477	5/8	1/2-13	1	3/8	1	5/8
TN-16	41480T	TN-116	41480	11/16	1/2-13	1 1/8	13/32	1 1/8	3/4
TN-6	41481T	TN-106	41481	11/16	5/8-11	1 1/8	13/32	1 1/8	3/4
TN-21*	41478T	TN-121*	41478	5/8	3/8-16	1 3/16	7/16	1 3/16	7/8
TN-22*	41479T	TN-122*	41479	5/8	1/2-13	1 3/16	7/16	1 3/16	7/8
TN-10	41486T	TN-110	41486	13/16	3/4-10	1 1/4	17/32	1 1/2	1
TN-7	41482T	TN-107	41482	3/4	5/8-11	1 1/4	1/2	1 1/8	3/4
TN-14	41483T	TN-114	41483	13/16	5/8-11	1 3/8	9/16	1 1/2	1
TN-8	41484T	TN-108	41484	13/16	3/4-10	1 3/8	9/16	1 1/2	1
TN-15	41487T	TN-115	41487	1	3/4-10	1 1/2	3/4	1 1/2	1 1/4

Standard Item No.	MFG #	Safety Item No.	MFG #	Table Slot A	Thread	B	C	Overall Length	Overall Height
Steel - Threaded									
TN-9	**41485T**	**TN-109**	41485	7/8	3/4-10	1 1/2	5/8	1 1/2	1
TN-12	**41490T**	**TN-112**	41490	1 1/16	7/8-9	1 3/4	3/4	1 1/2	1 1/2
TN-17	**41491T**	**TN-117**	41491	1 1/8	1-8	1 3/4	3/4	1 3/4	1 1/2
TN-13	**41488T**	**TN-113**	41488	1	7/8-9	1 3/4	3/4	1 1/2	1 1/2
TN-11	**41489T**	—		1 1/8	7/8-9	1 3/4	3/4	1 1/2	1 1/2
Stainless Steel - Threaded									
—	—	**TN-200**	TN-0SS	.343	5/16-18	5/8	7/32	3/4	13/32
—	—	**TN-205**	TN-00SS	.418	5/16-18	11/16	1/4	11/16	3/8
—	—	**TN-210**	TN-05SS	.430	3/8-16	3/4	7/32	1	1/2
—	—	**TN-215**	TN-10SS	.490	3/8-16	7/8	1/4	7/8	5/8
—	—	**TN-220**	TN-15SS	.543	3/8-16	7/8	5/16	1 1/4	5/8
—	—	**TN-225**	TN-20SS	.555	1/2-13	7/8	11/32	1 1/4	3/4
—	—	**TN-240**	TN-22SS	.625	1/2-13	1	3/8	1 1/4	3/4
—	—	**TN-250**	TN-21SS	.665	1/2-13	1 1/8	13/32	1 1/4	3/4
—	—	**TN-260**	TN-3SS	.687	5/8-11	1 1/4	15/32	1 1/2	1
—	—	**TN-265**	TN-31SS	.780	5/8-11	1 1/4	17/32	1 1/2	1
—	—	**TN-270**	TN-40SS	.800	3/4-10	1 3/8	17/32	1 3/4	1 3/8
—	—	**TN-280**	TN-4SS	.968	3/4-10	1 5/8	9/16	1 3/4	1

*Designed for Bridgeport mills

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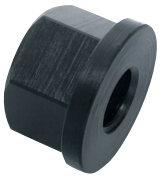
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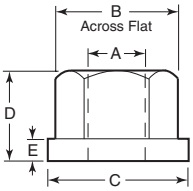
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NUTS

Collar or Flange Nuts
Steel and Stainless Steel

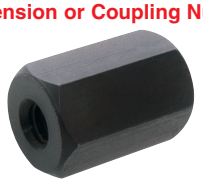




Contact surface of flange is flat. Steel type are made from cold finished steel, case hardened with black oxide finish. Stainless is Type 303. Metric are tempered, tensile strength Class 10. Metric dimensions are in millimeters.

Steel Item No.	MFG #	Stainless Item No.	MFG #	A	B	C	D	E
Inch								
FNC-1	15001	**FNC-101**	CN-0SS	¼-20	½	⅝	5/16	3/32
FNC-1F	15101	—		¼-28	½	⅝	5/16	3/32
FNC-2	15002	**FNC-102**	CN-00SS	5/16-18	9/16	¾	⅜	3/32
FNC-2F	15102	**FNC-102F**	CN-105SS	5/16-24	9/16	¾	⅜	3/32
FNC-3	15003	**FNC-103**	CN-10SS	⅜-16	11/16	⅞	½	⅛
FNC-3F	15103	**FNC-103F**	CN-110SS	⅜-24	11/16	⅞	½	⅛
FNC-4	15004	—		7/16-14	¾	1	9/16	5/32
FNC-4F	15104	—		7/16-20	¾	1	9/16	5/32
FNC-5	15005	**FNC-105**	CN-20SS	½-13	⅞	1⅛	11/16	5/32
FNC-5F	15105	**FNC-105F**	CN-120SS	½-20	⅞	1⅛	11/16	5/32
FNC-6	15006	**FNC-106**	CN-30SS	⅝-11	1 1/16	1⅜	13/16	3/16
FNC-6F	15106	**FNC-106F**	CN-130SS	⅝-18	1 1/16	1⅜	13/16	3/16
FNC-7	15007	**FNC-107**	CN-40SS	¾-10	1¼	1⅝	1	¼
FNC-7F	15107	—		¾-16	1¼	1⅝	1	¼
FNC-8	15008	—		⅞-9	1 7/16	1¾	1⅛	¼
FNC-8F	15108	—		⅞-14	1 7/16	1¾	1⅛	¼
FNC-9	15009	—		1-8	1⅝	2	1¼	¼
FNC-9F	15109	—		1-14	1⅝	2	1¼	¼
FNC-10	CN-70	—		1⅛-7	1 13/16	2¼	1¼	¼
FNC-11	15011	—		1¼-7	1⅞	2¼	1¼	¼
FNC-11F	CN-180	—		1¼-12	1 13/16	2¼	1¼	¼
Metric								
FNC-15	82529	—		M6 x 1.00	10	14	9	3.0
FNC-20	82537	—		M8 x 1.25	13	18	12	3.5
FNC-25	82545	—		M10 x 1.50	17	22	15	4.0
FNC-30	82552	—		M12 x 1.75	19	25	18	4.0
FNC-35	82578	—		M16 x 2.00	24	31	24	5.0
FNC-40	82594	—		M20 x 2.50	30	37	30	6.0
FNC-45		—		M24 x 3.00	36	45	36	6.0

Extension or Coupling Nuts



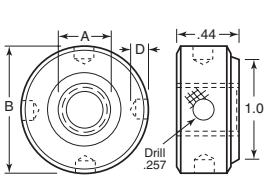
Cold finished steel. Used for setting up work on machine tools. Case hardened, black oxide finish. Hex Size (Width) is measured across flats.

Item No.	Hex Size Across Flats	Thread Size	Overall Length	Item No.		Hex Size Across Flats	Thread Size	Overall Length
Inch				**Metric**				
CN-0	9/16	¼-20	⅞	**CN-20**	**82651**	11.5	M6 x 1.00	18
CN-1	9/16	5/16-18	⅞	**CN-25**	**82669**	15.0	M8 x 1.25	24
CN-2	11/16	⅜-16	1⅛	**CN-30**	**82677**	19.6	M10 x 1.50	30
CN-3	⅞	½-13	1½	**CN-35**	**82685**	21.9	M12 x 1.75	36
CN-4	1 1/16	⅝-11	1¾	**CN-50**	**82727**	34.6	M20 x 2.50	60
CN-5	1¼	¾-10	2					
CN-6	1⅜	⅞-9	2¼					
CN-7	1½	1-8	2½					

Note: Inch hex size is across flat sides. Metric hex size is point-to-point.

Knurled Nuts



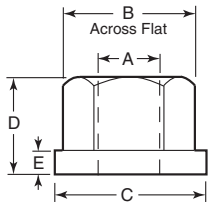


Knurled nuts are made of hardened steel. Black oxide finish. Used extensively in the construction of jigs, fixtures and other special tooling.

Item No.	MFG #	A	B	D
KN-1	**RDN-1**	⅜-16	1⅛	7/32
KN-2	**RDN-2**	½-13	1⅛	7/32
KN-3	**RDN-3**	⅝-11	1⅜	¼

Swivel Flange Nuts





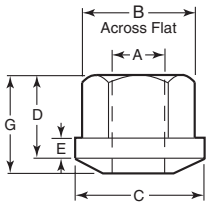
Holds firmly without marring the workpiece. Head rotates but washer remains stationary upon contact. Case hardened steel. Black oxide finish.

Item No.	A	B	C	D	E
SFN-1	¼-20	½		⅜	⅛
SFN-2	5/16-18	9/16	¾	7/16	9/64
SFN-3	⅜-16	11/16	⅞	17/32	5/32
SFN-4	½-13	⅞	1⅛	23/32	7/32
SFN-5	⅝-11	1 1/16	1⅜	29/32	¼
SFN-6	¾-10	1¼	1⅝	1 1/64	9/32
SFN-7	⅞-9	1 7/16	1¾	1⅛	7/16
SFN-8	1-8	1⅝	2	1 15/64	15/32

Sperical Collar Nuts







Nut **Washer**

Made of cold finished steel and case hardened. Black oxide finish. The radius on spherical collar nuts fits the radius of the lower half of the corresponding size spherical washers.

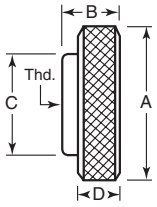
See page 266 for spherical washers.

Nut Item No.	MFG#	A	B	C	D	E	G	Washer Item No.
FNS-1	**15201**	¼-20	½	⅝	5/16	1/16	.354	**SPW-1B**
FNS-2	**15202**	5/16-18	9/16	¾	⅜	3/32	.434	**SPW-2B**
FNS-3	**15203**	⅜-16	11/16	15/16	½	3/32	.574	**SPW-3B**
FNS-5	**15205**	½-13	⅞	1⅛	11/16	5/32	.688	**SPW-4B**
FNS-6	**15206**	⅝-11	1 1/16	1⅜	13/16	3/16	.923	**SPW-5B**
FNS-7	**15207**	¾-10	1¼	1⅝	1	¼	1.133	**SPW-6B**
FNS-8	**15208**	⅞-9	1 7/16	1⅞	1⅛	¼	1.263	**SPW-7B**
FNS-9	**15209**	1-8	1⅝	2	1¼	¼	1.386	**SPW-8B**

Check Nuts
Steel and Stainless Steel



Steel



Check nuts can be used in conjunction with many other components such as knurled head screws, torque thumb screws, hand knob assemblies, toggle shoe clamp assemblies and many other tooling applications. Steel are made of low carbon steel, soft, black oxide finish. Stainless are made of Type 303.

Steel Item No.	Stainless Item No.	A	B	C	D	Thread
V-0	—	¾	7/32	½	5/32	10-24
V-1	**VS-1**	¾	7/32	½	5/32	10-32
V-2	**VS-2**	¾	7/32	½	5/32	¼-20
V-3	**VS-3**	¾	5/16	½	¼	5/16-18
V-4	**VS-4**	¾	5/16	½	¼	⅜-16
V-5	**VS-5**	1	⅜	¾	¼	½-13
V-6	—	1	⅜	¾	¼	⅝-11

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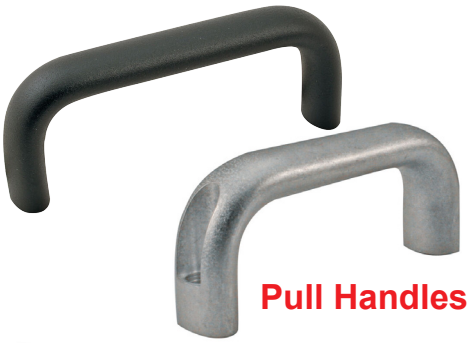
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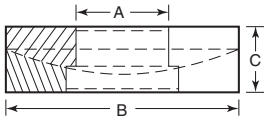


Hand and Star Knobs

SPHERICAL WASHERS

Two-Piece Spherical Washers
Steel and Stainless Steel
Reid Select





Precision machined and all sharp corners removed. Tops and bottoms are available separately. To order add a "T" or "B" part number. They are priced at one half the cost of a pair. Steel washers are made of cold finished steel and case hardened. Black oxide finish. Stainless are made from Type 303 stainless steel.

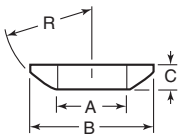
Steel Item No.	Stainless Item No.	Bolt Size	+/- .015 A	+/- .015 B	+/- .015 C
SPW-1	SSPW-1	1/4	9/32	5/8	3/16
SPW-2	SSPW-2	5/16	11/32	13/16	1/4
SPW-3	SSPW-3	3/8	13/32	15/16	1/4
SPW-4	SSPW-4	1/2	17/32	1 3/16	5/16
SPW-5	SSPW-5	5/8	21/32	1 3/8	5/16
SPW-6	SSPW-6	3/4	25/32	1 5/8	3/8
SPW-7	SSPW-7	7/8	15/16	1 7/8	3/8
SPW-8	SSPW-8	1	1 1/16	2	1/2
SPW-9	—	1 1/8	1 3/16	2 1/4	1/2
SPW-10	—	1 1/4	1 5/16	2 5/8	1/2
SPW-11	—	1 1/2	1 9/16	2 7/8	9/16
SPW-12	—	1 5/8	1 11/16	3 1/4	1 1/16
SPW-13	—	1 3/4	1 13/16	3 1/4	1 1/16
SPW-14	—	2	2 1/16	3 3/8	3/4

Two-Piece Spherical Washers
Steel
Metric

AMF



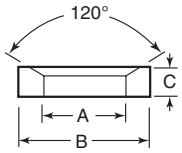
Top



Item No.	MFG #	Bolt Size	A	B	C	R
Top						
AMF-186	81828	M6	6.4	12	2.3	9
AMF-187	81737	M8	8.4	17	3.2	12
AMF-188	81745	M10	10.5	21	4.0	15
AMF-189	81752	M12	13.0	24	4.6	17
AMF-190	81778	M16	17.0	30	5.3	22
AMF-191	81786	M20	21.0	36	6.3	27
AMF-192	81794	M24	25.0	44	8.2	32



Bottom

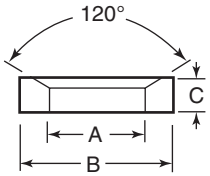


Item No.	MFG #	Bolt Size	A	B	C	R
Bottom						
AMF-193	81950	M6	7.1	12	2.8	—
AMF-194	81869	M8	9.6	17	3.5	—
AMF-195	81877	M10	12.0	21	4.2	—
AMF-196	81885	M12	14.2	24	5.0	—
AMF-197	81901	M16	19.0	30	6.2	—
AMF-198	81919	M20	23.2	36	7.5	—
AMF-199	81927	M24	28.0	44	9.5	—

Heavy Duty Dished Washers
Steel
Metric

AMF





Punched, gauged and tempered. Similar to the washer bottoms shown above, but are designed for use on elongated holes. Dimensions are in millimeters.

Item No.	MFG #	Bolt Size	A	B	C
AMF-200	82073	M6	7.1	17	4
AMF-201	81984	M8	9.6	23	4
AMF-202	81992	M10	12.0	30	5
AMF-203	82008	M12	14.2	35	5
AMF-204	82024	M16	19.0	45	6
AMF-205	82032	M20	23.2	50	8
AMF-206	82040	M24	28.0	60	10

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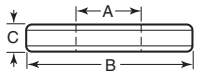
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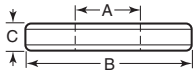
Steel Item No.	Stainless Item No.	Bolt Size	A	B	C
FW-1	SFW-1	1/4	17/64	11/16	3/16
FW-2	SFW-2	5/16	11/32	13/16	3/16
FW-3	SFW-3	3/8	25/64	15/16	3/16
FW-4	SFW-4	1/2	17/32	1 1/8	3/16
FW-5	SFW-5	5/8	21/32	1 3/8	3/16
FW-6	SFW-6	3/4	25/32	1 5/8	1/4
FW-7	SFW-7	7/8	29/32	1 3/4	1/4
FW-8	SFW-8	1	1 1/32	2	1/4

Steel washers are made of cold finished steel and case hardened. Black oxide finish. All are machined flat and parallel. Stainless are made from Type 303 stainless steel.

Heavy Duty Stamped Flat Washers Steel

Reid Select





Precision fine blanked washer. Heat treated, black oxide finish. Available in steel only. Tolerance: I.D. +/-.010", OD, thickness and flatness is .005" maximum on the inch only. Metric are tempered to 1200-1400N/mm2 tensile strength. Metric dimensions are in millimeters.

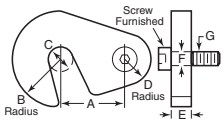
Item No.	MFG #	Bolt Size	A	B	C
Inch					
EW-10	16000	3/16	13/64	1/2	3/32
EW-20	16001	1/4	9/32	5/8	1/8
EW-30	16002	5/16	11/32	3/4	1/8
EW-40	16003	3/8	13/32	7/8	1/8
EW-50	16103	3/8	13/32	7/8	3/16
EW-60	16004	7/16	15/32	1	1/8
EW-70	16005	1/2	17/32	1 1/8	1/8
EW-80	81099	1/2	17/32	1 1/8	3/16
EW-90	16006	5/8	21/32	1 3/8	1/8
EW-100	16106	5/8	21/32	1 3/8	3/16
EW-110	16007	3/4	25/32	1 5/8	5/32
EW-120	16107	3/4	25/32	1 5/8	1/4
EW-130	16008	7/8	29/32	1 3/4	5/32
EW-140	16009	1	1 1/32	2	3/16

Item No.	MFG #	Bolt Size	A	B	C
Metric					
EW-210	82818	M6	6.4	17	3
EW-215	82826	M8	8.4	23	4
EW-220	82834	M10	10.5	28	4
EW-225	82842	M12	13	35	5
EW-230	82867	M16	17	45	6
EW-235	82883	M20	21	50	6
EW-240	82909	M24	25	60	8

Swing C-Washers

JW Winco





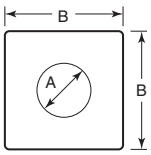
Cold finished steel, hardened and ground. Black oxide finish.

Item No.	MFG#	A	B	C	D	E	F	G
SCW-1	MSW-1 **WITH SCREW**	1	3/4	13/32	3/8	1/4	5/16	1/4-20
SCW-2	MSW-2 **WITH SCREW**	1 1/4	1	17/32	1/2	3/8	3/8	5/16-18
SCW-3	MSW-3 **WITH SCREW**	1 1/2	1 1/8	21/32	9/16	3/8	1/2	3/8-16
SCW-4	MSW-4	1 3/4	1 1/4	25/32	5/8	1/2	1/2	3/8-16

Heavy Duty Square Flat Washers Steel and Stainless Steel

Reid Select





Provides more surface area contact than round washers. Used for shimming machinery, construction applications and anywhere an extra large washer is needed. Steel washers are made from 1018 steel and case hardened with a black zinc finish. Stainless steel washers are made from Type 304 stainless steel.

Item No.	MFG#	Bolt Size	A	B	Thickness
Steel					
JSW-32	31932	1/2	17/32	1 3/8	1/4
JSW-33	31933	1/2	17/32	2	1/4
JSW-34	31934	5/8	21/32	2	1/4
JSW-35	31935	3/4	13/16	2	1/4
JSW-36	31936	3/4	13/16	2 1/2	1/4
JSW-37	31937	1	1 1/16	2 1/2	1/4
Stainless					
ASFW-25	Z8952SS	3/8	7/16	2	1/4
ASFW-30	Z8954SS	1/2	9/16	2	1/4
ASFW-35	Z8956SS	5/8	11/16	2	1/4

CLAMPING KITS & ROD ENDS

Machinist Clamping Kit
1" Step Blocks



See pages 202, 262 and 270 for exact dimensions of the individual studs, T-nuts, clamps and blocks.

Item No.	Stud Size	Table Slot	T-Nut Part No.	Step Clamp Part No.	Step Blocks Part No.
DCK-1	3/8-16	7/16	TN-2	CS-1, CS-2, CS-3	1-S, 2-S, 3-S
DCK-2	3/8-16	1/2	TN-3	CS-1, CS-2, CS-3	1-S, 2-S, 3-S
DCK-4	1/2-13	9/16	TN-4	CS-4, CS-5, CS-6	1-S, 2-S, 3-S
DCK-5	1/2-13	5/8	TN-5	CS-4, CS-5, CS-6	1-S, 2-S, 3-S
DCK-7	5/8-11	11/16	TN-6	CS-7, CS-8, CS-9	1-S, 2-S, 3-S
DCK-8	5/8-11	3/4	TN-7	CS-7, CS-8, CS-9	1-S, 2-S, 3-S

Contains 57 pieces in a strong metal holder that can be mounted or can stand on a bench.

Kit includes:

- Six T-slot nuts
- Twenty-four studs - four each of 3", 4", 5", 6", 7" and 8" lengths
- Four flange nuts
- Four coupling nuts
- Twelve step blocks
- Six step clamps
- One T-slot cleaner
- One metal stand

Forged Rod Ends
Steel and Stainless Steel

Chicago Hardware



Blank

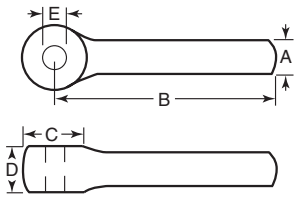


Milled and Drilled



Milled, Drilled and Threaded

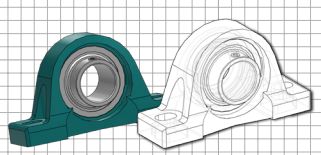
Blank Item No.	Blank MFG #	Milled & Drilled Item No.	Milled & Drilled MFG #	Milled, Drilled & Threaded Item No.	Milled, Drilled & Threaded MFG #	Thread	Thread Length	Hole ID E	A	B	C	D
Steel												
WB-1	18005 4	WM-1	—	WMT-1	—	1/4-20	2	1/4	1/4	3	1/2	9/32
WB-2	18010 8	—	—	WMT-2	—	1/4-20	3	5/16	1/4	6	1/2	9/32
WB-3	18015 3	—	—	WMT-3	—	5/16-18	2	3/8	5/16	3	5/8	11/32
WB-4	18020 7	WM-4	—	WMT-4	—	5/16-18	3	3/8	5/16	6	5/8	11/32
WB-5	18025 2	WM-5	—	WMT-5	—	3/8-16	1 1/2	3/8	3/8	2 1/8	11/16	3/8
WB-6	18030 6	WM-6	—	WMT-6	—	3/8-16	1 3/4	3/8	3/8	2 1/2	3/4	3/8
WB-7	18040 5	WM-7	—	WMT-7	—	3/8-16	3	3/8	3/8	6	3/4	7/16
WB-8	18045 0	WM-8	—	WMT-8	—	7/16-14	3	7/16	7/16	6	7/8	1/2
WB-9	18055 9	WM-9	—	WMT-9	—	1/2-13	2	1/2	1/2	3 1/8	15/16	9/16
WB-10	18060 3	WM-10	—	WMT-10	—	1/2-13	2 1/2	1/2	1/2	3 1/2	1	9/16
WB-11	18065 8	WM-11	—	WMT-11	—	1/2-13	3	1/2	1/2	6	1	9/16
WB-12	18075 7	WM-12	—	WMT-12	—	5/8-11	2	5/8	5/8	3	1 1/4	11/16
WB-13	18090 0	WM-13	—	WMT-13	—	5/8-11	3 1/2	5/8	5/8	8	1 1/4	11/16
WB-13A	18095 5	WM-13A	—	WMT-13A	—	5/8-11	4	5/8	5/8	10	1 1/4	11/16
WB-14	18105 1	WM-14	—	WMT-14	—	3/4-10	3	3/4	3/4	6	1 1/2	13/16
WB-14A	18110 5	WM-14A	—	WMT-14A	—	3/4-10	4	3/4	3/4	10	1 1/2	13/16
WB-15	18115 0	—	—	WMT-15	—	7/8-9	3	7/8	7/8	6	1 3/4	15/16
WB-15A	18120 4	WM-15A	—	WMT-15A	—	7/8-9	4 1/2	7/8	7/8	12	1 3/4	15/16
WB-16	18125 9	WM-16	—	WMT-16	—	1-8	3	1	1	6	2	1 1/16
WB-16A	18130 3	WM-16A	—	WMT-16A	—	1-8	3 1/2	1	1	12	2	1 1/16
Stainless												
WBS-38	18563 9	—		—		—	—	—	3/8	6	3/4	7/16
WBS-50	18565 3	—		—		—	—	—	1/2	6	1	9/16
WBS-75	18605 6	—		—		—	—	—	3/4	6	1 1/2	1 3/16
WBS-88	18615 5	—		—		—	—	—	7/8	6	1 3/4	1 5/16

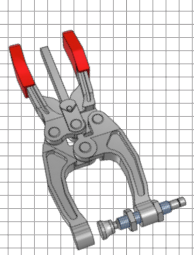


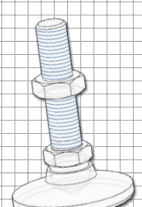
The steel rod ends are a quality drop forged part with the average properties of C-1035 natural hot rolled steel. 75,000 to 85,000 lbs. psi tensile, 40,000 to 55,000 lbs. psi yield. They are supplied three ways: blank, milled and drilled or threaded. The stainless rod ends are made from forged Type 316 stainless steel.

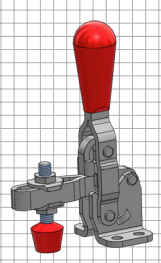
Note: Head Thickness (D dimension) is for blank only. Milled and drilled and threaded D dimension will be slightly undersized.

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FREE TO SELECT AND DOWNLOAD ON DEMAND

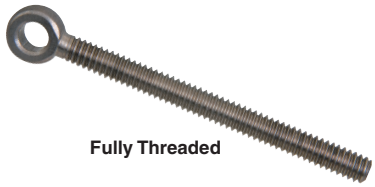
OVER 150 CAD FILE FORMATS WITH 3-D PDF PORTABLE DATA SHEETS

Swing Eye bolts
Partially or Fully Threaded
Steel or Stainless Steel

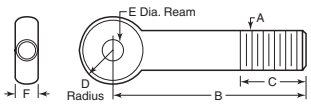
Valtra



Partially Threaded



Fully Threaded



Made of heat-treated alloy (125,000 psi) steel with black oxide finish or Type 300 series stainless steel. Have many applications in the construction of machinery, jigs, fixtures and other tooling. Fully threaded eye bolts allow you to shorten the shank without sacrificing thread length. Metric dimensions are in millimeters.

Item No.	MFG #	A	B	C	D	+.001/+.003 E	F
Steel - Partially Threaded - Inch							
EB-1	832400	¼-20	2	¾	¼	3/16	¼
EB-11	832402	¼-20	3	1¼	¼	3/16	¼
EB-285	832C2040	¼-20	4	¾	¼	3/16	¼
EB-5	832404	5/16-18	3	1½	5/16	¼	5/16
EB-52	832408	5/16-18	3	1½	5/16	5/16	5/16
EB-51	832406	5/16-18	4	2	5/16	¼	5/16
EB-53	832410	5/16-18	4	2	5/16	5/16	5/16
EB-22	832412	⅜-16	3	1½	⅜	5/16	⅜
EB-24	832416	⅜-16	3	1½	⅜	⅜	⅜
EB-2	832420	⅜-16	3¾	1½	⅜	⅜	½
EB-25	832417	⅜-16	3¾	2	⅜	⅜	⅜
EB-290	832C4040	⅜-16	4	1½	⅜	⅜	⅜
EB-23	832414	⅜-16	5	2½	⅜	5/16	⅜
EB-26	832418	⅜-16	5	2½	⅜	⅜	⅜
EB-21	832422	⅜-16	5	2½	½	⅜	½
EB-3	832424	½-13	3¾	1½	½	⅜	½
EB-31	832426	½-13	5	2	½	⅜	½
EB-295	832C5060	½-13	6	1½	½	⅜	½
EB-4	832428	⅝-11	4½	2	⅝	⅝	⅝
EB-41	832430	⅝-11	6	2½	⅝	⅝	⅝
EB-300	832C6070	⅝-11	7	1¾	⅝	⅝	⅝
EB-305	832C6080	⅝-11	8	1¾	⅝	⅝	⅝
EB-6	832432	¾-10	4½	2	¾	¾	¾
EB-61	832434	¾-10	6	2½	¾	¾	¾
EB-310	832C7070	¾-10	7	1¾	¾	⅝	¾
EB-315	832C7080	¾-10	8	1¾	¾	⅝	¾
Steel - Fully Threaded - Inch							
EB-250*	832403	¼-20	3	2⅝	¼	3/16	¼
EB-255*	832411	5/16-18	4	3½	5/16	5/16	5/16
EB-260*	832419	⅜-16	5	4½	⅜	⅜	⅜
EB-265*	832427	½-13	5	4½	½	⅜	½
EB-270*	832431	⅝-11	6	5¼	⅝	⅝	⅝
EB-275*	832435	¾-10	6	5¼	¾	¾	¾
EB-280*	832C1010	1-8	10	9	1	⅝	1
Steel - Partially Threaded - Metric							
MEB-50	832M06-050	M6 x 1.0	50	40	6	6	6
MEB-55	832M06-075	M6 x 1.0	75	66	6	6	6
MEB-60	832M08-075	M8 x 1.25	75	65	8	8	8

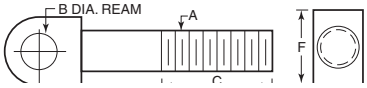
Item No.	MFG #	A	B	C	D	+.001/+.003 E	F
Steel - Partially Threaded - Metric							
MEB-65	832M08-100	M8 x 1.25	100	90	8	8	8
MEB-70	832M10-075	M10 x 1.5	75	60	10	10	10
MEB-75	832M10-100	M10 x 1.5	100	85	10	10	10
MEB-80	832M10-125	M10 x 1.5	125	110	10	10	10
MEB-85	832M12-100	M12 x 1.75	100	85	12	12	12
MEB-90	832M12-125	M12 x 1.75	125	110	12	12	12
MEB-95	832M16-115	M16 x 2.0	115	95	16	16	16
MEB-100	832M16-150	M16 x 2.0	150	130	16	16	16
MEB-105	832M20-150	M20 x 2.5	150	125	20	20	20
Stainless Steel - Partially Threaded - Inch							
EB-100	EB-0SS	¼-20	2⅛	⅞	¼	3/16	¼
EB-105	EB-05SS	¼-20	2⅛	⅞	¼	¼	¼
EB-110	EB-020SS	¼-20	3	1¼	¼	¼	¼
EB-115	EB-050SS	5/16-18	3½	1½	5/16	¼	5/16
EB-120	EB-060SS	5/16-18	3½	1½	5/16	5/16	5/16
EB-125	EB-061SS	5/16-18	4	2	5/16	¼	5/16
EB-155	832S4030	⅜-16	3	1½	⅜	⅜	⅜
EB-130	EB-080SS	⅜-16	3½	1½	⅜	⅜	⅜
EB-135	EB-100SS	⅜-16	3¾	2	⅜	⅜	⅜
EB-160	832S4040	⅜-16	4	1½	⅜	⅜	⅜
EB-140	EB-102SS	⅜-16	5	2½	⅜	⅜	⅜
EB-145	EB-5SS	½-13	3¾	1½	½	½	½
EB-165	832S5040	½-13	4	1½	½	⅜	½
EB-170	832S5050	½-13	5	1½	½	⅜	½
EB-150	EB-15SS	½-13	5	2	½	½	½
EB-175	832S5060	½-13	6	1½	½	⅜	½
EB-180	832S6050	⅝-11	5	1¾	⅝	⅝	⅝
EB-185	832S6060	⅝-11	6	1¾	⅝	⅝	⅝
EB-195	832S6080	⅝-11	8	1¾	⅝	⅝	⅝
EB-200	832S7150	¾-10	5	1¾	¾	¾	¾
EB-205	832S7160	¾-10	6	1¾	¾	¾	¾
Stainless Steel - Fully Threaded - Inch							
EB-220*	832SF2030	¼-20	3	2½	¼	¼	¼
EB-225*	832SF3040	5/16-18	4	3½	5/16	5/16	5/16
EB-230*	832SF4050	⅜-16	5	4½	⅜	⅜	⅜
EB-235*	832SF5050	½-13	5	4¼	½	½	½
EB-240*	832SF6060	⅝-11	6	5¼	⅝	⅝	⅝
EB-245*	832SF7060	¾-10	6	5⅛	¾	¾	¾

*Fully Threaded
Note: Diameter E metric tolerance is +.025mm/+.075mm

Swing or Latch Bolts

Northwestern Tools





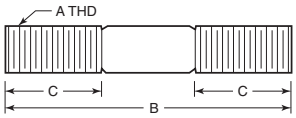
Available in steel and stainless steel. Steel are made of cold finished steel and case hardened. Black oxide finish. Stainless are made from Type 18-8 stainless steel.

Steel Item No.	MFG #	Stainless Item No.	MFG #	A	B	C	D	E	F	G
SWB-4	21001	**SWB-4S**	SWB-01SS	¼-20	¼	¾	1 3/16	5/16	½	5/16
SWB-4L	21101	**SWB-4LS**	43022	¼-20	¼	1¼	2 3/16	5/16	½	5/16
SWB-5	21002	**SWB-5S**	SWB-03SS	5/16-18	5/16	1	1⅝	⅜	⅝	⅜
SWB-5L	21102	**SWB-5LS**	SWB-04SS	5/16-18	5/16	1⅜	2⅜	⅜	⅝	⅜
SWB-1	21003	**SWB-1S**	SWB-1SS	⅜-16	⅜	1⅜	2	½	¾	½
SWB-1L	21103	**SWB-1LS**	SWB-10SS	⅜-16	⅜	2	3	½	¾	½
SWB-2	21004	**SWB-2S**	SWB-2SS	½-13	½	1⅝	2½	⅝	1	⅝
SWB-2L	21104	**SWB-2LS**	SWB-20SS	½-13	½	2¼	3½	⅝	1	⅝
SWB-3	21005	**SWB-3S**	SWB-3SS	⅝-11	⅝	1¾	2¾	¾	1¼	¾
SWB-3L	21105	**SWB-3LS**	SWB-30SS	⅝-11	⅝	2½	4	¾	1¼	¾

SETUP STUDS

Standard Style
Steel and Stainless Steel
Inch
Northwestern





The steel inch studs are made of stress proof steel to ASTMA 311 class B. Yield strength is 100,000 psi, tensile strength is 125,000 psi. Stainless studs are made from Type 303. The metric studs are made of steel with rolled threads. Sizes M6-M12 are heat treated to strength Class 10.9. Sizes M16-M24 are heat treated to Class 8.8. All Steel studs are black oxide finish.

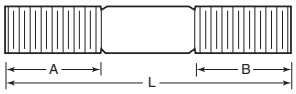
Steel Item No.	Steel MFG #	Stainless Item No.	Stainless MFG #	Thread A	B	C
SUS-70	38004	SUS-270	1/4 X 3SS	¼-20	3	1
SUS-71	38006	—	—	¼-20	4	1
SUS-72	--	—	—	¼-20	5	1¼
SUS-1	38104	SUS-201	5/16 X 3SS	5⁄16-18	3	1⅛
SUS-2	38106	SUS-202	5/16" X 4SS	5⁄16-18	4	1⅛
SUS-3	38108	—	—	5⁄16-18	5	1⅛
SUS-4	38110	—	—	5⁄16-18	6	1⅛
SUS-5	38112	—	—	5⁄16-18	7	1⅛
SUS-6	38114	—	—	5⁄16-18	8	1⅛
SUS-7	38204	SUS-207	3/8 X 3SS	⅜-16	3	1¼
SUS-8	38206	SUS-208	3/8 X 4SS	⅜-16	4	1¼
SUS-9	38208	SUS-209	3/8 X 5SS	⅜-16	5	1¼
SUS-10	38210	—	—	⅜-16	6	1¼
SUS-11	38212	—	—	⅜-16	7	1¼
SUS-12	38214	SUS-212	3/8 X 8SS	⅜-16	8	1¼
SUS-13	38404	—	—	½-13	3	1½
SUS-14	38406	SUS-214	1/2 X 4SS	½-13	4	1½
SUS-15	38408	SUS-215	1/2 X 5SS	½-13	5	1½
SUS-16	38410	SUS-216	1/2 X 6SS	½-13	6	1½
SUS-17	38412	—	—	½-13	7	1½
SUS-18	38414	—	—	½-13	8	1½
SUS-19	38415	—	—	½-13	9	2
SUS-20	38416	—	—	½-13	10	2
SUS-21	38417	—	—	½-13	12	2
SUS-22	38418	—	—	½-13	14	2
SUS-23*	38504	—	—	⅝-11	3	1¾
SUS-24	38506	SUS-224	5/8 X 4SS	⅝-11	4	1¾
SUS-25	38508	SUS-225	5/8 X 5SS	⅝-11	5	1¾
SUS-26	38510	SUS-226	5/8 X 6SS	⅝-11	6	1¾
SUS-27	38512	—	—	⅝-11	7	1¾
SUS-28	38514	—	—	⅝-11	8	1¾
SUS-29	38515	—	—	⅝-11	9	2
SUS-30	38516	—	—	⅝-11	10	2

Steel Item No.	Steel MFG #	Thread A	B	C
SUS-31	38517	⅝-11	12	2
SUS-32	38518	⅝-11	14	2
SUS-34	38601	¾-10	3	2
SUS-35	38603	¾-10	4	2
SUS-36	38605	¾-10	5	2
SUS-37	38607	¾-10	6	2
SUS-38	38609	¾-10	7	2
SUS-39	38611	¾-10	8	2
SUS-40	38612	¾-10	9	2
SUS-41	38613	¾-10	10	2
SUS-42	38614	¾-10	12	2
SUS-43	38615	¾-10	14	2
SUS-44	38616	¾-10	16	2
SUS-46*	38703	⅞-9	4	2¼
SUS-47	38705	⅞-9	5	2¼
SUS-48	38707	⅞-9	6	2¼
SUS-49	38709	⅞-9	7	2¼
SUS-50	38711	⅞-9	8	2¼
SUS-51	38712	⅞-9	9	2¼
SUS-52	38713	⅞-9	10	2¼
SUS-53	38714	⅞-9	12	2¼
SUS-54	38715	⅞-9	14	2¼
SUS-55	38716	⅞-9	16	2¼
SUS-57	38803	1-8	4	2½
SUS-58	38805	1-8	5	2½
SUS-59	38807	1-8	6	2½
SUS-60	38809	1-8	7	2½
SUS-61	38811	1-8	8	2½
SUS-62	38812	1-8	9	2½
SUS-63	38813	1-8	10	2½
SUS-64	38814	1-8	12	2½
SUS-65	38815	1-8	14	2½

*Studs too short for given thread lengths are threaded as close to center as possible.

Standard Style
Steel
Metric
Northwestern





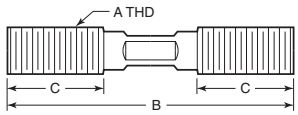
The steel inch studs are made of stress proof steel to ASTMA 311 class B. Yield strength is 100,000 psi, tensile strength is 125,000 psi. Stainless studs are made from Type 303. The metric studs are made of steel with rolled threads. Sizes M6-M12 are heat treated to strength Class 10.9. Sizes M16-M24 are heat treated to Class 8.8. All Steel studs are black oxide finish. Metric dimensions are in millimeters.

Item No.	MFG#	Thread	L	A	B
SUS-300	84772	M6 x 1.0	32	9	16
SUS-305	86546	M6 x 1.0	40	9	20
SUS-310	84780	M6 x 1.0	50	9	30
SUS-103	85522	M6 x 1.0	63	9	40
SUS-104	84798	M6 x 1.0	80	9	50
SUS-315	81257	M8 x 1.25	40	11	20
SUS-106	84806	M8 x 1.25	63	11	40
SUS-320	81273	M8 x 1.25	80	11	50
SUS-108	84814	M8 x 1.25	100	11	63
SUS-325	84756	M8 x 1.25	125	11	75
SUS-109	84822	M8 x 1.25	160	11	100
SUS-330	81299	M10 x 1.5	50	13	25
SUS-111	84830	M10 x 1.5	80	13	50
SUS-112	86041	M10 x 1.5	100	13	75
SUS-114	85928	M10 x 1.5	160	13	100
SUS-340	84855	M12 x 1.75	50	15	25

Item No.	MFG#	Thread	L	A	B
SUS-345	81331	M12 x 1.75	63	15	32
SUS-118	84863	M12 x 1.75	80	15	50
SUS-119	81349	M12 x 1.75	100	15	63
SUS-120	84871	M12 x 1.75	125	15	75
SUS-355	84905	M16 x 2.0	63	19	32
SUS-121	85480	M12 x 1.75	160	15	100
SUS-350	84889	M12 x 1.75	200	15	125
SUS-365	84913	M16 x 2.0	100	19	63
SUS-131	81422	M16 x 2.0	125	19	75
SUS-132	84921	M16 x 2.0	160	19	100
SUS-133	85498	M16 x 2.0	200	19	125
SUS-370	84939	M16 x 2.0	250	19	160
SUS-375	85548	M16 x 2.0	315	19	180
SUS-380	84970	M20 x 2.5	80	27	32
SUS-400	85001	M20 x 2.5	500	27	315
SUS-410	85563	M24 x 3.0	125	35	70

Driver Style
Steel
Inch
Northwestern





Item No.	MFG #	Thread A	B	C
SUS-504	40504	⅜-16	3	1
SUS-505	40505	⅜-16	3½	1¼
SUS-506	40506	⅜-16	4	1¼
SUS-507	40507	⅜-16	4½	1¼
SUS-508	40508	⅜-16	5	1¼
SUS-509	40509	⅜-16	5½	1¼
SUS-510	40510	⅜-16	6	1¼
SUS-514	40514	⅜-16	8	1¼
SUS-704	40704	½-13	3	1
SUS-705	40705	½-13	3½	1¼
SUS-706	40706	½-13	4	1½
SUS-707	40707	½-13	4½	1½
SUS-708	40708	½-13	5	1½
SUS-709	40709	½-13	5½	1½
SUS-710	40710	½-13	6	1½

Item No.	MFG #	Thread A	B	C
SUS-809	40809	⅝-11	5½	1¾
SUS-810	40810	⅝-11	6	1¾
SUS-811	40811	⅝-11	6½	1¾
SUS-812	40812	⅝-11	7	1¾
SUS-814	40814	⅝-11	8	1¾
SUS-815	40815	⅝-11	9	1¾
SUS-816	40816	⅝-11	10	1¾
SUS-817	40817	⅝-11	12	1¾
SUS-818	40818	⅝-11	14	1¾
SUS-819	40819	⅝-11	16	1¾
SUS-820	40820	⅝-11	18	1¾
SUS-901	40901	¾-10	3	1
SUS-903	40903	¾-10	4	1½
SUS-905	40905	¾-10	5	2
SUS-906	40906	¾-10	5½	2

Made of medium carbon steel with black oxide finish. Tensile strength is 125,000 psi minimum. All studs have wrench flats.

Item No.	MFG #	Thread A	B	C
SUS-712	40712	½-13	7	1½
SUS-713	40713	½-13	7½	1½
SUS-714	40714	½-13	8	1½
SUS-715	40715	½-13	9	1½
SUS-716	40716	½-13	10	1½
SUS-717	40717	½-13	12	1½
SUS-804	40804	⅝-11	3	1
SUS-805	40805	⅝-11	3½	1¼
SUS-806	40806	⅝-11	4	1½
SUS-807	40807	⅝-11	4½	1¾
SUS-808	40808	⅝-11	5	1¾

Item No.	MFG #	Thread A	B	C
SUS-907	40907	¾-10	6	2
SUS-908	40908	¾-10	6½	2
SUS-909	40909	¾-10	7	2
SUS-911	40911	¾-10	8	2
SUS-912	40912	¾-10	9	2
SUS-914	40914	¾-10	12	2
SUS-915	40915	¾-10	14	2
SUS-916	40916	¾-10	16	2
SUS-917	40917	¾-10	18	2
SUS-920	40920	¾-10	24	2

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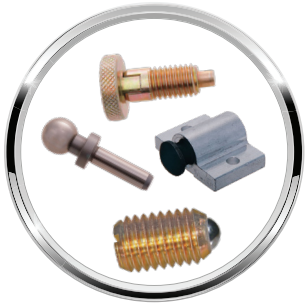
KNOBS HANDLES



LATCHES, CATCHES HINGES



ADJUSTABLE HANDLES



TOOLING & POSITIONING



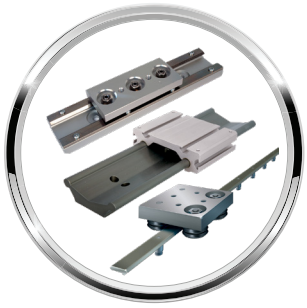
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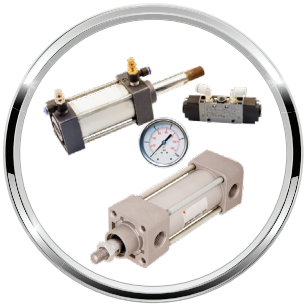
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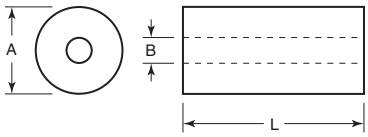
Neoprene Elastomer Springs

Tech Products Corp..

Item No.	MFG #	A	B	L	R	D	T
BES-3500	71612	.630	.25	15/32	436	.17	72
BES-3501	71616	.630	.25	5/8	353	.22	77
BES-3502	71620	.630	.25	25/32	292	.27	80
BES-3503	71625	.630	.25	1	236	.34	83
BES-3510	72016	.787	.33	5/8	610	.22	133
BES-3511	72020	.787	.33	25/32	482	.28	132
BES-3512	72025	.787	.33	1	381	.35	133
BES-3513	72032	.787	.33	1¼	287	.44	126
BES-3520	72520	1.000	.41	25/32	787	.28	215
BES-3521	72525	1.000	.41	1	598	.35	209
BES-3522	72532	1.000	.41	1¼	524	.44	229
BES-3523	72540	1.000	.41	1 9/16	440	.55	241
BES-3530	73232	1.250	.53	1¼	1,031	.44	451
BES-3531	73240	1.250	.53	1 37/64	828	.55	471
BES-3532	73250	1.250	.53	1 31/32	651	.69	456
BES-3533	73263	1.250	.53	2½	517	.87	452
BES-3540	74032	1.560	.53	1¼	1,790	.44	783
BES-3541	74040	1.560	.53	1 37/64	1,439	.55	816
BES-3542	74050	1.560	.53	1 31/32	1,148	.69	804
BES-3543	74063	1.560	.53	2½	931	.87	815
BES-3544	74080	1.560	.53	3 5/32	744	1.10	830
BES-3553	75063	2.000	.66	2½	1,482	.87	1,297
BES-3563	76363	2.500	.66	2½	2,286	.87	2,000
BES-3573	78063	3.150	.83	2½	4,572	.87	4,000
BES-3583	79063	3.940	.83	2½	6,435	.87	5,631

Note: R = Spring rate, lbs./inch deflection 20%
D = Max. recommended deflection - 35% L
T = Approximate total load at max. deflection ±20%



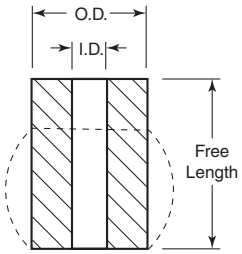


Neoprene elastomer springs have proven to be the safest, most efficient and reliable compression material for punching, stamping and drawing dies. Major advantages include higher loads, increased durability, better performance, no maintenance and very long life.

Urethane Springs

Harkness Ind..

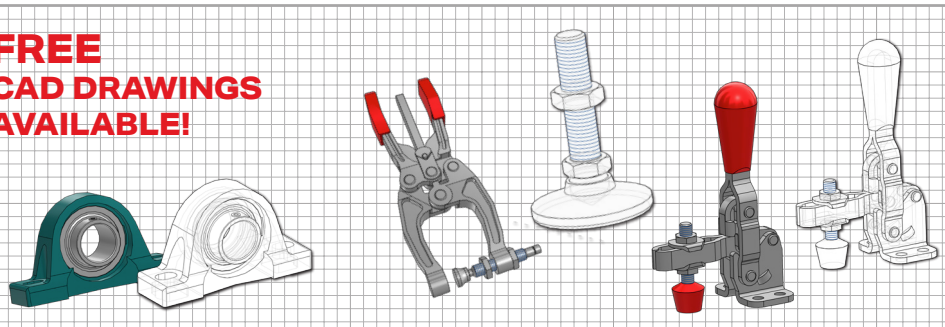




These urethane springs are designed for use in applications where corrosion, vibration and magnetism prevent the use of conventional steel springs. They replace steel coil springs in medium pressure applications involving space limitations, high blank holding pressure and adequate stripping. Durometer 95 shore A. Color black. Tensile strength 5,000 psi. Temperature range -40 to +180 degrees Fahrenheit.

Item No.	MFG#	A	B	C	Load/ Lbs. 1/8" Def.	Item No.	MFG#	A	B	C	Load/ Lbs. 1/8" Def.
US-10	7/8 X 1/4 X 1	⅞	¼	1	425	US-80	1-1/4 X 5/8 X 1	1¼	⅝	1	700
US-15	7/8 X 1/4 X 1-1/4	⅞	¼	1¼	325	US-90	1-1/4 X 5/8 X 2	1¼	⅝	2	325
US-30	7/8 X 1/4 X 12-1/2	⅞	¼	12½	—	US-95	1-1/4 X 5/8 X 12-1/2	1¼	⅝	12½	—
US-35	1 X 3/8 X 1	1	⅜	1	525	US-100	1-1/2 X 3/4 X 1-1/4	1½	¾	1¼	875
US-40	1 X 3/8 X 1-1/4	1	⅜	1¼	425	US-105	1-1/2 X 3/4 X 1-1/2	1½	¾	1½	725
US-45	1 X 3/8 X 1-1/2	1	⅜	1½	325	US-110	1-1/2 X 3/4 X 2	1½	¾	2	525
US-50	1 X 3/8 X 2	1	⅜	2	250	US-115	1-1/2 X 3/4 X 12-1/2	1½	¾	12½	—
US-55	1 X 3/8 X 12-1/2	1	⅜	12½	—	US-120	2 X 1 X 1-1/4	2	1	1¼	1,550
US-60	1-1/8 X 1/2 X 1	1⅛	½	1	600	US-125	2 X 1 X 2	2	1	2	850
US-65	1-1/8 X 1/2 X 1-1/4	1⅛	½	1¼	475	US-130	2 X 1 X 2-3/4	2	1	2¾	625
US-70	1-1/8 X 1/2 X 2	1⅛	½	2	275	US-135	2 X 1 X 12-1/2	2	1	12½	—
US-75	1-1/8 X 1/2 X 12-1/2	1⅛	½	12½	—						

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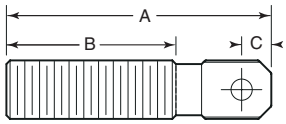
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Spring Anchors — Century Spring Corp.

Spring anchors offer an economical way to secure the ends of extension springs, and provide easy adjustments. Available in C-12114 steel with a black oxide finish or 300 series stainless steel.



Steel Item No.	MFG #	Stainless Item No.	Thread	A	B	C	Hole Size	Load/ Lbs.
CSA-50	CSA-50	**SSA-50**	6-32	.625	.400	.070	.05	120
CSA-60	CSA-60	**SSA-60**	8-32	.875	.625	.085	.07	170
CSA-70	CSA-70	**SSA-70**	¼-20	1.25	.875	.130	.10	500
CSA-80	CSA-80	**SSA-80**	¼-28	1.25	.875	.130	.10	500
CSA-90	CSA-90	**SSA-90**	⅜-16	1.62	1.125	.180	.17	835

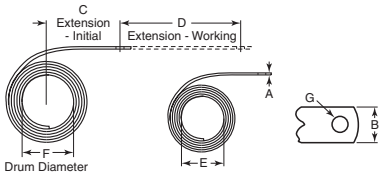


Constant-Force Springs — Century Spring Corp.
Stainless Steel

Well suited to long extensions with no load build up. The spring is usually mounted with the ID tightly wrapped on a drum and the free end attached to a loading force such as a counterbalance. Load capacity can be multiplied by using two or more strips in tandem, back to back or laminated. In use, be sure to leave at least 1½" coiled on the drum at full extension. The spring ID will wrap tightly on the drum so that most applications require no fastening to the drum. Made from Type 301 stainless steel.



Item No.	MFG #	A	B	Lgth.	Min. C	D	E	F	+/- 10% Load Lbs.	G
4,000 Cycle Fatigue Life										
CFS-10	CF015-0050	.004	.25	15	.61	12	.34	.40	.50	.131
CFS-20	CF022-0112	.006	.37	22	.92	18	.51	.62	1.12	.131
CFS-25	CF026-0162	.007	.50	26	1.06	21	.59	.75	1.62	.131
CFS-35	CF034-0350	.010	.68	34	1.53	27	.85	1.00	3.50	.187
CFS-40	CF038-0500	.012	.81	38	1.84	30	1.02	1.25	5.00	.187
CFS-45	CF043-0700	.014	1.00	43	2.14	33	1.19	1.50	7.00	.187
40,000 Cycle Fatigue Life										
CFS-50	CF021-0025	.006	.37	21	2.03	12	1.13	1.36	.25	.131
CFS-65	CF036-0075	.010	.68	36	3.38	21	1.88	2.26	.75	.187
CFS-75	CF048-0162	.014	1.00	48	4.74	27	2.63	3.16	1.62	.187

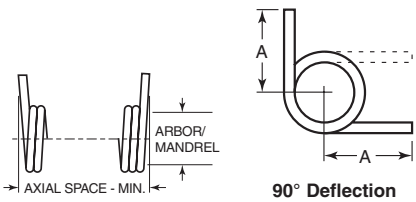


Torsion Springs — Lee Spring
Stainless Steel

Widely used to store and release energy of rotation or to maintain a pressure over a short distance. Normally used over a supporting mandrel or arbor. The suggested mandrel sizes below allow about 10% clearance at the deflection listed. Sufficient room (minimum axial space) must be provided in the assembly for the spring to function properly. These springs should be used in the direction that winds the coils. Torque values listed are recommended maximum torques. For inspection purposes, the load should be applied at ½ leg length (A). These values can be increased 20% for static conditions with only slight setting. Type 302 stainless, plain finish. (ASTM-A313 or AMS-5688).

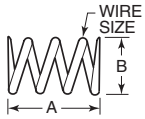


Left Hand Wound Item No.	MFG #	Right Hand Wound Item No.	MFG #	Wire Dia.	Outside Dia.	Degree of Deflection	Torque In-Lbs.	Mandrel Size	A	Min. Axial Space
TSP-10	T012-180-067-L	—	—	.012	.109	180	.047	.067	.375	.086
TSP-30	T015-180-078-L	—	—	.015	.130	180	.093	.078	.500	.107
TSP-60	T017-270-156-L	**TSP-560**	T017-270-156-R	.017	.259	270	.117	.156	.750	.123
TSP-90	T021-360-187-L	**TSP-590**	T021-360-187-R	.021	.271	360	.218	.187	1.000	.242
TSP-110	T025-090-140-L	**TSP-610**	T025-090-140-R	.025	.235	90	.375	.140	.750	.096
TSP-120	T025-180-140-L	**TSP-620**	T025-180-140-R	.025	.224	180	.375	.140	.750	.206
TSP-130	T028-180-140-L	**TSP-630**	T028-180-140-R	.028	.249	180	.515	.140	1.000	.238
—	—	**TSP-640**	T030-090-172-R	.030	.281	90	.625	.172	1.000	.116
TSP-150	T032-090-172-L	—	—	.032	.288	90	.820	.172	1.000	.152
TSP-170	T035-180-281-L	**TSP-670**	T035-180-281-R	.035	.450	180	1.000	.281	1.250	.212
TSP-160	T035-090-187-L	**TSP-660**	T035-090-187-R	.035	.315	90	1.000	.187	1.250	.135
TSP-180	T038-270-218-L	—	—	.038	.353	270	1.190	.218	1.250	.465
TSP-190	T040-090-187-L	**TSP-690**	T040-090-187-R	.040	.309	90	1.375	.187	1.250	.198
TSP-210	T045-270-359-L	**TSP-710**	T045-270-359-R	.045	.556	270	2.000	.359	2.000	.415
TSP-200	T045-090-203-L	**TSP-700**	T045-090-203-R	.045	.357	90	2.000	.203	1.250	.259
TSP-230	T048-180-250-L	**TSP-730**	T048-180-250-R	.048	.404	180	2.500	.250	1.250	.450
TSP-220	T048-090-218-L	**TSP-720**	T048-090-218-R	.048	.375	90	2.500	.218	1.250	.238
TSP-240	T051-090-234-L	**TSP-740**	T051-090-234-R	.051	.408	90	2.900	.234	2.000	.293
TSP-250	T054-090-296-L	**TSP-750**	T054-090-296-R	.054	.484	90	3.275	.296	2.000	.310
TSP-270	T059-180-328-L	**TSP-770**	T059-180-328-R	.059	.526	180	4.200	.328	2.000	.560
TSP-260	T059-090-296-L	**TSP-760**	T059-090-296-R	.059	.499	90	4.200	.296	2.000	.340
TSP-290	T063-180-500-L	**TSP-790**	T063-180-500-R	.063	.767	180	5.150	.500	2.000	.475
TSP-280	T063-090-343-L	**TSP-780**	T063-090-343-R	.063	.560	90	5.150	.343	2.000	.362
TSP-300	T070-270-531-L	**TSP-800**	T070-270-531-R	.070	.826	270	7.000	.531	2.000	.717
TSP-320	T078-180-500-L	**TSP-820**	T078-180-500-R	.078	.803	180	9.750	.500	2.000	.660
TSP-310	T078-090-406-L	**TSP-810**	T078-090-406-R	.078	.687	90	9.750	.406	2.000	.450



Springs — RAF Electronic HDW
Stainless Steel





Item No.	MFG #	A	B	Wire Size	Item No.	MFG #	A	B	Wire Size
RAF-1001	**1055-SS**	¾	3/16	.010	**RAF-1003**	**1056-SS**	1⅛	.310	.016

COMPRESSION SPRINGS

Individual Compression Springs
Jones Spring Company



Item No.	MFG#	OD	Wire Dia.	Coils Per Inch
Music				
S-3	S-3	1/8	.012	23
S-4	S-4	1/8	.016	25
S-6	S-6	3/16	.018	14
S-7	S-7	3/16	.025	16
S-8	S-8	1/4	.018	9
S-9	S-9	1/4	.026	10
S-10	S-10	1/4	.031	11
S-11	S-11	1/4	.035	13
S-12	S-12	1/4	.042	10
S-13	S-13	1/4	.047	11
S-14	S-14	5/16	.022	10
S-15	S-15	5/16	.031	10
S-17	S-17	5/16	.042	9
S-18	S-18	5/16	.047	10
S-19	S-19	5/16	.055	9
S-20	S-20	3/8	.043	7
S-21	S-21	3/8	.055	7
S-22	S-22	3/8	.063	8
S-23	S-23	3/8	.073	8
S-24	S-24	7/16	.063	6
S-27	S-27	1/2	.063	5
S-28	S-28	1/2	.075	5
S-30	S-30	1/2	.114	6

Individual Compression Springs for Holes
Jones Spring Company



Steel Item No.	MFG #	OD	ID	Wire Dia.	Fits into Hole	Fits Over Rod	Coil Per Inch
S-31	**S-31**	.345	.281	.032	3/8	1/4	8
S-33	**S-33**	.453	.329	.062	1/2	9/32	6
S-34	**S-34**	.500	.376	.062	9/16	5/16	5.3
S-35	**S-35**	.562	.438	.062	5/8	3/8	5.3
S-36	**S-36**	.625	.501	.062	11/16	7/16	5.3
S-37	**S-37**	.718	.594	.062	3/4	9/16	4
S-38	**S-38**	.781	.657	.062	13/16	5/8	4
S-40	**S-40**	.580	.420	.080	5/8	3/8	5.3
S-41	**S-41**	.705	.545	.080	3/4	1/2	3.5
S-42	**S-42**	.830	.670	.080	7/8	5/8	3.2
S-43	**S-43**	.955	.795	.080	1	3/4	2.3
S-44	**S-44**	1.205	1.045	.080	1 1/4	1	2.3
S-45	**S-45**	.562	.376	.093	5/8	5/16	5.3
S-46	**S-46**	.687	.501	.093	3/4	7/16	4
S-49	**S-49**	1.155	.969	.093	1 1/4	7/8	2.1
S-50	**S-50**	1.280	1.094	.093	1 3/8	1	1.9
S-51	**S-51**	.730	.520	.105	3/4	1/2	4.9

Individual Compression Springs
Jones Spring Company



Designed to fit freely over shoulder screws or on other similar applications.

Steel Item No.	MFG #	OD	Wire Dia.	Min. ID	Fits Over Rod	Coils Per Inch
S-86	**S-86**	.328	.031	17/64	1/4	8
S-88	**S-88**	.350	.042	17/64	1/4	7
S-89	**S-89**	.360	.047	17/64	1/4	7
S-90	**S-90**	.368	.051	17/64	1/4	7
S-91	**S-91**	.412	.042	21/64	5/16	7
S-92	**S-92**	.422	.047	21/64	5/16	7
S-93	**S-93**	.438	.055	21/64	5/16	6
S-95	**S-95**	.462	.067	21/64	5/16	5
S-96	**S-96**	.485	.047	25/64	3/8	7
S-97	**S-97**	.501	.055	25/64	3/8	6
S-98	**S-98**	.515	.062	25/64	3/8	6
S-99	**S-99**	.535	.072	25/64	3/8	5
S-100	**S-100**	.543	.076	25/64	3/8	5
S-101	**S-101**	.640	.062	33/64	1/2	6
S-102	**S-102**	.660	.072	33/64	1/2	5
S-103	**S-103**	.676	.080	33/64	1/2	4
S-106	**S-106**	.785	.072	41/64	5/8	5

Long Length Compression Springs
36 Inch Steel and 20 Inch Type 300 Series Stainless Steel
Century Spring



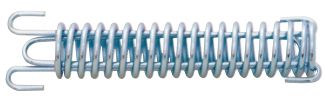
Long length compression springs can be cut to create a custom length spring. End coils may be bent back to touch the previous coil to create a squared end. Available in 20" long stainless steel or 36" long carbon steel. The constant divided by the number of coils equals the load rate per inch.

Item No.	MFG #	OD	Wire Dia. Inches	Rate/Inch
36" Steel				
S-201	**R-1**	.094	.013	2.2
S-202	**R-2**	.125	.014	1.6
S-203	**R-3**	.125	.018	2.7
S-204	**R-4**	.125	.023	14.0
S-205	**R-5**	.187	.018	2.0
S-206	**R-6**	.187	.028	14.0
S-207	**R-7**	.250	.023	3.0
S-208	**R-8**	.250	.035	16.0
S-209	**R-9**	.312	.041	19.0
S-210	**R-10**	.312	.048	36.0
S-211	**R-11**	.375	.035	7.0
S-212	**R-12**	.438	.048	17.0
S-213	**R-13**	.500	.048	15.0
S-214	**R-14**	.500	.063	22.0
S-215	**R-15**	.500	.063	39.0
S-216	**R-16**	.562	.063	33.0
S-217	**R-17**	.562	.080	90.0
S-218	**R-18**	.625	.063	27.0
S-219	**R-19**	.625	.072	45.0
S-220	**R-20**	.625	.092	129.0
S-221	**R-21**	.750	.080	50.0

Item No.	MFG #	OD	Wire Dia. Inches	Rate/Inch
36" Steel				
S-222	**R-22**	.750	.105	153.0
S-223	**R-23**	.875	.080	38.0
S-224	**R-24**	1.000	.092	47.0
S-225	**R-25**	1.000	.121	145.0
S-226	**R-26**	1.000	.135	232.0
S-227	**R-27**	1.125	.106	70.0
S-228	**R-28**	1.250	.121	88.0
S-229	**R-29**	1.250	.148	210.0
S-230	**R-30**	1.500	.162	208.0
S-231	**R-31**	1.750	.187	266.0
20" Stainless Steel				
SSS-201	**ST2-13**	.125	.013	1.1
SSS-204	**ST2-20**	.125	.020	5.8
SSS-205	**ST3-15**	.187	.015	1.0
SSS-206	**ST3-17**	.187	.017	1.4
SSS-207	**ST3-20**	.187	.020	2.9
SSS-208	**ST3-26**	.187	.026	7.3
SSS-209	**ST4-15**	.250	.015	.6
SSS-210	**ST4-17**	.250	.017	1.0
SSS-211	**ST4-20**	.250	.020	1.6
SSS-212	**ST4-26**	.250	.026	4.2

Item No.	MFG #	OD	Wire Dia. Inches	Rate/Inch
20" Stainless Steel				
SSS-213	**ST4-32**	.250	.032	10.0
SSS-214	**ST5-20**	.312	.020	1.2
SSS-215	**ST5-26**	.312	.026	2.9
SSS-216	**ST5-32**	.312	.032	7.0
SSS-217	**ST5-41**	.312	.041	15.0
SSS-218	**ST6-32**	.375	.032	4.4
SSS-219	**ST6-41**	.375	.041	11.0
SSS-220	**ST6-54**	.375	.054	32.0
SSS-221	**ST7-41**	.438	.041	7.6
SSS-222	**ST7-54**	.438	.054	23.0
SSS-223	**ST8-54**	.500	.054	18.0
SSS-224	**ST8-72**	.500	.072	61.0
SSS-225	**ST9-41**	.562	.041	3.8
SSS-226	**ST9-54**	.562	.054	14.0
SSS-227	**ST9-72**	.562	.072	44.0
SSS-228	**ST9-91**	.562	.091	128.0
SSS-229	**ST10-72**	.625	.072	35.0
SSS-230	**ST10-91**	.625	.091	99.0
SSS-231	**ST12-91**	.750	.091	66.0

Drawbar Springs



Item No.	MFG #	Rates Lbs./Inch	Max. Deflection	Max. Load Lbs.	Lgth.	Dia.
Spring Steel						
CDB-7001	**DB-7001**	25	2.0	50	6	1
CDB-7003	**DB-7003**	50	1.9	95	7	1 1/8
CDB-7005	**DB-7005**	75	2.1	160	7 1/2	1 3/8
CDB-7009	**DB-7009**	125	1.9	235	8 1/8	1 1/2
CDB-7010	**DB-7010**	155	1.8	300	7 1/4	1 9/16
CDB-7011	**DB-7011**	200	2.0	400	9 5/8	1 3/4
CDB-7013	**DB-7013**	250	2.4	600	13 3/8	2 1/4
CDB-7015	**DB-7015**	150	4.0	610	19 3/8	2 1/4
Stainless Steel						
CDBS-7052	**DBS-7052**	50	1.3	70	4	1

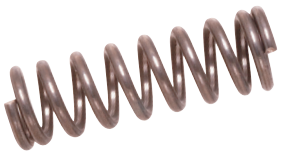
Drawbar springs have long steel loops that pass through the center of the spring and hook around to opposite end, thus compressing the spring upon loading. This design produces physical extension stops to prevent unexpected overloading and fracturing while continuing to hold a static load. Available in zinc plated spring steel or stainless steel. The rate lbs./in. listed below indicates the pounds needed to pull out the first inch of the spring. For example, if the rate is 25 lbs. it will take 25 lbs. to pull out the first inch, 50 lbs. for the second inch, etc.

Individual Compression Springs
Music Wire
Cut Lengths
Closed Ends

Jones Spring Company



Item No.	MFG #	OD	Wire Dia.	Total Coils	Rate Lbs./In.	Free Lgth.
S-345	S-345					
S-360	S-360	.120	.016	11.7	8.60	.50
S-365	S-365	.120	.016	18.5	4.10	1.00
S-420	S-420					
S-480	S-480					
S-505	S-505	.148	.025	37.0	8.60	1.50
S-510	S-510	.180	.014	6.5	2.70	.50
S-515	S-515	.180	.014	11.3	1.30	1.00
S-525	S-525	.180	.016	6.6	4.60	.50
S-545	S-545	.180	.018	13.1	3.20	1.00
S-560	S-560	.180	.020	14.2	4.60	1.00
S-580	S-580	.180	.023	26.7	4.20	1.50
S-585	S-585	.180	.025	9.9	19.10	.50
S-590	S-590	.180	.025	18.5	9.10	1.00



Item No.	MFG #	OD	Wire Dia.	Total Coils	Rate Lbs./In.	Free Lgth.
S-1285	S-1285	.420	.035	4.1	17.60	.50
S-1290	S-1290	.420	.035	6.7	8.10	1.00
S-1295	S-1295	.420	.035	9.3	5.20	1.50
S-1300	S-1300	.420	.039	4.6	23.10	.50
S-1305	S-1305	.420	.039	7.4	11.10	1.00
S-1335	S-1335	.420	.045	7.6	19.90	1.00
S-1350	S-1350	.420	.047	7.4	25.10	1.00
S-1355	S-1355	.420	.047	10.7	15.60	1.50
S-1375	S-1375	.420	.055	4.8	95.10	.50
S-1405	S-1405	.480	.039	3.9	20.10	.50
S-1410	S-1410	.480	.039	6.3	9.10	1.00
S-1415	S-1415	.480	.039	8.7	5.90	1.50
S-1425	S-1425	.480	.041	5.7	13.10	1.00
S-1430	S-1430	.480	.041	7.6	8.60	1.50
S-1440	S-1440	.480	.045	6.2	17.10	1.00
S-1445	S-1445	.480	.045	8.5	11.10	1.50
S-1450	S-1450	.480	.047	4.2	40.00	.50
S-1455	S-1455	.480	.047	6.7	18.40	1.00
S-1475	S-1475	.480	.051	9.7	16.10	1.50
S-1485	S-1485	.480	.055	6.9	35.10	1.00
S-1500	S-1500	.480	.059	7.4	43.10	1.00
S-1505	S-1505	.480	.059	10.3	28.10	1.50
S-1515	S-1515	.480	.062	7.1	57.20	1.00
S-1520	S-1520	.480	.062	9.8	37.10	1.50
S-1530	S-1530	.480	.072	6.0	142.00	1.00
S-1535	S-1535	.480	.072	9.0	81.00	1.50



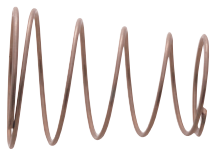
Item No.	MFG #	OD	Wire Dia.	Total Coils	Rate Lbs./In.	Free Lgth.
S-600	S-600	.180	.028	7.7	44.00	.50
S-620	S-620	.180	.031	15.4	30.00	1.00
S-705	S-705	.240	.018	8.0	2.30	.50
S-710	S-710	.240	.018	14.0	1.10	1.00
S-715	S-715	.240	.018	20.0	.77	1.50
S-720	S-720	.240	.020	6.3	5.00	.50
S-725	S-725	.240	.020	10.6	2.50	1.00
S-735	S-735	.240	.023	6.4	9.10	.50
S-755	S-755	.240	.025	11.4	6.00	1.00
S-765	S-765	.240	.028	5.9	23.80	.50
S-770	S-770	.240	.028	10.1	11.40	1.00
S-775	S-775	.240	.028	14.5	7.40	1.50
S-780	S-780	.240	.031	6.0	36.10	.50
S-785	S-785	.240	.031	11.0	16.10	1.00
S-790	S-790	.240	.031	15.0	11.10	1.50
S-805	S-805	.240	.035	18.8	14.90	1.50
S-820	S-820	.240	.039	21.4	21.20	1.50
S-830	S-830	.240	.041	14.9	40.00	1.00
S-835	S-835	.240	.041	22.0	25.80	1.50
S-1000	S-1000	.300	.020	5.8	2.80	.50
S-1005	S-1005	.300	.020	9.5	1.40	1.00
S-1015	S-1015	.300	.023	4.9	6.60	.50
S-1020	S-1020	.300	.023	9.0	2.70	1.00
S-1030	S-1030	.300	.025	4.3	11.60	.50
S-1035	S-1035	.300	.025	7.3	5.10	1.00



Item No.	MFG #	OD	Wire Dia.	Total Coils	Rate Lbs./In.	Free Lgth.
S-1045	S-1045	.300	.028	5.1	6.50	.50
S-1050	S-1050	.300	.028	8.8	8.80	1.00
S-1055	S-1055	.300	.028	12.0	4.40	1.50
S-1060	S-1060	.300	.031	6.0	17.10	.50
S-1065	S-1065	.300	.031	10.4	8.10	1.00
S-1070	S-1070	.300	.031	14.9	5.30	1.50
S-1080	S-1080	.300	.035	10.5	13.60	1.00
S-1100	S-1100	.300	.039	16.0	13.40	1.50
S-1105	S-1105	.300	.041	6.0	58.00	.50
S-1115	S-1115	.300	.041	16.5	16.10	1.50
S-1130	S-1130	.300	.045	15.4	26.50	1.50
S-1135	S-1135	.360	.023	4.0	5.30	.50
S-1140	S-1140	.360	.023	6.0	2.60	1.00
S-1150	S-1150	.360	.025	3.9	9.10	.50
S-1155	S-1155	.360	.025	6.3	4.10	1.00
S-1160	S-1160	.360	.025	8.3	2.80	1.50
S-1165	S-1165	.360	.028	4.0	12.30	.50
S-1170	S-1170	.360	.028	6.1	5.80	1.00
S-1180	S-1180	.360	.031	4.1	17.90	.50
S-1185	S-1185	.360	.031	6.4	8.40	1.00
S-1195	S-1195	.360	.035	4.6	23.60	.50
S-1200	S-1200	.360	.035	7.8	10.90	1.00
S-1210	S-1210	.360	.039	5.1	32.10	.50
S-1215	S-1215	.360	.039	8.7	15.10	1.00
S-1220	S-1220	.360	.039	13.0	9.10	1.50
S-1225	S-1225	.360	.041	5.3	38.30	.50
S-1230	S-1230	.360	.041	9.1	17.50	1.00
S-1235	S-1235	.360	.041	12.8	11.60	1.50
S-1240	S-1240	.360	.045	4.9	64.00	.50
S-1245	S-1245	.360	.045	9.0	27.00	1.00
S-1250	S-1250	.360	.045	12.5	17.90	1.50
S-1255	S-1255	.360	.047	5.0	76.30	.50
S-1260	S-1260	.360	.047	9.0	32.70	1.00
S-1265	S-1265	.360	.047	12.5	21.80	1.50
S-1275	S-1275	.420	.031	7.0	4.50	1.00
S-1280	S-1280	.420	.031	10.0	2.80	1.50

Conical Compression Springs
Tapered
Stainless Steel Type 302

Century Spring



Cone shape Type 302 stainless steel. Coils can be designed to nest within each other when deflected, providing a nearly constant rate, and a solid height lower than a normal compression spring. Ends are closed. Starting rate is the same as rate per inch.

Item No.	MFG #	OD Sm. End	OD Lg. End	Inside Dia.	Free Lgth.	Wire Dia.	Rates/ lbs. Inch
CX-1	TA-2349	.172	.484	.126	.875	.023	2.35
CX-2	TA-2100	.187	.375	.143	.313	.022	5.62
CX-3	TA-2139	.187	.281	.139	.562	.024	5.97
CX-4	TA-2253	.187	.375	.143	.750	.022	2.81
CX-5	TA-2289	.187	.312	.157	.938	.015	.61
CX-6	TA-2288	.203	.250	.177	.156	.013	3.67
CX-7	TA-2155	.203	.296	.149	.688	.027	12.06
CX-8	TA-2187	.219	.375	.189	.875	.015	.31
CX-9	TA-2110	.234	.312	.178	.906	.028	6.15
CX-10	TA-2313	.250	.406	.222	.406	.014	.69
CX-11	TA-2094	.250	.375	.206	1.125	.022	1.49
CX-12	TA-2354	.266	.375	.196	.421	.035	32.24
CX-13	TA-2119	.266	.421	.226	.438	.020	1.48
CX-14	TA-2308	.281	.469	.249	.563	.016	.25
CX-15	TA-2197	.296	.484	.216	.500	.040	29.85
CX-16	TA-2250	.296	.406	.240	.750	.028	2.53
CX-17	TA-2143	.296	.484	.214	1.125	.041	10.39
CX-18	TA-2088	.312	.406	.272	.219	.020	2.57
CX-19	TA-2269	.312	.406	.252	.500	.030	7.11
CX-20	TA-2198	.328	.421	.284	.750	.022	1.22
CX-21	TA-2140	.335	.390	.299	.376	.018	1.60
CX-22	TA-2175	.343	.438	.257	.250	.043	67.89
CX-23	TA-2251	.343	.562	.273	1.063	.035	3.22
CX-24	TA-2116	.359	.750	.309	.562	.025	.73
CX-25	TA-2082	.359	.438	.289	.593	.035	17.36
CX-26	TA-2318	.375	.625	.317	.375	.029	4.23
CX-27	TA-2256	.375	.875	.311	1.375	.032	1.14
CX-28	TA-2368	.406	.625	.344	.687	.031	4.51
CX-29	TA-2320	.421	.750	.345	.688	.038	3.97
CX-30	TA-2268	.438	.718	.376	.625	.031	3.53
CX-31	TA-2160	.438	.671	.376	.781	.031	1.61
CX-32	TA-2339	.438	.562	.404	.875	.017	.20
CX-33	TA-2079	.438	.562	.358	.875	.040	4.38
CX-34	TA-2067	.500	.687	.438	.812	.031	2.16
CX-35	TA-2065	.500	.687	.448	.937	.026	.78
CX-36	TA-2233	.500	.750	.462	1.063	.019	.21
CX-37	TA-2228	.500	.641	.440	1.125	.030	.80
CX-38	TA-2199	.546	.859	.422	1.813	.062	10.04
CX-39	TA-2180	.562	1.150	.468	2.376	.047	2.56
CX-40	TA-2157	.593	.938	.503	.625	.045	7.83
CX-41	TA-2358	.625	1.062	.525	.563	.050	8.94
CX-42	TA-2190	.681	1.000	.611	.750	.035	1.44
CX-43	TA-2344	.687	.938	.595	1.000	.046	3.55
CX-44	TA-2151	.687	.812	.625	1.438	.031	1.04
CX-45	TA-2330	.750	.938	.672	.563	.039	5.54
CX-46	TA-2156	.796	1.125	.704	2.375	.046	1.63
CX-47	TA-2376	.840	1.125	.710	1.562	.065	6.08
CX-48	TA-2121	1.000	1.500	.900	2.000	.050	1.13
CX-49	TA-2335	1.062	1.250	.960	.750	.051	6.27
CX-50	TA-2244	1.125	1.438	1.001	.750	.062	6.79
CX-51	TA-2118	1.500	1.812	1.276	2.062	.122	21.37
CX-52	TA-2112	2.031	2.625	1.707	2.937	.162	24.21

EXTENSION SPRINGS

Extension springs range in size from ⅛" to 1¼" OD. 1½" through 8" in length.

Individual Extension Springs
Short Length



Century Spring





Item No.	MFG #	Material	Finish	OD	Wire Dia.	OAL	Lbs. Per Inch
ES-0102	5247	Music	None	⅛	.015	6	.14
ES-0103	5198	Music	None	⅛	.015	8	.11
ES-0301	164A	Music	Zinc	5/32	.020	1½	1.45
ES-0305	5257	Music	None	5/32	.020	6	.32
ES-0404	166A	Music	Zinc	3/16	.016	1½	.23
ES-0407	5304	Music	Zinc	3/16	.022	1	2.27
ES-0409	5200	Music	Tinned	3/16	.023	1½	1.89
ES-0411	5196	Music	Zinc	3/16	.023	6	.36
ES-0412	167A	Music	Zinc	3/16	.025	1½	2.65
ES-0413	167B	Music	Zinc	3/16	.025	1⅞	2.03
ES-0414	167C	Music	Zinc	3/16	.025	2½	1.46
ES-0611	308	Music	Zinc	7/32	.025	3¼	.66
ES-0801	171A	Music	Zinc	¼	.015	1½	.07
ES-0807	173A	Music	Zinc	¼	.023	1½	.70
ES-0808	173B	Music	Zinc	¼	.023	1⅞	.51
ES-0811	110	Music	Zinc	¼	.028	3	.90
ES-0812	5228	Music	Zinc	¼	.028	4	.65
ES-0814	5249	Music	Zinc	¼	.029	1 3/16	3.04
ES-0816	149	Hard Drawn	Zinc	¼	.031	5	.84
ES-0818	5817	Music	Zinc	¼	.032	8	.62
ES-0904	175A	Music	Zinc	9/32	.025	1½	.74
ES-1001	86	Spring Steel	Zinc	19/64	.041	4¼	2.57
ES-1110	109	Music	Zinc	5/16	.028	3	.41
ES-1117	12381	Spring Steel	Zinc	5/16	.035	1¾	2.52
ES-1118	5254	Spring Steel	Zinc	5/16	.036	1 15/16	3.02
ES-1119	5539	Spring Steel	Zinc	5/16	.036	2 3/16	2.52
ES-1121	315	Music	Zinc	5/16	.035	5	.79
ES-1203	5594	Spring Steel	Zinc	21/64	.042	5⅞	1.47
ES-1204	5521	Spring Steel	Zinc	21/64	.042	8	1.09
ES-1309	5683	Spring Steel	Zinc	1 1/32	.048	1 7/16	15.64
ES-1402	107	Music	Zinc	⅜	.031	4½	.26
ES-1403	311	Spring Steel	Zinc	⅜	.034	2½	.81
ES-1404	150	Spring Steel	Zinc	⅜	.034	4	.47
ES-1405	87	Spring Steel	Zinc	⅜	.041	3¾	1.44
ES-1406	83	Spring Steel	Zinc	⅜	.041	6	.81
ES-1407	105	Hard Drawn	Zinc	⅜	.047	4½	2.37
ES-1408	5294	Spring Steel	Zinc	⅜	.047	1½	9.25
ES-1409	5834	Stainless	None	⅜	.049	1¾	8.08
ES-1410	5222	Spring Steel	Zinc	⅜	.048	1 15/16	8.24
ES-1411	5311	Spring Steel	Zinc	⅜	.047	2⅜	5.45
ES-1413	12338	Spring Steel	Zinc	⅜	.047	2 1/16	4.09
ES-1414	230	Hard Drawn	Zinc	⅜	.047	3	3.63
ES-1416	5585	Hard Drawn	Zinc	⅜	.047	5⅞	1.76
ES-1417	5501	Spring Steel	Zinc	⅜	.047	7⅞	1.28
ES-1601	304	Music	Zinc	7/16	.028	4½	.09
ES-1604	186C	Music	Zinc	7/16	.047	2½	2.96
ES-1606	5676	Spring Steel	Zinc	7/16	.047	2 15/16	2.60
ES-1608	644	Hard Drawn	Zinc	7/16	.047	3½	1.97
ES-1609	5671	Spring Steel	Zinc	7/16	.048	3⅝	2.13
ES-1610	5673	Spring Steel	Zinc	7/16	.047	3 15/16	1.76
ES-1613	82	Hard Drawn	Zinc	7/16	.062	6	4.68
ES-1901	92	Hard Drawn	Zinc	½	.062	4½	4.14
ES-1903	12352	Spring Steel	Zinc	½	.061	3 23/32	4.26
ES-1904	5603	Hard Drawn	Zinc	½	.062	6	3.03
ES-1905	5506	Spring Steel	Zinc	½	.064	7⅞	2.60
ES-1906	94	Hard Drawn	Zinc	½	.072	5	8.21
ES-1907	681	Hard Drawn	Zinc	½	.080	1⅝	66.23
ES-2301	5580	Spring Steel	Zinc	3/64	.072	3 13/16	7.41
ES-2303	5659	Spring Steel	Zinc	3/64	.072	8	3.11
ES-2401	99	Hard Drawn	Zinc	⅝	.080	6½	5.27
ES-2503	5598	Spring Steel	None	4 1/64	.080	7¾	3.90
ES-2603	93	Hard Drawn	Zinc	1 1/16	.091	4¾	10.96
ES-2701	5610	Spring Steel	Blk/Ox	4 7/64	.064	3⅞	1.93
ES-2702	5602	Hard Drawn	Zinc	4 7/64	.092	5¾	7.56
ES-2704	316	Hard Drawn	Zinc	4 7/64	.105	2¼	58.51
ES-2706	318	Hard Drawn	Zinc	4 7/64	.105	2⅝	43.88
ES-2707	319	Hard Drawn	Zinc	4 7/64	.105	2⅞	39.61
ES-2801	79	Hard Drawn	Zinc	¾	.062	3½	1.69
ES-2802	75	Hard Drawn	Zinc	¾	.062	4½	1.19
ES-2803	194	Hard Drawn	Zinc	¾	.080	6	3.04
ES-2804	100	Hard Drawn	Zinc	¾	.091	6½	5.94
ES-2809	89	Hard Drawn	Zinc	¾	.105	3⅛	32.56
ES-2810	77	Hard Drawn	Zinc	¾	.105	3¾	25.54
ES-2902	76	Hard Drawn	Zinc	13/16	.120	4	39.11
ES-3001	5663	Spring Steel	Zinc	27/32	.105	3 13/16	17.56
ES-3101	78	Hard Drawn	Zinc	⅞	.091	3½	7.72
ES-3102	98	Hard Drawn	Zinc	⅞	.091	6	3.90
ES-3301	12387	Spring Steel	Zinc	61/64	.121	3¾	23.74
ES-3302	5607	Spring Steel	Zinc	31/32	.120	5⅝	13.30
ES-3303	5658	Spring Steel	Zinc	31/32	.120	7½	9.31
ES-3401	102	Hard Drawn	Zinc	1	.105	7½	4.43
ES-3402	5609	Hard Drawn	Blk/Ox	1	.105	8	3.84
ES-3501	101	Hard Drawn	Zinc	1 1/16	.105	7	3.66
ES-3701	12357	Spring Steel	None	1¼	.210	7¼	87.57

Long Length - Individual Springs
Century Spring



Long length extension springs can be custom cut to length. End coils can be bent into hooks or loops. Available in 11" music wire, 20" Type 302 stainless steel or 36" carbon steel.

Item No.	MFG #	OD	Wire Dia.	Lbs. Per In.
11" Music Wire				
ES-57	ES-57	⅛	.016	.11
ES-59	ES-59	5/32	.024	.46
ES-62	ES-62	3/16	.031	1.00
ES-64	ES-64	¼	.031	.37
ES-68	ES-68	5/16	.047	1.70
ES-69	ES-69	⅜	.031	.10
ES-70	ES-70	⅜	.047	.92
ES-74	ES-74	½	.035	.08
ES-75	ES-75	½	.047	.36
ES-76	ES-76	½	.063	1.60
ES-77	ES-77	⅝	.063	.82
ES-78	ES-78	⅝	.071	1.50
ES-83	ES-83	⅞	.106	4.60
ES-85	ES-85	1	.124	6.90
20" Stainless Steel				
ES-251	SS2-13	.125	.013	.33
ES-253	SS2-17	.125	.017	1.44
ES-254	SS2-20	.125	.020	3.50
ES-255	SS3-15	.187	.015	.18
ES-256	SS3-17	.187	.017	.40
ES-257	SS3-20	.187	.020	.88
ES-258	SS3-26	.187	.026	3.56
ES-261	SS4-20	.250	.020	.33
ES-262	SS4-26	.250	.026	1.19
ES-263	SS4-32	.250	.032	4.03
ES-264	SS5-20	.312	.020	.16
ES-266	SS5-32	.312	.032	1.87
ES-267	SS5-41	.312	.041	7.33
ES-268	SS6-32	.375	.032	1.02
ES-270	SS6-54	.375	.054	17.35
ES-271	SS7-41	.438	.041	23.00
ES-272	SS8-54	.500	.054	6.50
ES-273	SS7-54	.438	.054	10.00
ES-274	SS8-72	.500	.072	29.00
ES-275	SS9-54	.562	.054	4.40
ES-276	SS9-72	.562	.072	19.00
ES-277	SS9-91	.562	.091	68.00
ES-279	SS10-91	.625	.091	51.00
ES-280	SS12-91	.750	.091	27.00
36" Steel				
ES-201	E-1	.125	.012	.25
ES-202	E-2	.125	.014	.56
ES-203	E-3	.125	.016	1.19
ES-204	E-4	.125	.023	8.71
ES-205	E-5	.187	.016	.32
ES-206	E-6	.187	.018	.57
ES-207	E-7	.187	.023	2.09
ES-208	E-8	.187	.028	6.11
ES-209	E-9	.250	.018	.22
ES-210	E-10	.250	.023	.79
ES-211	E-11	.250	.028	2.25
ES-212	E-12	.250	.035	7.23
ES-213	E-13	.312	.023	.38
ES-214	E-14	.312	.028	.60
ES-215	E-15	.312	.035	3.37
ES-216	E-16	.312	.047	18.81
ES-217	E-17	.375	.028	.58
ES-218	E-18	.375	.035	1.83
ES-219	E-19	.375	.047	9.90
ES-220	E-20	.375	.063	46.86
ES-237	E-37	.750	.080	15.08
ES-238	E-38	.750	.105	68.53
ES-239	E-39	.875	.080	9.42
ES-240	E-40	.875	.105	40.32
ES-241	E-41	.875	.135	158.78
ES-242	E-42	1.000	.092	13.14
ES-243	E-43	1.000	.120	52.47
ES-245	E-45	1.125	.135	67.86
ES-246	E-46	1.250	.120	24.97
ES-247	E-47	1.250	.148	79.23
ES-248	E-48	1.500	.162	68.83

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

Music Wire

Precision Brand





Steel - Made of high carbon alloy. Many uses including springs, control linkages, wire forms, etc. **Stainless** - Made of full hard Type 302 stainless.

Steel			Stainless					
Item No.	MFG#	Lb. Size	Item No.	MFG#	Lb. Size	Dia.	Gauge	Ft. per Lb.
PBW-209	21209	¼	—	—	—	.009	1/0	4,629
PBW-210	21210	¼	**PBW-9010**	29010	1	.010	1	3,749
PBW-212	21212	¼	—	—	—	.012	3	2,604
PBW-216	21216	¼	—	—	—	.016	6	1,465
PBW-220	21220	¼	**PBW-9020**	29020	1	.020	8	937
PBW-224	21224	¼	**PBW-9024**	29024	1	.024	10	650
PBW-026	21026	1	—	—	—	.026	11	555
PBW-029	21029	1	**PBW-9029**	29029	1	.029	12	450
PBW-031	21031	1	**PBW-9031**	29031	1	.031	13	400
PBW-033	21033	1	—	—	—	.033	14	346
PBW-035	21035	1	—	—	—	.035	15	306
PBW-039	21039	1	—	—	—	.039	17	250
PBW-041	21041	1	**PBW-9041**	29041	1	.041	18	223
PBW-043	21043	1	—		—	.043	19	207
PBW-045	21045	1	**PBW-9045**	29045	1	.045	20	190
PBW-047	21047	1	—	—	—	.047	21	172
PBW-059	21059	1	**PBW-9059**	29059	1	.059	25	110
PBW-063	21063	1	**PBW-9062***	29062	1	.063	26	95
PBW-071	21071	1	—	—	—	.071	28	78
PBW-080	21080	1	**PBW-9080**	29080	1	.080	30	58
PBW-090	21090	1	**PBW-9090**	29090	1	.090	32	45
PBW-125	21125	1	**PBW-9125**	29125	1	.125	—	24

*Dia. is .0625

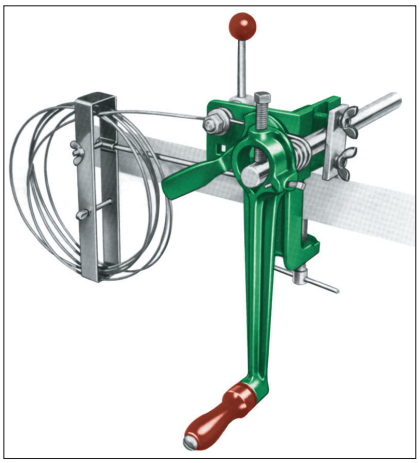
Spring Looping Tool

Hook-Kon spring looping tool forms a variety of perfect end loops and hooks on coil springs,1/8" to ½" OD.

Item No.	MFG#	Description
SW-104	**1870**	Hook-Kon Spring Looping Tool



Spring Winder



The spring winder quickly winds extension, compression and torsion springs from ⅛" to 1¼" inside diameter in either right or left hand coils. Handles music wire from smallest to 3/16" diameter A pitch gauge accurately regulates distance between coils and may be disengaged while winding extension springs or closed end coils on compression springs.

SW-101 Spring Winder Kit: Includes spring winder with cam lock tension release, two handles, one for large diameter and one for small diameter mandrels. Six mandrels, ⅛", ¼", ⅜", ½", ⅝", and ¾", wrench, four ¼ lb. coils of .029", .047", .067" and .085" spring wire. Also includes Hook-Kon spring looping tool and nipper.

SW-102 Spring Winder Kit: Same as above but does not include Hook-Kon spring looping tool and nipper.

SW-103 Utility Model: Same as SW-102 but it does not have cam lock tension release or small handle. Four mandrels ⅛", ¼", ⅜" and ½", with wrench. Spring wire not included.

Item No.	MFG#	Description
SW-101	**1830**	Spring Winder Kit
SW-102	**1820**	Spring Winder Kit w/o Hook-Kon Tool & Nipper
SW-103	**1810**	Utility Model

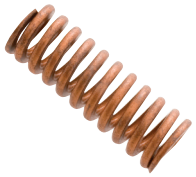
DIE SPRINGS



Medium Duty



Medium Heavy Duty



Heavy Duty



Extra Heavy Duty

Pressure	Color	Maximum Deflection as a Percent of Length	Efficient Operating Range as a Percent of Length
Medium Duty	Blue	50%	25% to 40%
Medium Heavy Duty	Red	37%	20% to 30%
Heavy Duty	Gold	30%	15% to 25%
Extra Heavy Duty	Green	25%	15% to 20%

Marathon Sales **Century Spring**

Made from vapor degassed high tensile strength chromium alloy steels. Spring ends are ground square. Designed for long life cycle with constant high-speed deflections and shot peened to increase fatigue life. Load A is the load (in lbs.) at 1/10 inch deflection. Load B is the load (in lbs.) at maximum operating deflection which is 40% for medium duty, 30% for medium-heavy duty, 25% for heavy duty and 20% for extra heavy duty.

Medium Duty				Medium Heavy Duty				Heavy Duty				Extra Heavy Duty				
Item No.	MFG #	Load B**	Load A*	Item No.	MFG #	Load B**	Load A*	Item No.	MFG #	Load B**	Load A*	Item No.	MFG #	Load B**	Load A*	Length
3/8" Hole Size - 3/16" Rod Size																
JS-101	13104	24.0	6.0	**JS-401**	14104	27.0	9.0	**JS-701**	15104	27.5	11.0	**JS-901**	16104	44.0	22.0	1
JS-102	13105	27.0	5.4	**JS-402**	14105	27.4	7.3	—	—	—	—	—	—	—	—	1¼
JS-103	13106	24.0	4.0	**JS-403**	14106	30.2	6.7	**JS-703**	15106	30.0	8.0	—	—	—	—	1½
JS-104	13107	23.8	3.4	—	—	—	—	—	—	—	—	—	—	—	—	1¾
JS-105	13108	22.4	2.8	**JS-405**	14108	30.0	5.0	**JS-705**	15108	36.0	7.2	—	—	—	—	2
JS-106	13110	24.0	2.4	—	—	—	—	**JS-706**	15110	34.4	5.5	—	—	—	—	2½
JS-107	13112	25.2	2.1	—	—	—	—	**JS-707**	15112	31.5	4.2	—	—	—	—	3
JS-108	13148	28.8	0.6	—	—	—	—	—	—	—	—	—	—	—	—	12
1/2" Hole Size - 9/32" Rod Size																
JS-109	13204	44.0	11.0	—	—	—	—	**JS-709**	15204	59.0	23.6	**JS-909**	16204	64.0	32.0	1
JS-111	13205	41.0	8.2	**JS-411**	14205	48.8	13.0	**JS-711**	15205	58.1	18.6	—	—	—	—	1¼
JS-112	13206	40.8	6.8	**JS-412**	14206	42.8	9.5	**JS-712**	15206	58.1	15.5	—	—	—	—	1½
JS-113	13207	42.0	6.0	**JS-413**	14207	44.6	8.5	**JS-713**	15207	60.4	13.8	—	—	—	—	1¾
JS-114	13208	44.0	5.5	—	—	—	—	**JS-714**	15208	55.0	11.0	—	—	—	—	2
JS-116	13210	45.0	4.5	—	—	—	—	—	—	—	—	—	—	—	—	2½
JS-117	13212	42.0	3.5	—	—	—	—	—	—	—	—	—	—	—	—	3
JS-118	13214	42.0	3.0	—	—	—	—	—	—	—	—	—	—	—	—	3½
JS-122	13248	33.6	0.7	—	—	—	—	—	—	—	—	—	—	—	—	12
5/8" Hole Size - 11/32" Rod Size																
JS-119	13304	65.6	16.4	**JS-419**	14304	90.0	30.0	**JS-719**	15304	106.0	42.4	—	—	—	—	1
JS-121	13305	64.0	12.8	**JS-421**	14305	80.6	21.5	**JS-721**	15305	92.5	29.6	—	—	—	—	1¼
JS-110	13306	64.8	10.8	**JS-410**	14306	85.5	19.0	**JS-710**	15306	102.0	27.2	—	—	—	—	1½
JS-115	13307	67.2	9.6	**JS-415**	14307	88.2	16.8	**JS-715**	15307	105.0	24.0	—	—	—	—	1¾
JS-120	13308	70.4	8.8	**JS-420**	14308	88.8	14.8	**JS-720**	15308	104.0	20.8	—	—	—	—	2
JS-125	13310	60.0	6.0	—		—	—	**JS-725**	15310	106.3	17.0	—	—	—	—	2½
JS-130	13312	67.2	5.6	**JS-430**	14312	90.0	10.0	—	—	—	—	—	—	—	—	3
JS-140	13316	70.4	4.4	—	—	—	—	—	—	—	—	—	—	—	—	4
JS-139	13348	76.8	1.6	—	—	—	—	—	—	—	—	—	—	—	—	12
3/4" Hole Size - 3/8" Rod Size																
JS-141	13404	124.8	31.2	**JS-441**	14404	150.0	50.0	**JS-741**	15404	270.0	108.0	**JS-941**	16404	280.0	140.0	1
JS-142	13405	128.0	25.6	**JS-442**	14405	142.5	38.0	**JS-742**	15405	275.0	88.0	**JS-942**	16405	275.0	110.0	1¼
JS-145	13406	120.0	20.0	**JS-445**	14406	144.0	32.0	**JS-745**	15406	246.0	65.6	—	—	—	—	1½
JS-150	13407	123.2	17.6	**JS-450**	14407	151.2	28.8	**JS-750**	15407	262.5	60.0	—	—	—	—	1¾
JS-155	13408	115.2	14.4	**JS-455**	14408	148.8	24.8	**JS-755**	15408	248.0	49.6	**JS-955**	16408	272.0	68.0	2
JS-160	13410	120.0	12.0	**JS-460**	14410	144.0	19.2	**JS-760**	15410	250.0	40.0	**JS-960**	16410	250.0	50.0	2½
JS-165	13412	115.2	9.6	**JS-465**	14412	129.6	14.4	**JS-765**	15412	255.0	34.0	—	—	—	—	3
JS-170	13414	112.0	8.0	**JS-470**	14414	134.4	12.8	—	—	—	—	—	—	—	—	3½
JS-175	13416	115.2	7.2	**JS-475**	14416	144.0	12.0	—	—	—	—	—	—	—	—	4
JS-180	13418	115.2	6.4	—	—	—	—	—	—	—	—	—	—	—	—	4½
JS-185	13420	120.0	6.0	—	—	—	—	—	—	—	—	—	—	—	—	5
JS-186	13448	115.2	2.4	—	—	—	—	—	—	—	—	—	—	—	—	12
1" Hole Size - 1/2" Rod Size																
JS-187	13504	220.0	55.0	**JS-487**	14504	228.0	76.0	**JS-787**	15504	520.0	208.0	—		—	—	1
JS-188	13505	225.0	45.0	—	—	—	—	**JS-788**	15505	535.0	171.2	—		—	—	1¼
JS-189	13506	210.0	35.0	**JS-489**	14506	223.2	49.6	**JS-789**	15506	444.0	118.4	**JS-989**	16506	480.0	160.0	1½
JS-190	13507	210.0	30.0	**JS-490**	14507	231.0	44.0	**JS-790**	15507	455.0	104.0	—	—	—	—	1¾
JS-200	13508	208.0	26.0	**JS-500**	14508	240.0	40.0	**JS-800**	15508	450.0	90.0	**JS-900**	16508	464.0	116.0	2
JS-205	13510	200.0	20.0	**JS-505**	14510	232.5	31.0	**JS-805**	15510	425.0	68.0	—	—	—	—	2½
JS-210	13512	198.0	16.5	—	—	—	—	**JS-810**	15512	408.0	54.4	—	—	—	—	3
JS-215	13514	210.0	15.0	**JS-515**	14514	226.8	21.6	**JS-815**	15514	399.0	45.6	—	—	—	—	3½
JS-220	13516	192.0	12.0	**JS-520**	14516	220.8	18.4	**JS-820**	15516	400.0	40.0	—	—	—	—	4
JS-230	13520	192.0	9.6	—	—	—	—	—	—	—	—	—	—	—	—	5
JS-240	13524	192.0	8.0	—	—	—	—	—	—	—	—	—	—	—	—	6
JS-241	13532	192.0	6.0	—	—	—	—	—	—	—	—	—	—	—	—	8
JS-242	13548	192.0	4.0	—	—	—	—	—	—	—	—	—	—	—	—	12
1¼" Hole Size - 5/8" Rod Size																
JS-243	13606	297.6	49.6	—	—	—	—	—	—	—	—	—	—	—	—	1½
JS-245	13608	281.6	35.2	**JS-545**	14608	518.4	86.4	**JS-845**	15608	748.0	149.6	—	—	—	—	2
JS-250	13610	288.0	28.8	**JS-550**	14610	468.0	62.4	**JS-850**	15610	735.0	117.6	—	—	—	—	2½
JS-255	13612	288.0	24.0	**JS-555**	14612	460.8	51.2	**JS-855**	15612	714.0	95.2	—	—	—	—	3
JS-260	13614	280.0	20.0	**JS-560**	14614	462.0	44.0	**JS-860**	15614	658.0	75.2	—	—	—	—	3½
JS-275	13620	272.0	13.6	**JS-575**	14620	435.0	29.0	—	—	—	—	—	—	—	—	5
—	—	—	—	**JS-565**	14616	441.6	36.8	—	—	—	—	—	—	—	—	4
1½" Hole Size - ¾" Rod Size																
JS-290	13708	424.0	53.0	**JS-590**	14708	648.0	108.0	**JS-890**	15708	952.0	190.4	—		—	—	2
JS-295	13710	450.0	45.0	—	—	—	—	**JS-895**	15710	968.8	155.0	**JS-950**	16710	1,472.0	294.4	2½
JS-300	13712	432.0	36.0	—	—	—	—	—	—	—	—	—	—	—	—	3
JS-305	13714	420.0	30.0	—	—	—	—	—	—	—	—	—	—	—	—	3½
JS-310	13716	432.0	27.0	—	—	—	—	—	—	—	—	—	—	—	—	4
JS-320	13720	420.0	21.0	—	—	—	—	—	—	—	—	—	—	—	—	5
JS-330	13724	408.0	17.0	—	—	—	—	—	—	—	—	—	—	—	—	6
2" Hole Size - 1" Rod Size																
JS-335	13810	1,000.0	100.0	—	—	—	—	—	—	—	—	—	—	—	—	2½
JS-360	13820	940.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	5

* Load (in lbs.) @ 10% deflection
** Load (in lbs.) @ maximum deflection (see table above for maximum deflection ratings)

CHROME SILICON DIE SPRINGS



Medium Duty

Marathon Sales



Medium Heavy Duty

Marathon Sales



Heavy Duty

Pressure	Color Code	Maximum Deflection as a Percent of Lgth.	Efficient Operating Range as a Percent of Lgth.
Medium Duty	Blue	50%	25% to 35%
Medium Heavy Duty	Red	37%	20% to 25%
Heavy Duty	Gold	30%	15% to 20%

Chrome silicon die springs are longer lasting than high carbon steel. Shot peened to reduce working stress and to improve the surface. Available in medium, medium-heavy, and heavy pressure styles. Color coded for easy identification.

Medium Duty				Medium Heavy Duty				Heavy Duty				
Item No.	MFG#	Load A	Load B	Item No.	MFG#	Load A	Load B	Item No.	MFG#	Load A	Load B	Lgth.
3/8" Hole Size x 3/16" Rod Size												
JS-101A	D-1101	5.6	28.0	**JS-401A**	D-1201	9.0	33.3	**JS-701A**	D-1301	12.4	37.2	1
JS-102A	D-1102	4.8	30.0	**JS-402A**	D-1202	7.3	33.8	—	—	—	—	1¼
JS-103A	D-1103	3.8	28.5	**JS-403A**	D-1203	6.7	37.2	**JS-703A**	D-1303	9.6	43.2	1½
JS-105A	D-1104	2.8	28.0	**JS-405A**	D-1204	5.0	37.0	—	—	—	—	2
JS-106A	D-1105	2.4	30.0	**JS-406A**	D-1205	4.2	38.9	**JS-706A**	D-1305	6.0	45.0	2½
JS-107A	D-1106	1.8	27.0	—	—	—	—	**JS-707A**	D-1306	4.2	37.8	3
1/2" Hole Size x 9/32" Rod Size												
JS-109A	D-1107	0.1	50.0	**JS-409A**	D-1207	16.8	62.2	—	—	—	—	1
JS-111A	D-1108	9.2	57.5	**JS-411A**	D-1208	13.9	64.4	—	—	—	—	1¼
JS-112A	D-1109	7.6	57.0	**JS-412A**	D-1209	12.0	66.6	**JS-712A**	D-1309	16.4	73.8	1½
JS-113A	D-1109A	6.8	59.5	**JS-413A**	D-1209A	10.4	67.4	—	—	—	—	1¾
JS-114A	D-1110	6.4	64.0	**JS-414A**	D-1210	8.7	64.4	—	—	—	—	2
JS-116A	D-1111	5.2	65.0	**JS-416A**	D-1211	6.8	62.9	—	—	—	—	2½
JS-117A	D-1112	4.0	60.0	—	—	—	—	—	—	—	—	3
JS-118A	D-1113	3.0	52.5	—	—	—	—	**JS-718A**	D-1313	6.4	67.2	3½
5/8" Hole Size x 11/32" Rod Size												
JS-119A	D-1114	13.1	65.5	**JS-419A**	D-1214	27.7	102.5	**JS-719A**	D-1314	42.4	127.2	1
JS-121A	D-1115	12.8	80.0	—	—	—	—	—	—	—	—	1¼
JS-110A	D-1116	10.8	81.0	**JS-410A**	D-1216	19.0	105.5	**JS-710A**	D-1316	27.2	122.4	1½
JS-115A	D-1116A	9.6	84.0	**JS-415A**	D-1216A	16.8	108.9	**JS-715A**	D-1316A	24.0	126.0	1¾
JS-120A	D-1117	8.8	88.0	**JS-420A**	D-1217	14.8	109.5	**JS-720A**	D-1317	20.8	124.8	2
JS-125A	D-1118	6.0	75.0	**JS-425A**	D-1218	11.5	106.4	—	—	—	—	2½
JS-130A	D-1119	5.6	84.0	**JS-430A**	D-1219	10.0	111.0	**JS-730A**	D-1319	14.4	129.6	3
JS-135A	D-1120	4.8	84.0	—	—	—	—	—	—	—	—	3½
JS-140A	D-1121	4.4	88.0	—	—	—	—	—	—	—	—	4
3/4" Hole Size x 3/8" Rod Size												
JS-145A	D-1123	20.0	150.0	**JS-445A**	D-1223	32.0	177.6	**JS-745A**	D-1323	65.6	295.2	1½
JS-150A	D-1123A	17.6	154.0	—	—	—	—	—	—	—	—	1¾
JS-155A	D-1124	14.4	144.0	**JS-455A**	D-1224	24.8	183.5	**JS-755A**	D-1324	49.6	297.6	2
JS-160A	D-1125	12.0	150.0	**JS-460A**	D-1225	19.2	177.6	**JS-760A**	D-1325	37.6	282.0	2½
JS-165A	D-1126	9.6	144.0	**JS-465A**	D-1226	14.4	159.8	**JS-765A**	D-1326	31.2	280.8	3
JS-170A	D-1127	8.0	140.0	**JS-470A**	D-1227	12.8	165.8	**JS-770A**	D-1327	26.4	277.2	3½
JS-180A	D-1129	6.4	144.0	**JS-480A**	D-1229	11.2	186.5	—		—	—	4½
JS-195A	D-1132	4.0	120.0	—	—	—	—	—	—	—	—	6
—		—	—	**JS-475A**	D-1228	12.0	177.6	**JS-775A**	D-1328	23.2	278.4	4
—		—	—	—	—	—	—	**JS-790A**	D-1331	16.0	264.0	5½
1" Hole Size x 1/2" Rod Size												
JS-200A	D-1135	23.2	232.0	**JS-500A**	D-1235	36.8	272.3	**JS-800A**	D-1335	84.0	504.0	2
JS-205A	D-1136	20.0	250.0	**JS-505A**	D-1236	28.8	266.4	**JS-805A**	D-1336	68.0	510.0	2½
JS-210A	D-1137	15.2	228.0	**JS-510A**	D-1237	23.2	257.5	**JS-810A**	D-1337	54.4	489.6	3
JS-215A	D-1138	12.8	224.0	—	—	—	—	**JS-815A**	D-1338	45.6	478.8	3½
JS-220A	D-1139	12.0	240.0	**JS-520A**	D-1239	18.4	272.3	**JS-820A**	D-1339	40.0	480.0	4
JS-225A	D-1140	10.4	234.0	—	—	—	—	—	—	—	—	4½
JS-230A	D-1141	9.6	240.0	—	—	—	—	—	—	—	—	5
JS-240A	D-1143	8.0	240.0	—	—	—	—	**JS-840A**	D-1343	25.6	460.8	6
1¼" Hole Size x 3/8" Rod Size												
JS-245A	D-1147	35.2	352.0	**JS-545A**	D-1247	86.4	639.4	**JS-845A**	D-1347	149.6	897.6	2
JS-250A	D-1148	28.8	360.0	**JS-550A**	D-1248	62.4	577.2	—	—	—	—	2½
JS-255A	D-1149	24.0	360.0	—	—	—	—	—	—	—	—	3
JS-265A	D-1151	17.6	352.0	**JS-565A**	D-1251	36.8	544.6	**JS-865A**	D-1351	66.4	796.8	4
JS-275A	D-1153	13.6	340.0	—	—	—	—	—	—	—	—	5
—	—	—	—	—	—	—	—	**JS-870A**	D-1352	58.4	788.4	4½
1½" Hole Size x 3/4" Rod Size												
JS-290A	D-1159	44.8	448.0	**JS-590A**	D-1259	108.0	799.2	**JS-890A**	D-1359	190.4	1,142.4	2
JS-295A	D-1160	36.8	460.0	—	—	—	—	—	—	—	—	2½
JS-300A	D-1161	33.6	504.0	—	—	—	—	—	—	—	—	3
JS-310A	D-1163	21.6	432.0	**JS-610A**	D-1263	48.0	710.4	**JS-910A**	D-1363	91.2	1,094.4	4
JS-315A	D-1164	20.8	468.0	—	—	—	—	—	—	—	—	4½
JS-320A	D-1165	20.0	500.0	—	—	—	—	—	—	—	—	5
—	—	—	—	**JS-605A**	D-1262	52.8	683.8	—	—	—	—	3½
—	—	—	—	**JS-630A**	D-1267	30.4	674.9	—	—	—	—	6
2" Hole Size x 1" Rod Size												
JS-335A	D-1171	89.6	1,120.0	—	—	—	—	**JS-935A**	D-1371	220.0	1,650.0	2½
JS-360A	D-1176	41.6	1,040.0	—	—	—	—	**JS-960A**	D-1376	104.0	1,560.0	5

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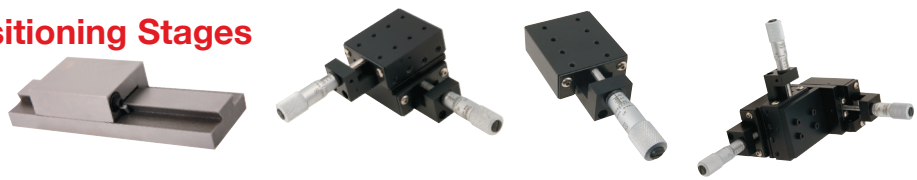
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Dovetail Slides & Positioning Stages

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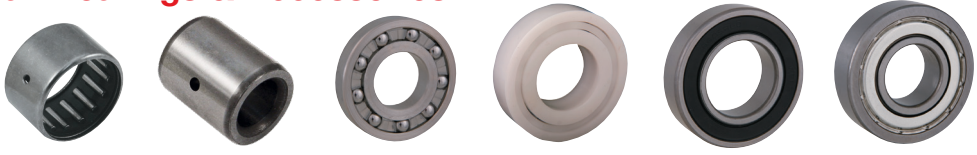
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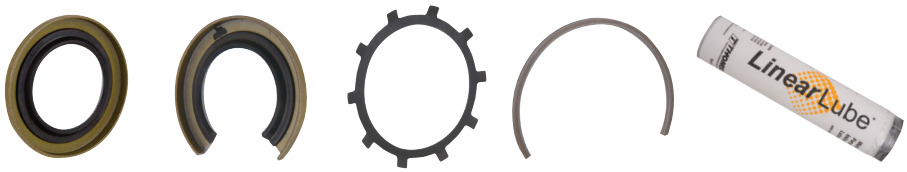
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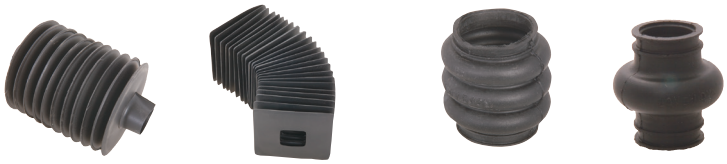
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V-belt Pulleys, Tensioners & Idler Shafts
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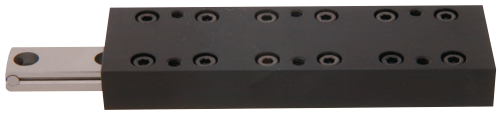
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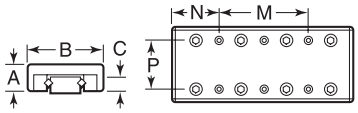


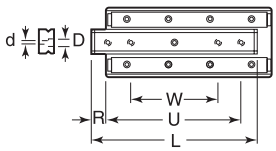
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CROSSED ROLLER SLIDE ASSEMBLIES & ACCESSORIES

Del-Tron
Low Profile Crossed Roller Slide Tables







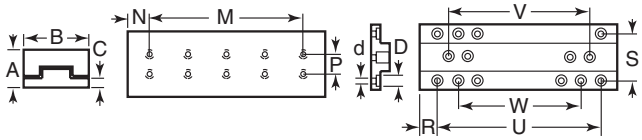
Crossed roller slide tables are factory assembled and ready to install. They use crossed roller bearings to provide very precise linear motion with low friction and high support stiffness for the load. A large selection is available for applications including precision instruments, office and communications equipment, surface grinders, tool grinders, assembly fixtures, and anywhere precise linear positioning is required. Precision ground "V" grooved ways and rollers provide high accuracy and load capacity. Withstands forces in any direction from alternately crossed rollers at 45 degree angle. Contain UNC threaded mounting holes in standard pattern for easy installation. Interchangeable with other manufacturers slides. Straight line accuracy .0001" inch of travel. .0001" position repeatability. All have light weight aluminum carriage. Steel type has hardened steel crossed roller rail set with double V grooved inner rail. Stainless steel type (DT-432 and 445) has stainless steel rollers, cages and fasteners.

								Base Mounting Holes-Spacing and Dimensions (Counterbored)						Carriage Holes-Spacing and Dimensions (Threaded)					
Item No.	Mfg's Part No.	Travel	Load Capacity (Lbs.)	Length L	A	B	C	No. of Holes	U	W	R	D	d	No. of Holes	M	N	P	Thread	Depth
DT-401	LPT-1025	.473	50	.984	.315	.788	.158	2	.709	—	.138	.155	—	4	.709	.138	.551	2-56	.138
DT-432*	LPT-1035SS	.709	70	1.378	.315	.788	.158	2	.984	—	.197	—	2-56	4	1 x 1.102	.138	.551	2-56	.138
DT-408	LPT-2035	.709	88	1.378	.472	1.181	.236	2	.984	—	.197	.241	—	4	1 x 1.102	.138	.866	6-32	.217
DT-409	LPT-2050	1.181	138	1.969	.472	1.181	.236	2	1.378	—	.295	—	6-32	4	1 x 1.693	.138	.866	6-32	.217
DT-411	LPT-2080	1.969	209	3.150	.472	1.181	.236	4	2.756	1.575	.197	—	6-32	4	1 x 1.772	.689	.866	6-32	.217
DT-412	LPT-2095	2.363	231	3.740	.472	1.181	.236	4	3.347	1.772	.197	—	6-32	6	2 x 1.181	.689	.866	6-32	.217
DT-415	LPT-3055	1.181	277	2.165	.630	1.575	.315	2	1.575	—	.295	.327	—	4	1 x 1.575	.295	1.181	10-32	.295
DT-445*	LPT-3055SS	1.181	277	2.165	.630	1.575	.315	2	1.575	—	.295	.327	—	4	1 x 1.575	.295	1.181	10-32	.295
DT-416	LPT-3080	1.772	404	3.150	.630	1.575	.315	4	2.677	1.693	.236	—	10-32	4	1 x 2.560	.295	1.181	10-32	.295
DT-418	LPT-3130	2.953	605	5.118	.630	1.575	.315	4	4.528	2.559	.295	—	10-32	4	1 x 2.953	1.083	1.181	10-32	.295
DT-419	LPT-3155	3.543	682	6.102	.630	1.575	.315	4	5.512	3.740	.295	—	10-32	6	2 x 1.969	1.083	1.181	10-32	.295
DT-421	LPT-3205	5.118	825	8.070	.630	1.575	.315	4	7.480	3.543	.295	—	10-32	6	2 x 2.953	1.083	1.181	10-32	.295

*Stainless steel

Del-Tron
Crossed Roller Slide Tables



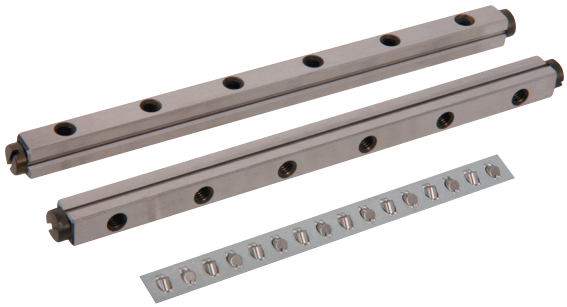


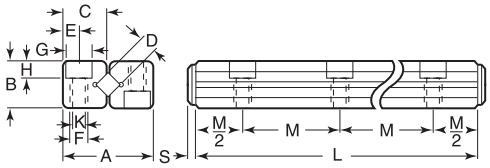
Crossed roller slide tables are factory assembled and ready to install. They use crossed roller bearings to provide very precise linear motion with low friction and high support stiffness for the load. A large selection is available for applications including precision instruments, office and communications equipment, surface grinders, tool grinders, assembly fixtures, and anywhere precise linear positioning is required. Precision ground "V" grooved ways and rollers provide high accuracy and load capacity. Withstands force in any direction from alternately crossed rollers at 45 degree angle. Standard pattern for easy installation and interchangeability with other manufacturers slides. Straight line accuracy .0001" inch. Each table consists of a one piece base, a one piece carriage and a pair of linear bearings. Steel type has cold rolled base and carriage with black oxide finish. Ends of carriage contain tapped holes that permit easy attachment of way covers, bellows or other shields to exclude dust and keep the ways clean. Aluminum is available for situations where particulate contamination must be reduced. Aluminum crossed roller slide tables have a gold anodized carriage and black anodized base.

									Base Mounting Holes-Spacing and Dimensions (Counterbored)								Carriage Holes-Spacing and Dimensions (Threaded)					
Item No.	Mfg's Part No.	Travel	Load Capacity (Lbs.)	Lgth.	A	B	C	No. of Holes	U	W	V	R	S	D	d	No. of Holes	M	N	P	Thread	Depth
Steel																					
DT-307	NBT-1085	1.969	88	3.346	.669	1.181	.217	8	3.071	2.283	—	.138	.866	.161	.100	14	6 x .3937	.492	.394	M2	.275
DT-309	NBT-2050	1.181	137	1.969	.827	1.575	.256	4	1.575	—	—	.197	1.181	.236	.138	4	1 x .5906	.689	.591	M3	.315
DT-312	NBT-2095	2.362	231	3.740	.827	1.575	.256	8	3.346	2.165	—	.197	1.181	.236	.138	10	4 x .5906	.689	.591	M3	.315
DT-315	NBT-2140	3.543	319	5.512	.827	1.575	.256	12	5.118	3.397	—	.197	1.181	.236	.138	16	7 x .5906	.689	.591	M3	.315
DT-319	NBT-3055	1.181	277	2.165	1.102	2.362	.354	4	1.378	—	—	.394	1.575	.295	.177	2	—	1.083	.984	M4	.413
DT-320	NBT-3080	1.772	405	3.150	1.102	2.362	.354	4	2.362	—	—	.394	1.575	.295	.177	4	1 x .9843	1.083	.984	M4	.413
DT-321	NBT-3105	2.362	484	4.134	1.102	2.362	.354	4	3.345	—	—	.394	1.575	.295	.177	6	2 x .9843	1.083	.984	M4	.413
DT-330	NBT-4085	1.969	616	3.346	1.378	3.150	.413	4	2.559	—	—	.394	2.165	.374	.217	2	—	1.673	1.575	M5	.512
DT-331	NBT-4125	2.953	858	4.921	1.378	3.150	.413	4	4.134	—	—	.394	2.165	.374	.217	4	1 x 1.575	1.673	1.575	M5	.512
DT-332	NBT-4165	4.134	1,034	6.496	1.378	3.150	.413	4	5.709	—	—	.394	2.165	.374	.217	6	2 x 1.575	1.673	1.575	M5	.512
DT-339	NBT-6210	5.118	1,914	8.268	1.772	3.937	.512	6	7.480	—	3.543	.394	2.362	.433	.276	6	2 x 1.969	2.165	1.969	M6	.630
Aluminum																					
DT-202	NBT-1065A	1.5	114	2.559	.590	1.181	.160	4	2.165	—	—	.197	.866	.198	.1250	6	2 x .5906	.689	.394	4-40	.177
DT-205	NBT-1125A	3	198	4.921	.590	1.181	.160	8	4.528	3.346	—	.197	.866	.198	.1250	14	6 x .5906	.689	.394	4-40	.177
DT-212	NBT-2065A	1.5	114	2.559	.827	1.575	.256	4	2.165	—	—	.197	1.181	.241	.1495	6	2 x .5906	.689	.591	6-32	.315
DT-214	NBT-2095A	2.5	162	3.740	.827	1.575	.256	8	3.346	2.165	—	.197	1.181	.241	.1495	10	4 x .5906	.689	.591	6-32	.315
DT-215	NBT-2125A	3	198	4.921	.827	1.575	.256	8	4.528	3.346	—	.197	1.181	.241	.1495	14	6 x .5906	.689	.591	6-32	.315
DT-221	NBT-3055A	1	193	2.165	1.102	2.362	.354	4	1.378	—	—	.394	1.575	.328	.1970	2	—	1.083	.984	10-32	.413
DT-222	NBT-3105A	2	338	4.134	1.102	2.362	.354	4	3.345	—	—	.394	1.575	.328	.1970	6	2 x .9843	1.083	.984	10-32	.413
DT-224	NBT-3180A	4	545	7.087	1.102	2.362	.354	4	6.299	—	—	.394	1.575	.328	.1970	12	5 x .9843	1.083	.984	10-32	.413
DT-225	NBT-3205A	5	576	8.071	1.102	2.362	.354	8	7.283	3.346	—	.394	1.575	.328	.1970	14	6 x .9843	1.083	.984	10-32	.413
DT-231	NBT-4085A	2	430	3.346	1.378	3.150	.413	4	2.557	—	—	.394	2.165	.328	.1970	2	—	1.673	1.575	10-32	.512
DT-232	NBT-4125A	3	600	4.921	1.378	3.150	.413	4	4.134	—	—	.394	2.165	.328	.1970	4	1 x 1.575	1.673	1.575	10-32	.512
DT-242	NBT-6160A	4	1,062	6.300	1.772	3.937	.512	4	5.512	—	—	.394	2.362	.406	.2660	4	1 x 1.969	2.165	1.969	¼-20	.630
DT-243	NBT-6260A	6	1,600	10.240	1.772	3.937	.512	4	9.449	—	—	.394	2.362	.406	.2660	8	3 x 1.969	2.165	1.969	¼-20	.630

Customer Service: (800) 253-0421 • (231) 777-3951
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Del-Tron
Crossed Roller Rail Sets



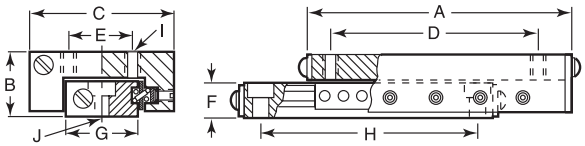


Crossed roller linear rail sets are compact, precision bearings that can support and guide high loads with high accuracy and repeatability, low friction, and low starting force. A complete range of sizes is supplied for use in precision machine tools, measuring instruments and anywhere reciprocating motion with high reliability and long life is required. Each bearing consists of a pair of hardened steel ways containing 90 degree "V" grooves and a row of alternately crossed cylindrical rollers. The hardened steel rollers are captive in a stainless steel cage for easy handling, assembly and permanent alignment. The ways are installed face to face on smooth flat and accurately parallel, coplanar, or perpendicular surfaces. Lubrication required depends on the application ranging from light grease for low speeds less than 50 inches per minute to continuous oil bath or mist at 1,200 inches per minute. Temperature of bearings must not exceed 212 degree Fahrenheit even for short periods, as this will reduce hardness and performance. All are steel. Each set consists of two complete bearings (4 way bars, 2 roller cages, and end stops).

Item No.	Mfg's Part No.	No. of Roller	Lgth. L	Travel	Number Holes	Load Lbs.	A	B	C	D	E	F Thread	F Cap Screw	G	H	K	M	S
DT-1011	NB-2030	5	1.181	.709	2	66	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079
DT-1012	NB-2045	8	1.772	.945	3	105	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079
DT-1013	NB-2060	11	2.362	1.181	4	145	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079
DT-1015	NB-2090	16	3.544	1.969	6	211	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079
DT-1051	NB-4080	7	3.150	2.283	2	308	.866	.433	.402	.158	.1772	M5	#8	.315	.165	.169	1.5748	.079
DT-1071	NB-6100	8	3.937	2.165	2	704	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118
DT-1072	NB-6150	12	5.906	3.346	3	1,056	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118
DT-1074	NB-6250	20	9.843	5.906	5	1,760	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118

Del-Tron
Cross Roller Slide Assemblies





For higher load carrying capacity than precision ball slide assemblies and when operating at high cycling rates or with shock and overhanging loads, cross roller slides are used for improved performance. Cross roller slides provide accuracy of .0001" of travel, repeatability .0001" exceeding precision ball slides. Cross roller slides are not as naturally cleaning as ball slides. In operating environments with little or no protection against dust and when heavy loads are not a consideration, consider ball slides.

- Positive stops prevent over-travel
- Rollers improve load capacity 8-10 times that of balls
- Alternately crossed rollers handle force in any direction
- Lightweight aluminum carriage and base
- Interchangeable with many types of ball slides
- Four tapped and threaded carriage holes and two counter bored base holes simplify installation and component mounting

Item No.	Mfg's Part No.	Travel	Load Capacity (Lbs.)	A	B	C	Carriage Hole Spacing D	Carriage Hole Spacing E	Base Dimension Hole Spacing F	Base Dimension Hole Spacing G	Base Dimension Hole Spacing H	Base and Carriage Holes I and J
DT-71	RD-1	.50	30	1.06	.32	.56	.625	.218	.187	.250	.750	2-56
DT-72	RD-2	1	55	2.06	.32	.56	1.625	.218	.187	.250	1.375	2-56
DT-73	RD-3	2	66	3.06	.32	.56	2.625	.218	.187	.250	2.375	2-56
DT-81	RE-1	.50	48	1.06	.40	.75	.625	.375	.250	.375	.750	4-40
DT-82	RE-2	1	78	2.06	.40	.75	1.625	.375	.250	.375	1.375	4-40
DT-83	RE-3	2	94	3.06	.40	.75	2.625	.375	.250	.375	2.375	4-40
DT-92	RN-2	1.5	132	2.56	.53	1.06	2.250	.437	.312	.500	2.125	6-32
DT-93	RN-3	2	220	3.56	.53	1.06	3.250	.437	.312	.500	3.125	6-32
DT-94	RN-4	3	264	4.56	.53	1.06	4.000	.437	.312	.500	3.250	6-32
DT-121	RS1-1	1	132	2.00	.62	1.50	1.375	.625	.340	.750	1.500	6-32
DT-122	RS1-2	2	176	3.00	.62	1.50	2.375	.625	.340	.750	2.500	6-32
DT-123	RS1-3	3	176	4.00	.62	1.50	3.375	.625	.340	.750	3.500	6-32
DT-124	RS1-4	4	308	6.00	.62	1.50	5.375	.625	.340	.750	4.000	6-32
DT-131	RS2-1	1	132	2.00	.75	1.75	1.375	.875	.400	.875	1.625	6-32
DT-132	RS2-2	2	176	3.25	.75	1.75	2.625	.875	.400	.875	2.750	6-32
DT-133	RS2-3	3	176	4.00	.75	1.75	3.375	.875	.400	.875	3.500	6-32
DT-141	RS3-1.5	1.5	264	2.62	1.00	2.62	1.625	1.250	.625	1.500	1.875	10-32
DT-142	RS3-2	2	352	4.00	1.00	2.62	3.000	1.250	.625	1.500	3.375	10-32
DT-143	RS3-3	3	440	5.00	1.00	2.62	4.000	1.250	.625	1.500	4.375	10-32
DT-144	RS3-4	4	440	6.00	1.00	2.62	5.000	1.250	.625	1.500	5.375	10-32
DT-146*	RS3-6	6	704	9.00	1.00	2.62	3.000	1.250	.625	1.500	7.000	10-32

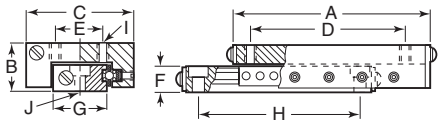
*Has 6 carriage holes. D Carriage Hole Spacing value is minimum centered around mean position.

BALL SLIDE ASSEMBLIES & ACCESSORIES

Del-Tron
Precision Ball Slide Assemblies

Del-Tron Precision, Inc.





These precision linear ball slides have a typical coefficient of friction of .003 and provide straight line accuracy of .0005" per inch of travel. At load capacity, a life of 10 million inches of travel can be expected. The expected life at ½ the rated load is 100 million inches.

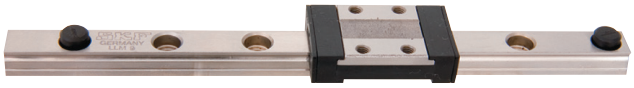
- Factory preload adjustment prevents sideplay and backlash
- Lightweight aluminum carriage and base with high load capacity
- Four tapped and threaded carriage holes and counter bored base holes simplify installation and component mounting
- Long life, self-cleaning ball bearing needs no lubrication
- Positional repeatability .0002 inch
- Clear anodized finish

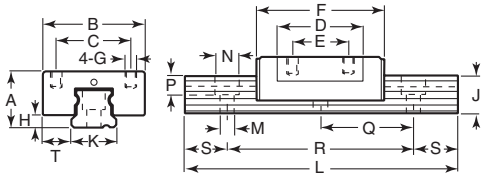
Item No.	Mfg's Part No.	Travel	Load Capacity (Lbs.)	A	B	C	Carriage Hole Spacing D	Carriage Hole Spacing E	Base Hole Dimensions F	Base Hole Dimensions G	Base Hole Dimensions Hole Spacing H	Carriage Hole I	Base Hole J
DT-11*	C-1	.50	1.5	.75	.23	.38	.375	.156	.135	.156	.375	2-56	2-56
DT-12*	C-2	1	1.5	1.25	.23	.38	.875	.156	.135	.156	.875	2-56	2-56
DT-13*	C-3	1.5	1.5	1.75	.23	.38	1.375	.156	.135	.156	1.375	2-56	2-56
DT-21	D-1	.50	4	1.06	.32	.56	.625	.218	.187	.250	.750	2-56	2-56
DT-22	D-2	1.00	8	2.06	.32	.56	1.625	.218	.187	.250	1.375	2-56	2-56
DT-23	D-3	2.00	12	3.06	.32	.56	2.625	.218	.187	.250	2.375	2-56	2-56
DT-24	D-4	3.00	14	4.06	.32	.56	3.625	.218	.187	.250	3.375	2-56	2-56
DT-25	D-5	4.00	16	5.06	.32	.56	4.625	.218	.187	.250	3.500	2-56	2-56
DT-26	D-6	5.00	18	6.06	.32	.56	5.625	.218	.187	.250	4.500	2-56	2-56
DT-31	E-1	.50	8	1.06	.41	.75	.625	.375	.250	.375	.750	4-40	4-40
DT-32	E-2	1.00	10	2.06	.41	.75	1.625	.375	.250	.375	1.375	4-40	4-40
DT-33	E-3	2.00	12	3.06	.41	.75	2.625	.375	.250	.375	2.375	4-40	4-40
DT-34	E-4	3.00	14	4.06	.41	.75	3.625	.375	.250	.375	3.375	4-40	4-40
DT-35	E-5	4.00	16	5.06	.41	.75	4.625	.375	.250	.375	3.500	4-40	4-40
DT-36	E-6	5.00	18	6.06	.41	.75	5.625	.375	.250	.375	4.500	4-40	4-40
DT-101	M-1	.50	10	1.56	.50	1.00	1.250	.437	.250	.500	1.250	6-32	4-40
DT-102	M-2	1.00	12	2.56	.50	1.00	2.250	.437	.250	.500	2.250	6-32	4-40
DT-1025	M-2.5	1.50	13	3.06	.50	1.00	2.750	.437	.250	.500	2.750	6-32	4-40
DT-103	M-3	2.00	15	3.56	.50	1.00	3.250	.437	.250	.500	3.250	6-32	4-40
DT-104	M-4	3.00	18	4.56	.50	1.00	4.250	.437	.250	.500	4.250	6-32	4-40
DT-41	N-1	.75	15	1.56	.53	1.06	1.250	.437	.312	.500	1.125	6-32	6-32
DT-42	N-2	1.50	18	2.56	.53	1.06	2.250	.437	.312	.500	2.125	6-32	6-32
DT-43	N-3	2.00	20	3.56	.53	1.06	3.250	.437	.312	.500	3.125	6-32	6-32
DT-44	N-4	3.00	25	4.56	.53	1.06	4.000	.437	.312	.500	3.250	6-32	6-32
DT-46	N-6	4.00	30	6.00	.53	1.06	5.500	.437	.312	.500	4.000	6-32	6-32
DT-48	N-8	6.00	35	8.00	.53	1.06	7.500	.437	.312	.500	5.000	6-32	6-32
DT-111	S1-1	1.00	15	2.00	.62	1.50	1.375	.625	.340	.750	1.500	6-32	6-32
DT-112	S1-2	2.00	20	3.00	.62	1.50	2.375	.625	.340	.750	2.500	6-32	6-32
DT-113	S1-3	3.00	25	4.00	.62	1.50	3.375	.625	.340	.750	3.500	6-32	6-32
DT-1135	S1-3.5	3.50	30	5.00	.62	1.50	4.375	.625	.340	.750	3.500	6-32	6-32
DT-114	S1-4	4.00	35	6.00	.62	1.50	5.375	.625	.340	.750	4.000	6-32	6-32
DT-116	S1-6	6.00	45	8.00	.62	1.50	7.375	.625	.340	.750	5.000	6-32	6-32
DT-118	S1-8	8.00	55	10.00	.62	1.50	9.375	.625	.340	.750	7.000	6-32	6-32
DT-51	S2-1	1.00	20	2.00	.75	1.75	1.375	.875	.400	.875	1.625	6-32	6-32
DT-515	S2-1.5	1.50	30	2.75	.75	1.75	2.125	.875	.400	.875	2.250	6-32	6-32
DT-52	S2-2	2.00	42	3.25	.75	1.75	2.625	.875	.400	.875	2.750	6-32	6-32
DT-53	S2-3	3.00	52	4.00	.75	1.75	3.375	.875	.400	.875	3.500	6-32	6-32
DT-54	S2-4	4.00	60	6.00	.75	1.75	5.500	.875	.400	.875	4.000	6-32	6-32
DT-55	S2-6	6.00	75	8.00	.75	1.75	7.500	.875	.400	.875	5.000	6-32	6-32
DT-56	S2-8	8.00	90	10.00	.75	1.75	9.500	.875	.400	.875	7.000	6-32	6-32
DT-61	S3-1	1.00	30	2.62	1.00	2.62	2.125	1.250	.625	1.500	2.125	10-32	10-32
DT-615	S3-1.5	1.50	35	2.62	1.00	2.62	1.625	1.250	.625	1.500	1.875	10-32	10-32
DT-62	S3-2	2.00	62	4.00	1.00	2.62	3.000	1.250	.625	1.500	3.375	10-32	10-32
DT-63	S3-3	3.00	88	5.00	1.00	2.62	4.000	1.250	.625	1.500	4.375	10-32	10-32
DT-64	S3-4	4.00	118	6.00	1.00	2.62	5.000	1.250	.625	1.500	5.375	10-32	10-32
DT-65	S3-5	5.00	135	8.00	1.00	2.62	7.000	1.250	.625	1.500	7.375	10-32	10-32
DT-66**	S3-6	6.00	150	9.00	1.00	2.62	3.000	1.250	.625	1.500	7.000	10-32	10-32
DT-69**	S3-9	9.00	185	12.00	1.00	2.62	3.000	1.250	.625	1.500	10.000	10-32	10-32
DT-612**	S3-12	12.00	205	15.00	1.00	2.62	3.000	1.250	.625	1.500	13.000	10-32	10-32

*Base holes are tapped and threaded and not counterbored
**D Dimension is minimum centered around mean position.
Note: DT-66 has six carriage holes, DT-69 has eight and DT-612 has ten.

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

SKF
Miniature Profile Ball Rail Guides





Ideal for precision applications where mounting space is limited. Small and lightweight with high load carrying capacity and high speed linear motion up to 3m/second. Gothic arch grooves at the raceway contacts enable the slide to sustain loads and movements from any direction. Height tolerance is +/- .020 mm. Width tolerance is +/-.025 mm. Free of clearance, no preload for applications with constant load and low friction. All parts are stainless steel or plastic for corrosion resistance. End caps have oil holes for easy relubrication. All dimensions are in millimeters.

Item No.	Mfg's Part No.	Number of Carriages	L	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	Basic Load Rating (Lbs.)
SKF-0	LLMHS 9-TA R1 T0-80 P5 W1 E=0	1	80	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	60	10	5.5	416
SKF-1	LLMHS 9-TA R1 T0-110 P5 W1 E=0	1	110	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	80	15	5.5	416
SKF-2	LLMHS 9-TA R2 T0-110 P5 W1 E=0	2	110	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	80	15	5.5	416
SKF-3	LLMHS 9-TA R1 T0-140 P5 W1 E=0	1	140	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	120	10	5.5	416
SKF-4	LLMHS 9-TA R2 T0-140 P5 W1 E=0	2	140	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	120	10	5.5	416
SKF-5	LLMHS 9-TA R1 T0-170 P5 W1 E=0	1	170	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	140	15	5.5	416
SKF-6	LLMHS 9-TA R2 T0-170 P5 W1 E=0	2	170	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	140	15	5.5	416
SKF-7	LLMHS 9-TA R2 T0-200 P5 W1 E=0	2	200	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	180	10	5.5	416
SKF-8	LLMHS 9-TA R2 T0-260 P5 W1 E=0	2	260	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	240	10	5.5	416
SKF-9	LLMHS 9-TA R2 T0-290 P5 W1 E=0	2	290	10	20	15	21.5	10	32	M3 x 3	2	6.5	9	3.5	6	3.5	20	260	15	5.5	416
SKF-10	LLMHS 12-TA R1 T0-110 P5 W1 E=0	1	110	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	75	17.5	7.5	573
SKF-11	LLMHS 12-TA R1 T0-150 P5 W1 E=0	1	150	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	125	12.5	7.5	573
SKF-12	LLMHS 12-TA R2 T0-150 P5 W1 E=0	2	150	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	125	12.5	7.5	573
SKF-13	LLMHS 12-TA R1 T0-190 P5 W1 E=0	1	190	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	150	20	7.5	573
SKF-14	LLMHS 12-TA R2 T0-190 P5 W1 E=0	2	190	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	150	20	7.5	573
SKF-15	LLMHS 12-TA R1 T0-230 P5 W1 E=0	1	230	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	200	15	7.5	573
SKF-16	LLMHS 12-TA R2 T0-230 P5 W1 E=0	2	230	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	200	15	7.5	573
SKF-17	LLMHS 12-TA R2 T0-310 P5 W1 E=0	2	310	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	275	17.5	7.5	573
SKF-18	LLMHS 12-TA R2 T0-390 P5 W1 E=0	2	390	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	350	20	7.5	573
SKF-19	LLMHS 12-TA R2 T0-470 P5 W1 E=0	2	470	13	27	20	23	15	36	M3 x 3.5	3	8.8	12	3.5	6	4.5	25	450	10	7.5	573
SKF-20	LLMWS 12-TA R1 T0-110 P5 W1 E=0	1	110	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.8	40	80	15	8	742
SKF-21	LLMWS 12-TA R1 T0-150 P5 W1 E=0	1	150	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	120	15	8	742
SKF-222	LLMWS 12-TA R2 T0-150 P5 W1 E=0	2	150	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	120	15	8	742
SKF-23	LLMWS 12-TA R1 T0-190 P5 W1 E=0	1	190	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	160	15	8	742
SKF-24	LLMWS 12-TA R2 T0-190 P5 W1 E=0	2	190	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	160	15	8	742
SKF-25	LLMWS 12-TA R1 T0-230 P5 W1 E=0	1	230	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	200	15	8	742
SKF-26	LLMWS 12-TA R2 T0-230 P5 W1 E=0	2	230	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	200	15	8	742
SKF-27	LLMWS 12-TA R2 T0-310 P5 W1 E=0	2	310	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	280	15	8	742
SKF-28	LLMWS 12-TA R2 T0-390 P5 W1 E=0	2	390	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	340	15	8	742
SKF-29	LLMWS 12-TA R2 T0-470 P5 W1 E=0	2	470	14	40	28	32.5	15	45.5	M3 x 3.5	3	8.8	24	4.5	8	4.5	40	440	15	8	742

Note: Basic load rating is the constant load which a system can theoretically accept for a nominal life of 100,000 m of travel with 90% reliability

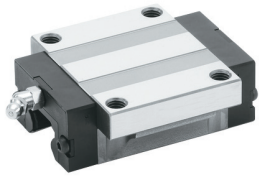
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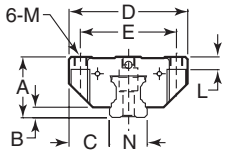
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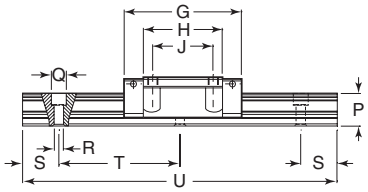
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BALL SLIDE ASSEMBLIES & ACCESSORIES

SKF
Ball Bearing Carriages







Flanged with Lube Reservoir

Item No.	Mfg's Part No.	A	C	D	E	G	H	J	L	M	Load Rating (Lbs.) Dynamic	Static
SKF-361T	LLTHC 15 A T0 P5	24	16.0	47	38	62.0	40.0	30	8.0	M5 x 0.8	1,752	3,034
SKF-362T	LLTHC 20 A T0 P5	30	21.5	63	53	72.0	50.0	40	9.0	M6 x 1	4,225	5,483
SKF-363T	LLTHC 25 A T0 P5	36	23.5	70	57	82.0	57.0	45	12.0	M8 x 1.25	5,124	6,831
SKF-364T	LLTHC 30 A T0 P5	42	31.0	90	72	100.4	67.4	52	11.5	M10 x 1.5	7,124	9,281
SKF-365T	LLTHC 35 A T0 P5	48	33.0	100	82	114.0	77.0	62	13.0	M10 x 1.5	9,415	12,135

Flanged Long with Lube Reservoir

Item No.	Mfg's Part No.	A	C	D	E	G	H	J	L	M	Load Rating (Lbs.) Dynamic	Static
SKF-502T	LLTHC 20 LA T0 P5	30	21.5	63	53	88.2	66.2	40	9.0	M6 x 1	5,483	7,910
SKF-503T	LLTHC 25 LA T0 P5	36	23.5	70	57	104.1	79.1	45	12	M8 x 1.25	6,832	10,225
SKF-504T	LLTHC 25 LA T0 P5	42	31.0	90	72	125.4	92.4	52	11.5	M10 x 1.5	8,989	12,989
SKF-505T	LLTHC 35 LA T0 P5	48	33.0	100	82	142.5	105.5	62	13.0	M10 x 1.5	12,494	18,202
SKF-506T	LLTHC 45 LA T0 P5	60	37.5	120	100	167.0	128.0	80	15.0	M12 x 1.75	20,315	28,876

Narrow with Lube Reservoir

Item No.	Mfg's Part No.	A	C	D	E	G	H	J	L	M	Load Rating (Lbs.) Dynamic	Static
SKF-507T	LLTHC 15 R T0 P5	28	9.5	34	26	62.0	40.0	26	7.5	M4 x 0.7	1,753	3,034
SKF-508T	LLTHC 20 U T0 P5	30	12.0	44	32	72.0	50.0	36	6.5	M5 x 0.8	4,225	5,483
SKF-509T	LLTHC 25 R T0 P5	40	12.5	48	35	82.0	57.0	35	10.0	M6 x 1	5,124	6,831
SKF-510T	LLTHC 30 R T0 P5	45	16.0	60	40	100.4	67.4	40	11.2	M8 x 1	7,124	9,281
SKF-511T	LLTHC 35 R T0 P5	55	18.0	70	50	114.0	77.0	50	17.0	M8 x 1.25	9,415	12,135
SKF-512T	LLTHC 45 R T0 P5	70	20.5	86	60	135.0	96.0	60	20.5	M10 x 1.5	15,303	19,258

Narrow Long with Lube Reservoir

Item No.	Mfg's Part No.	A	C	D	E	G	H	J	L	M	Load Rating (Lbs.) Dynamic	Static
SKF-513T	LLTHC 25 LR T0 P5	40	12.5	48	35	104.1	79.1	50	10.0	M6 x 1	6,832	10,225
SKF-514T	LLTHC 30 LR T0 P5	45	16.0	60	40	125.4	92.4	60	11.2	M8 x 1.25	8,989	12,989
SKF-515T	LLTHC 35 LR T0 P5	55	18.0	70	50	142.5	105.5	72	17.0	M8 x 1.25	12,494	18,202
SKF-516T	LLTHC 45 LR T0 P5	70	20.5	86	60	167.0	128.0	80	20.5	M10 x 1.5	20,315	28,876

Rails

Item No.	Mfg's Part No.	Use with Carriage No.	B	N	P	Q	R	S	T	U
SKF-366T	LLTHR 15-220 P5/E=0	SKF-361T, SKF-507T	4.6	15	14	7.5	4.5	20	60	220
SKF-367T	LLTHR 15-460 P5/E=0	SKF-361T, SKF-507T	4.6	15	14	7.5	4.5	20	60	460
SKF-368T	LLTHR 15-820 P5/E=0	SKF-361T, SKF-507T	4.6	15	14	7.5	4.5	20	60	820
SKF-369T	LLTHR 20-280 P5/E=0	SKF-362T, SKF-502T, SKF-508T	5.0	20	18	9.5	6.0	20	60	280
SKF-370T	LLTHR 20-640 P5/E=0	SKF-362T, SKF-502T, SKF-508T	5.0	20	18	9.5	6.0	20	60	640
SKF-371T	LLTHR 20-1240 P5/E=0	SKF-362T, SKF-502T, SKF-508T	5.0	20	18	9.5	6.0	20	60	1,000
SKF-372T	LLTHR 25 340 P5/E=0	SKF-363T, SKF-503T, SKF-509T, SKF-513T	7.0	23	22	11.0	7.0	20	60	340
SKF-374T	LLTHR 25-1240 P5/E=0	SKF-363T, SKF-503T, SKF-509T, SKF-513T	7.0	23	22	11.0	7.0	20	60	1,240
SKF-375T	LLTHR 25 1600 P5/E=0	SKF-363T, SKF-503T, SKF-509T, SKF-513T	7.0	23	22	11.0	7.0	20	60	1,600
SKF-376T	LLTHR 30-440 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	440
SKF-377T	LLTHR 30-760 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	760
SKF-378T	LLTHR 30-1240 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	1,240
SKF-379T	LLTHR 30-1640 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	1,640
SKF-380T	LLTHR 30-2040 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	2,040
SKF-381T	LLTHR 30-2520 P5/E=0	SKF-364T, SKF-504T, SKF-510T, SKF-514T	9.0	28	26	14.0	9.0	20	80	2,520
SKF-382T	LLTHR 35-440 P5/E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	440
SKF-383T	LLTHR 35-760 P5/E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	760
SKF-384T	LLTHR 35-1240 P5 E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	1,240
SKF-385T	LLTHR 35-1640 P5/E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	1,640
SKF-386T	LLTHR 35-2040 P5/E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	2,040
SKF-387T	LLTHR 35-2520 P5/E=0	SKF-365T, SKF-505T, SKF-511T, SKF-515T	9.5	34	29	14.0	9.0	20	80	2,520

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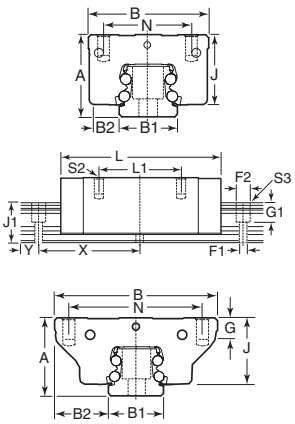
The Thomson 500 Series Ball Profile Rail Linear Guides provides long life, exceptional rigidity, high dynamic and static load capacities in all direction; accommodates high moment loads; and maintains a high running accuracy. These properties result in improved machine accuracies and rigidity resulting in reduced vibration extending machine and tool life. This has a direct effect on operational efficiency resulting in cost savings for the user. These units are a drop-in replacement for existing linear ball guide systems. The rails are subjected to multiple straightening processes during and after grinding of the ball paths to ensure straight accurate rails. A patented, custom insert molded recirculation path that has an optimized geometric shape and minimal transitions ensures smooth and quiet operation in both low and high-speed operation. Built-in undercarriage, low-drag longitudinal seals protect the balls and ball path from contamination. These longitudinal seals are an added protection to increase the life and overall performance. A special trapezoidal profile maximizes the carriage cross section, resulting in the highest possible rigidity. All ball bearing raceways are hardened to a minimum of 60 Rockwell C.

The carriages are available in standard and narrow profiles, as "clearance" units, which are the most commonly specified type in the market today.

Carriages and rails are available in carbon steel or thin dense, chrome-coated carbon steel and are sold separately.

Thomson
Ball Bearing Carriages





Standard

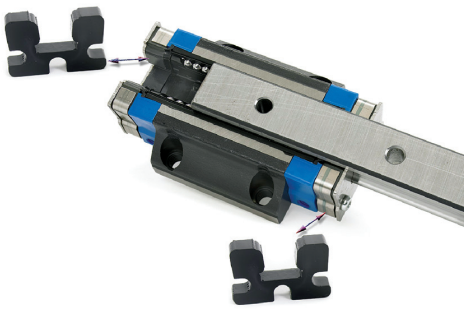
Item No.	Mfg's Part No.	Size	A	B	B1	B2	N	J	G	L	L1	S2	Load Rating (N) Dynamic	Load Rating (N) Static
Carbon Steel - Standard														
TLM-3085	511H15A0	15	24	47	15	16	38	20.2	7	59.8	30	M5	9,000	19,600
TLM-3086	511H20A0	20	30	63	20	21.5	53	25.5	8	75.5	40	M6	14,400	31,400
TLM-3087	511H25A0	25	36	70	25	23.5	57	30.5	9	89.3	45	M8	21,100	46,100
TLM-3088	511H30A0	30	42	90	30	31	72	35.9	12	103	52	M10	29,200	63,700
TLM-3190	511H35A0	35	48	100	35	33	82	41	12	118	62	M10	38,700	84,400
TLM-3089	511H45A0	45	60	120	45	37.5	100	50.8	15	145	80	M12	61,900	134,800
Carbon Steel - Narrow														
TLM-3091	511H15C0	15	24	34	15	9.5	26	20.2	5	59.8	26	M4	9,000	19,600
TLM-3092	511H20C0	20	30	44	20	12	32	25.5	7	75.5	36	M5	14400	31,400
TLM-3093	511H25C0	25	36	48	25	12.5	45	30.5	9	89.3	45	M6	21,100	46,100
TLM-3094	511H30C0	30	42	60	30	16	40	35.9	11	103	40	M8	29,200	63,700
TLM-3191	511H35C0	35	48	70	35	18	50	41	12	118	50	M8	38,700	84,400
Thin Dense Chrome - Standard														
TLM-3096	511H15A0D	15	24	47	15	16	38	20.2	7	59.8	30	M5	9,000	19,600
TLM-3097	511H20A0D	20	30	63	20	21.5	53	25.5	8	75.5	40	M6	14,400	31,400
TLM-3098	511H25A0D	25	36	70	25	23.5	57	30.5	9	89.3	45	M8	21,100	46,100
TLM-3099	511H30A0D	30	42	90	30	31	72	35.9	12	103	52	M10	29,200	63,700
TLM-3192	511H35A0D	35	48	100	35	33	82	41	12	118	62	M10	38,700	84,400
TLM-3100	511H45A0D	45	60	120	45	37.5	100	50.8	15	145	80	M12	61,900	134,800
Thin Dense Chrome - Narrow														
TLM-3102	511H15C0D	15	24	34	15	9.5	26	20.2	5	59.8	26	M4	9,000	19,600
TLM-3103	511H20C0D	20	30	44	20	12	32	25.5	7	75.5	36	M5	14,400	31,400
TLM-3104	511H25C0D	25	36	48	25	12.5	45	30.5	9	89.3	45	M6	21,100	46,100
TLM-3105	511H30C0D	30	42	60	30	16	40	35.9	11	103	40	M8	29,200	63,700
TLM-3193	511H35C0D	35	48	70	35	18	50	41	12	118	50	M8	38,700	84,400

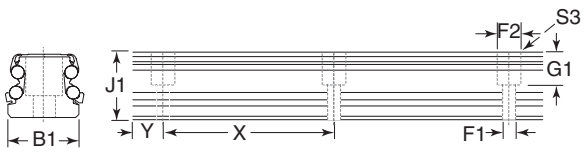
Note: Dynamic load ratings are based on 100km of travel to compare to manufactures using 50km divide value for 50km by 1.26
Note: All dimensions in mm unless otherwise specified

BALL SLIDE ASSEMBLIES & ACCESSORIES

Thomson
Ball Bearing Guide Rails

THOMSON





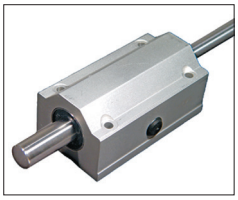
Item No.	Mfg's Part No.	Use with Carriage No.	Size	B1	J1	F1	F2	G1	S3	S3	X	Y	Length
Carbon Steel													
TLM-3109	521H15A+280	TLM-3085, TLM-3091	15	15	15.7	4.5	8	4.5	M4	M4	60	20	280
TLM-3107	521H15A+160	TLM-3085, TLM-3091	15	15	15.7	4.5	8	4.5	M4	M4	60	20	160
TLM-3108	521H15A+220	TLM-3085, TLM-3091	15	15	15.7	4.5	8	4.5	M4	M4	60	20	220
TLM-3111	521H15A+820	TLM-3085, TLM-3091	15	15	15.7	4.5	8	4.5	M4	M4	60	20	820
TLM-3110	521H15A+460	TLM-3085, TLM-3091	15	15	15.7	4.5	8	4.5	M4	M4	60	20	460
TLM-3112	521H20A+160	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	160
TLM-3114	521H20A+280	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	280
TLM-3113	521H20A+220	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	220
TLM-3116	521H20A+820	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	820
TLM-3115	521H20A+460	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	460
TLM-3117	521H20A+1240	TLM-3086, TLM-3092	20	20	19	5.8	10	6.5	M5	M5	60	20	1,240
TLM-3120	521H25A+280	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	280
TLM-3125	521H25A+1600	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	1,600
TLM-3121	521H25A+460	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	460
TLM-3119	521H25A+220	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	220
TLM-3118	521H25A+160	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	160
TLM-3123	521H25A+820	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	820
TLM-3124	521H25A+1240	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	1,240
TLM-3122	521H25A+660	TLM-3087, TLM-3093	25	23	22.7	7	11	8	M6	M6	60	20	660
TLM-3126	521H30A+280	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	280
TLM-3131	521H30A+1640	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	1,640
TLM-3129	521H30A+840	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	840
TLM-3130	521H30A+1240	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	1,240
TLM-3132	521H30A+2040	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	2,040
TLM-3128	521H30A+680	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	680
TLM-3127	521H30A+440	TLM-3088, TLM-3094	30	28	26	9	15	10	M7	M7	80	20	440
TLM-3137	521H35A+1240	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	1,240
TLM-3134	521H35A+440	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	440
TLM-3135	521H35A+680	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	680
TLM-3138	521H35A+1640	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	1,640
TLM-3136	521H35A+840	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	840
TLM-3139	521H35A+2040	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	2,040
TLM-3140	521H35A+2520	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	2,520
TLM-3133	521H35A+280	TLM-3190, TLM-3191	35	34	29.5	9	15	12	M8	M8	80	20	280
TLM-3141	521H45A+360	TLM-3089	45	45	37	14	20	15	M12	M12	105	20	360
TLM-3142	521H45A+570	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	570
TLM-3144	521H45A+1200	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	1,200
TLM-3146	521H45A+2040	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	2,040
TLM-3147	521H45A+2460	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	2,460
TLM-3143	521H45A+885	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	885
TLM-3145	521H45A+1620	TLM-3089	45	45	37	14	20	15	M12	M12	105	22.5	1,620
Thin Dense Chrome													
TLM-3150	521H15AD+280	TLM-3096, TLM-3102	15	15	15.7	4.5	8	4.5	M4	M4	60	20	280
TLM-3148	521H15AD+160	TLM-3096, TLM-3102	15	15	15.7	4.5	8	4.5	M4	M4	60	20	160
TLM-3152	521H15AD+820	TLM-3096, TLM-3102	15	15	15.7	4.5	8	4.5	M4	M4	60	20	820
TLM-3149	521H15AD+220	TLM-3096, TLM-3102	15	15	15.7	4.5	8	4.5	M4	M4	60	20	220
TLM-3151	521H15AD+460	TLM-3096, TLM-3102	15	15	15.7	4.5	8	4.5	M4	M4	60	20	460
TLM-3156	521H20AD+460	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	460
TLM-3158	521H20AD+1240	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	1,240
TLM-3154	521H20AD+220	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	220
TLM-3157	521H20AD+820	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	820
TLM-3155	521H20AD+280	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	280
TLM-3153	521H20AD+160	TLM-3079, TLM-3103	20	20	19	5.8	10	6.5	M5	M5	60	20	160
TLM-3159	521H25AD+160	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	160
TLM-3162	521H25AD+460	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	460
TLM-3163	521H25AD+660	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	660
TLM-3165	521H25AD+1240	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	1,240
TLM-3166	521H25AD+1600	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	1,600
TLM-3161	521H25AD+280	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	280
TLM-3164	521H25AD+820	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	820
TLM-3160	521H25AD+220	TLM-3098, TLM-3104	25	23	22.7	7	11	8	M6	M6	60	20	220
TLM-3167	521H30AD+280	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	280
TLM-3171	521H30AD+1240	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	1,240
TLM-3168	521H30AD+440	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	440
TLM-3172	521H30AD+1640	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	1,640
TLM-3169	521H30AD+680	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	680
TLM-3170	521H30AD+840	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	840
TLM-3173	521H30AD+2040	TLM-3099, TLM-3105	30	28	26	9	15	10	M7	M7	80	20	2,040
TLM-3179	521H35AD+1640	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	1,640
TLM-3176	521H35AD+680	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	680
TLM-3178	521H35AD+1240	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	1,240
TLM-3181	521H35AD+2520	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	2,520
TLM-3180	521H35AD+2040	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	2,040
TLM-3177	521H35AD+840	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	840
TLM-3174	521H35AD+280	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	280
TLM-3175	521H35AD+440	TLM-3192, TLM-3193	35	34	29.5	9	15	12	M8	M8	80	20	440
TLM-3182	521H45AD+360	TLM-3100	45	45	37	14	20	15	M12	M12	105	20	360
TLM-3185	521H45AD+1200	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	1,200
TLM-3186	521H45AD+1620	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	1,620
TLM-3184	521H45AD+885	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	885
TLM-3187	521H45AD+2040	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	2,040
TLM-3183	521H45AD+570	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	570
TLM-3188	521H45AD+2460	TLM-3100	45	45	37	14	20	15	M12	M12	105	22.5	2,460

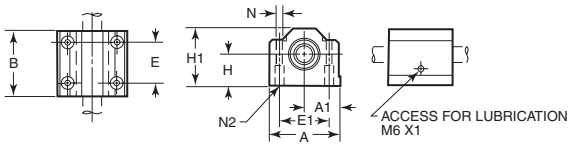
Note: All dimensions in mm unless otherwise specified

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Thomson
Ball Bearing Pillow Blocks
Single -Twin
Metric

THOMSON

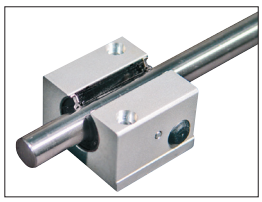


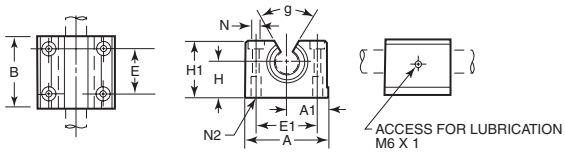


Item No.	Mfg's Part No.	Dia.	A	B	+/-.020 A1	+/-.1 E	+/-.1 E1	N	N2	+/-.020 H	H1	Dynamic Load (lbf)
Metric - Single Closed Type Pillow Block												
TLM-3013	SPPBM08	8	35	32	17.5	20	25	3.3	M4	15	28	310
TLM-3014	SPPBM12	12	43	39	21.5	23	32	4.3	M5	18	35	650
TLM-3015	SSEPBM16DD	16	53	43	26.5	26	40	5.3	M6	22	42	2,200
TLM-3016	SSEPBM20DD	20	60	54	30	32	45	6.6	M8	25	50	4,000
TLM-3017	SSEPBM25DD	25	78	67	39	40	60	8.4	M10	30	60	6,700
TLM-3018	SSEPBM30DD	30	87	79	43.5	45	68	8.4	M10	35	71	8,300
TLM-3019	SSEPBM40DD	40	108	91	54	58	86	10.5	M12	45	91	13,700
Metric - Twin Closed Type Pillow Block												
TLM-3194	SPTWNM08	8	35	62	17.5	50	25	3.3	M4	15	28	500
TLM-3020	SPTWNM12	12	43	76	21.5	56	32	4.3	M5	18	35	1,060
TLM-3021	SSETWNM16DD	16	53	84	26.5	64	40	5.3	M6	22	42	4,400
TLM-3022	SSETWNM20DD	20	60	104	30	76	45	6.6	M8	25	50	8,000
TLM-3023	SSETWNM25DD	25	78	130	39	94	60	8.4	M10	30	60	13,400
TLM-3024	SSETWNM30DD	30	87	152	43.5	106	68	8.4	M10	35	71	16,600
TLM-3025	SSETWNM40DD	40	108	176	54	124	86	10.5	M12	45	91	27,400

Thomson
Ball Bearing Pillow Blocks
Single - Twin
Metric

THOMSON





Item No.	Mfg's Part No.	Dia.	A	B	+/-.020 A1	+/-.1 E	+/-.1 E1	N	N2	+/-.020 H	H1	Angle Degree g	Dynamic Load (lbf)
Metric - Single Closed Type Pillow Block													
TLM-3027	SPPBOM12	12	43	39	21.5	23	32	4.3	M5	18	28	70	750
TLM-3028	SSEPBOM16DD	16	53	43	26.5	26	40	5.3	M6	22	35	70	2,200
TLM-3029	SSEPBOM20DD	20	60	54	30	32	45	6.6	M8	25	42	50	4,000
TLM-3030	SSEPBOM25DD	25	78	67	39	40	60	8.4	M10	30	51	60	6,700
TLM-3031	SSEPBOM30DD	30	87	79	43.5	45	68	8.4	M10	35	60	55	8,300
TLM-3032	SSEPBOM40DD	40	108	91	54	58	86	10.5	M12	45	77	54	13,700
Metric - Twin Closed Type Pillow Block													
TLM-3033	SPTWNOM12	12	43	76	21.5	56	32	4.3	M5	18	28	70	1,220
TLM-3034	SSETWNOM16DD	16	53	84	26.5	64	40	5.3	M6	22	35	70	4,400
TLM-3035	SSETWNOM20DD	20	60	104	30	76	45	6.6	M8	25	41	50	8,000
TLM-3036	SSETWNOM25DD	25	78	130	39	94	60	8.4	M10	30	50	60	13,400
TLM-3038	SSETWNOM40DD	40	108	176	54	124	86	10.5	M12	45	77	54	27,400
TLM-3037	SSETWNOM30DD	30	87	152	43.5	106	68	8.4	M10	35	60	55	16,600

STANDARD QUOTES
IN 4 HOURS OR LESS

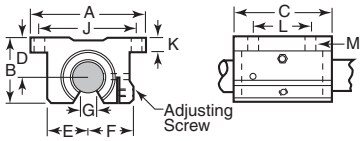
MOST PRODUCTS
SHIP SAME DAY

BALL SLIDE ASSEMBLIES & ACCESSORIES

Thomson
Pillow Blocks
Open Type For Continuously Supported Applications
Single and Twin

THOMSON



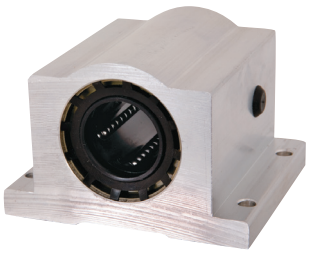


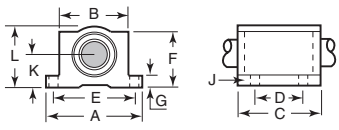
- Double acting seals retain lubrication and keep contamination out
- Easily mounted with four mounting bolts
- Built-in lubrication wick for continuous lubrication
- Travel speeds up to 10 ft/s
- ½ has lubrication fitting, larger sizes have ¼-28 access for lubrication

Item No.	Mfg's Part No.	Dia.	A	B	C	+/-.003 D	E	F	Min. G	+/-.010 J	K	+/-.010 L	M Hole	M Bolt	Dynamic Load (Lbs.)
Single															
TLM-750	SPB-8-OPN	.500	2.00	1.13	1.50	.687	.69	.75	.31	1.688	.25	1.000	.16	#6	180
TLM-755	SPB-10-OPN	.625	2.50	1.44	1.75	.875	.88	.94	.37	2.125	.28	1.125	.19	#8	320
TLM-760	SPB-12-OPN	.750	2.75	1.56	1.88	.937	.94	1.00	.43	2.375	.31	1.250	.19	#8	470
TLM-765	SPB-16-OPN	1.000	3.25	2.00	2.63	1.187	1.19	1.25	.56	2.875	.38	1.750	.22	#10	780
TLM-775	SPB-24-OPN	1.500	4.75	2.500	3.75	1.750	1.75	1.88	.75	4.125	.50	2.94	.28	¼	1,560
Twin															
TLM-905	TWN-8-OPN	.500	2.00	1.13	3.50	.687	.69	.75	.31	1.688	.25	2.500	.16	#6	360
TLM-910	TWN-10-OPN	.625	2.50	1.44	4.00	.875	.88	.94	.37	2.125	.28	3.000	.19	#8	640
TLM-915	TWN-12-OPN	.750	2.75	1.56	4.50	.937	.94	1.00	.43	2.375	.31	3.500	.19	#8	940
TLM-920	TWN-16-OPN	1.000	3.25	2.00	6.00	1.187	1.19	1.25	.56	2.875	.38	4.500	.22	#10	1,560
TLM-930	TWN-24-OPN	1.500	4.75	2.94	9.00	1.750	1.75	1.88	.75	4.125	.50	6.500	.28	¼	3,120

Thomson
Pillow Blocks
Closed Type For End Supported Applications
Single and Twin

THOMSON





- Double acting seal retain lubrication and keep contamination out
- Easily mounted with four mounting bolts
- Travel speed up to 10 ft/s

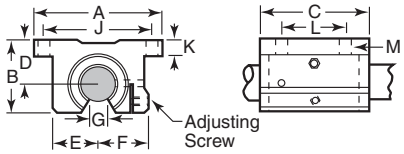
Item No.	Mfg's Part No.	Dia.	A	B	C	+/-.010 D	+/-.010 E	F	G	J Hole	J Bolt	+/-.003 K	L	Dynamic Load (Lbs.)
Single														
TLM-705	SPB-4	.250	1.63	1.00	1.19	.750	1.313	.75	.19	.16	#6	.437	.81	60
TLM-710	SPB-6	.375	1.75	1.13	1.31	.875	1.438	.88	.19	.16	#6	.500	.94	100
TLM-715	SPB-8	.500	2.00	1.38	1.69	1.000	1.688	1.13	.25	.16	#6	.687	1.25	255
TLM-720	SPB-10	.625	2.50	1.75	1.94	1.125	2.125	1.44	.28	.19	#8	.875	1.63	450
TLM-725	SPB-12	.750	2.75	1.88	2.06	1.250	2.375	1.56	.31	.19	#8	.937	1.75	600
TLM-730	SPB-16	1.000	3.25	2.38	2.81	1.750	2.875	1.94	.38	.22	#10	1.187	2.19	1,050
TLM-735	SPB-20	1.250	4.00	3.00	3.63	2.000	3.500	2.50	.44	.22	#10	1.500	2.81	1,500
TLM-740	SPB-24	1.500	4.75	3.50	4.00	2.500	4.125	2.88	.50	.28	¼	1.750	3.25	2,000
Twin														
TLM-850	TWN-4	.250	1.63	1.00	2.50	2.000	1.313	.75	.19	.16	#6	.437	.81	120
TLM-855	TWN-6	.375	1.75	1.13	2.75	2.250	1.438	.88	.19	.16	#6	.500	.94	200
TLM-860	TWN-8	.500	2.00	1.38	3.50	2.500	1.688	1.13	.25	.16	#6	.687	1.25	510
TLM-865	TWN-10	.625	2.50	1.75	4.00	3.000	2.125	1.44	.28	.19	#8	.875	1.63	900
TLM-870	TWN-12	.750	2.75	1.88	4.50	3.500	2.375	1.56	.31	.19	#8	.937	1.75	1,200
TLM-875	TWN-16	1.000	3.25	2.38	6.00	4.500	2.875	1.94	.38	.22	#10	1.187	2.19	2,100
TLM-880	TWN-20	1.250	4.00	3.00	7.50	5.500	3.500	2.50	.44	.22	#10	1.500	2.81	3,000
TLM-885	TWN-24	1.500	4.75	3.50	9.00	6.500	4.125	2.88	.50	.28	¼	1.750	3.25	4,000

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Thomson
Pillow Blocks
Open Type For Continuously Supported Applications
Single and Twin

THOMSON



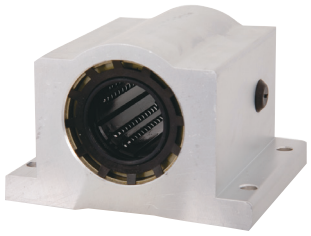


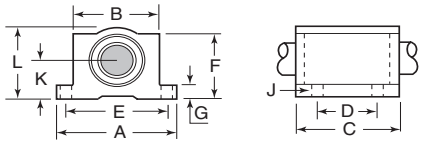
- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing pillow blocks
- Travel speeds up to 10 ft/s
- Easily mounted with four mounting bolts

Item No.	Mfg's Part No.	Dia.	A	B	C	+/-.003 D	E	F	Min. G	+/-.010 J	K	+/-.010 L	M Hole	M Bolt	Dynamic Load (Lbs.)
Single															
TLM-1105	SSUPBO-8	.500	2.00	1.13	1.50	.687	.69	.75	.31	1.688	.25	1.000	.16	#6	360
TLM-1110	SSUPBO-10	.625	2.50	1.44	1.75	.875	.88	.94	.34	2.125	.28	1.125	.19	#8	620
TLM-1115	SSUPBO-12	.750	2.75	1.56	1.88	.937	.94	1.00	.41	2.375	.31	1.250	.19	#8	1,130
TLM-1120	SSUPBO-16	1.000	3.25	2.00	2.63	1.187	1.19	1.25	.53	2.875	.38	1.750	.22	#10	1,900
TLM-1130	SSUPBO-24	1.500	4.75	2.94	3.75	1.750	1.75	1.88	.74	4.125	.50	2.500	.28	¼	3,880
Twin															
TLM-1140	SSUTWNO-8	.500	2.00	1.13	3.50	.687	.69	.75	.31	1.688	.25	2.500	.16	#6	720
TLM-1145	SSUTWNO-10	.625	2.50	1.44	4.00	.875	.88	.94	.34	2.125	.28	3.000	.19	#8	1,240
TLM-1150	SSUTWNO-12	.750	2.75	1.56	4.50	.937	.94	1.00	.41	2.375	.31	3.500	.19	#8	2,260
TLM-1155	SSUTWNO-16	1.000	3.25	2.00	6.00	1.187	1.19	1.25	.53	2.875	.38	4.500	.22	#10	3,800
TLM-1165	SSUTWNO-24	1.500	4.75	2.94	9.00	1.750	1.75	1.88	.74	4.125	.50	6.500	.28	¼	7,760

Thomson
Pillow Blocks
Closed Type For End Supported Applications
Single and Twin

THOMSON





- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing pillow blocks
- Travel speeds up to 10 ft/s
- Easily mounted with four mounting bolts

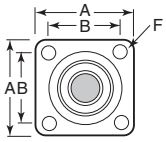
Item No.	Mfg's Part No.	Dia.	A	B	C	+/-.010 D	+/-.010 E	F	G	J Hole	J Bolt	+/-.003 K	L	Dynamic Load (Lbs.)
Single														
TLM-950	SS6UPB-8	.500	2.00	1.38	1.69	1.000	1.688	1.13	.25	.16	#6	.687	1.25	265
TLM-955	SSUPB-10	.625	2.50	1.75	1.94	1.125	2.125	1.44	.28	.19	#8	.875	1.63	620
TLM-960	SSUPB-12	.750	2.75	1.88	2.06	1.250	2.375	1.56	.31	.19	#8	.937	1.75	1,130
TLM-965	SSUPB-16	1.000	3.25	2.38	2.81	1.750	2.875	1.94	.38	.22	#10	1.187	2.19	1,900
TLM-970	SSUPB-20	1.250	4.00	3.00	3.63	2.000	3.500	2.50	.44	.22	#10	1.500	2.81	2,350
TLM-975	SSUPB-24	1.500	4.75	3.50	4.00	2.500	4.125	2.88	.50	.28	.25	1.750	3.25	3,880
Twin														
TLM-1010	SSUTWN-10	.625	2.50	1.75	4.00	3.000	2.125	1.44	.28	.19	#8	.875	1.63	1,240
TLM-1015	SSUTWN-12	.750	2.75	1.88	4.50	3.500	2.375	1.56	.31	.19	#8	.937	1.75	2,260
TLM-1020	SSUTWN-16	1.000	3.25	2.38	6.00	4.500	2.875	1.94	.38	.22	#10	1.187	2.19	3,800

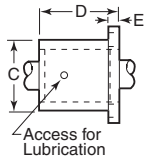
BALL SLIDE ASSEMBLIES & ACCESSORIES

Thomson
Super Ball Bushing® Flanged Pillow Blocks
For End Supported Applications
Single and Twin

THOMSON







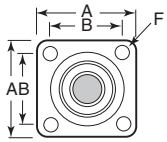
- Easily mounted and secured with four mounting bolts
- Can be mounted perpendicular to table surface
- These pillow blocks are interchangeable with the Super Smart Ball Bushing flanged pillow blocks
- Allows for travel speeds up to 10 ft/s

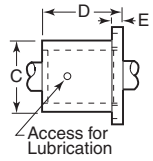
Item No.	Mfg's Part No.	Dia.	A	+/-.010 B	C	D	E	F	Dynamic Load (Lbs.)
Single									
TLM-805	SFB8	.500	1.63	1.250	1.25	1.69	.25	.19	255
TLM-810	SFB12	.750	2.38	1.750	1.75	2.06	.38	.21	600
TLM-815	SFB-16	1.000	2.75	2.125	2.25	2.81	.50	.28	1,050
Twin									
TLM-820	TSFB-8	.500	1.63	1.250	1.25	3.20	.90	¼-20	510
TLM-825	TSFB12	.750	2.38	1.750	1.75	3.95	.90	¼-20	1,200
TLM-830	TSFB16	1.000	2.75	2.125	2.25	5.33	.90	5/16-18	2,100

Thomson
Super Smart Ball Bushing® Flanged Pillow Blocks
For End Supported Applications
Single and Twin

THOMSON







- Easily mounted and secured with four mounting bolts
- Can be mounted perpendicular to table surface
- These pillow blocks are interchangeable with the Super Ball Bushing flanged pillow blocks
- Allows for travel speeds up to 10 ft/s

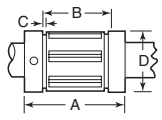
Item No.	Mfg's Part No.	Dia.	A	+/-.010 B	C	D	E	F	Dynamic Load (Lbs.)
Single									
TLM-1210	SSUFB-12	.750	2.38	1.750	1.75	2.06	.38	.22	1,130
TLM-1215	SSUFB-16	1.000	2.75	2.125	2.25	2.81	.50	.28	1,900
TLM-1220	SSUFB-20	1.250	3.50	2.750	3.00	3.63	.63	.35	2,350
TLM-1225	SSUFB-24	1.500	4.00	3.125	3.62	4.00	.75	.41	3,880
Twin									
TLM-1235	SS6UTFB-8	.500	1.63	1.250	1.25	3.20	.90	¼-20	530
TLM-1240	SSUTFB-12	.750	2.38	1.750	1.75	3.95	.90	¼-20	2,260
TLM-1245	SSUTFB-16	1.000	2.75	2.125	2.25	5.33	.90	5/16-18	3,800
TLM-1250	SSUTFB-20	1.250	3.50	2.750	3.00	6.70	.90	5/16-18	4,700

Thomson
Bearings
Open Type For Continuously Supported Applications

THOMSON







- Can be mounted in a customized open style pillow block
- Travel speeds up to 10 ft/s
- Self-aligning in all directions

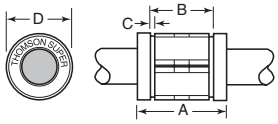
Item No.	Mfg's Part No.	Dia.	A	B	C	D	E	Ang. Deg. F	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-450	SUPER 8-OPN	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	.31	15	3	180
TLM-455	SUPER 10-OPN	.625	1.500/1.480	1.105/1.095	.056	1.1255/1.1250	.37	15	4	320
TLM-460	SUPER 12-OPN	.750	1.625/1.605	1.270/1.250	.056	1.2505/1.2500	.43	15	5	470
TLM-465	SUPER 16-OPN	1.000	2.250/2.230	1.884/1.864	.070	1.5630/1.5625	.56	15	5	780
TLM-470	SUPER 20-OPN	1.250	2.625/2.600	2.004/1.984	.068	2.0008/2.0000	.62	15	5	1,170
TLM-475	SUPER 24-OPN	1.500	3.000/2.970	2.410/2.390	.086	2.3760/2.3750	.75	15	5	1,560

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Thomson Bearings
Closed Type For End Supported Applications

THOMSON





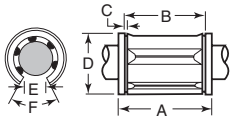
- Can be mounted in a customized housing
- Travel speeds up to 10 ft/s
- Self-aligning in all directions

Item No.	Mfg's Part No.	Dia.	A	B	C	D	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-405	SUPER 3	.188	.562/.547	—	—	.3755/.3750	4	35
TLM-410	SUPER 4	.250	.750/.735	.511/.501	.039	.5005/.5000	4	60
TLM-415	SUPER 6	.375	.875/.860	.699/.689	.039	.6255/.6250	4	100
TLM-420	SUPER 8	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	4	255
TLM-425	SUPER 10	.625	1.500/1.480	1.105/1.095	.056	1.1255/1.1250	5	450
TLM-430	SUPER 12	.750	1.625/1.605	1.270/1.250	.056	1.2505/1.2500	6	600
TLM-435	SUPER 16	1.000	2.250/2.230	1.884/1.864	.070	1.5630/1.5625	6	1,050
TLM-440	SUPER 20	1.250	2.625/2.600	2.004/1.984	.068	2.0008/2.0000	6	1,500
TLM-445	SUPER 24	1.500	3.000/2.970	2.410/2.390	.086	2.3760/2.3750	6	2,000

Thomson
Open Type for Continuously Supported Applications
Steel Balls

THOMSON





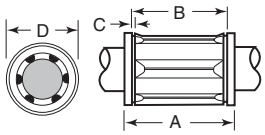
- Coefficient of friction as low as 0.001
- All steel construction for maximum rigidity
- Travel speeds up to 10 ft/s
- High temperature capability
- Can be mounted in a customized open style pillow block

Item No.	Mfg's Part No.	Dia.	A	B	C	D	E	Angle Degree F	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-105	OPN81420	.500	1.250/1.235	.987/.951	.046	.8760/.8740	.31	50	3	60
TLM-110	OPN101824	.625	1.500/1.485	1.108/1.092	.056	1.2600/1.1240	.38	60	3	105
TLM-115	OPN122026	.750	1.625/1.610	1.170/1.154	.056	1.2510/1.2490	.44	60	4	140
TLM-120	OPN162536	1.000	2.250/2.235	1.759/1.741	.068	1.5635/1.5615	.56	60	4	240

Thomson
Closed Type for End Supported Applications
Steel and Stainless Steel Balls

THOMSON





- Coefficient of friction as low as 0.001
- All steel construction for maximum rigidity
- Travel speeds up to 10 ft/s
- High temperature capability
- Can be mounted in customized housing

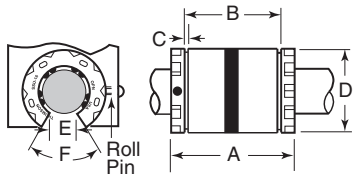
Steel		Stainless								
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Dia.	A	B	C	D	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-10	A-4812	TLM-50	A-4812SS	.250	.750/.735	.515/.499	.039	.5000/.4996	3	19
TLM-15	A-61014	TLM-55	A-61014SS	.375	.875/.860	.640/.624	.039	.6250/.6246	4	37
TLM-20	A-81420	TLM-60	A-81420SS	.500	1.250/1.235	.967/.951	.046	.8750/.8746	4	85
TLM-25	A-101824	—	—	.625	1.500/1.485	1.108/1.092	.056	1.1250/1.1246	4	150
TLM-30	A-122026	TLM-65	A-122026SS	.750	1.625/1.610	1.170/1.154	.056	1.2500/1.2496	5	200
TLM-35	A-162536	—	—	1.000	2.250/2.235	1.759/1.741	.068	1.5625/1.5621	5	350
TLM-40	A-203242	—	—	1.250	2.625/2.605	2.009/1.991	.068	2.0000/1.9995	6	520
TLM-45	A-243848	—	—	1.500	3.000/2.980	2.415/2.397	.086	2.3750/2.3745	6	770

Note: 60 Case® LinearRace® shafts are not recommended for these bearings. S style shafting is recommended.

BALL SLIDE ASSEMBLIES & ACCESSORIES

Thomson Bearings
Open Type For Continuously Supported Applications With Wipers



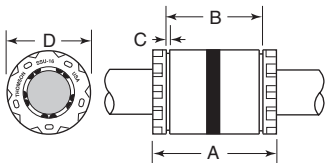


- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing bearings
- Travel speeds up to 10 ft/s

Item No.	Mfg's Part No.	Dia.	A	B	C	D	E	Ang. Deg. F	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-640	SSU8-OPNWW	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	.31	40	6	360
TLM-645	SSU10-OPNWW	.625	1.500/1.480	1.125/1.095	.055	1.2550/1.1250	.34	30	8	620
TLM-650	SSU12-OPNWW	.750	1.625/1.605	1.285/1.255	.055	1.2505/1.2500	.41	30	8	1,130
TLM-655	SSU16-OPNWW	1.000	2.250/2.230	1.901/1.871	.068	1.5603/1.5625	.53	30	8	1,190

Thomson Bearings
Closed Type For End Supported Applications With or Without Wipers





- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing bearings
- Travel speeds up to 10 ft/s
- Can be mounted in a customized housing

w/ No Wipers		w/ Two Wipers								
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Dia.	A	B	C	D	No. of Ball Circuits	Dynamic Load (Lbs.)
TLM-505	SS6U-8	TLM-535	SS6U-8WW	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	6	265
—	—	TLM-540	SSU-10WW	.625	1.500/1.480	1.125/1.095	.055	1.1255/1.1250	10	620
TLM-515	SSU-12	TLM-545	SSU-12WW	.750	1.625/1.605	1.285/1.255	.055	1.2505/1.2500	10	1,130
TLM-520	SSU-16	TLM-550	SSU-16WW	1.000	2.250/2.230	1.901/1.871	.068	1.5630/1.5625	10	1,900
—	—	TLM-555	SSU-20WW	1.250	2.625/2.600	2.031/1.991	.068	2.0008/2.0000	10	2,350
—	—	TLM-560	SSU-24WW	1.500	3.000/2.970	2.442/2.402	.086	2.3760/2.3750	10	3,880

EMKA® Incorporated



The EMKA GROUP is the world leader for locking systems, hinges and sealings, which are used in cabinets and control cabinets for electronics and electrical engineering.

Nook Industries Ball Screws



Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Lgth. Ft.	Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Lgth. Ft.
AR-302	SRT9392	.631	.200	2	AR-320	SRT0426	1.000	.250	16
AR-303	SRT6740	.500	.500	4	AR-327	SRT9992	1.000	.500	12
AR-304	SRT9987	.631	.200	4	AR-328	SRT9993	1.000	.500	16
AR-305	SRT7248	.750	.200	4	AR-331	SRT6830	1.000	1.000	12
AR-306	SRT5005	1.000	.250	4	AR-332	SRT0429	1.000	1.000	16
AR-307	SRT7540	.631	.200	6	AR-334	SRT8845	1.500	1.000	8
AR-308	SRT7296	.750	.200	8	AR-335	SRT8853	1.500	1.000	12
AR-309	SRT7244	.750	.200	12	AR-336	SRT0436	1.500	1.000	16
AR-310	SRT7552	.750	.500	4	AR-337	SRT-0598	1.500	1.000	20
AR-312	SRT7596	.750	.500	8	AR-340	SRT7718	1.500	1.875	12
AR-317	SRT7292	.750	.500	12	AR-341	SRT0438	1.500	1.875	16
AR-318	SRT5013	1.000	.250	8	AR-342	SRT0599	1.500	1.875	20
AR-319	SRT5021	1.000	.250	12					

Thomson Ball Screws

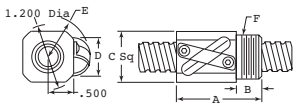


These ball screws offer over 90% efficiency converting rotary motion to linear motion with low coefficient of friction. When replacing screws, hydraulics or pneumatics, they allow the use of smaller, less expensive drive motors and reduce the need for auxiliary equipment. They also offer dependable accuracy and repeatability at an economical price. Made of high-quality alloy steel hardened to rockwell 56-60C. Lead accuracy of .004 in./ft. Straight within .010 in/ft. and do not exceed .030" in any 6 foot section.

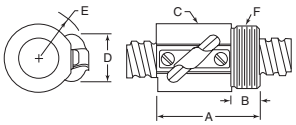
Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Lgth.	Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Lgth.
TBS-17	190-9098 CTL 24	.631	.200	2	TBS-65	190-9104 CTL 36	1.000	.250	3
TBS-20	190-9098 CTL 36	.631	.200	3	TBS-68	190-9104 CTL 48	1.000	.250	4
TBS-23	190-9098 CTL 48	.631	.200	4	TBS-71	190-9104 CTL 60	1.000	.250	5
TBS-26	190-9098 CTL 60	.631	.200	5	TBS-80	190-9103 CTL 36	1.000	.500	3
TBS-29	190-9098 CTL 72	.631	.200	6	TBS-83	190-9103 CTL 48	1.000	.500	4
TBS-32	190-9101 CTL 24	.750	.200	2	TBS-86	190-9103 CTL 60	1.000	.500	5
TBS-35	190-9101 CTL 36	.750	.200	3	TBS-89	190-9103 CTL 72	1.000	.500	6
TBS-38	190-9101 CTL 48	.750	.200	4	TBS-95	190-9102 CTL 36	1.000	1.000	3
TBS-47	190-9100 CTL 24	.750	.500	2	TBS-107	190-9110 CTL 24	1.500	.250	2
TBS-62	190-9104 CTL 24	1.000	.250	2	TBS-110	190-9110 CTL 36	1.500	.250	3

Nook Industries Ball Nuts - Right Hand Thread

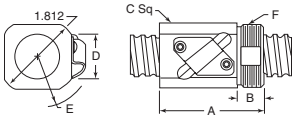




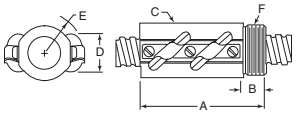
AR-314



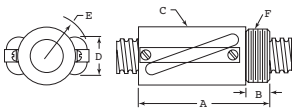
AR-315



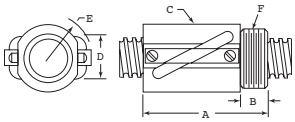
AR-316



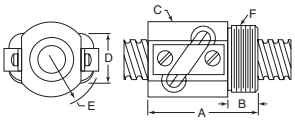
AR-344



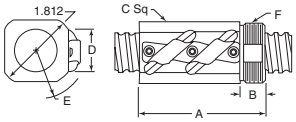
AR-345



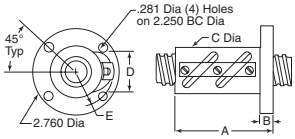
AR-346



AR-347



AR-350



AR-351

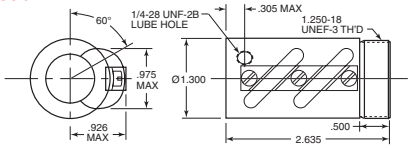
Ball screws are convenient and efficient devices for converting rotary to linear motion. Because of their reliability and high efficiency they are utilized in replacing conventional methods of power transmission. Their high efficiency is developed by using bearing balls to limit friction between the nut and the screw. Unlimited travel is achieved by recirculating the bearing balls through return guides. All ball screws are right hand thread. Made of high quality alloy steel, induction hardened to RC 56-60. Flanges and nut are made of carburized steel with ball tracks heat treated to RC 58-60. Both ball screws and nuts have protective black oxide finish. Ball screws will not deviate from nominal lead by more than .004 inch per foot. Straight within .010 inch per foot. Do not exceed .030" in any 6' section.

Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	A	B	C	D	E	F	Load Lbs. Dynamic	Load Lbs. Static	Wiper Kit Item No.
Single Circuit												
AR-315	SBN7201	.750	.200	1.875	.500	1.312	.863	.886	1.173-18	1,100	8,569	AR-371
Double Circuit												
AR-344	SBN7202	.750	.200	2.875	.500	1.312	.863	.886	1.173-18	2,200	17,138	AR-371
AR-345	SBN7500	.750	.500	2.927	.500	1.312	.863	.937	1.173-18	2,723	17,425	AR-371
AR-351	SBN8278	1.000	.250	3.000	.375	1.625	1.150	1.107	—	3,224	27,826	AR-374
AR-346	SBN1050	1.000	.500	3.130	.625	1.687	1.080	1.109	1.563-18	3,440	25,250	AR-375
AR-347	SBN8280	1.500	1.000	3.628	1.000	2.625	1.718	1.720	2.250-20	7,560	34,662	—

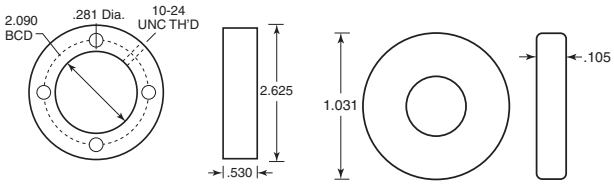
BALL/ACME SCREWS, NUTS & ACCESSORIES

Thomson
Precision Ball Nuts
.750 x .200 Non-Preload
Right Hand





Ball Nut



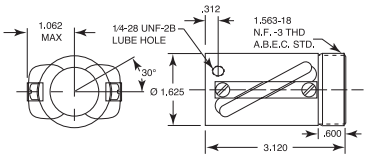
Flange | Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-418	7824297	.750	.200	2,082	11,750

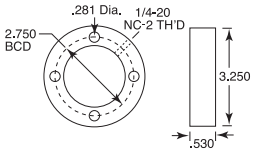
Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Thomson
TBS-159	7823336	TBS-193	7824337

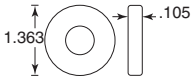
Thomson
1.000 x .500 Non-Preload
Right Hand





Ball Nut





Flange | Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-433	7824286	1.000	.500	3,890	18,400

Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Mfg's Part No.
TBS-168	7824293	TBS-205	7824292

Thomson
1.500 x .250 Non-Preload
Right Hand

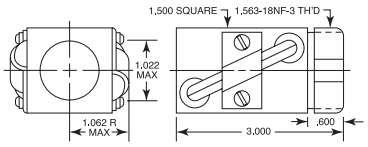


This ball nut is made of carburized steel with ball tracks heat treated to RC 58-60, with a overall length of 2.875 in Manufacturer Part Number: 8115-448-020

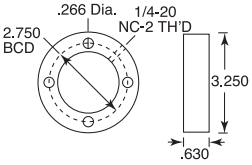
Ball-Nut Item No.	Thomson	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-439	5709587	1.500	.250	4,198	44,030

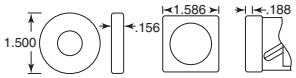
Thomson
1.000 x 1.000 Non-Preload
Right Hand - Square





Ball Nut





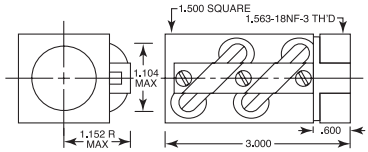
Flange | Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-436	5707509	1.000	1.000	2,142	11,925

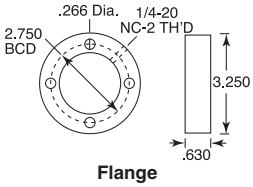
Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Thomson
TBS-165	5707571	TBS-208	5702650

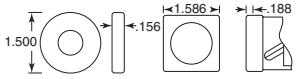
1.000 x .250 Non-Preload
Right Hand - Square





Ball Nut





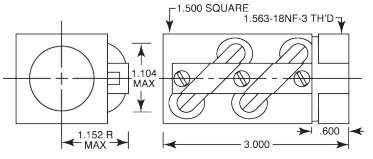
Flange | Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-424	5700348	1.000	.250	3,224	27,826

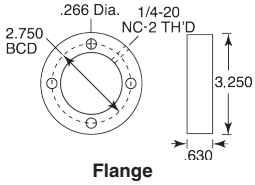
Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Mfg's Part No.
TBS-165	5707571	TBS-208	5702650

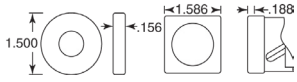
Thomson
1.000 x .250 Non-Preload
Right Hand - Square





Ball Nut



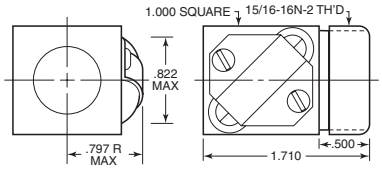


Flange | Wiper Kit

Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Mfg's Part No.
TBS-165	5707571	TBS-208	5702650

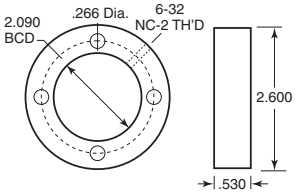
Thomson
Precision Ball Nuts
.631 x .200 Non-Preload
Right Hand





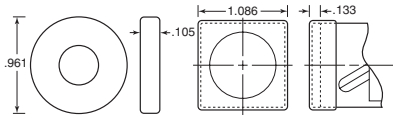
Ball Nut





Flange





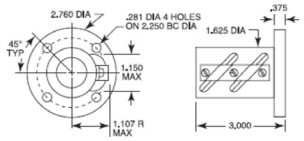
Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-412	7820827	.631	.200	778	6,384

Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Mfg's Part No.
TBS-156	5707570	TBS-190	5702647

Thomson
1.000 x .250 Non-Preloaded
Right Hand - Integral Flange



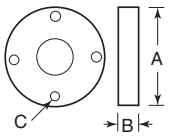


Ball Nut

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-427	5708278	1.000	.250	3,224	27,826

Nook Industries
Ball Flanges



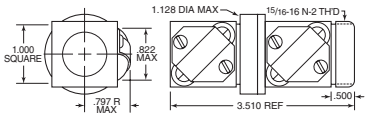


Item No.	Mfg's Part No.	For Nuts With Ball Circle dia.	A	B	C Hole Dia.	C BCD
AR-325	FLG7555	.750	2.59	.53	.281	2.09
AR-326	FLG7571	1.000	3.25	.64	.266	2.75
AR-417	FLG7777	1.500	4.937	1.020	.531	4.125

*Flange also works with nuts with .500 ball circle diameter.

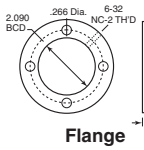
Thomson
Precision Ball Nuts
.631 x .200 Preloaded
Right Hand



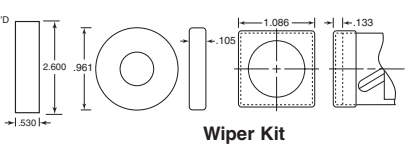


Ball Nut





Flange



Wiper Kit

Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-415	7820955	.631	.200	778	6,384

Flange Item No.	Mfg's Part No.	Wiper Kit Item No.	Mfg's Part No.
TBS-156	5707570	TBS-190	5702647

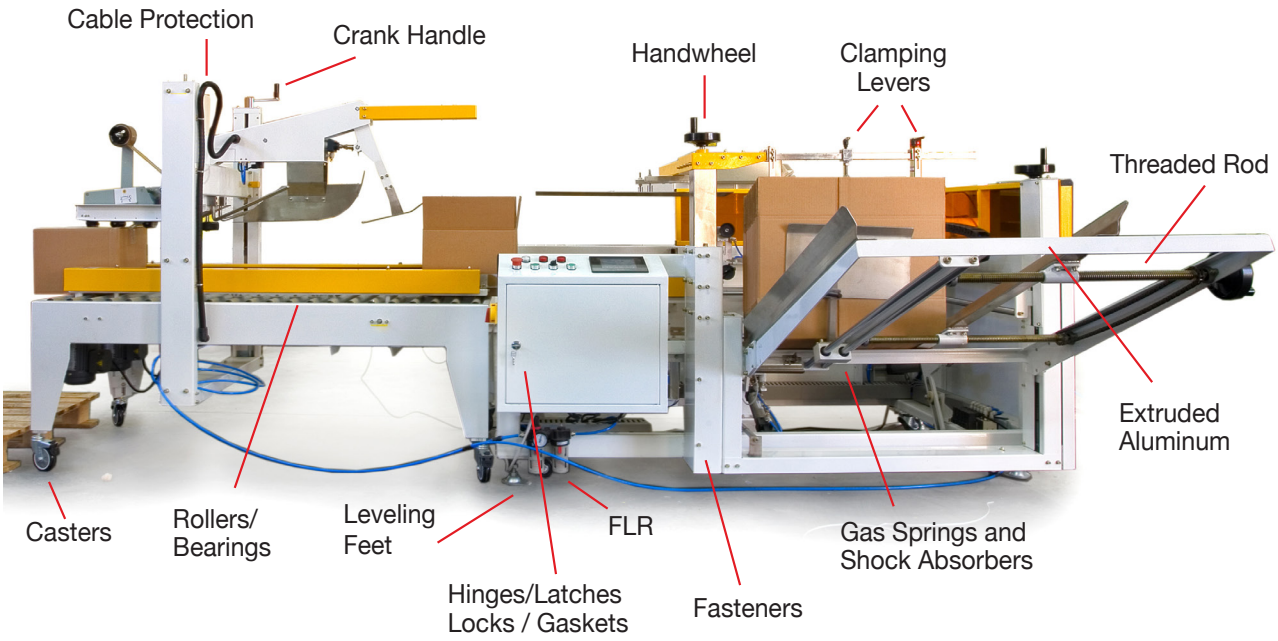
Thomson
1.000 x .250 Preloaded
Right Hand - Square

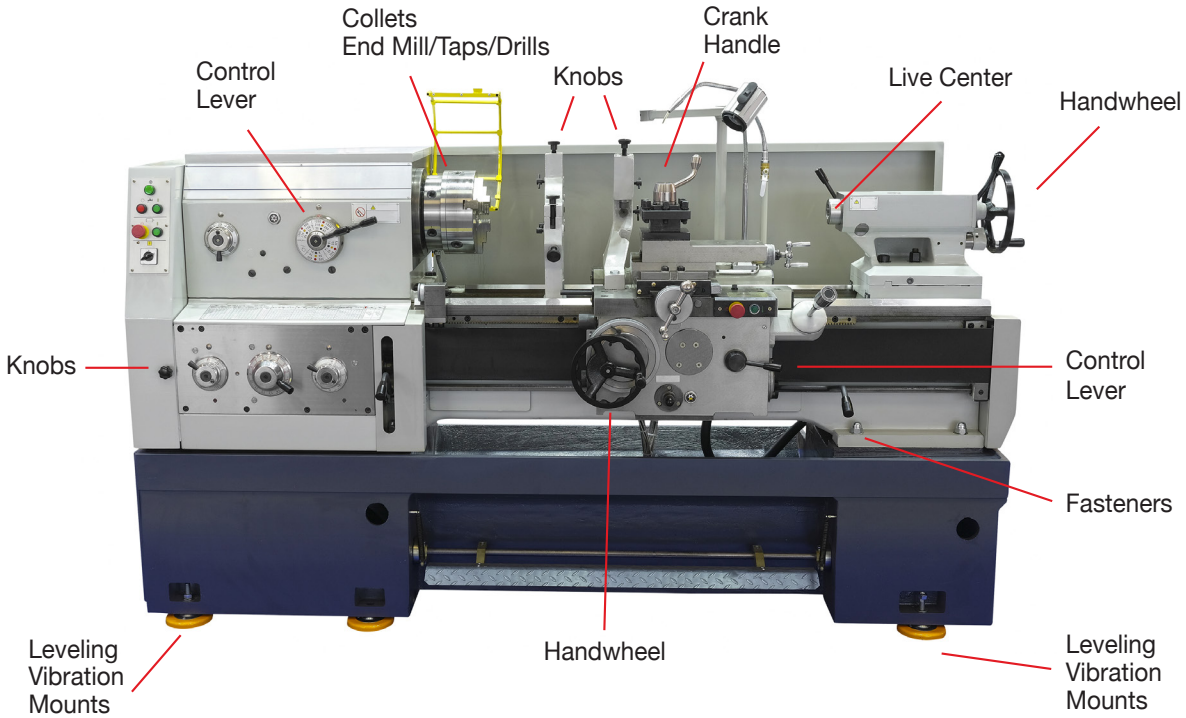


Ball-Nut Item No.	Mfg's Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load
TBS-430	5704167	1.000	.250	1,612	13,913

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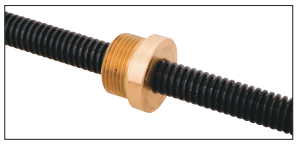
Precision Acme lead screws are specifically designed for translating rotary motion into linear travel with accuracy and smoothness that are superior to general purpose Acme screws. Precision Acme lead screws are made from 4140 series alloy steel. Threads are rolled 2-C centralizing design. This thread form prevents wedging between nut and screw if subjected to radical loading. Screws have a minimum hardness of 200 Brinell. Tensile strength is rated at 95,000 psi and lead accuracy is maintained at +/-.003 in./ft. Screw ends are deburred and ready for end machining. Each screw is roller burnished and black oxide to a smooth finish, thereby maximizing travel efficiency. The matching travel nuts are engineered with the same 2-C centralizing thread form. Bronze nuts have ultimate tensile of 65,000 psi and a hardness of RB 75. A lubricated bronze nut has a dynamic COF of .125. The plastic nuts are quieter, more efficient and will equal or exceed the life of conventional travel nut materials. Tensile strength at 70 degree Fahrenheit is 8,000 psi. COF for a lubricated plastic nut is .075 (.160 unlubricated). Loads can be mounted to the travel nut or assembly with steel flanges. These flanges thread directly onto the travel nut. Nut and flange must be secured with a set screw or other pinning device. Application loads can be mounted to the flange via four pre-drilled, equally spaced holes. Mounting holes are .266" in diameter and spaced on the bolt center diameter (BCD) listed below.

Nook Industries Acme Screw



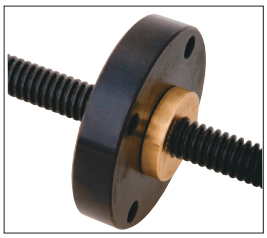
3 Foot Length				6 Foot Length			
Right Hand		Left Hand		Right Hand			
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Thread Size Diameter	Thread Size TPI
AR-2	11032	AR-12	51032	—	—	3/8	12
AR-3	11050	AR-13	51050	AR-23	12050	1/2	10
AR-4	11068	AR-14	51068	AR-24	12068	5/8	8
AR-5	11076	AR-15	51076	AR-25	12076	3/4	6
AR-6	11086	—	—	AR-26	12086	7/8	6

Nook Industries Acme Nuts



Bronze				Plastic				
Right Hand		Left Hand		Right Hand				
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Thread Size Diameter	Thread Size TPI	External Thread Size
AR-201	20026	—		—		1/4	16	9/16-18
AR-202	20032	AR-212	80032	AR-222	30032	3/8	12	9/16-18
AR-203	20050	AR-213	80050	AR-223	30050	1/2	10	15/16-16
AR-204	20068	AR-214	80068	AR-224	30068	5/8	8	15/16-16
AR-205	20076	AR-215	80076	AR-225	30076	3/4	6	1-18
AR-206	20086	—		—		7/8	6	1 3/8-16
—		AR-216	80086	AR-226	30086	7/8	6	1 3/8-18

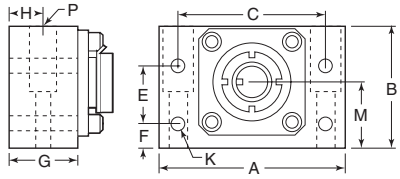
Nook Industries Acme Flanges



Item No.	Mfg's Part No.	For Acme Nuts with Thread Size	Internal Thread Size	Flange Dia.	Flange Thickness	Hole Spacing Bolt Circle Diameter
AR-101	70160	1/4-16 and 3/8-12	9/16-18	1.60	.410	1.125
AR-102	FLG7570	1/2-10 and 5/8-8	15/16-16	2.60	.530	2.090
AR-103	70262	3/4-6	1-18	2.60	.530	2.090
AR-104	70275	7/8-6	1 3/8-16	2.76	.520	2.260

Nook Industries Universal Mounts for Acme and Ball Screws

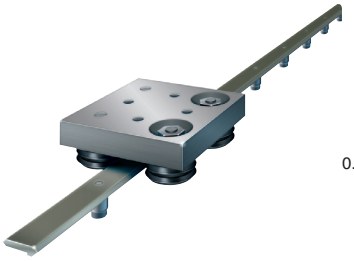


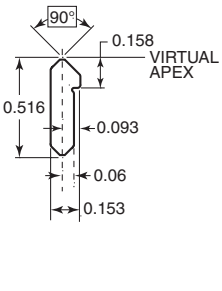


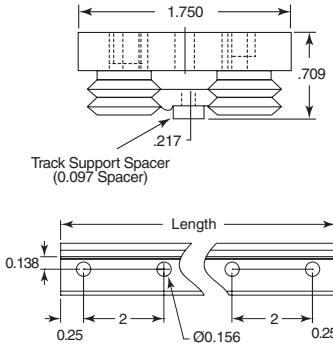
Item No.	Mfg's Part No.	Fits Across Screw Dia.	Fits Ball Screw Dia.	Lead	A	B	C	E	F	G	H	K	M	P	
														Thru	Countersink
AR-402	EZM-1009	1/2	—	—	2.75	2.00	2.00	1.38	.310	1.19	.56	.28	1.000	.34	.5 x .56
AR-403	EZM-3010	5/8	—	—	2.75	2.00	2.00	1.38	.310	1.18	.56	.28	1.000	.34	.5 x .56
AR-404	EZM-3012	3/4	.631	.200	3.50	2.22	2.75	1.25	.500	1.38	.69	.28	1.187	.41	.62 x 1
AR-405	EZM-3015	7/8	.750	.200	3.50	2.52	2.75	1.25	.800	1.38	.69	.28	1.438	.41	.52 x 1
AR-406	EZM-2020	—	1.000	.25 and 1.0	5.00	3.03	3.75	1.50	.750	1.72	.86	.47	1.625	.66	1 x 1.5

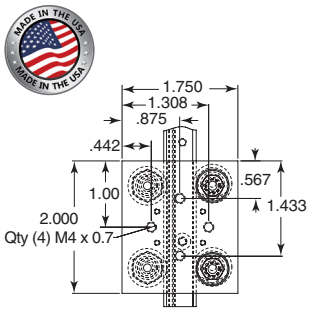
TRACK ROLLER ASSEMBLIES & ACCESSORIES

MinVee® Miniature Slide System









MinVee® is a low profile, miniature linear slide system ideal for semi-conductor, laboratory, medical and packaging applications. The non-actuated MinVee® linear slide consists of one or more 6061-T6 anodized aluminum wheel carriage with your choice of DualVee® integral studded wheels (steel/shielded, steel/sealed or polymer/shielded), and double edge track from 6.5 to 36.5 inches. The steel wheel carriage supports loads to 121 pounds while the polymer carriage is capable of up to 15 pounds. MinVee® features stainless steel lubricators, and a patented self-aligning mounting shoulder, reducing installation time and cost. Parts are sold separately. Please specify wheel carriage model and quantity, track (lengths), and number of track support spacers (one per mounting hole).

Bishop Wisecarver Carriages

BISHOPWISECARVER

Item No.	Mfg's Part No.	Description	Radial Load LR	Axial Load LA	Pitch Movement MP	Yaw Moment MY	Roll Moment MR
WZ-445	MV0WPAX	Aluminum Carriage, Steel Wheels, Sealed	490N/110.2 lbf	540N/121.4 lbf	7.9Nms/69.9 lbf	8.6Nm/76.1 lbf	6.2N/54.9 lbf
WZ-446	MV0WPAP	Aluminum Carriage, Polymer Wheels, Shielded	65N/14.6 lbf	66.7N/15 lbf	1.4Nms/12.4 lbf	4.5Nm/39.8 lbf	1N/8.8 lbf

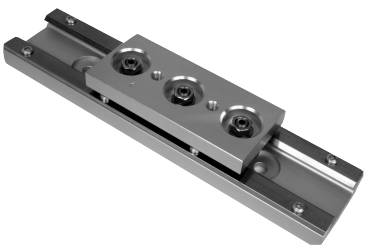
Bishop Wisecarver Tracks

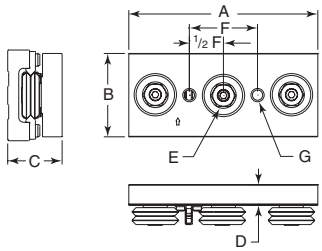
BISHOPWISECARVER

Item No.	Mfg's Part No.	Length (Inch)	No. of Holes
Track, Steel, Unhardened			
WZ-448	TD0-6504	6.5	4
WZ-449	TD0-12507	12.5	7
WZ-450	TD0-185010	18.5	10
WZ-451	TD0-245013	24.5	13
WZ-452	TD0-305016	30.5	16
WZ-453	TD0-365019	36.5	19

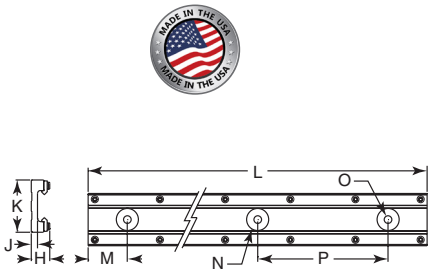
Item No.	Mfg's Part No.	Length (Inch)	No. of Holes
Track, Steel, Hardened			
WZ-454	TDS0-6504	6.5	4
WZ-455	TDS0-12507	12.5	7
WZ-456	TDS0-185010	18.5	10
WZ-457	TDS0-245013	24.5	13
WZ-459	TDS0-365019	36.5	19

CR Series





Carriage Assembly



Channel

CR Series (composite stainless steel) features heat treated stainless steel track mounted to an extruded aluminum base, and stainless steel wheels with sealed bearings in sizes 1, 2 and 3. CR Series offers corrosion resistance for load requirements up to 5,739N, speeds to 5.5 m/s and acceleration to 5 g's. Vee style only.

Bishop Wisecarver Carriage Assemblies

BISHOPWISECARVER

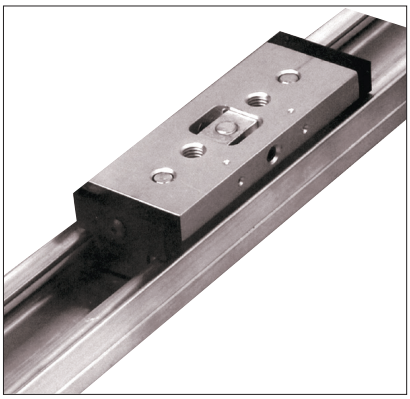
Item No.	Mfg's Part No.	For use with Channel Sizes	A	B	C	D	E (Socket Size)	F	G	Radial Load (N)
WZ-490	UTCCA1-SS	1	100	38	28.0	10.1	7	40	M6 x 1.0	1,111
WZ-491	UTCCA2-SS	2	125	55	36.0	13.7	13	45	M8 x 1.25	2,671
WZ-492	UTCCA3-SS	3	170	80	50.0	19.6	17	60	M10 x 1.5	5,739

Bishop Wisecarver Composite Channels

BISHOPWISECARVER

Item No.	Mfg's Part No.	Channel Size	H	J	K	L	M	N	O	P
WZ-493	UTCOMP1SS 0.290	1	17.7	5.9	40	290	45.0	18.8 x 2	6.9	100
WZ-494	UTCOMP1SS 0.690	1	17.7	5.9	40	690	45.0	18.8 x 2	6.9	100
WZ-495	UTCOMP1SS 0.390	1	17.7	5.9	40	390	45.0	18.8 x 2	6.9	100
WZ-496	UTCOMP2SS 0.240	2	21.5	7.3	60	240	45.0	25.4 x 3	8.8	150
WZ-497	UTCOMP2SS 0.690	2	21.5	7.3	60	690	45.0	25.4 x 3	8.8	150
WZ-499	UTCOMP2SS 3.390	2	21.5	7.3	60	3,390	45.0	25.4 x 3	8.8	150
WZ-498	UTCOMP2SS 1.140	2	21.5	7.3	60	1,140	45.0	25.4 x 3	8.8	150
WZ-500	UTCOMP3SS 1.415	3	29.5	9.0	85	1,415	82.5	28.6 x 5	10.5	250
WZ-501	UTCOMP3SS 3.415	3	29.5	9.0	85	3,415	82.5	28.6 x 5	10.5	250

Track Roller Systems

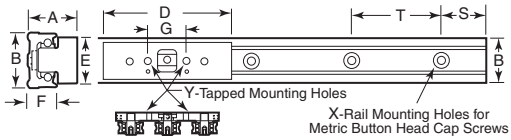




Roller Guides



Rails



Roller Guides

Item No.	Fits Rail Width B	A	D	E	G	Y
Inch						
PBC-605	1.32	.918	3.25	1.25	1.250	¼-28
PBC-610	1.91	1.125	4.50	1.50	1.625	5/16-24
Metric						
PBC-625	30	28	86	25.4	26	M5 x .80
PBC-630	45	33	116	38.1	36	M8 x 1.25
PBC-635	65	42	161	50.8	52	M8 x 1.25

Rails

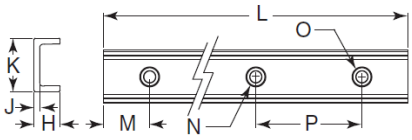
Item No.	Width B	Lgth.	F	S	T	X	No. of Holes
Inch							
PBC-650	1.32	12	.60	.75	3.50	#10	4
PBC-655	1.32	24	.60	1.50	3.50	#10	7
PBC-660	1.32	36	.60	.50	3.50	#10	11
PBC-665	1.91	12	.75	.75	3.50	¼	4
PBC-670	1.91	24	.75	1.50	3.50	¼	7
PBC-675	1.91	36	.75	.50	3.50	¼	11
Metric							
PBC-700	30	480	16.00	30	60	M5	8
PBC-705	30	720	16.00	30	60	M5	12
PBC-710	30	960	16.00	30	60	M5	16
PBC-715	45	480	20.50	30	60	M6	8
PBC-720	45	720	20.50	30	60	M6	12
PBC-725	45	960	20.50	30	60	M6	16
PBC-730	65	480	27.00	40	80	M6	6
PBC-735	65	720	27.00	40	80	M6	9
PBC-740	65	960	27.00	40	80	M6	12

TRACK ROLLER ASSEMBLIES & ACCESSORIES

Track Roller Rail: Open Guide Channel

These guide rails provide a narrow, compact profile solution that is well suited for a variety of environments where smooth, high speed motion is required.





Bishop Wisecarver Aluminum Channels

BISHOPWISECARVER

Item No.	Mfg's Part No.	Channel Size	H	J	K	L	M	N	O	P
WZ-478	UTTRA0-480	0	11	4	20	480	40	8.3 x 3	4.8	80
WZ-479	UTTRA0-720	0	11	4	20	720	40	8.3 x 3	4.8	80
WZ-480	UTTRA0-960	0	11	4	20	960	40	8.3 x 3	4.8	80
WZ-481	UTTRA0-3600	0	11	4	20	3,600	40	8.3 x 3	4.8	80
WZ-482	UTTRA1-480	1	15	4	26	480	40	9.8 x 2.8	5.8	80
WZ-483	UTTRA1-720	1	15	4	26	720	40	9.8 x 2.8	5.8	80
WZ-484	UTTRA1-960	1	15	4	26	960	40	9.8 x 2.8	5.8	80
WZ-485	UTTRA1-3600	1	15	4	26	3,600	40	9.8 x 2.8	5.8	80
WZ-486	UTTRA2-480	2	19.7	4.5	40	480	40	14.3 x 3	8.8	80
WZ-487	UTTRA2-720	2	19.7	4.5	40	720	40	14.3 x 3	8.8	80
WZ-488	UTTRA2-960	2	19.7	4.5	40	960	40	14.3 x 3	8.8	80
WZ-489	UTTRA2-3600	2	19.7	4.5	40	3,600	40	14.3 x 3	8.8	80

Note: Dimesnsions in mm

Bishop Wisecarver Track



BISHOPWISECARVER

Steel Item No.	Steel Mfg's Part No.	Stainless Item No.	Stainless Mfg's Part No.	Size	No. of Holes	+/-.005 A	B	C	+/-.005 D	E	F	G	H	J	K
WZ-10	T112507	WZ-20	T1SS12507	1	7	12.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-15	T1245013	WZ-25	T1SS245013	1	13	24.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-16	T1365019	WZ-26	T1SS365019	1	19	36.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-17	T1485025	WZ-27	T1SS485025	1	25	48.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-18	T1605031	WZ-28	T1SS605031	1	31	60.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-19	T1725037	WZ-29	T1SS725037	1	37	72.50	.250	2	.156	.156	.187	.031	.437	.062	.125
WZ-30	T212635	—		2	5	12.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-35	T224639	WZ-45	T2SS24639	2	9	24.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-36	T2366313	WZ-46	T2SS366313	2	13	36.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-37	T2486317	WZ-47	T2SS486317	2	17	48.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-38	T2606321	WZ-48	T2SS606321	2	21	60.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-39	T2726325	WZ-49	T2SS726325	2	25	72.63	.315	3	.203	.219	.250	.031	.625	.093	.187
WZ-50	T312755	WZ-60	T3SS12755	3	5	12.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-55	T324759	WZ-65	T3SS24759	3	9	24.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-56	T3367513	WZ-66	T3SS367513	3	13	36.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-57	T3487517	WZ-67	T3SS487517	3	17	48.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-58	T3607521	WZ-68	T3SS607521	3	21	60.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-59	T3727525	WZ-69	T3SS727525	3	25	72.75	.375	3	.281	.313	.343	.062	.875	.109	.250
WZ-70	T413004	WZ-80	T4SS13004	4	4	13.00	.500	4	.344	.375	.437	.093	1.062	.125	.312
WZ-75	T425007	WZ-85	T4SS25007	4	7	25.00	.500	4	.344	.375	.437	.093	1.062	.125	.312
WZ-76	T4370010	WZ-86	T4SS370010	4	10	37.00	.500	4	.344	.375	.437	.093	1.062	.125	.312
WZ-77	T4490013	WZ-87	T4SS490013	4	13	49.00	.500	4	.344	.375	.437	.093	1.062	.125	.312
WZ-78	T4610016	WZ-88	T4SS610016	4	16	61.00	.500	4	.344	.375	.437	.093	1.062	.125	.312
WZ-79	T4730019	—	—	4	19	73.00	.500	4	.344	.375	.437	.093	1.062	.125	.312

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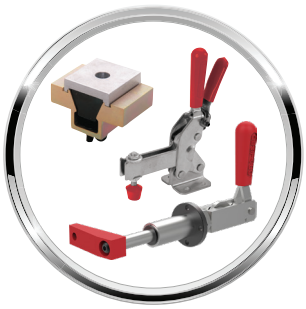
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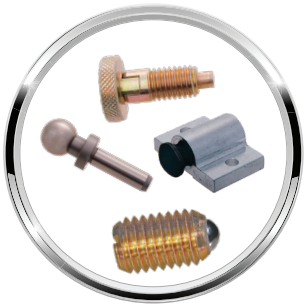
KNOBS HANDLES



LATCHES, CATCHES HINGES



ADJUSTABLE HANDLES



TOOLING & POSITIONING



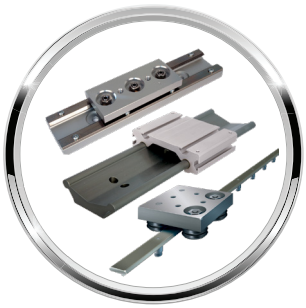
FEET, CASTERS VIBRATION MOUNTS



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HANDWHEELS



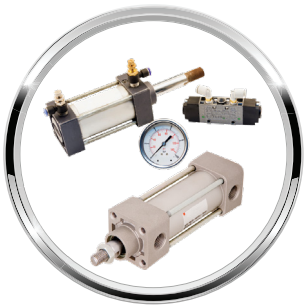
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TRACK ROLLER ASSEMBLIES & ACCESSORIES

Stud Track Rollers - XD15NW Stainless Steel

These track rollers are made of XD15NW Stainless Steel that is more robust than the standard 440C Stainless Steel in terms of load capacity, hardness, corrosion resistance and fatigue resistance. They can be used in markets like industrial automation, aerospace, food packaging, automotive assemblies, welding, fixtures and CNC machining.



NEW PRODUCT

Item No.	A	B	C	D	F	Torque (in-lb)	Static Load Cap. (lbf)	Dynamic Load Cap. (lbf)	Speed Limit (rpm)
CCF-XD24SB	0.750	0.500	0.375	0.875	3/8-24	47.5	2,065	1,660	6,400
CCF-XD32SB	1.000	0.625	0.438	1.000	7/16-20	125	3,060	2,225	4,800
CCF-XD40SB	1.250	0.750	0.500	1.250	1/2-20	175	4,250	3,930	3,100
CCF-XD48SB	1.500	0.875	0.625	1.500	5/8-18	325	5,640	4,840	2,500

Yoke Track Rollers - XD15NW Stainless Steel

These track rollers are made of XD15NW Stainless Steel that is more robust than the standard 440C Stainless Steel in terms of load capacity, hardness, corrosion resistance and fatigue resistance. They can be used in markets like industrial automation, aerospace, food packaging, automotive assemblies, welding, fixtures and CNC machining.



NEW PRODUCT

Item No.	A	B	C	Static Load Cap. (lbf)	Dynamic Load Cap. (lbf)	Speed Limit (rpm)
CCF-XDY24S	0.750	0.250	0.500	4,130	1,660	6,400
CCF-XDY32S	1.000	0.313	0.625	6,120	2,225	4,800
CCF-XDY40S	1.250	0.375	0.750	8,500	3,930	3,100

Self-lubricating cam follower provides continuous, dependable lubrication for the life of the unit. heat-treated steel roller with machined lubrication reservoirs are pre-filled with specially developed lube mixtures. Lubrication penetrates through a porous inner sintered bronze bushing by capillary action. Particularly well suited for applications with light to moderate loads operating at medium to higher speeds. Frequently used in food processing, farm and construction, machine tools, metal-working and packaging. Can be used in high humidity applications, or where equipment is subject to frequent "wash downs".

- Bronze bushing bearing
- Reduces maintenance costs due to simplified design
- Interchangeable with standard types of needle roller bearings
- Ambient temperature of +40 degrees Fahrenheit to +150 degrees Fahrenheit

Load Factor Information	
rpm	Unit Load psi
Slow and Intermittent	4,000 Lbs.
150 to 300 rpm	2,000 Lbs.
300 to 600 rpm	600 Lbs.
600 to 900 rpm	400 Lbs.
900 to 1,200 rpm	300 Lbs.
Example: NCF-40 Cam Follower at 800 rpm= .391 (load factor) x 400 Lbs. = 156.4 Lbs. Capacity	

Stud Type



Item No.	Size	+.000 -.001 A	+.000 -.005 B	+.001 -.000 C	+.010 -.010 D	+.030 -.030 E	Thread F	Hex Key Across Flats G	Load Factor
NCF-5	½	.500	.375	.190	.625	.250	10-32	⅛	.070
NCF-10	⅝	.625	.4375	.250	.750	.312	¼-28	⅛	.097
NCF-15	11/16	.6875	.4375	.250	.750	.312	¼-28	⅛	.097
NCF-20	¾	.750	.500	.375	.875	.375	⅜-24	3/16	.164
NCF-25	⅞	.875	.500	.375	.875	.375	⅜-24	3/16	.164
NCF-30	1	1.00	.625	.4375	1.000	.500	7/16-20	¼	.250
NCF-35	1⅛	1.125	.625	.4375	1.000	.500	7/16-20	¼	.250
NCF-40	1¼	1.250	.750	.500	1.250	.625	½-20	5/16	.391
NCF-45	1⅜	1.375	.750	.500	1.250	.625	½-20	5/16	.391
NCF-50	1½	1.500	.875	.625	1.500	.750	⅝-18	5/16	.544
NCF-55	1⅝	1.625	.875	.625	1.500	.750	⅝-18	5/16	.544
NCF-60	1¾	1.750	1.000	.750	1.750	.875	¾-16	⅜	.700
NCF-65	1⅞	1.875	1.000	.750	1.750	.875	¾-16	⅜	.700
NCF-70	2	2.000	1.125	.875	2.000	1.000	⅞-14	⅜	.984

Note: Load factor information available in above table

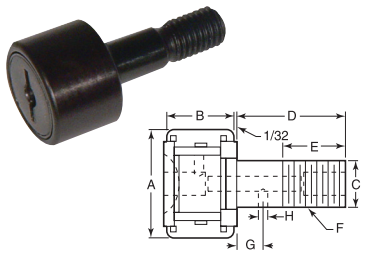
Yoke Type



Item No.	Size	+.000 -.001 A	+.002 -.004 B	+.000 -.005 C	+.005 -.010 D	E	Shaft Dia.	Load Factor
NCF-105	¾	.750	.250	.500	.5625	⅝	.2497	.190
NCF-110	⅞	.875	.250	.500	.5625	⅝	.2497	.190
NCF-115	1	1.000	.3125	.625	.6875	11/16	.3122	.250
NCF-120	1⅛	1.125	.3125	.625	.6875	11/16	.3122	.250
NCF-125	1¼	1.250	.375	.750	.8125	⅞	.3747	.390
NCF-130	1⅜	1.375	.375	.750	.8125	⅞	.3747	.390
NCF-135	1½	1.500	.4375	.875	.9375	1	.4372	.510
NCF-140	1⅝	1.625	.4375	.875	.9375	1	.4372	.510
NCF-145	1¾	1.750	.500	1.000	1.0625	1 1/16	.4997	.650
NCF-150	1⅞	1.875	.500	1.000	1.0625	1 1/16	.4997	.650
NCF-155	2	2.000	.625	1.125	1.3125	1⅜	.6247	.928

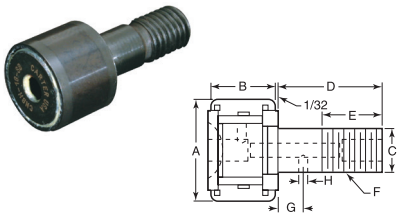
Note: Load factor information available in above table

Stud Type Cam Follower
Regular Duty - Steel
Slotted & Sealed



Item No.	Size	A	B	C	D	E	F	G	H	Load Rating Lbs Dynamic	Static
CCF-5	½	.500	.375	.190	.625	.250	10-32	—	—	930	1,085
CCF-10	⅝	.625	.438	250	.750	.312	¼-28	—	—	995	1,215
CCF-15	¾	.750	.500	.500	.875	.375	⅜-24	¼	3/32	1,660	2,065
CCF-20	⅞	.875	.500	.500	.875	.375	⅜-24	¼	3/32	1,660	2,065
CCF-25	1	1.000	.625	.625	1.000	.500	7/16-20	¼	3/32	2,225	2,065
CCF-30	1⅛	1.125	.625	.625	1.000	.500	7/16-20	¼	3/32	2,225	3,060
CCF-35	1¼	1.250	.750	.750	1.250	.625	½-20	5/16	3/32	3,930	4,250
CCF-40	1 ⅜	1.375	.750	.750	1.250	.625	½-20	5/16	3/32	3,930	4,250
CCF-45	1½	1.500	.875	.875	1.500	.750	⅝-18	⅜	3/32	4,840	5,640
CCF-50	1 ⅝	1.625	.875	.875	1.500	.750	⅝-18	⅜	3/32	4,840	5,640
CCF-55	1¾	1.750	1.000	1.000	1.750	.875	¾-16	7/16	3/32	6,385	7,920
CCF-60	1 ⅞	1.875	1.000	1.000	1.750	.875	¾-16	7/16	3/32	6,385	7,920
CCF-65	2	2.000	1.250	1.250	2.000	1.000	⅞-14	½	⅛	8,090	10,570
CCF-70	2¼	2.250	1.250	1.250	2.000	1.000	⅞-14	½	⅛	8,090	10,570
CCF-75	2½	2.500	1.500	1.500	2.250	1.125	1-14	9/16	⅛	11,720	16,450
CCF-80	3	3.000	1.750	1.250	2.500	1.250	1¼-12	⅝	⅛	15,720	24,910

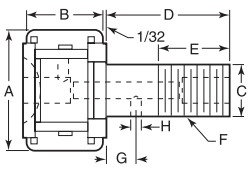
Stud Type Cam Follower
Heavy Duty - Steel
Hexed & Sealed



Item No.	Size	A	B	C	D	E	F	G	H	Load Rating Lbs Dynamic	Static
CCF-500	½	.500	.375	.250	.625	.250	¼-28	—	—	680	1,580
CCF-505	⅝	.625	.438	.313	.750	.312	5/16-24	—	—	955	2,480
CCF-510	¾	.750	.500	.438	.875	.375	7/16-20	¼	3/32	1,660	4,130
CCF-515	⅞	.875	.500	.438	.875	.375	7/16-20	¼	3/32	1,660	4,130
CCF-520	1	1.000	.625	.625	1.000	.500	⅝-18	¼	3/32	2,225	6,120
CCF-525	1 ¼	1.250	.750	.750	1.250	.625	¾-16	5/16	3/32	3,930	8,500
CCF-530	1 ⅜	1.375	.750	.750	1.250	.625	¾-16	5/16	3/32	3,930	8,500
CCF-535	1 ½	1.500	.875	.875	1.500	.750	⅞-14	⅜	3/32	4,840	11,280
CCF-540	1¾	1.750	1.000	1.000	1.750	.875	1-14	7/16	3/32	6,385	15,840
CCF-545	2	2.000	1.125	1.125	2.000	1.000	1 ⅛-12	½	⅛	8,090	21,140
CCF-550	2¼	2.000	1.125	1.125	2.000	1.000	1 ⅛-12	½	⅛	8,090	21,140
CCF-555	2½	2.500	1.500	1.250	2.250	1.125	1¼-12	9/16	⅛	32,900	11,720

Stud Type Cam Follower
Regular Duty - Steel
Standard Crowned
Hexed & Sealed





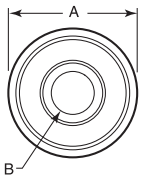
Recommended where variations in dimensions of alignment of the tracks or cam might cause excessive angular loading. It reduces thrust on the rollers and wear and aids reliability.

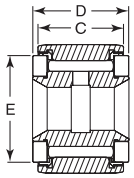
Item No.	Crown Radius	A	B	C	D	E	F	G	H	Load Rating Dynamic	Static
CCF-805	7	.500	.375	.190	.625	.250	10-32	—	—	930	1,085
CCF-810	8	.625	.438	.250	.625	.312	¼-28	—	—	995	1,215
CCF-815	10	.750	.500	.375	.750	.375	⅜-24	¼	3/32	1,660	2,065
CCF-820	10	.875	.500	.375	.750	.375	⅜-24	¼	3/32	1,660	2,065
CCF-825	12	1.000	.625	.438	1.000	.500	7/16-20	¼	3/32	2,225	3,060
CCF-830	12	1.125	.625	.438	1.000	.500	7/16-20	¼	3/32	2,225	3,060
CCF-835	14	1.250	.750	.500	1.250	.625	½-20	5/16	3/32	3,930	4,250
CCF-840	14	1.375	.750	.500	1.250	.625	½-20	5/16	3/32	3,930	4,250
CCF-845	20	1.500	.875	.625	1.500	.750	⅝-18	⅜	3/32	4,840	5,640
CCF-850	20	1.625	.875	.625	1.500	.750	⅝-18	⅜	3/32	4,840	5,640
CCF-855	20	1.750	1.000	.750	1.750	.875	¾-16	7/16	3/32	6,385	7,920
CCF-860	20	1.875	1.000	.750	1.750	.875	¾-16	7/16	3/32	6,385	7,920
CCF-865	24	2.000	1.250	.875	2.000	1.000	⅞-14	½	⅛	8,090	10,570
CCF-870	24	2.250	1.250	.875	2.000	1.000	⅞-14	½	⅛	8,090	10,570

TRACK ROLLER ASSEMBLIES & ACCESSORIES

Yoke Type Rollers
Standard Duty - Steel
Crowned Sealed



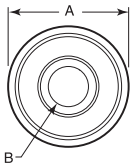


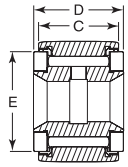


Item No.	Crown Radius	A	B	C	D	E	Oil Hole Diameter	Load Rating	
								Dynamic	Static
CCF-875	10	.750	.250	.500	.562	5/8	3/32	1,660	4,130
CCF-880	10	.875	.250	.500	.562	5/8	3/32	1,660	4,130
CCF-885	12	1.000	.312	.625	.687	23/32	3/32	2,225	6,120
CCF-890	12	1.125	.312	.625	.687	23/32	3/32	2,225	6,120
CCF-895	14	1.250	.375	.750	.812	1	3/32	3,930	8,500
CCF-900	14	1.375	.375	.750	.812	1	3/32	3,930	8,500
CCF-905	20	1.500	.437	.875	.937	1 1/8	3/32	4,840	11,280
CCF-910	20	1.625	.437	.875	.937	1 1/8	3/32	4,840	11,280
CCF-915	20	1.750	.500	1.000	1.063	1 1/4	3/32	6,385	15,840
CCF-920	20	1.875	.500	1.000	1.063	1 1/4	3/32	6,385	15,840
CCF-925	24	2.000	.625	1.250	1.313	1 1/2	3/32	8,090	21,140
CCF-930	24	2.250	.625	1.250	1.313	1 1/2	3/32	8,090	21,140

Yoke Type Rollers
Standard Duty - Steel
Cylindrical Unsealed







Item No.	A	B	C	D	E	Oil Hole Diameter	Load Rating Lbs	
							Dynamic	Static
1292433	.750	.250	.500	.563	5/8	3/32	1,660	4,130
1292434	.875	.250	.500	.563	5/8	3/32	1,660	4,130
1292435	1.000	.313	.625	.688	23/32	3/32	2,225	6,120
1292436	1.125	.313	.625	.688	23/32	3/32	2,225	6,120
1292437	1.250	.375	.750	.813	1	3/32	3,930	8,500
1292438	1.375	.375	.750	.813	1	3/32	3,930	8,500
1292439	1.500	.438	.875	.938	1 1/8	3/32	4,840	11,280
1292440	1.625	.438	.875	.938	1 1/8	3/32	4,840	11,280
1292441	1.750	.500	1.000	1.063	1 1/4	3/32	6,385	15,840
1292442	1.875	.500	1.000	1.063	1 1/4	3/32	6,385	15,840
1292443	2.000	.625	1.250	1.313	1 1/2	3/32	8,090	21,140
1292444	2.250	.625	1.250	1.313	1 1/2	3/32	8,090	21,140
1292445	2.500	.750	1.500	1.563	1 3/4	1/8	11,720	32,900
1292446	2.750	.750	1.500	1.563	1 3/4	1/8	11,720	32,900
1292447	3.000	1.000	1.750	1.813	2 1/4	1/8	15,720	49,820
1292448	3.250	1.000	13750	1.813	2 1/4	1/8	15,720	49,820
1292449	3.500	1.125	2.000	2.063	2 7/16	1/8	22,800	63,250
1292450	4.000	1.250	2.250	2.313	2 5/16	1/8	29,985	89,540

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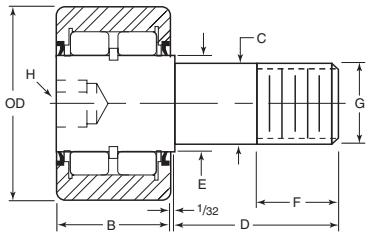


TRACK ROLLER ASSEMBLIES & ACCESSORIES

The RBC Roller® was developed for customers needing a high degree of assurance of long cam follower life. The design incorporates two paths of cylindrical rollers that offer stable outer ring support. With the increased size of the rollers, the RBC Roller® has increased dynamic capacity and fatigue life offering at least twice, and up to five times the fatigue life of the conventional needle roller bearing cam followers. Contacting lip seals are a standard feature of the RBC Roller®. These seals provide positive exclusion of solid and liquid contaminates, and excellent lubricant retention. With large grease storage and the contacting lip seals the RBC Roller® is a true maintenance free cam follower. The RBC Roller® also offers higher speed capacity than the needle roller bearing cam follower and is interchangeable.

Long Life Cam Followers

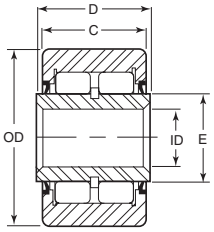




Item No.	+.000/-.001 OD	+.000/-.005 B	+.001/-.000 C	D	E	F	G	H	Dynamic Ratings Lbs.	Static Ratings Lbs.	Max. Load	Speed Limit
RBC-10	1.000	.625	.4375	1.000	.500	.500	7/16-20	1/4	3,000	3,200	1,400	9,400
RBC-20	1.125	.625	.4375	1.000	.500	.500	7/16-20	1/4	3,000	3,200	1,700	9,400
RBC-30	1.250	.750	.5000	1.250	.625	.625	1/2-20	1/4	4,100	4,300	1,500	7,500
RBC-40	1.375	.750	.5000	1.250	.625	.625	1/2-20	1/4	4,100	4,300	1,850	7,500
RBC-50	1.500	.875	.6250	1.500	.750	.750	5/8-18	5/16	6,200	7,000	2,400	6,200
RBC-60	1.625	.875	.6250	1.500	.750	.750	5/8-18	5/16	6,200	7,000	2,800	6,200
RBC-70	1.750	1.000	.7500	1.750	1.000	.875	3/4-16	5/16	8,200	10,500	3,150	4,700
RBC-80	1.875	1.000	.7500	1.750	1.000	.875	3/4-16	5/16	8,200	10,500	3,800	4,700
RBC-90	2.000	1.250	.8750	2.000	1.125	1.000	7/8-14	7/16	12,400	17,200	5,500	4,100
RBC-100	2.250	1.250	.8750	2.000	1.125	1.000	7/8-14	7/16	12,400	17,200	7,000	4,100
RBC-110	2.500	1.500	1.0000	2.250	1.250	1.125	1 1/4	1/2	16,800	22,800	9,100	3,700
RBC-120	2.750	1.500	1.0000	2.250	1.500	1.125	1 1/4-12	1/2	16,800	22,800	10,900	3,700
RBC-130	3.000	1.750	1.2500	2.500	1.500	1.250	1 1/4-12	5/8	28,900	39,100	15,000	3,100
RBC-140	3.250	1.750	1.2500	2.500	1.500	1.250	1 1/4-12	5/8	28,900	39,100	17,800	3,100
RBC-150	3.500	2.000	1.3750	2.750	1.625	1.375	1 3/8-12	5/8	36,100	53,000	21,200	2,900
RBC-160	4	2.250	1.5000	3.500	1.750	1.500	1 1/2-12	3/4	45,600	68,000	23,700	2,600

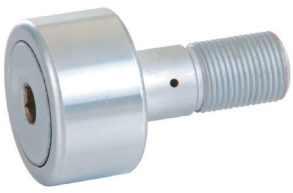
Long Life Yoke Rollers

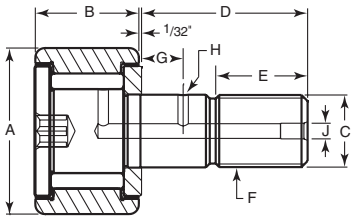




Item No.	+.000/-.001 OD	ID (Min.)	ID (Max.)	+.000/-.005 C	+.005/-.010 D	E	Dynamic Ratings Lbs.	Static Ratings Lbs.	Max. Load	Speed Limit
RBC-170	1.000	.3121	.3127	.625	.6925	.500	3,000	3,200	1,400	9,400
RBC-180	1.125	.3121	.3127	.625	.6925	.500	3,000	3,200	1,700	9,400
RBC-190	1.250	.3746	.3752	.750	.8125	.625	4,100	4,300	1,500	7,500
RBC-200	1.375	.3746	.3752	.750	.8125	.625	4,100	4,300	1,850	7,500
RBC-210	1.500	.4371	.4377	.875	.9375	.750	6,200	7,000	2,400	6,200
RBC-220	1.625	.4371	.4377	.875	.9375	.750	6,200	7,000	2,800	6,200
RBC-230	1.750	.4996	.5002	1.000	1.0625	1.000	8,200	10,500	3,150	4,700
RBC-240	1.875	.4996	.5002	1.000	1.0625	1.000	8,200	10,500	3,800	4,700
RBC-250	2.000	.6246	.6252	1.250	1.3125	1.125	12,400	17,200	5,500	4,100
RBC-260	2.250	.6246	.6252	1.250	1.3125	1.125	12,400	17,200	7,000	4,100
RBC-270	2.500	.7496	.7502	1.500	1.5625	1.250	16,800	22,800	9,100	3,700
RBC-280	2.750	.7496	.7502	1.500	1.5625	1.250	16,800	22,800	10,900	3,700
RBC-290	3.000	.9995	1.0001	1.750	1.8125	1.500	28,900	39,100	15,000	3,100
RBC-300	3.250	.9995	1.0001	1.750	1.8125	1.500	28,900	39,100	17,800	3,100
RBC-310	3.500	1.1245	1.1251	2.000	2.0625	1.625	36,100	53,000	21,200	2,900
RBC-320	4.000	1.2495	1.2501	2.250	2.3125	1.750	45,600	68,000	23,700	2,600

Needle Bearing
Cam Follower Hexed Sealed
Standard Duty - Chrome Plated Steel



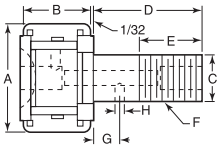


Item No.	+.000 -.001 A	+.000 -.005 B	+.001 -.000 C	+.010 -.010 D	E	F	G	H	Dynamic Ratings Lbs.	Static Ratings Lbs.
CCF-1245	.500	.375	.190	.625	.250	10-32	—	—	680	790
CCF-1250	.625	.438	.250	.750	.312	1/4-28	—	—	955	1,215
CCF-1255	.750	.500	.375	.875	.375	3/8-24	1/4	3/32	1,660	2,065
CCF-1260	1.000	.625	.438	1.000	.500	7/16-20	1/4	3/32	2,225	3,060
CCF-1265	1.250	.750	.500	1.250	.625	1/2-20	5/16	3/32	3,930	4,250
CCF-1270	1.500	.875	.625	1.500	.750	5/8-18	3/8	3/32	4,840	5,640
CCF-1275	1.750	1.000	.750	1.750	.875	3/4-16	7/16	3/32	6,385	7,920
CCF-1280	2.000	1.250	.875	2.000	1.000	7/8-14	1/2	1/8	8,090	10,570

TRACK ROLLER ASSEMBLIES & ACCESSORIES

Stud Type Cam Follower
Regular Duty - Stainless Steel
Hexed & Sealed



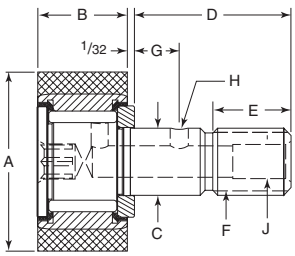


Item No.	Size	A	B	C	D	E	F	G	H	Load Rating Lbs Dynamic	Load Rating Lbs Static
CCF-350	½	.500	.375	.190	.625	.250	10-32	—	—	930	1,085
CCF-355	⅝	.625	.438	250	.750	.312	¼-28	—	—	995	1,215
CCF-360	¾	.750	.500	.500	.875	.375	⅜-24	¼	3/32	1,660	2,065
CCF-370	1	1.000	.625	.625	1.000	.500	7/16-20	¼	3/32	2,225	2,065
CCF-380	1¼	1.250	.750	.750	1.250	.625	½-20	5/16	3/32	3,930	4,250
CCF-390	1½	1.500	.875	.875	1.500	.750	⅝-18	⅜	3/32	4,840	5,640
CCF-400	1¾	1.750	1.000	1.000	1.750	.875	¾-16	7/16	3/32	6,385	7,920
CCF-410	2	2.000	1.250	1.250	2.000	1.000	⅞-14	½	⅛	8,090	10,570

Polycoated bearings can be used for standard and specialized applications where noise reduction, reduced wear and non-marking are important factors in operations.

Needle Bearing
Cam Followers Sealed
With Cast Urethane Cover
Shore 80 A

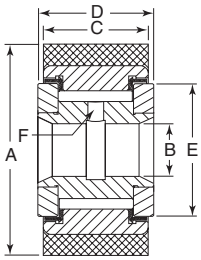




Item No.	Size	+.005 -.005 A	+.005 -.005 B	+.001 -.000 C	+.010 -.010 D	E	F	G	H	J
CCF-1180	¾	.750	.375	.190	.625	.250	10-32	—	—	—
CCF-1185	1	1.000	.500	.375	.875	.375	⅜-24	¼	3/32	3/16
CCF-1190	1¼	1.250	.625	.438	1.000	.500	7/16-20	¼	3/32	3/16
CCF-1195	1½	1.500	.750	.500	1.250	.625	½-20	5/16	3/32	3/16
CCF-1200	1¾	1.750	.875	.625	1.500	.750	⅝-18	⅜	3/32	3/16
CCF-1205	2	2.000	1.000	.750	1.750	.875	¾-16	7/16	3/32	3/16
CCF-1210	2¼	2.250	1.250	.875	2.000	1.000	⅞-14	½	⅛	3/16

Cam Yoke Rollers Sealed
With Cast Urethane Cover
Shore 80 A





Item No.	Size	+.005 -.005 A	+.0002 -.0004 B	+.005 -.005 C	+.005 -.010 D	Flange OD Ref. E	Oil Hole Dia. F
CCF-1215	1	1.000	.250	.500	.562	⅝	3/32
CCF-1220	1¼	1.250	.313	.625	.687	23/32	3/32
CCF-1225	1½	1.500	.375	.750	.812	1	3/32
CCF-1230	1¾	1.750	.438	.875	.937	1⅛	3/32
CCF-1235	2	2.000	.500	1.000	1.062	1¼	3/32
CCF-1240	2¼	2.250	.625	1.250	1.312	1½	3/32

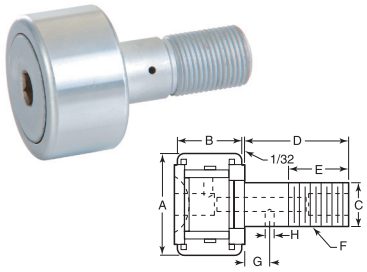
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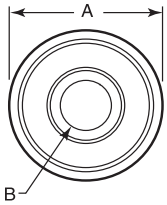
Stud Type Cam Follower
Heavy Duty - Stainless Steel
Hexed & Sealed

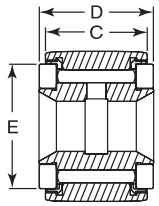


Item No.	Size	A	B	C	D	E	F	G	H	Load Rating Lbs Dynamic	Load Rating Lbs Static
CCF-965	½	.500	.375	.250	.625	.250	¼-28	—	—	544	1,106
CCF-970	⅝	.625	.438	.313	.750	.312	5/16-24	—	—	796	1,736
CCF-975	¾	.750	.500	.438	.875	.375	7/16-20	¼	3/32	1,328	2,891
CCF-980	1	1.000	.625	.625	1.000	.500	⅝-18	¼	3/32	1,780	4,284
CCF-985	1 ¼	1.250	.750	.750	1.250	.625	¾-16	5/16	3/32	3,144	3,144
CCF-990	1 ½	1.500	.875	.875	1.500	.750	⅞-14	⅜	3/32	3,872	7,896
CCF-995	1 ¼	1.750	1.000	1.000	1.750	.875	1-14	7/16	3/32	5,108	11,088
CCF-1000	2	2.000	1.125	1.125	2.000	1.000	1 ⅛-12	½	⅛	7,270	16,200

Yoke Type Rollers - Standard Duty
Cylindrical Steel
Sealed





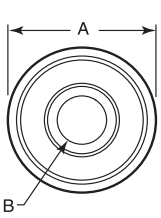


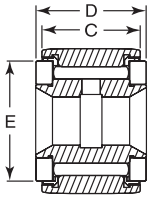
Can support heavier loads because stud deflection is not a factor. Bearings are sealed.

Item No.	Size	A	B	C	D	E	F	Load Rating Lbs Dynamic	Load Rating Lbs Static
CCF-105	¾	.750	.2500	.500	.5625	⅝	—	1,660	4,130
CCF-110	⅞	.875	.2500	.500	.5625	⅝	—	1,660	4,130
CCF-115	1	1.000	.3125	.625	.6875	25/32	—	2,225	6,120
CCF-120	1⅛	1.1250	.3125	.625	.6875	25/32	—	2,225	6,120
CCF-125	1¼	1.250	.3750	.750	.8125	1	—	3,930	8,500
CCF-130	1⅜	1.375	.3750	.750	.8125	1	—	3,930	8,500
CCF-135	1½	1.500	.4375	.875	.9375	1⅛	—	4,840	11,280
CCF-145	1¾	1.750	.5000	1.000	1.0625	1¼	—	6,385	15,840
CCF-150	1⅞	1.875	.5000	1.000	1.0625	1¼	—	6,385	15,840
CCF-155	2	2.000	.6250	1.250	1.3125	1½	—	8,090	21,140
CCF-160	2¼	2.250	.6250	1.250	1.3125	1½	—	8,090	21,140
CCF-165	2½	2.500	.7500	1.500	1.5625	1¾	—	11,720	32,900
CCF-170	3	3.000	1.0000	1.750	1.8125	2¼		49,820	15,720

Yoke Type Rollers - Standard Duty
Cylindrical Stainless Steel
Sealed







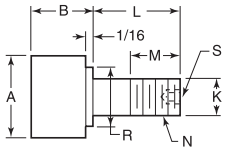
Can support heavier loads because stud deflection is not a factor. Bearings are sealed.

Item No.	Size	A	B	C	D	E	Load Rating Lbs Dynamic	Load Rating Lbs Static
CCF-430	¾	.750	.2500	.500	.5625	⅝	1,490	2,100
CCF-440	1.000	.3125	.625	.6875	25/32	25/32	2,000	5,400
CCF-450	1¼	1.250	.3750	.750	.8125	1	3,903	7,700
CCF-460	1½	1.500	.4375	.875	.9375	1⅛	4,350	11,200
CCF-470	1¾	1.750	.5000	1.000	1.0625	1¼	5,730	14,800

TRACK ROLLER ASSEMBLIES & ACCESSORIES

Cylindrical Plain High Roller Hexed & Sealed



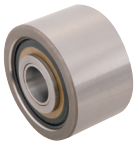


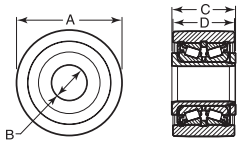
Ideal for simple radial loads or to handle side loads.

Item No.	+.000/-.001 A	B	+.000/-.001 K	L	M	N	R	S	Dynamic Load Radial	Dynamic Load Thrust
1292512	1.000	.781	.437	1.000	.500	7/16-20	.500	3/16	630	140
1292513	1.125	.781	.437	1.000	.500	7/16-20	.500	3/16	630	140
1292514	1.250	.844	.500	1.250	.625	1/2-20	.625	3/16	1,350	370
1292515	1.375	.844	.500	1.250	.625	1/2-20	.625	3/16	1,350	370
CCF-205	1.500	1.188	.625	1.500	.750	5/8-18	.750	5/16	2,760	680
CCF-210	1.750	1.188	.750	1.750	.875	3/4-16	1.000	5/16	2,760	680
CCF-215	2.000	1.688	.875	2.000	1.125	7/8-14	1.000	5/16	3,830	1,000
CCF-225	2.500	1.688	.875	2.250	1.500	1-14	1.250	1/2	3,830	1,000
1292516	2.500	1.687	1.000	2.250	1.500	1-14	1.250	1/2	5,190	1,400
1292517	2.750	1.687	1.000	2.250	1.500	1-14	1.250	1/2	5,190	1,400
CCF-230	3.000	2.000	1.250	2.500	1.750	1 1/4-12	1.750	1/2	14,290	12,000
1292518	3.250	2.000	1.250	2.500	1.750	1 1/4-12	1.750	1/2	14,290	12,000
1292519	3.500	2.000	1.250	2.750	1.750	1 1/4-12	1.750	1/2	14,270	12,000
CCF-240	4.000	2.000	1.250	2.750	1.750	1 1/4-12	1.750	1/2	14,270	12,000
1292520	4.500	2.000	1.250	2.750	1.750	1 1/4-12	1.750	1/2	14,270	12,000
1292521	5.000	3.000	2.000	4.500	2.500	2-12	2.500	5/8	33,290	32,500
1292522	6.000	3.000	2.500	5.500	3.250	2 1/2-12	3.250	5/8	35,840	33,100

Note: Dynamic load rating based on 500 hours L10 life at 33 1/3 rpm

Plain Roller

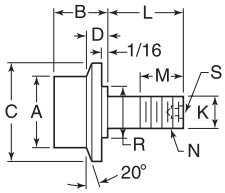




Item No.	A	B	C	D	Dynamic Load Radial	Dynamic Load Thrust
CCF-935	2.500	.750	1.562	1.50	7,630	4,570
CCF-940	3.000	1.000	1.812	1.75	20,000	12,000

Flanged High-Roller Stud Type Hexed & Sealed





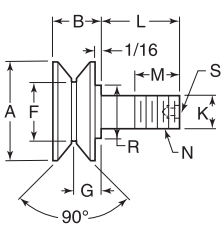
Guidance in two planes for thrust loads.

Item No.	A	B	C	D	K	L	M	N	R	S	Dynamic Load Radial	Dynamic Load Thrust
CCF-260	1.500	1.188	2.188	.344	.625	1.50	.750	5/8-18	.750	5/16	2,750	1,700
CCF-265	1.750	1.188	2.438	.344	.750	1.75	.875	3/4-16	1.000	5/16	2,750	1,700
CCF-270	2.000	1.688	2.688	.594	.875	2.00	1.125	7/8-14	1.000	5/16	3,820	2,380
CCF-275	2.250	1.688	2.938	.594	.875	2.00	1.125	7/8-14	1.000	5/16	3,820	2,380
CCF-280	2.500	1.688	3.188	.594	1.000	2.25	1.500	1-14	1.250	—	5,180	3,185
CCF-285	3.000	2.000	3.938	.594	1.250	2.50	1.750	1 1/4-12	1.750	1/2	14,300	5,790

Note: Dynamic load rating based on 500 hours L10 life at 33 1/3 rpm

Stud Type V-Groove High Roller Hexed & Sealed





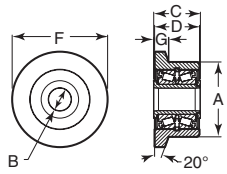
For V-track applications.

Item No.	A	B	F	G	K	L	M	N	R	S	Dynamic Load Radial	Dynamic Load Thrust
CCF-305	2.500	1.313	1.500	.688	.750	.688	.875	3/4-16	1.000	5/16	2,750	1,700
CCF-310	3.500	1.688	2.250	.875	.875	.875	1.125	7/8-14	1.000	5/16	5,180	3,185

Note: Dynamic load rating based on 500 hours L10 life at 33 1/3 rpm

Non Threaded Flanged High-Roller Hexed & Sealed

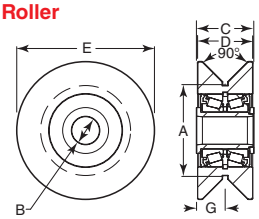




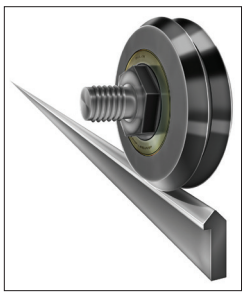
Item No.	A	B	C	D	F	G	Dynamic Load Radial	Dynamic Load Thrust
CCF-945	2.500	.750	1.562	1.500	3.187	.500	7,630	4,570
CCF-950	3.000	1.000	1.812	1.750	3.937	.594	20,000	12,000

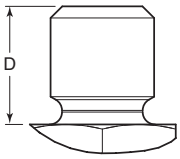
Non-Threaded V-Groove High Roller



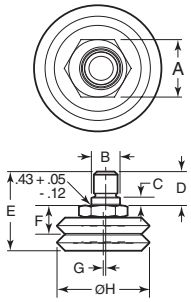


Item No.	A	B	C	D	E	G	Dynamic Load Radial	Dynamic Load Thrust
CCF-955	2.500	.750	1.562	1.50	3.750	.625	7,630	4,570
CCF-960	3.000	1.000	1.612	1.75	4.500	.750	12,660	12,000

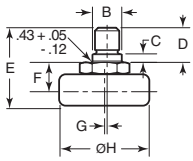




Concentric Stud



Eccentric Stud



Eccentric Stud MadeWell Crown Roller

DualVee® integral guide wheels feature a one-piece bushing or stud shaft with a machined inner bearing race in lieu of a two-piece assembly, providing a lower procurement and installation cost. The unique one-piece design provides a lower profile and increased rigidity (up to 84% less deflection), less tolerance stack up, greater torque capability, and external adjustment. Integral wheels are available in 52100 carbon steel and polymer overmoulded. Like original DualVee® wheels, integral wheels are ideal for a wide array of applications from the clean room to the saw mill. These rugged, yet economical, guide wheels provide smooth, quiet motion at speeds up to 5.5 m/s and acceleration to 5 g's. The recirculating elements are self-contained and isolated from the environment; rolling contact between the wheel and track sweeps debris aside, making it ideal for use in contaminated environments. Track is easily joined for long length systems.

Integral Studded DualVee® Wheels

Bishop Wisecarver Steel Track Rollers

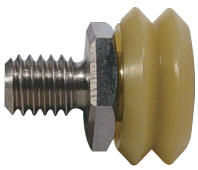


BISHOPWISECARVER

Concentric Shielded Item No.	Mfg's Part No.	Stud Thread	Concentric Sealed Item No.	Mfg's Part No.	Stud Thread	Eccentric Shielded Item No.	Mfg's Part No.	Stud Thread	Eccentric Sealed Item No.	Mfg's Part No.	Stud Thread	Size	A	B	C	D	E	F	G	H	Radial Load (lbf)
WZ-400	SWSC0	M6 x 1.0	WZ-405	SWSC0XA	M6 x 1.0	WZ-410	SWIE0	M5 x .8	WZ-415	SWSE0XA	M5 x .8	0	11	5.56	2.16	7.62	16.95	6.15	.46	14.83	146
WZ-401	SWSC1A	M8 x 1.25	WZ-407	SWSC2XA	M10 x 1.5	WZ-414	SWSE4XA	M12 x 1.75	WZ-417	SWSE2XA	M8 x 1.25	2	14	9.53	2.79	11.38	26.57	9.63	.76	30.73	596
WZ-404	SWSC4XA	M14 x 2.0	WZ-408	SWIC3X	M12 x 1.75	-		-	WZ-418	SWSE3XA	M10 x 1.5	3	19	10.72	4.32	15.11	36.68	13.63	1.50	45.80	1,326

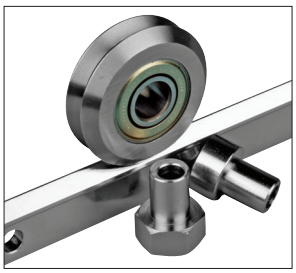
Bishop Wisecarver Polymer Track Rollers

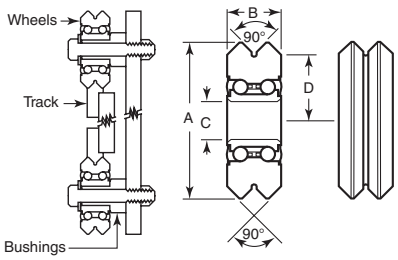
BISHOPWISECARVER



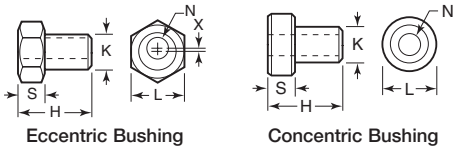
Concentric Shielded Item No.	Mfg's Part No.	Stud Thread	Eccentric Shielded Item No.	Mfg's Part No.	Stud Thread	Size	A	B	C	D	E	F	G	H	Radial Load (lbf)
WZ-420	SWIC0P	M6 x 1.0	WZ-423	SWIE0P	M5 x .8	0	11	5.56	2.16	7.62	16.95	6.15	.81	14.83	6
WZ-421	SWIC1P	M8 x 1.25	WZ-424	SWIE1P	M6 x 1.0	1	12	6.30	2.16	8.10	19.33	7.30	.84	19.58	12
WZ-422	SWIC2P	M10 x 1.5	WZ-425	SWIE2P	M8 x 1.25	2	14	9.53	2.79	11.38	26.57	9.63	.97	30.73	16

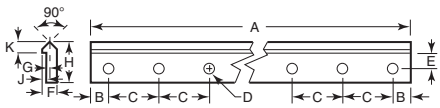
TRACK ROLLER ASSEMBLIES & ACCESSORIES





Wheels





Track

The DualVee® product line offers customers easy to use and easy to install guide wheel components and assemblies. DualVee® components are ideal for a wide array of applications, from the clean room to the saw mill. These rugged, yet economical, guide wheels provide smooth, quiet motion at speeds up to 5.5 m/s and acceleration to 5 g's. The recirculating elements are self-contained and isolated from the environment; rolling contact between the wheel and track, sweeps debris aside making it ideal for use in contaminated environments. Track is easily joined for long length systems. Standard wheels are available in 52100 carbon steel or 440C stainless steel. Eccentric or concentric bushings are 303 stainless or nickel plated carbon steel. Alternatively, integral one-piece wheels can be selected for lower cost and ease of installation. Matching track is cold formed and hardened and polished on the running surfaces.
Track is available in AISI 1045 steel hardened to 53 Rc or AISI 420 stainless hardened to 40 Rc. All parts are sold separately.

Bishop Wisecarver Wheels



Steel Shielded		Stainless Sealed							
Item No.	Mfg's Part No.	Item No.	Mfg's Part No	Size	A	B	C	D	Static Radial Capacity Lbs.
—		WZ-31	W1SSX	1	.77	.310	.1875	.313	274
WZ-12	W2X	WZ-32	W2SSX	2	1.21	.437	.3750	.500	596
WZ-13	W3X	WZ-33	W3SSX	3	1.80	.625	.4724	.750	1,326
WZ-14	W4X	WZ-34	W4SSX	4	2.36	.750	.5906	1.000	2,191
—		WZ-99	W4SSXXL	4XL	2.97	1.000	.8661	1.250	3,215

Guide Bushings



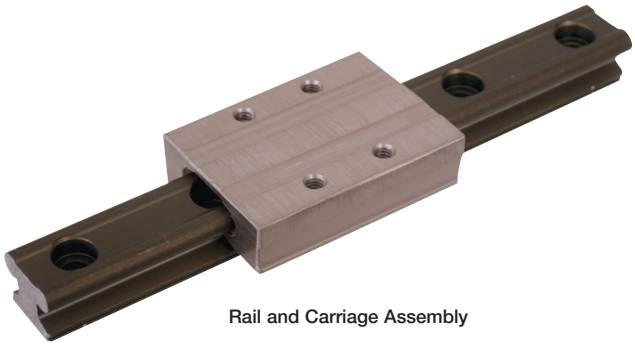
Eccentric			Concentric							
Item No.	Mfg's Part No.	X	Item No.	Mfg's Part No	Size	H	K	L	Screw Size N	S
WZ-51	BX1SS	.012	WZ-95	B1SS	1	.550	.1873	7/16	#6	.250
WZ-52	BX2SS	.024	WZ-96	B2SS	2	.706	.3748	9/16	1/4	.281
WZ-53	BX3SS	.042	WZ-97	B3SS	3	.990	.4722	3/4	5/16	.375
WZ-54	BX4SS	.060	WZ-98	B4SS	4	1.177	.5904	7/8	3/8	.437

Note: Mounting information assumes a central position for bushing allowing an adjustment from +X to -X.

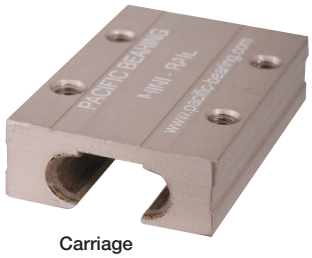
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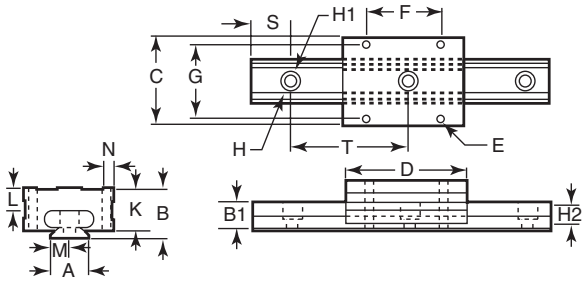
Mini Rail Self-Lubricating Miniature Systems



Rail and Carriage Assembly



Carriage



Low profile, self-lubricating linear guide system with one piece carriage design. Excellent alternative to linear ball bearing systems. Precision series made from a RC70 ceramic coated rail with self-lubricating FrelonGOLD®. Commercial series made from a clear anodized rail with FrelonJ. Dampens vibration and tolerates shock loads. Will not rust. No metal-to-metal contact. No balls or rolling elements to trap contamination, skid or damage the rail. Operation is consistent, smooth and quiet. Maintenance free. Used in packaging machines, medical equipment, wash-down and harsh environments, etc. Carriage and rail sold together. Dimensions are in millimeters. Carriages also sold separately below.

Rails - Carriages Included

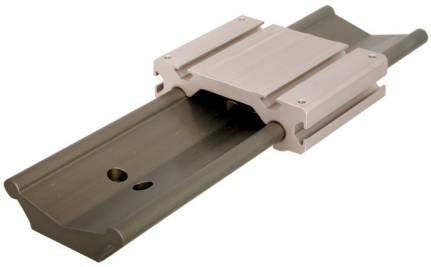
Item No.	Running Clearance	A	B	B1	C	D	E	F	G	H	H1	H2	K	L	M	N	S	T	Rail Length	Max. Static Load Lbs.
PBC-1151	.025 - .051	7	8	6.2	17	24	M2	8	12	4.2	2.4	2.3	6.2	1.7	3.5	2.3	5	15	70	165
PBC-1152	.025 - .051	7	8	6.2	17	24	M2	8	12	4.2	2.4	2.3	6.2	1.7	3.5	2.3	5	15	85	165
PBC-1153	.025 - .051	7	8	6.2	17	24	M2	8	12	4.2	2.4	2.3	6.2	1.7	3.5	2.3	5	15	100	165
PBC-1154	.025 - .051	7	8	6.2	17	24	M2	8	12	4.2	2.4	2.3	6.2	1.7	3.5	2.3	5	15	130	165
PBC-1155	.025 - .051	9	10	7.3	20	30	M3	13	15	4.5	2.6	3.0	8.0	2.4	3.5	2.3	7.5	20	55	350
PBC-1157	.025 - .051	9	10	7.3	20	30	M3	13	15	4.5	2.6	3.0	8.0	2.4	4.5	2.5	7.5	20	95	350
PBC-1159	.025 - .051	9	10	7.3	20	30	M3	13	15	4.5	2.6	3.0	8.0	2.4	4.5	2.5	7.5	20	155	350
PBC-1161	.025 - .051	9	10	7.3	20	30	M3	13	15	4.5	2.6	3.0	8.0	2.4	4.5	2.5	7.5	20	275	350
PBC-1162	.025 - .051	12	13	8.0	27	34	M3	15	20	6.0	3.5	3.5	10.7	4.6	10	3.5	6.0	25	120	440
PBC-1164	.025 - .051	12	13	8.0	27	34	M3	15	20	6.0	3.5	3.5	10.7	4.6	10	3.5	6.0	25	220	440
PBC-1171	.025 - .051	15	16	9.3	32	42	M3	20	25	6.0	3.5	4.5	14.1	6.3	15	3.5	7.5	40	310	700
PBC-1173	.025 - .051	15	16	9.3	32	42	M3	20	25	6.0	3.5	4.5	14.1	6.3	15	3.5	7.5	40	470	700
PBC-1174	.025 - .051	15	16	9.3	32	42	M3	20	25	6.0	3.5	4.5	14.1	6.3	15	3.5	7.5	40	670	700
PBC-1175	.025 - .051	20	25	13.5	46	62	M4	38	38	9.5	6.0	8.5	21.2	11.2	10	4.0	20	60	220	1,350
PBC-1177	.025 - .051	20	25	13.5	46	62	M4	38	38	9.5	6.0	8.5	21.2	11.2	10	4.0	20	60	340	1,350
PBC-1178	.025 - .051	20	25	13.5	46	62	M4	38	38	9.5	6.0	8.5	21.2	11.2	10	4.0	20	60	460	1,350
PBC-1166	.025 - .051	12	13	8.0	27	34	M3	15	20	6.0	3.5	3.5	10.7	4.6	10	3.5	6.0	25	320	440
PBC-1168	.025 - .051	12	13	8.0	27	34	M3	15	20	6.0	3.5	3.5	10.7	4.6	10	3.5	6.0	25	470	440
PBC-1169	.025 - .051	15	16	9.3	32	42	M3	20	25	6.0	3.5	4.5	14.1	6.3	15	3.5	7.5	40	150	700
PBC-1180	.025 - .051	20	25	13.5	46	62	M4	38	38	9.5	6.0	8.5	21.2	11.2	10	4.0	20	60	880	1,350

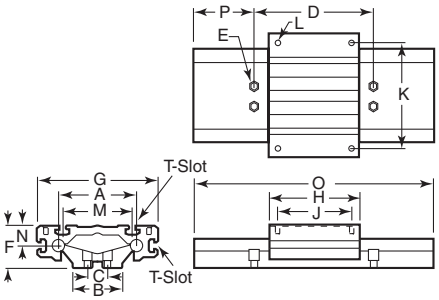
Carriages Only

Item No.	Description
PBC-1212	Carriage - to run on 7mm W Base
PBC-1213	Carriage - to run on 9mm W Base
PBC-1214	Carriage - to run on 12mm W Base
PBC-1215	Carriage - to run on 15mm W Base
PBC-1216	Carriage - to run on 20mm W Base

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES

Sleeve Bearing Sliding Assemblies



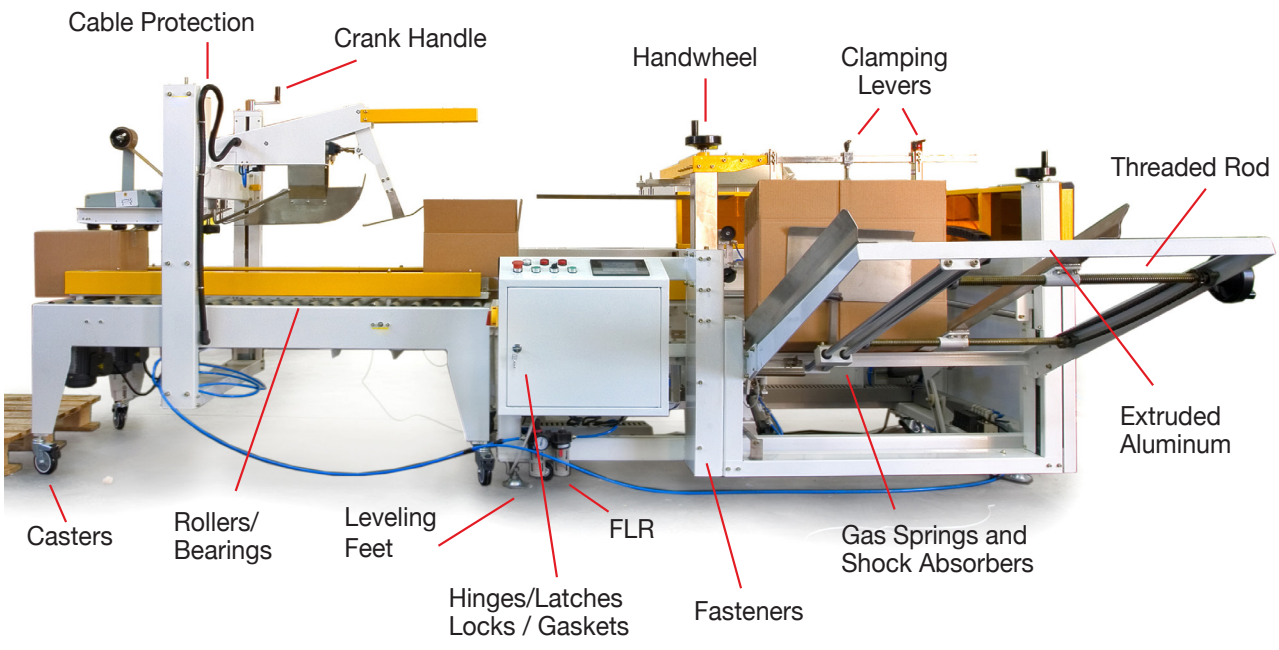


Two piece linear rail systems use Pacific Bearing's FrelonGold® plain bearing technology. Rail and carriage are made from 6063-T6 aluminum. Rails are ceramic coated to resist corrosion, repel weld spatter and contaminants. Smooth running and dampens vibrations. Guide has slots for T-nuts or bolts. Two component system allows for easier installation than traditional rail systems. Guide and rail are sold together.

Item No.	A	B	C	D	Bolt Size E	F	G	H	J	K	Bolt Size L	M	N	O	P	Static Load Max. Lbs.
PBC-750	2.95	2.0	.75	4	¼	1.625	4.6	3.5	3.00	4.00	10-32	2.60	.810	12	2	500
PBC-755	2.95	2.0	.75	4	¼	1.625	4.6	3.5	3.00	4.00	10-32	2.60	.810	24	2	500
PBC-760	3.94	2.6	1.00	6	5⁄16	2.125	6.1	4.5	3.75	5.25	¼-20	3.50	1.024	12	3	750
PBC-765	3.94	2.6	1.00	6	5⁄16	2.125	6.1	4.5	3.75	5.25	¼-20	3.50	1.024	24	3	750
PBC-770	4.92	3.3	1.25	6	⅜	2.625	7.6	6.0	5.25	6.75	5⁄16-18	4.33	1.300	12	4	1,000

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Thomson
Steel Shaft Rail Assemblies

THOMSON

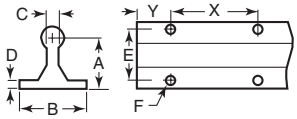


Pre-drilled shafting mounts easily to pre-drilled support rails. For use with open style bearings and pillow blocks. All holes are drilled and tapped to the center of the shaft. Rails provide support over the entire length of the shaft. All supporting rails are made from aluminum alloy. 24 inch lengths. The assemblies include the shaft already mounted on the rail for easy installation.

Item No.	Mfg's Part No.	Shaft Dia.
24" Lgth.		
TLM-1950	SRA8L24	½
TLM-1951	SRA10L24	⅝
TLM-1952	SRA12L24	¾
TLM-1953	SRA-16 CTL L=24	1
48" Lgth.		
TLM-1956	SRA 8X48	½
TLM-1957	SRA 10X48	⅝
TLM-1958	SRA 12X48	¾
TLM-1959	SRA 16X48	1

Linear Shaft Assemblies
Aluminum - Ceramic Coated





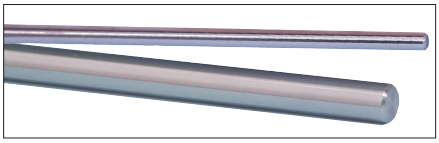
Made from 6061-T6 aluminum with a ceramic coating to MIL-8625. The one piece integrated design eliminates assembly time. Weld spatter, paints and other contaminates will not stick to the shaft. Vibration resistant and non-magnetic. This shafting should not be used in harsh wash down environments or with ball bearings. Class "L" tolerance.

12" Item No.	24" Item No.	Nom. Dia.	Actual Dia.	+/-.002 A	B	C	D	E	F Bolt	F Hole	X Hole Spacing	Y Hole Spacing
PBL-305	PBL-310	½	.4990/.4995	1.125	1.500	.250	.188	1.00	#6	.169	4	2
PBL-315	PBL-320	¾	.7490/.7495	1.500	1.750	.375	.250	1.25	#10	.221	6	3
PBL-325	PBL-330	1	.9990/.9995	1.750	2.125	.500	.250	1.50	¼	.281	6	3

Features a high load capacity. Approved for direct food contact in applications where animal fat or food approved lubricants are present. Bearing requires lubrication, but offers a middle ground coefficient of friction between ball bushing, composite/self-lubricating bearings and injection molded plastics. Coefficient of friction is .04 to .08. Dampens vibration for quiet and smooth operation - no metal to metal contact. Pillow blocks allow 360° misalignment of 1° from shaft centerline and 2° total misalignment of applications where proper alignment is difficult or self-alignment desirable. Bearing is able to withstand rapid oscillation, contamination, shock/vibration, wash downs, submersion and shaft brinelling. Works in less than ideal conditions such as granite polishing/cutting, glass cutting and abrasive polishing machinery. Minimum shaft hardness is RC35. Temperature range is -200°F to +440°F. The max. static psi is 5,000. The max. PV is 40,000.

Thomson
60 Case® LinearRace®
Steel
Metric

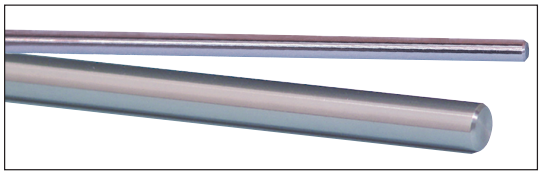
THOMSON



Thomson's 60 Case® LinearRace® shafts are precision ground to exacting standards for superior linear bearing performance and life. Case hardened to 60-65C. Roundness is 80 millionth of an inch. Surface finish 12 Ra micro inch.

Item No.	Mfg's Part No	Nom. Dia.	Actual Dia.	Length (mm)
TLM-3039	QS 12 MM 250	12	12.00/11.99	250
TLM-3040	QS 12 MM 500	12	12.00/11.99	500
TLM-3041	QS 12 MM 750	12	12.00/11.99	750
TLM-3042	QS 12 MM 1000	12	12.00/11.99	1,000
TLM-3043	QS 12 MM 1500	12	12.00/11.99	1,500
TLM-3044	QS 12 MM 2000	12	12.00/11.99	2,000
TLM-3045	QS 16 MM 250	16	16.00/15.99	250
TLM-3046	QS 16 MM 500	16	16.00/15.99	500
TLM-3047	QS 16 MM 750	16	16.00/15.99	750
TLM-3048	QS 16 MM 1000	16	16.00/15.99	1,000
TLM-3049	QS 16 MM 1500	16	16.00/15.99	1,500
TLM-3050	QS 16 MM 2000	16	16.00/15.99	2,000
TLM-3051	QS 20 MM 250	20	20.00/19.99	250
TLM-3052	QS 20 MM 500	20	20.00/19.99	500
TLM-3053	QS 20 MM 750	20	20.00/19.99	750
TLM-3054	QS 20 MM 1000	20	20.00/19.99	1,000
TLM-3055	QS 20 MM 1500	20	20.00/19.99	1,500
TLM-3056	QS 20 MM 2000	20	20.00/19.99	2,000
TLM-3057	QS 25 MM 500	25	25.00/24.99	500
TLM-3058	QS 25 MM 750	25	25.00/24.99	750
TLM-3059	QS 25 MM 1000	25	25.00/24.99	1,000
TLM-3060	QS 25 MM 1500	25	25.00/24.99	1,500
TLM-3061	QS 25 MM 2000	25	25.00/24.99	2,000
TLM-3062	QS 30 MM 500	30	30.00/29.99	500
TLM-3063	QS 30 MM 750	30	30.00/29.99	750
TLM-3064	QS 30 MM 1000	30	30.00/29.99	1,000
TLM-3065	QS 30 MM 1500	30	30.00/29.99	1,500
TLM-3066	QS 30 MM 2000	30	30.00/29.99	2,000
TLM-3067	QS 40 MM 500	40	40.00/39.99	500
TLM-3068	QS 40 MM 750	40	40.00/39.99	750
TLM-3069	QS 40 MM 1000	40	40.00/39.99	1,000
TLM-3070	QS 40 MM 1500	40	40.00/39.99	1,500
TLM-3071	QS 40 MM 2000	40	40.00/39.99	2,000

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES



Thomson's 60 Case® LinearRace® shafts are precision ground to exacting standards for superior linear bearing performance and life. Case hardened to 60-65C. Stainless steel for corrosion resistance, is 440C with a hardness of 50-55C. Chrome plated steel for corrosion resistance. The ends are not plated. Roundness is 80 millionth of an inch. Surface finish 12 Ra micro inch.

Thomson Steel

THOMSON

Item No.	Mfg's Part No	Nom. Dia	Actual Dia.	Lgth.	Item No.	Thomson	Nom. Dia	Actual Dia.	Lgth.
TLM-1505	QS 1/4L X 6	¼	.2495/.2490	6	TLM-1549	QS 3/4LX6	¾	.7495/.7490	6
TLM-1506	QS 1/4 L X 9	¼	.2495/.2490	9	TLM-1550	QS 3/4LX9	¾	.7495/.7490	9
TLM-1507	QS 1/4LX12	¼	.2495/.2490	12	TLM-1551	QS 3/4LX12	¾	.7495/.7490	12
TLM-1508	QS 1/4LX15	¼	.2495/.2490	15	TLM-1552	QS 3/4LX15	¾	.7495/.7490	15
TLM-1509	QS 1/4LX18	¼	.2495/.2490	18	TLM-1553	QS 3/4LX18	¾	.7495/.7490	18
TLM-1510	QS 1/4LX24	¼	.2495/.2490	24	TLM-1554	QS 3/4LX24	¾	.7495/.7490	24
TLM-1511	QS 1/4LX30	¼	.2495/.2490	30	TLM-1555	QS 3/4LX30	¾	.7495/.7490	30
TLM-1512	QS 1/4LX36	¼	.2495/.2490	36	TLM-1556	QS 3/4LX36	¾	.7495/.7490	36
TLM-1513	QS 1/4LX42	¼	.2495/.2490	42	TLM-1557	QS 3/4LX42	¾	.7495/.7490	42
TLM-1514	QS 1/4LX48	¼	.2495/.2490	48	TLM-1558	QS 3/4LX48	¾	.7495/.7490	48
TLM-1515	QS 3/8LX6	⅜	.3745/.3740	6	TLM-1559	QS 3/4LX60	¾	.7495/.7490	60
TLM-1517	QS 3/8LX12	⅜	.3745/.3740	12	TLM-1561	QS 1LX12	1	.9995/.9990	12
TLM-1519	QS 3/8LX18	⅜	.3745/.3740	18	TLM-1562	QS 1LX18	1	.9995/.9990	18
TLM-1520	QS 3/8LX24	⅜	.3745/.3740	24	TLM-1563	QS 1LX24	1	.9995/.9990	24
TLM-1522	QS 3/8LX36	⅜	.3745/.3740	36	TLM-1564	QS 1LX30	1	.9995/.9990	30
TLM-1524	QS 3/8LX48	⅜	.3745/.3740	48	TLM-1565	QS 1LX36	1	.9995/.9990	36
TLM-1525	QS 1/2LX6	½	.4995/.4990	6	TLM-1566	QS 1LX42	1	.9995/.9990	42
TLM-1526	QS 1/2LX9	½	.4995/.4990	9	TLM-1567	QS 1LX48	1	.9995/.9990	48
TLM-1527	QS 1/2LX12	½	.4995/.4990	12	TLM-1568	QS 1LX60	1	.9995/.9990	60
TLM-1528	QS 1/2LX15	½	.4995/.4990	15	TLM-1570	QS 1-1/4LX12	1¼	1.2495/1.2490	12
TLM-1529	QS 1/2LX18	½	.4995/.4990	18	TLM-1571	QS 1-14LX18	1¼	1.2495/1.2490	18
TLM-1530	QS 1/2LX24	½	.4995/.4990	24	TLM-1572	QS 1-1/4LX24	1¼	1.2495/1.2490	24
TLM-1531	QS 1/2LX30	½	.4995/.4990	30	TLM-1573	QS 1-1/4LX30	1¼	1.2495/1.2490	30
TLM-1532	QS 1/2LX36	½	.4995/.4990	36	TLM-1574	QS 1-1/4LX36	1¼	1.2495/1.2490	36
TLM-1533	QS 1/2LX42	½	.4995/.4990	42	TLM-1575	QS 1-1/4LX42	1¼	1.2495/1.2490	42
TLM-1534	QS 1/2LX48	½	.4995/.4990	48	TLM-1576	QS 1-1/4LX48	1¼	1.2495/1.2490	48
TLM-1535	QS 1/2LX60	½	.4995/.4990	60	TLM-1577	QS 1-1/4LX60	1¼	1.2495/1.2490	60
TLM-1536	QS 1/2LX72	½	.4995/.4990	72	TLM-1578	QS 1-1/4LX72	1¼	1.2495/1.2490	72
TLM-1539	QS 5/8LX12	⅝	.6245/.6240	12	TLM-1579	QS 1-1/2LX12	1½	1.4994/1.4989	12
TLM-1540	QS 5/8LX15	⅝	.6245/.6240	15	TLM-1580	QS 1-1/2LX18	1½	1.4994/1.4989	18
TLM-1541	QS 5/8LX18	⅝	.6245/.6240	18	TLM-1581	QS 1-1/2LX24	1½	1.4994/1.4989	24
TLM-1542	QS 5/8LX24	⅝	.6245/.6240	24	TLM-1582	QS 1-1/2LX30	1½	1.4994/1.4989	30
TLM-1543	QS 5/8LX30	⅝	.6245/.6240	30	TLM-1583	QS 1-1/2LX36	1½	1.4994/1.4989	36
TLM-1544	QS 5/8LX36	⅝	.6245/.6240	36	TLM-1584	QS 1-1/2LX42	1½	1.4994/1.4989	42
TLM-1545	QS 5/8LX42	⅝	.6245/.6240	42	TLM-1585	QS 1-1/2LX48	1½	1.4994/1.4989	48
TLM-1546	QS 5/8LX48	⅝	.6245/.6240	48	TLM-1586	QS 1-1/2LX60	1½	1.4994/1.4989	60
TLM-1547	QS 5/8LX60	⅝	.6245/.6240	60	TLM-1587	QS 1-1/2LX72	1½	1.4994/1.4989	72

Thomson Chrome Plated Steel

THOMSON

Item No.	Mfg's Part No	Nom. Dia.	Actual Dia	Lgth.	Item No.	Thomson	Nom. Dia.	Actual Dia	Lgth.
TLM-1701	QS 1/2LCPX6	½	.4995/.4990	6	TLM-1707	QS 3/4LCPX12	¾	.7495/.7490	12
TLM-1702	QS 1/2LCPX12	½	.4995/.4990	12	TLM-1708	QS 3/4LCPX18	¾	.7495/.7490	18
TLM-1703	QS 1/2LCPX18	½	.4995/.4990	18	TLM-1709	QS 3/4LCPX24	¾	.7495/.7490	24
TLM-1704	QS 1/2LCPX24	½	.4995/.4990	24	TLM-1712	QS 1LCPX12	1	.9995/.9990	12
TLM-1705	QS 1/2LCPX36	½	.4995/.4990	36	TLM-1713	QS 1LCPX18	1	.9995/.9990	18
					TLM-1714	QS 1LCPX24	1	.9995/.9990	24

Thomson Stainless Steel

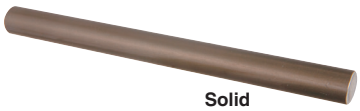
THOMSON

Item No.	Mfg's Part No	Nom. Dia.	Actual Dia.	Lgth.	Item No.	Thomson	Nom. Dia.	Actual Dia.	Lgth.
TLM-1601	QS 1/4LSSX6	¼	.2495/.2490	6	TLM-1620	QS 5/8LSSX12	⅝	.6245/.6240	12
TLM-1602	QS 1/4LSSX12	¼	.2495/.2490	12	TLM-1621	QS 5/8LSSX18	⅝	.6245/.6240	18
TLM-1603	QS 1/4LSSX18	¼	.2495/.2490	18	TLM-1622	QS 5/8LSSX24	⅝	.6245/.6240	24
TLM-1604	QS 1/4LSSX24	¼	.2495/.2490	24	TLM-1623	QS 5/8LSSX36	⅝	.6245/.6240	36
TLM-1605	QS 1/4LSSX36	¼	.2495/.2490	36	TLM-1624	QS 5/8LSSX48	⅝	.6245/.6240	48
TLM-1606	QS 1/4LSSX48	¼	.2495/.2490	48	TLM-1626	QS 3/4LSSX12	¾	.7495/.7490	12
TLM-1607	QS 3/8LSSX6	⅜	.3745/.3740	6	TLM-1627	QS 3/4LSSX18	¾	.7495/.7490	18
TLM-1608	QS 3/8LSSX12	⅜	.3745/.3740	12	TLM-1628	QS 3/4LSSX24	¾	.7495/.7490	24
TLM-1609	QS 3/8LSS18	⅜	.3745/.3740	18	TLM-1629	QS 3/4LSSX36	¾	.7495/.7490	36
TLM-1611	QS 3/8LSSX36	⅜	.3745/.3740	36	TLM-1630	QS 3/4LSSX48	¾	.7495/.7490	48
TLM-1613	QS 1/2LSSX6	½	.4995/.4990	6	TLM-1631	QS 1LSSX12	1	.9995/.9990	12
TLM-1614	QS 1/2LSSX12	½	.4995/.4990	12	TLM-1632	QS 1LSSX18	1	.9995/.9990	18
TLM-1615	QS 1/2LSSX18	½	.4995/.4990	18	TLM-1633	QS 1LSSX24	1	.9995/.9990	24
TLM-1616	QS 1/2LSSX24	½	.4995/.4990	24	TLM-1634	QS 1LSSX36	1	.9995/.9990	36
TLM-1617	QS 1/2LSSX36	½	.4995/.4990	36	TLM-1635	QS 1LSSX48	1	.9995/.9990	48
TLM-1618	QS 1/2LSSX48	½	.4995/.4990	48					

Economical weight saving alternative to traditional steel shafting. Made from 6061-T6 aluminum with a ceramic-coated finish that has a Rockwell hardness of 70C. Surface is non-magnetic and vibration resistant. Weld splatter, paints and contaminants will not stick. Shafting is designed to be used with the Simplicity FrelonGOLD® lined linear bearings. Note: Do not use with ball bearings. Pre-drilled and tapped shafting is interchangeable with standard pre-drilled shafting. Ends of shafting are not coated.

Solid, Pre-drilled, and Tapped Ceramic Coated Aluminum Shafts

Solid



Solid

Item No.	Nominal OD	Lgth.	Dia. Tolerance	Weight Per Inch	Item No.	Nominal OD	Lgth.	Dia. Tolerance	Weight Per Inch
PBC-1030	3/16	6	.1863/.1871	.003	PBC-1060	3/4	6	.7488/.7496	.043
PBC-1031	3/16	9	.1863/.1871	.003	PBC-1061	3/4	9	.7488/.7496	.043
PBC-1032	3/16	12	.1863/.1871	.003	PBC-1062	3/4	12	.7488/.7496	.043
PBC-1033	3/16	15	.1863/.1871	.003	PBC-1063	3/4	15	.7488/.7496	.043
PBC-1034	3/16	18	.1863/.1871	.003	PBC-1064	3/4	18	.7488/.7496	.043
PBC-1035	3/16	24	.1863/.1871	.003	PBC-1065	3/4	24	.7488/.7496	.043
PBC-1036	1/4	6	.2488/.2496	.005	PBC-1066	1	6	.9988/.9996	.077
PBC-1037	1/4	9	.2488/.2496	.005	PBC-1067	1	9	.9988/.9996	.077
PBC-1038	1/4	12	.2488/.2496	.005	PBC-1068	1	12	.9988/.9996	.077
PBC-1039	1/4	15	.2488/.2496	.005	PBC-1069	1	15	.9988/.9996	.077
PBC-1040	1/4	18	.2488/.2496	.005	PBC-1070	1	18	.9988/.9996	.077
PBC-1041	1/4	24	.2488/.2496	.005	PBC-1071	1	24	.9988/.9996	.077
PBC-1042	3/8	6	.3738/.3746	.010	PBC-1072	1 1/4	6	1.2488/1.2496	.120
PBC-1043	3/8	9	.3738/.3746	.010	PBC-1073	1 1/4	9	1.2488/1.2496	.120
PBC-1044	3/8	12	.3738/.3746	.010	PBC-1074	1 1/4	12	1.2488/1.2496	.120
PBC-1045	3/8	15	.3738/.3746	.010	PBC-1075	1 1/4	15	1.2488/1.2496	.120
PBC-1046	3/8	18	.3738/.3746	.010	PBC-1076	1 1/4	18	1.2488/1.2496	.120
PBC-1047	3/8	24	.3738/.3746	.010	PBC-1077	1 1/4	24	1.2488/1.2496	.120
PBC-1048	1/2	6	.4988/.4996	.019	PBC-1078	1 1/2	6	1.4987/1.4995	.173
PBC-1049	1/2	9	.4988/.4996	.019	PBC-1079	1 1/2	9	1.4987/1.4995	.173
PBC-1050	1/2	12	.4988/.4996	.019	PBC-1080	1 1/2	12	1.4987/1.4995	.173
PBC-1051	1/2	15	.4988/.4996	.019	PBC-1081	1 1/2	15	1.4987/1.4995	.173
PBC-1052	1/2	18	.4988/.4996	.019	PBC-1082	1 1/2	18	1.4987/1.4995	.173
PBC-1053	1/2	24	.4988/.4996	.019	PBC-1083	1 1/2	24	1.4987/1.4995	.173
PBC-1054	5/8	6	.6238/.6246	.030	PBC-1084	2	6	1.9985/1.9995	.308
PBC-1055	5/8	9	.6238/.6246	.030	PBC-1085	2	9	1.9985/1.9995	.308
PBC-1056	5/8	12	.6238/.6246	.030	PBC-1086	2	12	1.9985/1.9995	.308
PBC-1057	5/8	15	.6238/.6246	.030	PBC-1087	2	15	1.9985/1.9995	.308
PBC-1058	5/8	18	.6238/.6246	.030	PBC-1088	2	18	1.9985/1.9995	.308
PBC-1059	5/8	24	.6238/.6246	.030	PBC-1089	2	24	1.9985/1.9995	.308



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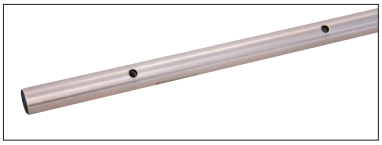
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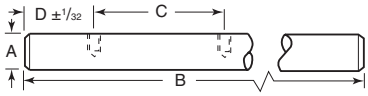
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Thomson
Pre-Drilled 60 Case® LinearRace® Shafting
Steel and Stainless Steel





Pre-drilled shafting for support rails. For use with open style bearings and pillow blocks. All holes are drilled and tapped to the center of the shaft. Made of either steel or stainless steel.

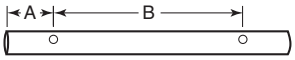
Steel		Stainless						
Item No.	Mfg's Part No	Item No.	Mfg's Part No	A	B	C	D	Thread
TLM-1801	QS 1/2 L PD 24	TLM-1831	QSSS 1/2 L PD 24	½	24	4	2	6-32
TLM-1802	QS 1/2 L PD 48	—	—	½	48	4	2	6-32
TLM-1803	QS 1/2 L PD 72	—	—	½	72	4	2	6-32
TLM-1804	QS 5/8 L PD 24	TLM-1834	QSSS 5/8 L PD 24	⅝	24	4	2	8-32
TLM-1805	QS 5/8 L PD 48	—	—	⅝	48	4	2	8-32
TLM-1806	QS 5/8 L PD 72	TLM-1836	QSSS 5/8 L PD 72	⅝	72	4	2	8-32
TLM-1807	QS 3/4 L PD 24	TLM-1837	QSSS 3/4 L PD 24	¾	24	6	3	10-32
TLM-1808	QS 3/4 L PD 48	TLM-1838	QSSS 3/4 L PD 48	¾	48	6	3	10-32
TLM-1809	QS 3/4 L PD 72	TLM-1839	QSSS 3/4 L PD 72	¾	72	6	3	10-32
TLM-1810	QS 1 L PD 24	TLM-1840	QSSS 1 L PD 24	1	24	6	3	¼-20
TLM-1811	QS 1 L PD 48	TLM-1841	QSSS 1 L PD 48	1	48	6	3	¼-20
TLM-1812	QS 1 L PD 72	TLM-1842	QSSS 1 L PD 72	1	72	6	3	¼-20
TLM-1814	QS 1 1/4 L PD 72	—	—	1¼	72	6	3	5/16-18
TLM-1816	QS 1 1/2 L PD 48	—	—	1½	48	8	4	⅜-16
TLM-1817	QS 1 1/2 L PD 72	—	—	1½	72	8	4	⅜-16

Smooth and Quiet Linear Motion

Pre-drilled and Tapped



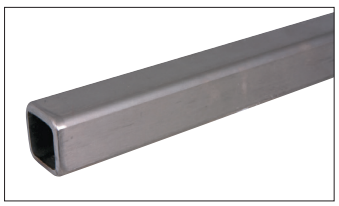
Pre-drilled and Tapped



Item No.	Nominal OD	Lgth.	Dia. Tolerance	Hole Spacing A	Hole Spacing B	Thread	Weight Per Inch
PBC-1090	½	6	.4988/.4996	2	4	6-32	.019
PBC-1091	½	9	.4988/.4996	2	4	6-32	.019
PBC-1092	½	12	.4988/.4996	2	4	6-32	.019
PBC-1093	½	15	.4988/.4996	2	4	6-32	.019
PBC-1094	½	18	.4988/.4996	2	4	6-32	.019
PBC-1095	½	24	.4988/.4996	2	4	6-32	.019
PBC-1096	⅝	6	.6238/.6246	2	4	8-32	.030
PBC-1097	⅝	9	.6238/.6246	2	4	8-32	.030
PBC-1098	⅝	12	.6238/.6246	2	4	8-32	.030
PBC-1099	⅝	15	.6238/.6246	2	4	8-32	.030
PBC-1100	⅝	18	.6238/.6246	2	4	8-32	.030
PBC-1101	⅝	24	.6238/.6246	2	4	8-32	.030
PBC-1102	¾	6	.7488/.7496	3	6	10-32	.043
PBC-1103	¾	9	.7488/.7496	3	6	10-32	.043
PBC-1104	¾	12	.7488/.7496	3	6	10-32	.043
PBC-1105	¾	15	.7488/.7496	3	6	10-32	.043
PBC-1106	¾	18	.7488/.7496	3	6	10-32	.043
PBC-1107	¾	24	.7488/.7496	3	6	10-32	.043
PBC-1108	1	6	.9988/.9996	3	6	¼-20	.077
PBC-1109	1	9	.9988/.9996	3	6	¼-20	.077
PBC-1110	1	12	.9988/.9996	3	6	¼-20	.077
PBC-1111	1	15	.9988/.9996	3	6	¼-20	.077
PBC-1112	1	18	.9988/.9996	3	6	¼-20	.077
PBC-1113	1	24	.9988/.9996	3	6	¼-20	.077
PBC-1114	1¼	6	1.2488/1.2496	3	6	5/16-18	.120
PBC-1115	1¼	9	1.2488/1.2496	3	6	5/16-18	.120
PBC-1116	1¼	12	1.2488/1.2496	3	6	5/16-18	.120
PBC-1117	1¼	15	1.2488/1.2496	3	6	5/16-18	.120
PBC-1118	1¼	18	1.2488/1.2496	3	6	5/16-18	.120
PBC-1119	1¼	24	1.2488/1.2496	3	6	5/16-18	.120
PBC-1120	1½	6	1.4987/1.4995	4	8	⅜-16	.173
PBC-1121	1½	9	1.4987/1.4995	4	8	⅜-16	.173
PBC-1122	1½	12	1.4987/1.4995	4	8	⅜-16	.173
PBC-1123	1½	15	1.4987/1.4995	4	8	⅜-16	.173
PBC-1124	1½	18	1.4987/1.4995	4	8	⅜-16	.173
PBC-1125	1½	24	1.4987/1.4995	4	8	⅜-16	.173
PBC-1126	2	6	1.9985/1.9995	4	8	½-13	.308
PBC-1127	2	9	1.9985/1.9995	4	8	½-13	.308
PBC-1128	2	12	1.9985/1.9995	4	8	½-13	.308
PBC-1129	2	15	1.9985/1.9995	4	8	½-13	.308
PBC-1130	2	18	1.9985/1.9995	4	8	½-13	.308
PBC-1131	2	24	1.9985/1.9995	4	8	½-13	.308

Note: B dimension is centered on all lengths

Square Shafting



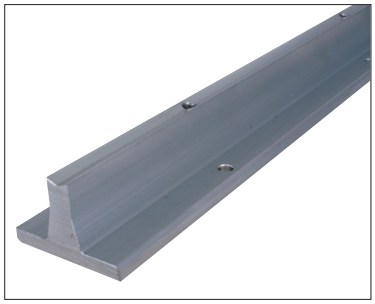
Made from 304 stainless for high corrosion resistance. Buffed and polished to provide an excellent running surface for the above bearings.

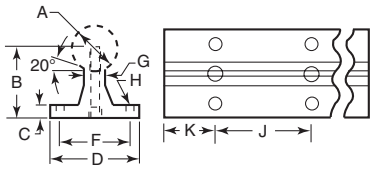
1" x 1"	1½" x 1½"	
Item No.	Item No.	Lgth. (Feet)
PBC-460	PBC-475	2
PBC-465	PBC-480	3
PBC-470	PBC-485	4

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Thomson
Pre-Drilled Shaft Support Rails

THOMSON





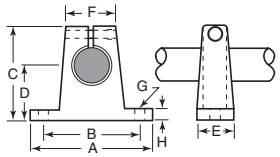
Pre-drilled shafting mounts easily to pre-drilled support rails. For use with open style bearings and pillow blocks. All holes are drilled and tapped to the center of the shaft. Rails provide support over the entire length of the shaft. All supporting rails are made from aluminum alloy. The assemblies include the shaft already mounted on the rail for easy installation.

Item No.	Mfg's Part No.	A	+/-.002 B	C	D	F	G	H Hole	H Bolt	Length	Linear Race Mounting Bolt	J	K
TLM-1901	SR 8 PD-L24	½	1.125	.19	1.50	1.00	.25	.17	#6	24	6-32 x .88	4	2
TLM-1902	SR 10 PD-L24	⅝	1.125	.25	1.63	1.13	.31	.19	#8	24	8-32 x .88	4	2
TLM-1903	SR 12 PD-L24	¾	1.500	.25	1.75	1.25	.38	.22	#10	24	10-32 x 1.25	6	3
TLM-1904	SR 16 PD-L24	1	1.750	.25	2.13	1.50	.50	.28	¼	24	¼-20 x 1.50	6	3
TLM-1905	SR 20 PD-L24	1¼	2.125	.31	2.50	1.88	.56	.34	5/16	24	5/16-18 x 1.75	6	3
TLM-1906	SR24-PD-L24	1½	2.500	.38	3.00	2.25	.69	.34	5/16	24	⅜-16 x 2.00	8	4

Thomson
Shaft Support Blocks

THOMSON





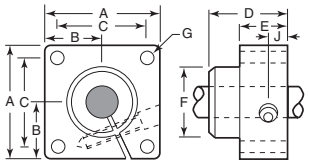
For end supported applications. Easily secured with two mounting bolts. Made from malleable iron alloy with corrosion resistant coating. Block can be reamed to accommodate larger shafts.

Item No.	Mfg's Part No.	Dia.	A	+/-.010 B	C	+/-.002 D	E	F	G Hole	G Bolt	H
TLM-2003	SB 8	½	2	1.500	1.63	1.000	.63	.75	.19	#8	.25
TLM-2004	SB 10	⅝	2½	1.875	1.75	1.000	.69	.88	.22	#10	.31
TLM-2005	SB 12	¾	2¾	2.000	2.13	1.250	.75	1.00	.22	#10	.31
TLM-2006	SB16	1	3¼	2.500	2.56	1.500	1.00	1.38	.28	.25	.38
TLM-2007	SB 20	1¼	4	3.000	3.00	1.750	1.13	1.75	.34	.31	.44
TLM-2008	SB 24	1½	4¾	3.500	3.50	2.000	1.25	2.00	.34	.31	.50

Thomson
Flanged Support Blocks

THOMSON



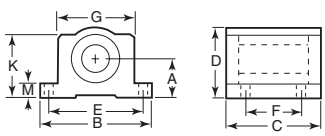


Flanged mounting surface for easy assembly. Secured with four mounting bolts. Made of high strength aluminum alloy. Block can be reamed to accommodate larger shafts.

Item No.	Mfg's Part No.	Dia.	A	B	+/-.010 C	D	E	F	G Hole	G Bolt	J
TLM-2020	FSB 8	½	1.63	.81	1.250	.88	.50	1.00	.18	#8	.25
TLM-2021	FSB 12	¾	2.38	1.19	1.750	1.00	.63	1.25	.21	#10	.31
TLM-2022	FSB 16	1	2.75	1.38	2.125	1.25	.63	1.50	.27	¼	.31
TLM-2023	FSB 20	1¼	3.13	1.56	2.375	1.38	.75	1.75	.27	¼	.38

Self-Aligning Sleeve Bearing Pillow Blocks
Closed Style
Ceramic Coated



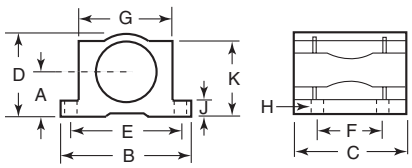


Item No.	Shaft Dia. Nom.	Shaft Dia. Max.	+/-.003 A	B	C	D	+/-.010 E	+/-.010 F	G	Size Bolt	Size Hole	K	Min. M	Max. Static Load
LMB-300	¼	.2495	.437	1⅝	1 3/16	1 3/16	1.312	.750	1	#6	5/32	¾	3/16	939
LMB-305	⅜	.3745	.500	1¾	1 5/16	1 5/16	1.437	.875	1⅛	#6	5/32	⅞	3/16	1,643
LMB-310	½	.4995	.687	2	1 11/16	1¼	1.688	1.000	1⅜	#6	5/32	1⅛	¼	3,128
LMB-315	¾	.7495	.937	2¾	2 1/16	1¾	2.375	1.250	1⅞	#8	3/16	1 9/16	5/16	6,100
LMB-320	1	.9995	1.187	3¼	2 3/16	2 3/16	2.875	1.750	2⅜	#10	7/32	2	⅜	11,259
LMB-325	1¼	1.2495	1.500	4	3⅜	2 3/16	3.500	2.000	3	#10	7/32	2½	7/16	16,417
LMB-330	1½	1.4994	1.750	4¾	4	3¼	4.125	2.500	3½	¼	9/32	2⅞	½	22,512

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES

Simplicity Pillow Blocks
Closed Style - Single and Twin
Precision and Compensated Styles



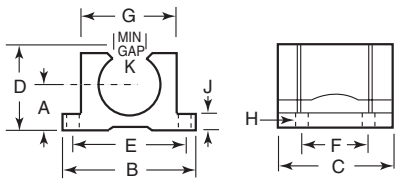


These pillow blocks contain closed style bearings.

Item No.	Nominal ID	Actual ID	+/-.001 A	B	C	D	+/-.010 E	+/-.010 F	G	H Bolt	H Hole	J	K	Max. Load (Lbs.)
Precision Style - Single														
PBC-60	3/8	.3750/.3760	.500	1.75	1.313	.938	1.437	.875	1.125	#6	5/32	.188	.875	510
PBC-61	1/2	.5000/.5010	.687	2.00	1.688	1.250	1.688	1.000	1.375	#6	5/32	.250	1.125	975
PBC-62	5/8	.6250/.6260	.875	2.50	1.938	1.625	2.125	1.125	1.750	#8	3/16	.281	1.438	1,470
PBC-63	3/4	.7500/.7510	.937	2.75	2.063	1.750	2.375	1.250	1.875	#8	3/16	.313	1.563	1,905
PBC-64	1	1.0000/1.0010	1.187	3.25	2.813	2.188	2.875	1.750	2.375	#10	7/32	.375	1.938	3,525
PBC-65	1 1/4	1.2500/1.2510	1.500	4.00	3.625	2.813	3.500	2.000	3.000	#10	7/32	.438	2.500	5,145
PBC-66	1 1/2	1.5000/1.5012	1.750	4.75	4.000	3.250	4.125	2.500	3.500	1/4	9/32	.500	2.875	7,050
PBC-67	2	2.0000/2.0014	2.125	6.00	5.000	4.063	5.250	3.250	4.500	3/8	13/32	.625	3.625	12,525
Compensated Style - Single														
PBC-70	3/8	.3770/.3780	.500	1.75	1.313	.938	1.437	.875	1.125	#6	5/32	.188	.875	510
PBC-71	1/2	.5020/.5030	.687	2.00	1.688	1.250	1.688	1.000	1.375	#6	5/32	.250	1.125	975
PBC-72	5/8	.6270/.6280	.875	2.50	1.938	1.625	2.125	1.125	1.750	#8	3/16	.281	1.438	1,470
PBC-73	3/4	.7530/.7540	.937	2.75	2.063	1.750	2.375	1.250	1.875	#8	3/16	.313	1.563	1,905
PBC-74	1	1.0030/1.0040	1.187	3.25	2.813	2.188	2.875	1.750	2.375	#10	7/32	.375	1.938	3,525
PBC-75	1 1/4	1.2540/1.2550	1.500	4.00	3.625	2.813	3.500	2.000	3.000	#10	7/32	.438	2.500	5,145
PBC-76	1 1/2	1.5040/1.5052	1.750	4.75	4.000	3.250	4.125	2.500	3.500	1/4	9/32	.500	2.875	7,050
Precision Style - Twin														
PBC-100	3/8	.3750/.3760	.500	1.75	2.75	.938	1.437	2.250	1.125	#6	5/32	.188	.875	1,020
PBC-101	1/2	.5000/.5010	.687	2.00	3.50	1.250	1.688	2.500	1.375	#6	5/32	.250	1.125	1,950
PBC-102	5/8	.6250/.6260	.875	2.50	4.00	1.625	2.125	3.000	1.750	#8	3/16	.281	1.438	2,940
PBC-103	3/4	.7500/.7510	.937	2.75	4.50	1.750	2.375	3.500	1.875	#8	3/16	.313	1.563	3,810
PBC-104	1	1.0000/1.0010	1.187	3.25	6.00	2.188	2.875	4.500	2.375	#10	7/32	.375	1.938	7,050

Simplicity Pillow Blocks
Open Style - Single and Twin
Precision and Compensated Styles



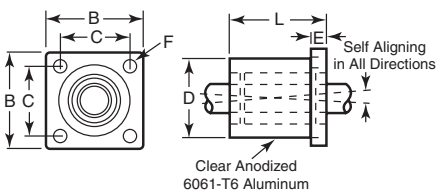


These pillow blocks contain open style bearings.

Item No.	Nominal ID	Actual ID	+/-.001 A	B	C	D	+/-.010 E	+/-.010 F	G	H Bolt	H Hole	J	K	Max. Load (Lbs.)
PBC-80	1/2	.5000/.5010	.687	2.00	1.688	1.125	1.688	1.000	1.375	#6	5/32	.250	.313	975
PBC-81	5/8	.6250/.6260	.875	2.50	1.938	1.438	2.125	1.125	1.750	#8	3/16	.281	.375	1,470
PBC-82	3/4	.7500/.7510	.937	2.75	2.063	1.563	2.375	1.250	1.875	#8	3/16	.313	.438	1,905
PBC-83	1	1.0000/1.0010	1.187	3.25	2.813	1.938	2.875	1.750	2.375	#10	7/32	.375	.563	3,525
PBC-85	1 1/2	1.5000/1.5012	1.750	4.75	4.000	2.875	4.125	2.500	3.500	1/4	9/32	.500	.750	7,050
PBC-90	1/2	.5020/.5030	.687	2.00	1.688	1.125	1.688	1.000	1.375	#6	5/32	.250	.313	975
PBC-91	5/8	.6270/.6280	.875	2.50	1.938	1.438	2.125	1.125	1.750	#8	3/16	.281	.375	1,470
PBC-92	3/4	.7530/.7540	.937	2.75	2.063	1.563	2.375	1.250	1.875	#8	3/16	.313	.438	1,905
PBC-93	1	1.0030/1.0040	1.187	3.25	2.813	1.938	2.875	1.750	2.375	#10	7/32	.375	.563	3,525
PBC-95	1 1/2	1.5040/1.5052	1.750	4.75	4.000	2.875	4.125	2.500	3.500	1/4	9/32	.500	.750	7,050
PBC-110	1/2	.5000/.5010	.687	2.00	3.500	1.125	1.688	2.500	1.375	#6	5/32	.250	.313	1,950
PBC-111	5/8	.6250/.6260	.875	2.50	4.000	1.438	2.125	3.000	1.750	#8	3/16	.281	.375	2,940
PBC-112	3/4	.7500/.7510	.937	2.75	4.500	1.563	2.375	3.500	1.875	#8	3/16	.313	.438	3,810
PBC-113	1	1.0000/1.0010	1.187	3.25	6.000	1.938	2.875	4.500	2.375	#10	7/32	.375	.563	7,050

Simplicity Flange Mounted Self-Aligning Bearings







These Simplicity flange mounted bearings with FrelonGOLD provide all the same self lubrication features as the pillow block mounted bearings. Bearing is FrelonGOLD enclosed in a flange housing made of 6061-T6 aluminum. Double length has two internal mounted bearings.

Item No.	Nominal Diameter	B	C	D	E	F	L	Max. Static Load (Lbs.)
Single Length								
PBC-305	1/2	1.63	1.250	1.25	.250	#8	1.687	975
PBC-310	3/4	2.38	1.750	1.75	.375	#10	2.067	1,470
PBC-315	1	2.75	2.125	2.25	.500	1/4	2.812	1,905
Twin Length								
PBC-320	1/2	1.63	1.250	1.25	.250	#8	3.375	1,950
PBC-325	3/4	2.38	1.750	1.75	.375	#10	4.188	2,940
PBC-330	1	2.75	2.125	2.25	.500	1/4	5.625	3,810

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Sleeve Bearings - Inch & Metric

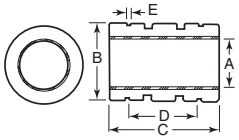
Pacific Bearing's plane bearing technology offers many design advantages over roller ball bearings. Some of these advantages include:

- Self-lubricating which requires no external lubricant
- Embeddability of hard particulate eliminates galling and shaft damage
- Dampens vibration for quiet and smooth operation - no metal to metal contact
- High load capacity allows for more compact design
- Shock loads are absorbed without damage to components
- Maintenance free with a reliable, predictable life that will not catastrophically fail
- High temperature range (-400 to +500 degrees Fahrenheit and chemically inert

The plane bearing liner is made of FrelonGOLD®, a compound PTFE. The interaction of the FrelonGOLD® material and the shafting creates a natural, microscopic transfer process of the FrelonGOLD to the running surfaces. The valleys in the surface finish are filled in with FrelonGOLD® during the initial break-in period. This creates the self-lubricating condition. A minimum of initial lubrication is recommended to aid in cleaning the shaft for a proper transfer process. Chrome plated shafting is not recommended. The compensated styles below, offer additional running clearance. The bearing shell is 6061-T6 aluminum with anodized finish.

Closed Style - Inch

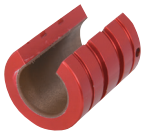


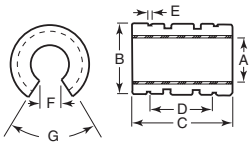


Closed Style

Item No.	Nominal Dia.	A	B	C	D	E	Effective Surface Area (Sq. In.)	Max. Static Load (Lbs.)	Max. Speed Ft./Min. Dry	Max. Speed Ft./Min. Lubricated
Precision Style										
PBC-05	3/16	.1880/.1890	.3740/.3750	.547/.562	.375	.030	.110	110	140	400
PBC-06	1/4	.2500/.2510	.4990/.5000	.735/.750	.437	.041	.200	300	140	400
PBC-07	3/8	.3750/.3760	.6240/.6250	.860/.875	.562	.041	.340	510	140	400
PBC-08	1/2	.5000/.5010	.8740/.8750	1.235/1.250	.875	.048	.650	975	140	400
PBC-09	5/8	.6250/.6260	1.1240/1.1250	1.485/1.500	1.000	.058	.980	1,470	140	400
PBC-10	3/4	.7500/.7510	1.2490/1.2500	1.610/1.625	1.062	.058	1.270	1,905	140	400
PBC-11	1	1.0000/1.0010	1.5613/1.5625	2.235/2.250	1.625	.070	2.350	3,525	140	400
PBC-12	1 1/4	1.2500/1.2510	1.9988/2.0000	2.605/2.625	1.875	.070	3.430	5,145	140	400
PBC-13	1 1/2	1.500/1.5012	2.3738/2.3750	2.980/3.000	2.250	.089	4.700	7,050	140	400
PBC-14	2	2.000/2.0014	2.9986/3.0000	3.980/4.000	3.000	.105	8.350	12525	140	400
Compensated Style										
PBC-25	3/16	.1890/.1900	.3740/.3750	.547/.562	.375	.030	.110	110	140	400
PBC-26	1/4	.2520/.2530	.4990/.5000	.735/.750	.437	.041	.200	300	140	400
PBC-27	3/8	.3770/.3780	.6240/.6250	.860/.875	.562	.041	.340	510	140	400
PBC-28	1/2	.5020/.5030	.8740/.8750	1.235/1.250	.875	.048	.650	975	140	400
PBC-29	5/8	.6270/.6280	1.1240/1.1250	1.485/1.500	1.000	.058	.980	1,470	140	400
PBC-30	3/4	.7530/.7540	1.2490/1.2500	1.610/1.625	1.062	.058	1.270	1,905	140	400
PBC-31	1	1.0030/1.0040	1.5613/1.5625	2.235/2.250	1.625	.070	2.350	3,525	140	400
PBC-32	1 1/4	1.2540/1.2550	1.9988/2.0000	2.605/2.625	1.875	.070	3.430	5,145	140	400
PBC-33	1 1/2	1.5040/1.5052	2.3738/2.3750	2.980/3.000	2.250	.089	4.700	7,050	140	400

Open Style - Inch



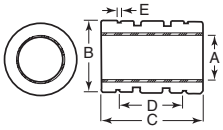


Open Style

Item No.	Nominal Dia.	A	B	C	D	E	F	G (degrees)	Retaining Hole Dia.	Effective Surface Area (Sq. In.)	Max. Static Load (Lbs.)	Max. Speed Ft./Min. Dry	Max. Speed Ft./Min. Lubricated
Precision Style													
PBC-40	1/2	.5000/.5010	.8740/.8750	1.235/1.250	.875	.048	.313	60	.136	.650	975	140	400
PBC-41	5/8	.6250/.6260	1.1240/1.1250	1.485/1.500	1.000	.058	.375	60	.136	.980	1,470	140	400
PBC-42	3/4	.7500/.7510	1.2490/1.2500	1.610/1.625	1.062	.058	.438	60	.136	1.270	1,905	140	400
PBC-43	1	1.0000/1.0010	1.5613/1.5625	2.235/2.250	1.625	.070	.563	60	.136	2.350	3,525	140	400
PBC-44	1 1/4	1.2500/1.2510	1.9988/2.0000	2.605/2.625	1.875	.070	.625	60	.201	3.430	5,145	140	400
Compensated Style													
PBC-50	1/2	.5020/.5030	.8740/.8750	1.235/1.250	.875	.048	.313	60	.136	.650	975	140	400
PBC-52	3/4	.7530/.7540	1.2490/1.2500	1.610/1.625	1.062	.058	.438	60	.136	1.270	1,905	140	400
PBC-53	1	1.0030/1.0040	1.5613/1.5625	2.235/2.250	1.625	.070	.563	60	.136	2.350	3,525	140	400
PBC-54	1 1/4	1.2540/1.2550	1.9988/2.0000	2.605/2.625	1.875	.070	.625	60	.201	3.430	5,145	140	400
PBC-55	1 1/2	1.5040/1.5052	2.3738/2.3750	2.980/3.000	2.250	.089	.750	60	.201	4.700	7,050	140	400

Closed Style - Metric





Similar to the linear bearings shown above except in standard European metric. Dimensions are in millimeters.

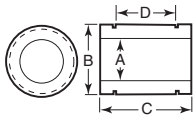
Item No.	Nominal Dia.	A	B	C	D	E	Effective Surface Area (Sq. cm.)	Max. Static Load (kg)	Max. Speed Ft./Min. Dry	Max. Speed Ft./Min. Lubricated
Precision Style										
PBC-907	10	10.013/10.035	18.974/19.000	28.746/29.000	19.4	1.32	2.9	305	42.6	122
PBC-908	12	12.016/12.043	21.979/22.000	31.746/32.000	20.0	1.32	3.8	403	42.6	122
PBC-909	16	16.016/16.043	25.979/26.000	35.746/36.000	22.0	1.32	5.8	605	42.6	122
PBC-910	20	20.020/20.053	31.975/32.000	44.746/45.000	28.0	1.32	9.0	945	42.6	122
PBC-911	25	25.020/25.053	39.975/40.000	57.746/58.000	40.0	1.32	14.5	1,523	42.6	122

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES

Sleeve Bearings
Stainless Steel
FDA/USDA Compliant

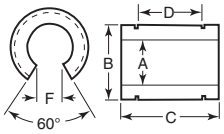


Closed Style





Open Style

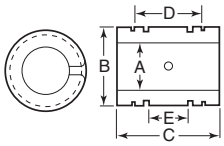


Stainless steel shell features FDA/USDA compliant, self-lubricating PTFE composite liner. Bearings are direct drop-in replacements for inch size linear ball bushings. Designed to run on soft 300 series shafting. Minimum shaft hardness is RB25. Ideal for drug/food processing equipment and packaging equipment where direct contact would be a factor. Bearing is unaffected by wash downs, contamination or submersion. Coefficient of friction is .12 to .20. Temperature range is -400 to +375 degree Fahrenheit. The max. static psi is 1,000. Max. SFM without any load is 400. PV max. is 10,000.

Closed Style	Open Style						
Item No.	Item No.	F	A	B	C	D	Max. Static Load (Lbs.)
LMB-5	LMB-25	.156	.3755	.6250	.875	.562	1,643
LMB-10	LMB-30	.312	.5005	.8750	1.250	.875	3,128
LMB-15	LMB-35	.438	.7508	1.2500	1.625	1.062	6,100
LMB-20	LMB-40	.563	1.0008	1.5625	2.250	1.625	11,259

Sleeve Bearings
Closed Style
Ceramic Coated





Item No.	A	B	C	D	E	Max. Static Load (Lbs.)
LMB-100	.2505	.5000	.750	.437	.018	939
LMB-105	.3755	.6250	.875	.562	.260	1,643
LMB-110	.5005	.8750	1.250	.875	.490	3,128
LMB-115	.7508	1.2500	1.625	1.062	.612	6,100
LMB-120	1.0008	1.5625	2.250	1.625	1.180	11,259
LMB-125	1.2508	2.0000	2.625	1.875	1.425	16,417
LMB-130	1.5008	2.3750	3.000	2.250	1.670	22,512

Note: Do not use WD-40 or silicon based spray lubricants.

Self-Lubricating Metal Backed Bearings

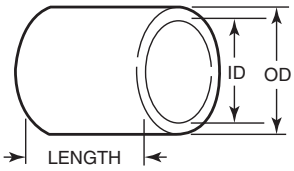


Fiberglide® bearings are designed to carry higher loads with improved wear life. Fiberglide® bearings are unique in their ability to resist cold flow under extremely high load because the monofilament fibers have a tensile strength approximately 25 times greater than straight PTFE resins. Fiberglide® bearings are completely self-lubricating and normally run dry. Operating Fiberglide® bearings are recommended where low surface speeds are combined with high loads.

Item No.	Max. Shaft Diameter	Housing Bore		Bearing Length
		Min.	Max.	
RBC-490	.375	.468	.469	⅜
RBC-500	.375	.468	.469	½
RBC-510	.5	.593	.594	½
RBC-520	.5	.593	.594	⅝
RBC-530	.5	.593	.594	¾
RBC-540	.625	.718	.719	⅝
RBC-550	.625	.718	.719	¾
RBC-560	.625	.718	.719	1
RBC-570	.75	.8745	.8755	½
RBC-580	.75	.8745	.8755	¾
RBC-590	.75	.8745	.8755	1
RBC-600	.875	.9995	1.0005	1
RBC-610	1	1.1245	1.1255	½
RBC-620	1	1.1245	1.1255	¾
RBC-630	1	1.1245	1.1255	1
RBC-640	1	1.1245	1.1255	1¼
RBC-650	1.25	1.4055	1.4065	¾
RBC-660	1.25	1.4055	1.4065	1
RBC-670	1.25	1.4055	1.4065	1¼
RBC-680	1.5	1.6555	1.6565	1½
RBC-690	2	2.1875	2.1885	2
RBC-700	12	14	14.018	12
RBC-720	16	18	18.018	12
RBC-750	22	25	25.021	15

SAE 841 Bronze - Oil Impregnated





These "Oilite type" self lubricating sintered bronze stock bearings have long conformed to ASTM chemical and physical properties, and are the first to include all ASTM standard sizes to all ASTM recommended dimensions and tolerances. After forming, sintering and sizing, the bearings are vacuum impregnated with SAE30 oil that provides lubricant which is metered from the bearing to the shaft during rotation. They will function satisfactorily in temperature ranges of 10 to 220 degrees Fahrenheit. Max P = 2,000, Max V=1,200 and Max PV = 50,000. Ideal for all applications where repeat lubrication is difficult, including all agricultural and industrial machinery and equipment.

ID or OD Size	Tolerance	Length Size	Tolerance
to 1.510	-0.001	to 1.495	±.005
1.511 to 2.510	-0.0015	1.496 to 2.990	±.0075
2.511 to 3.010	-0.002	2.991 to 4.895	±.010
3.011 to 4.010	-0.003		
4.011 to 5.010	-0.004		

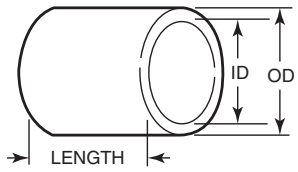
Item No.	ID	OD	Lgth.
1/8" ID x 1/4" ID Nominal			
BNT-100	.1270	.2530	1/8
BNT-101	.1270	.2530	1/4
BNT-102	.1270	.2530	3/8
3/16" ID x 1/4" ID Nominal			
BNT-103	.1895	.2530	1/4
BNT-104	.1895	.2530	3/8
BNT-105	.1895	.2530	1/2
3/16" ID x 5/16" ID Nominal			
BNT-106	.1895	.3155	1/4
BNT-107	.1895	.3155	3/8
BNT-108	.1895	.3155	1/2
1/4" ID x 5/16" ID Nominal			
BNT-109	.2520	.3155	1/4
BNT-110	.2520	.3155	1/2
BNT-111	.2520	.3155	3/4
1/4" ID x 3/8" ID Nominal			
BNT-112	.2520	.3780	1/4
BNT-113	.2520	.3780	3/8
BNT-114	.2520	.3780	1/2
BNT-115	.2520	.3780	5/8
BNT-116	.2520	.3780	3/4
BNT-117	.2520	.3780	7/8
BNT-118	.2520	.3780	1
1/4" ID x 1/2" ID Nominal			
BNT-119	.2500	.5030	1/2
BNT-120	.2500	.5030	3/4
BNT-121	.250	.5030	1
5/16" ID x 3/8" ID Nominal			
BNT-122	.3145	.3780	1/4
BNT-123	.3145	.3780	3/8
BNT-124	.3145	.3780	1/2
BNT-125	.3145	.3780	5/8
BNT-126	.3145	.3780	3/4
5/16" ID x 7/16" ID Nominal			
BNT-305	.3125	.4400	1/4
BNT-306	.3125	.4400	3/8
BNT-307	.3125	.4400	1/2
BNT-308	.3125	.4400	3/4
3/8" ID x 1/2" ID Nominal			
BNT-127	.3770	.5030	1/4
BNT-128	.3770	.5030	3/8
BNT-129	.3770	.5030	1/2
BNT-130	.3770	.5030	5/8
BNT-131	.3770	.5030	3/4
BNT-132	.3770	.5030	7/8
BNT-133	.3770	.5030	1
BNT-134	.3770	.5030	1 1/4
3/8" ID x 9/16" ID Nominal			
BNT-135	.3770	.5655	1/2
BNT-136	.3770	.5655	3/4
BNT-137	.3770	.5655	1
BNT-138	.3770	.5655	1 1/4
3/8" ID x 5/8" ID Nominal			
BNT-139	.3770	.6280	3/8
BNT-140	.3770	.6280	1/2
BNT-141	.3770	.6280	3/4
7/16" ID x 5/8" ID Nominal			
BNT-142	.4395	.6280	1/2
BNT-143	.4395	.6280	3/4
BNT-144	.4395	.6280	1
1/2" ID x 5/8" ID Nominal			
BNT-145	.5020	.6280	3/8
BNT-146	.5020	.6280	1/2
BNT-147	.5020	.6280	5/8
BNT-148	.5020	.6280	3/4
BNT-149	.5020	.6280	1
BNT-150	.5020	.6280	1 1/4

Item No.	ID	OD	Lgth.
1/2" ID x 3/4" ID Nominal			
BNT-151	.5020	.7530	3/8
BNT-152	.5020	.7530	1/2
BNT-153	.5020	.7530	5/8
BNT-154	.5020	.7530	3/4
BNT-155	.5020	.7530	1
BNT-156	.5020	.7530	1 1/4
9/16" ID x 3/4" ID Nominal			
BNT-157	.5645	.7530	3/4
BNT-158	.5645	.7530	1 1/4
5/8" ID x 3/4" ID Nominal			
BNT-159	.6270	.7530	1/2
BNT-160	.6270	.7530	5/8
BNT-161	.6270	.7530	3/4
BNT-162	.6270	.7530	7/8
BNT-163	.6270	.7530	1
BNT-164	.6270	.7530	1 1/4
5/8" ID x 13/16" ID Nominal			
BNT-165	.6270	.8165	1/2
BNT-166	.6270	.8165	3/4
BNT-167	.6270	.8165	1
5/8" ID x 7/8" ID Nominal			
BNT-168	.6270	.8790	1/2
BNT-169	.6270	.8790	5/8
BNT-170	.6270	.8790	3/4
BNT-171	.6270	.8790	1
3/4" ID x 7/8" ID Nominal			
BNT-172	.7520	.8790	1/2
BNT-173	.7520	.8790	5/8
BNT-174	.7520	.8790	3/4
BNT-175	.7520	.8790	1
BNT-176	.7520	.8790	1 1/4
3/4" ID x 1" ID Nominal			
BNT-177	.7520	1.0040	1/2
BNT-178	.7520	1.0040	5/8
BNT-179	.7520	1.0040	3/4
BNT-180	.7520	1.0040	1
BNT-181	.7520	1.0040	1 1/4
BNT-182	.7520	1.0040	1 1/2
BNT-183	.7520	1.0040	1 3/4
BNT-184	.7520	1.0040	2 1/2
3/4" ID x 1 1/8" ID Nominal			
BNT-185	.7520	1.1290	1
7/8" ID x 1" ID Nominal			
BNT-186	.8770	1.0040	1
7/8" ID x 1 1/8" ID Nominal			
BNT-187	.8770	1.1290	3/4
BNT-188	.8770	1.1290	1
BNT-189	.8770	1.1290	1 1/4
1" ID x 1 1/4" ID Nominal			
BNT-190	1.0030	1.2540	1/2
BNT-191	1.0030	1.2540	3/4
BNT-192	1.0030	1.2540	1
BNT-193	1.0030	1.2540	1 1/4
BNT-194	1.0030	1.2540	1 1/2
1 1/8" ID x 1 3/8" ID Nominal			
BNT-195	1.1280	1.3790	1
1 1/4" ID x 1 1/2" ID Nominal			
BNT-196	1.2535	1.5040	3/4
BNT-197	1.2535	1.5040	1
BNT-198	1.2535	1.5040	1 1/2
1 1/2" ID x 1 3/4" ID Nominal			
BNT-199	1.5040	1.7550	1
BNT-200	1.5040	1.7550	1 1/2
BNT-201	1.5040	1.7550	2
2" ID x 2 1/4" ID Nominal			
BNT-202	2.0040	2.2550	1
BNT-203	2.0040	2.2550	1 1/2
BNT-204	2.0040	2.2550	2
2" ID x 2 3/8" ID Nominal			
BNT-205	2.0040	2.3800	1 1/2
BNT-206	2.0040	2.3800	2

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES

Cast Bronze Sleeve Bearings





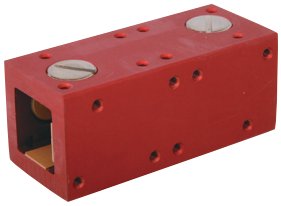
These cast bronze bearings are machined from continuous cast C93200 (SAE660) bronze for superior quality and performance. The continuous casting process assures a uniform bronze structure throughout the bearing, free from porosity and hard particle inclusions commonly found in other cast processes. These solid bearings are ideal in heavy load applications. Max P = 4,000, Max V = 750 with a Max PV = 75,000. Commonly used in all kinds of agricultural and industrial machinery and equipment.

Tolerances					
ID		OD			
3" or Less	Over 3"	3" or Less	Over 3"	Lgth.	Concentricity
±.0010"	±.0015"	+.002" to .003"	+.003" to .005"	±.005"	.003" T.I.R

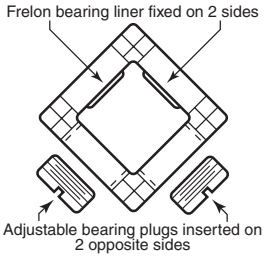
Item No.	ID	OD	Lgth.
1/4" ID x 3/8" ID Nominal			
BNT-207	.2500	.3750	3/8
BNT-208	.2500	.3750	1/2
BNT-209	.2500	.3750	3/4
BNT-210	.2500	.3750	1
BNT-211	.2500	.3750	1 1/4
5/16" ID x 1/2" ID Nominal			
BNT-212	.3125	.5000	3/4
BNT-213	.3125	.5000	1
BNT-214	.3125	.5000	1 1/4
3/8" ID x 1/2" ID Nominal			
BNT-215	.3750	.5000	1/2
BNT-216	.3750	.5000	3/4
BNT-217	.3750	.5000	1
BNT-218	.3750	.5000	1 1/4
BNT-219	.3750	.5000	1 1/2
3/8" ID x 9/16" ID Nominal			
BNT-220	.3750	.5625	1
3/8" ID x 5/8" ID Nominal			
BNT-221	.3750	.6250	3/4
BNT-222	.3750	.6250	1
7/16" ID x 9/16" ID Nominal			
BNT-223	.4375	.5625	1
1/2" ID x 5/8" ID Nominal			
BNT-224	.5000	.6250	5/8
BNT-225	.5000	.6250	3/4
BNT-226	.5000	.6250	1
BNT-227	.5000	.6250	1 1/4
BNT-228	.5000	.6250	1 1/2
BNT-229	.5000	.6250	2
1/2" ID x 3/4" ID Nominal			
BNT-230	.5000	.7500	3/4
BNT-231	.5000	.7500	1
BNT-232	.5000	.7500	1 1/4
BNT-233	.5000	.7500	1 1/2
BNT-234	0.500	0.750	2
BNT-235	0.563	0.750	1 1/4
BNT-236	.6250	.7500	1/2
BNT-237	.6250	.7500	3/4
BNT-238	.6250	.7500	1
BNT-239	.6250	.7500	1 1/4
BNT-240	.6250	.7500	1 1/2
BNT-241	.6250	.7500	1 3/4
BNT-242	.6250	.7500	2
5/8" ID x 13/16" ID Nominal			
BNT-243	.6250	.8125	1
5/8" ID x 7/8" ID Nominal			
BNT-244	.6250	.8750	3/4
BNT-245	.6250	.8750	1
5/8" ID x 1" ID Nominal			
BNT-246	.6250	1	1
BNT-247	.6250	1	2
5/8" ID x 1 1/8" ID Nominal			
BNT-248	.6250	1.1250	1 1/2
3/4" ID x 7/8" ID Nominal			
BNT-249	.7500	.8750	3/4
BNT-250	.7500	.8750	1
BNT-251	.7500	.875	1 1/4
BNT-252	.7500	.8750	1 1/2
3/4" ID x 1" ID Nominal			
BNT-253	.7500	1	3/4
BNT-254	.7500	1	1
BNT-255	.7500	1	1 1/8
BNT-256	.7500	1	1 1/4
BNT-257	.7500	1	1 1/2
BNT-258	.7500	1	2
BNT-259	.7500	1	2 1/4
3/4" ID x 1 1/8" ID Nominal			
BNT-260	.7500	1.1250	1 1/2
7/8" ID x 1" ID Nominal			
BNT-261	.8750	1	1
BNT-262	.8750	1	2
1" ID x 1 1/8" ID Nominal			
BNT-263	1	1.1250	1
BNT-264	1	1.1250	1 1/2
1" ID x 1 1/4" ID Nominal			
BNT-265	1	1.2500	3/4
BNT-266	1	1.2500	1
BNT-267	1	1.2500	1 1/4
BNT-268	1	1.2500	1 1/2
BNT-269	1	1.2500	1 3/4
BNT-270	1	1.2500	2
BNT-271	1	1.2500	2 1/2
BNT-272	1	1.2500	3
1" ID x 1 3/8" ID Nominal			
BNT-273	1	1.3750	1
BNT-274	1	1.3750	1 1/2
1" ID x 1 1/2" ID Nominal			
BNT-275	1	1.5000	1 1/2
BNT-276	1	1.5000	2
BNT-277	1	1.5000	3
BNT-278	1	1.5000	4
1 1/8" ID x 1 3/8" ID Nominal			
BNT-279	1.1250	1.3750	1
BNT-280	1.1250	1.3750	1 3/4
BNT-281	1.1250	1.3750	2
BNT-282	1.1250	1.3750	4
1 1/4" ID x 1 1/2" ID Nominal			
BNT-283	1.2500	1.5000	1 1/2
BNT-284	1.2500	1.5000	2
BNT-285	1.2500	1.5000	3
BNT-286	1.2500	1.5000	4
BNT-288	1.375	1.625	3
1 1/2" ID x 1 3/4" ID Nominal			
BNT-289	1.5000	1.7500	1
BNT-290	1.5000	1.7500	1 3/4
BNT-291	1.5000	1.7500	3
1 1/2" ID x 1 7/8" ID Nominal			
BNT-292	1.5000	1.8750	2
1 1/2" ID x 2" ID Nominal			
BNT-293	1.5000	2	2 1/2
BNT-294	1.5000	2	3
BNT-295	1.5000	2	4
1 1/2" ID x 2 1/4" ID Nominal			
BNT-296	1.5000	2.2500	3
1 3/4" ID x 2" ID Nominal			
BNT-297	1.7500	2	3
1 3/4" ID x 2 1/4" ID Nominal			
BNT-298	1.7500	2.2500	1 3/4
2" ID x 2 1/4" ID Nominal			
BNT-299	2	2.2500	2
2" ID x 2 3/8" ID Nominal			
BNT-300	2	2.3750	3
2" ID x 2 1/2" ID Nominal			
BNT-301	2	2.5000	2
BNT-302	2	2.5000	3
2 1/2" ID x 3" ID Nominal			
BNT-303	2.5000	3	5
3" ID x 3 1/2" ID Nominal			
BNT-304	3	3.5000	4

SLEEVE BEARING SLIDE ASSEMBLIES & ACCESSORIES

Square Sleeve Bearings

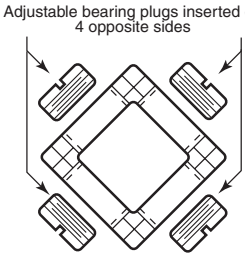


Two Sided Adjustable





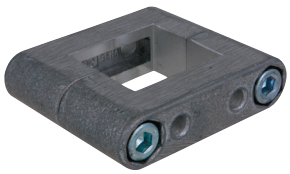
Four Sided Adjustable

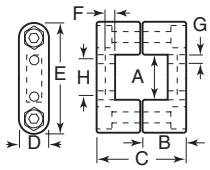


These square bearings maintain radial integrity and can eliminate the need for parallel shafting. The bearings are made from 6061-T6 aluminum with anodized finish. Equipped with bearing plugs that run on a single square shaft, eliminating costly components. The threaded adjustable bearing plugs are made from 316 stainless steel with self-lubricating Frelon® wear pads and are designed to run on the stainless shafting shown below.

Two Sided Adjustable Item No.	Four Sided Adjustable Item No.	ID Sq.	OD Sq.	Lgth.	Load Capacity (Lbs.)
PBC-405	PBC-410	1	1¾	2¼	920
PBC-415	PBC-420	1	1¾	4	920
PBC-425	PBC-430	1½	2⁵⁄₁₆	3⅛	1,840
PBC-435	PBC-440	1½	2⁵⁄₁₆	6	1,840
PBC-450	—	Replacement Frelon Bearing Plug			

Square Clamps and Flange Bases

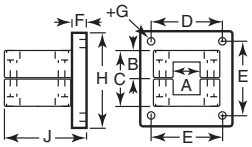




Square Clamps

Item No.	A	B	C	D	E	F	G	H	J
Square Clamps									
PBC-490	1.00	.984	1.968	.630	2.362	.197	.200	.787	—
PBC-495	1.50	1.338	2.677	.630	2.362	.197	.200	2.953	—
Flange Bases									
PBC-500	1.00	1	1.890	2.244	2.244	.394	.256	2.953	2.205
PBC-505	1.50	1.25	2.440	2.756	2.992	.551	.256	3.740	3.347

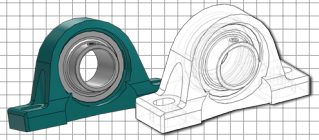
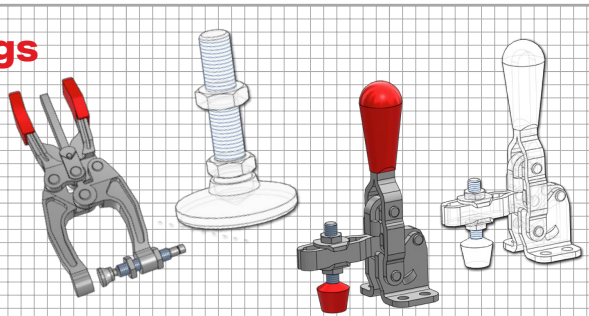




Flange Bases

Made from cast 356-T6 aluminum for good strength and corrosion resistance.

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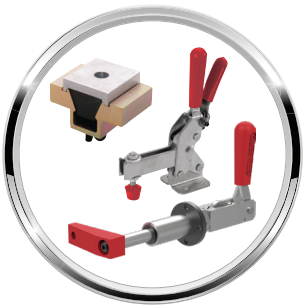
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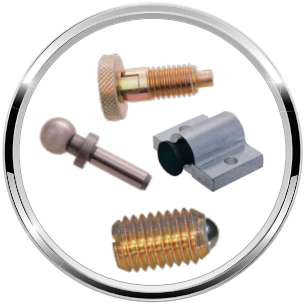
KNOBS HANDLES



LATCHES, CATCHES HINGES



ADJUSTABLE HANDLES



TOOLING & POSITIONING



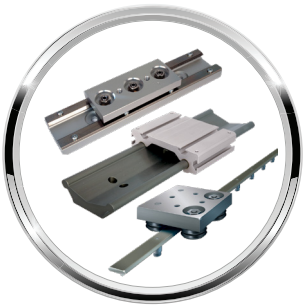
FEET, CASTERS VIBRATION MOUNTS



MEASURING & INSPECTING



HANDWHEELS



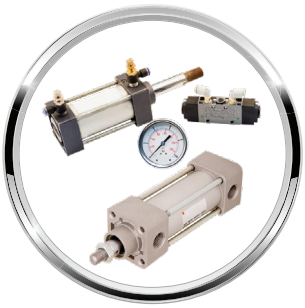
LINEAR MOTION AUTOMATION



MACHINING & FINISHING



HOISTING & RIGGING



PNEUMATICS & HYDRAULICS

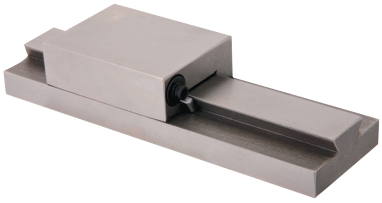
Some of Our Preferred Partners

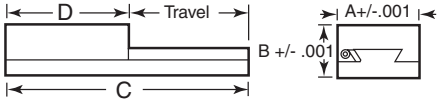
DESTACO a DOVER company · VLIER 75 YEARS OF INNOVATION · Mitutoyo · Kipp · JW WINCO A Ganter Company

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Dovetail Slides



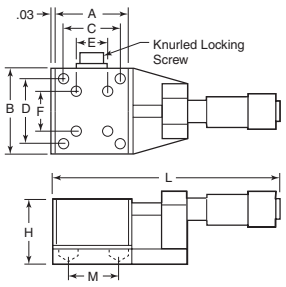


Item No.	A	B	C	D	Travel
DV-110	1.5	1.00	3	2	1
DV-130	1.5	1.00	5	2	3
DV-140	1.5	1.00	6	2	4
DV-100	1.5	1.00	12	2	10
DV-210	2.0	1.25	4	3	1
DV-220	2.0	1.25	5	3	2
DV-230	2.0	1.25	6	3	3
DV-250	2.0	1.25	8	3	5
DV-212	2.0	1.25	15	3	12
DV-310	3.0	1.50	5	4	1
DV-330	3.0	1.50	7	4	3
DV-360	3.0	1.50	10	4	6
DV-390	3.0	1.50	13	4	9
DV-312	3.0	1.50	16	4	12
DV-420	4.0	1.75	7	5	2
DV-430	4.0	1.75	8	5	3
DV-440	4.0	1.75	9	5	4
DV-450	4.0	1.75	10	5	5
DV-490	4.0	1.75	14	5	9

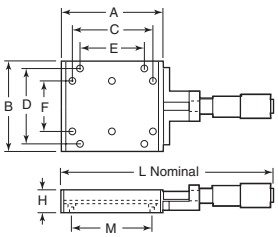
Dovetail slides are used for work feeders for production milling, positioning fixtures, work holding devices, checking fixtures, shuttle devices, assembly equipment, etc. They are made of continuous cast G2 40,000 psi pearlitic grey iron. This material may be milled, drilled, tapped, etc., for altering or mounting purposes. Tapered gibs are adjusted with a single screw that moves the gib on the taper. This type of gib remains parallel and wear is less as it occurs over the entire surface. Accuracy is .001" in 12" of travel. Lubrication is provided with ball detent oilers.

Del-Tron
Ball Slide and Crossed Roller Positioning Stages
Micrometer Driven

Del-Tron Precision, Inc.



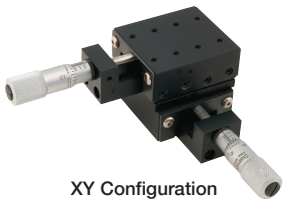
Type A



Type B



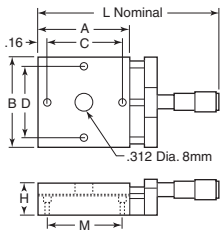
X Configuration



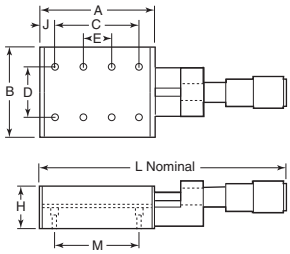
XY Configuration



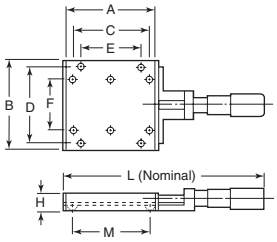
XYZ Configuration



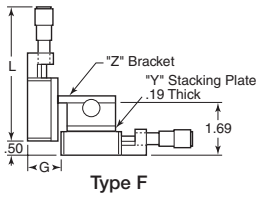
Type C



Type D



Type E



Type F

Positioning Stages - used for gauging and positioning light and medium loads. Applications include measuring instruments and optical assemblies. Spring loaded micrometer drives allow precise repeatable adjustments with low friction and zero backlash. Slides provide repeatability of .0001 inch. Ball slides provide accuracy to .0005/inch of travel, crossed roller slides .0001/inch of travel. Positioning slides can be stacked for multi axis applications. Preloaded positioning slides fully assembled and arrive ready to use. Black anodized finish.

Item No.	Mfg's Part No	Type	Travel	Config.	A	B	C	D	E	F	G	J	M	C'Bore For	Carriage # Holes	Base # Holes	L	H	Load Capacity Lbs. X,XY	Load Capacity Lbs. Z
Ball Slide																				
DT-501	99-X	A	.25	X	.75	.75	.562	.531	.312	.312	—	—	.531	2-56	8	4	2.28	.53	5	1.25
DT-601	101-X	B	.50	X	1.25	1.25	1.000	1.000	.690	.500	—	—	1.000	2-56	10	4	3.25	.38	4	1.25
DT-604	201-X	B	.50	X	1.75	1.75	1.500	1.500	1.190	1.000	—	—	1.500	2-56	10	4	3.75	.38	4	1.25
DT-605	201-XY	E	.50	XY	1.75	1.75	1.500	1.500	1.190	1.000	—	—	1.500	2-56	10	4	3.75	.38	4	1.25
DT-701	301-X	C	.50	X	1.50	1.50	1.187	1.187	—	—	—	—	1.187	#4-M3	4	2	3.50	.62	12	2.00
DT-801	401-X	D	.50	X	2.00	1.75	.500	.875	.250	—	—	.250	1.620	6-32-M4	8	2	4.62	.75	20	20.00
DT-802	401-XY	E	.50	XY	2.00	1.75	.500	.875	.250	—	—	.250	1.620	6-32-M4	8	2	4.62	.75	20	20.00
DT-803	401-LO-XYZ	F	.50	XYZ	2.00	1.75	.500	.875	.250	—	1.12	—	1.620	6-32-M4	8	2	4.62	.75	20	20.00
DT-901	501-X	D	.50	X	3.25	1.75	.550	.875	.250	—	—	.250	2.750	6-32-M4	12	2	5.86	.75	42	20.00
DT-902	501-XY	E	.50	XY	3.25	1.75	.550	.875	.250	—	—	—	2.750	6-32-M4	12	2	5.86	.75	42	20.00
Crossed Roller																				
DT-651	R101-X	B	.50	X	1.25	1.25	1.000	1.000	.690	.500	—	—	1.000	2-56	10	4	3.25	.38	23	1.25
DT-951	R501-X	D	.50	X	3.25	1.75	.550	.875	.250	—	—	.250	2.750	6-32-M4	12	2	5.86	.75	80	20.00

MECHANICAL SPRINGS & ACCESSORIES

Die Springs



Medium Duty



Medium Heavy Duty



Heavy Duty



Extra Heavy Duty

Pressure	Color	Maximum Deflection as a Percent of Length	Efficient Operating Range as Percent of Length
Medium Duty	Blue	50%	25% to 40%
Medium Heavy Duty	Red	37%	20% to 30%
Heavy Duty	Gold	30%	15% to 25%
Extra Heavy Duty	Green	25%	15% to 20%

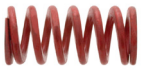
Made from vapor degassed high tensile strength chromium alloy steels. Spring ends are ground square. Designed for long life cycle with constant high-speed deflections and shot peened to increase fatigue life. Load A is the load at 1/10 inch deflection. Load B is the load at maximum operating deflection which is 40% for medium duty, 30% for medium-heavy duty, 25% for heavy duty and 20% for extra heavy duty.

	Medium Duty			Medium Heavy Duty			Heavy Duty			Extra Heavy Duty		
Length	Item No.	Load A	Load B	Item No.	Load A	Load B	Item No.	Load A	Load B	Item No.	Load A	Load B
3/8" Hole Size - 3/16" Rod Size												
1	JS-101	6	24	JS-401	9	27	JS-701	11	27.5	JS-901	22	44
1¼	JS-102	5.4	27	JS-402	7.3	27.4	—	—	—	—	—	—
1½	JS-103	4	24	JS-403	6.7	30.2	JS-703	8	30	—	—	—
1¾	JS-104	3.4	23.8	—	—	—	—	—	—	—	—	—
2	JS-105	2.8	22.4	JS-405	5	30	JS-705	7.2	36	—	—	—
2½	JS-106	2.4	24	—	—	—	JS-706	5.5	34.4	—	—	—
3	JS-107	2.1	25.2	—	—	—	JS-707	4.2	31.5	—	—	—
12	JS-108	0.6	28.8	—	—	—	—	—	—	—	—	—
1/2" Hole Size - 9/13" Rod Size												
1	JS-109	11	44	—	—	—	JS-709	23.6	59	JS-909	32	64
1¼	JS-111	8.2	41	JS-411	13	48.8	JS-711	18.6	58.1	—	—	—
1½	JS-112	6.8	40.8	JS-412	9.5	42.8	JS-712	15.5	58.1	—	—	—
1¾	JS-113	6	42	JS-413	8.5	44.6	JS-713	13.8	60.4	—	—	—
2	JS-114	5.5	44	—	—	—	JS-714	11	55	—	—	—
2½	JS-116	4.5	45	—	—	—	—	—	—	—	—	—
3	JS-117	3.5	42	—	—	—	—	—	—	—	—	—
3½	JS-118	3	42	—	—	—	—	—	—	—	—	—
12	JS-122	0.7	33.6	—	—	—	—	—	—	—	—	—
5/8" Hole Size - 11/32" Rod Size												
1	JS-119	16.4	65.6	JS-419	30	90	JS-719	42.4	106	—	—	—
1¼	JS-121	12.8	64	JS-421	21.5	80.6	JS-721	29.6	92.5	—	—	—
1½	JS-110	10.8	64.8	JS-410	19	85.5	JS-710	27.2	102	—	—	—
1¾	JS-115	9.6	67.2	JS-415	16.8	88.2	JS-715	24	105	—	—	—
2	JS-120	8.8	70.4	JS-420	14.8	88.8	JS-720	20.8	104	—	—	—
2½	JS-125	6	60	—	—	—	JS-725	17	106.3	—	—	—
3	JS-130	5.6	67.2	JS-430	10	90	—	—	—	—	—	—
4	JS-140	4.4	70.4	—	—	—	—	—	—	—	—	—
12	JS-139	1.6	76.8	—	—	—	—	—	—	—	—	—
3/4" Hole Size - 3/8" Rod Size												
1	JS-141	31.2	124.8	JS-441	50	150	JS-741	108	270	JS-941	140	280
1¼	JS-142	25.6	128	JS-442	38	142.5	JS-742	88	275	JS-942	110	275
1½	JS-145	20	120	JS-445	32	144	JS-745	65.6	246	—	—	—
1¾	JS-150	17.6	123.2	JS-450	28.8	151.2	JS-750	60	262.5	—	—	—
2	JS-155	14.4	115.2	JS-455	24.8	148.8	JS-755	49.6	248	JS-955	68	272
2½	JS-160	12	120	JS-460	19.2	144	JS-760	40	250	JS-960	50	250
3	JS-165	9.6	115.2	JS-465	14.4	129.6	JS-765	34	255	—	—	—
3½	JS-170	8	112	JS-470	12.8	134.4	—	—	—	—	—	—
4	JS-175	7.2	115.2	JS-475	12	144	—	—	—	—	—	—
4½	JS-180	6.4	115.2	—	—	—	—	—	—	—	—	—
5	JS-185	6	120	—	—	—	—	—	—	—	—	—
12	JS-186	2.4	115.2	—	—	—	—	—	—	—	—	—
1" Hole Size - 1/2" Rod Size												
1	JS-187	55	220	JS-487	76	228	JS-787	208	520	—	—	—
1¼	JS-188	45	225	—	—	—	JS-788	171.2	535	—	—	—
1½	JS-189	35	210	JS-489	49.6	223.2	JS-789	118.4	444	JS-989	160	480
1¾	JS-190	30	210	JS-490	44	231	JS-790	104	455	—	—	—
2	JS-200	26	208	JS-500	40	240	JS-800	90	450	JS-900	116	464
2½	JS-205	20	200	JS-505	31	232.5	JS-805	68	425	—	—	—
3	JS-210	16.5	198	—	—	—	JS-810	54.4	408	—	—	—
3½	JS-215	15	210	JS-515	21.6	226.8	JS-815	45.6	399	—	—	—
4	JS-220	12	192	JS-520	18.4	220.8	JS-820	40	400	—	—	—
5	JS-230	9.6	192	—	—	—	—	—	—	—	—	—
6	JS-240	8	192	—	—	—	—	—	—	—	—	—
8	JS-241	6	192	—	—	—	—	—	—	—	—	—
12	JS-242	4	192	—	—	—	—	—	—	—	—	—
1¼" Hole Size - 5/8" Rod Size												
1½	JS-243	49.6	297.6	—	—	—	—	—	—	—	—	—
2	JS-245	35.2	281.6	JS-545	86.4	518.4	JS-845	149.6	748	—	—	—
2½	JS-250	28.8	288	JS-550	62.4	468	JS-850	117.6	735	—	—	—
3	JS-255	24	288	JS-555	51.2	460.8	JS-855	95.2	714	—	—	—
3½	JS-260	20	280	JS-560	44	462	JS-860	75.2	658	—	—	—
5	JS-275	13.6	272	JS-575	29	435	—	—	—	—	—	—
4	—	—	—	JS-565	36.8	441.6	—	—	—	—	—	—
1½" Hole Size - 3/4" Rod Size												
2	JS-290	53	424	JS-590	108	648	JS-890	190.4	952	—	—	—
2½	JS-295	45	450	—	—	—	JS-895	155	968.8	JS-950	294.4	1,472
3	JS-300	36	432	—	—	—	—	—	—	—	—	—
3½	JS-305	30	420	—	—	—	—	—	—	—	—	—
4	JS-310	27	432	—	—	—	—	—	—	—	—	—
5	JS-320	21	420	—	—	—	—	—	—	—	—	—
6	JS-330	17	408	—	—	—	—	—	—	—	—	—
2" Hole Size - 1" Rod Size												
2½	JS-335	100	1,000	—	—	—	—	—	—	—	—	—
5	JS-360	47	940	—	—	—	—	—	—	—	—	—

Chrome Silicon Die Springs



Medium Duty



Medium Heavy Duty



Heavy Duty

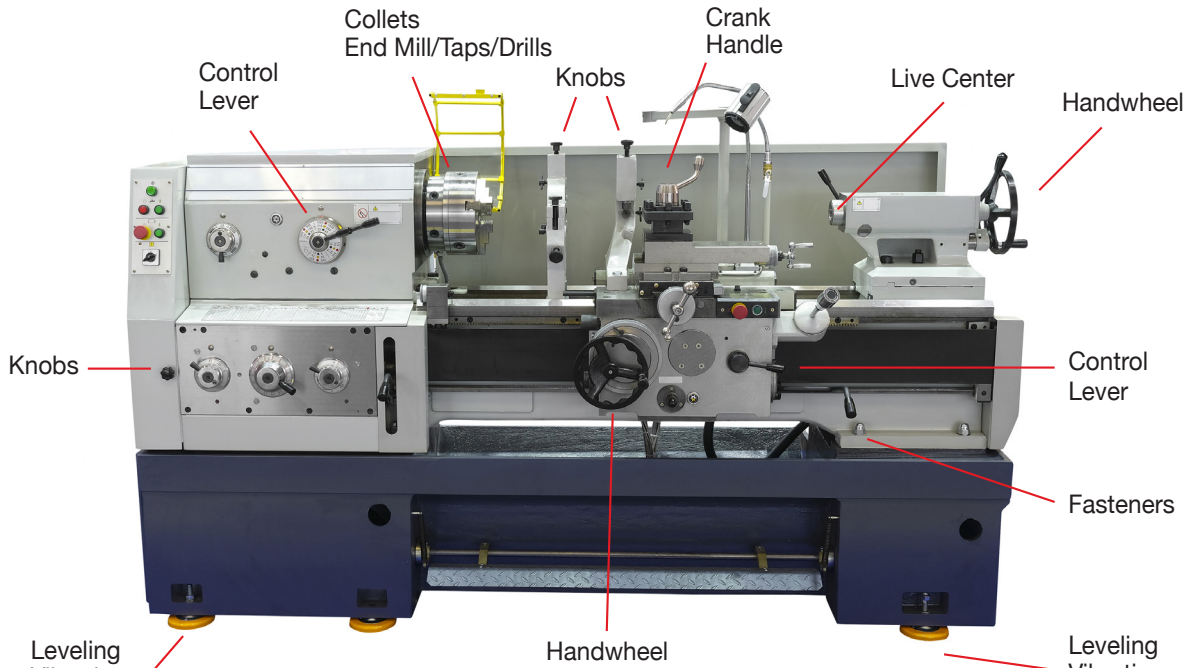
Pressure	Color	Maximum Deflection as a Percent of Length	Efficient Operating Range as Percent of Length
Medium	Blue	50%	25% to 35%
Medium Heavy	Red	37%	20% to 25%
EHeavy	Gold	25%	15% to 20%

Chrome silicon die springs are longer lasting than high carbon steel. Shot peened to reduce working stress and to improve the surface. Available in medium, medium-heavy, and heavy pressure styles. Color coded for easy identification.

	Medium			Medium Heavy			Heavy		
Lgth	Item No.	Load A	Load B	Item No.	Load A	Load B	Item No.	Load A	Load B
3/8" Hole Size - 3/16" Rod Size									
1	JS-101A	5.6	28	JS-401A	9	33.3	JS-70 1A	12.4	37.2
1¼	JS-102A	4.8	30	JS-402A	7.3	33.8	—	—	—
1½	JS-103A	3.8	28.5	JS-403A	6.7	37.19	JS-703A	9.6	43.2
2	JS-105A	2.8	28	JS-405A	5	37	—	—	—
2½	JS-106A	2.4	30	JS-406A	4.2	38.85	JS-706A	6	45
3	JS-107A	1.8	27	—	—	—	JS-707A	4.2	37.8
½" Hole Size - 3/32" Rod Size									
1	JS-109A	0.1	50	JS-409A	16.8	62.16	—	—	—
1¼	JS-111A	9.2	57.5	JS-411A	13.9	64.36	—	—	—
1½	JS-112A	7.6	57	JS-412A	12	66.6	JS-712A	16.4	73.8
1¾	JS-113A	6.8	59.5	JS-413A	10.4	67.39	—	—	—
2	JS-114A	6.4	64	JS-414A	8.7	64.38	—	—	—
2½	JS-116A	5.2	65	JS-416A	6.8	62.9	—	—	—
3	JS-117A	4	60	—	—	—	—	—	—
3½	JS-118A	3	52.5	—	—	—	JS-718A	6.4	67.2
5/8" Hole Size - 11/32" Rod Size									
1	JS-119A	13.1	65.5	JS-419A	27.7	102.49	JS-719A	42.4	127.2
1¼	JS-121A	12.8	80	—	—	—	—	—	—
1½	JS-110A	10.8	81	JS-410A	19	105.45	JS-710A	27.2	122.4
1¾	JS-115A	9.6	84	JS-415A	16.8	108.86	JS-715A	24	126
2	JS-120A	8.8	88	JS-420A	14.8	109.52	JS-720A	20.8	124.8
2½	JS-125A	6	75	JS-425A	11.5	106.38	—	—	—
3	JS-130A	5.6	84	JS-430A	10	111	JS-730A	14.4	129.6
3½	JS-135A	4.8	84	—	—	—	—	—	—
4	JS-140A	4.4	88	—	—	—	—	—	—
5/8" Hole Size - 11/32" Rod Size									
1½	JS-145A	20	150	JS-445A	32	177.6	JS-745A	65.6	295.2
1¾	JS-150A	17.6	154	—	—	—	—	—	—
2	JS-155A	14.4	144	JS-455A	24.8	183.52	JS-755A	49.6	297.6
2½	JS-160A	12	150	JS-460A	19.2	177.6	JS-760A	37.6	282
3	JS-165A	9.6	144	JS-465A	14.4	159.84	JS-765A	31.2	280.8
3½	JS-170A	8	140	JS-470A	12.8	165.76	JS-770A	26.4	277.2
4½	JS-180A	6.4	144	JS-480A	11.2	186.48	—	—	—

	Medium			Medium Heavy			Heavy		
Lgth	Item No.	Load A	Load B	Item No.	Load A	Load B	Item No.	Load A	Load B
¾" Hole Size - 3/8" Rod Size									
6	JS-195A	4	120	—	—	—	—	—	—
4	—	—	—	JS-475A	12	177.6	JS-775A	23.2	278.4
5½	—	—	—	—	—	—	JS-790A	16	264
1" Hole Size - ½" Rod Size									
2	JS-200A	23.2	232	JS-500A	36.8	272.32	JS-800A	84	504
2½	JS-205A	20	250	JS-505A	28.8	266.4	JS-805A	68	510
3	JS-210A	15.2	228	JS-510A	23.2	257.52	JS-810A	54.4	489.6
3½	JS-215A	12.8	224	—	—	—	JS-815A	45.6	478.8
4	JS-220A	12	240	JS-520A	18.4	272.32	JS-820A	40	480
4½	JS-225A	10.4	234	—	—	—	—	—	—
5	JS-230A	9.6	240	—	—	—	—	—	—
6	JS-240A	8	240	—	—	—	JS-840A	25.6	460.8
1¼" Hole Size - 5/8" Rod Size									
2	JS-245A	35.2	352	JS-545A	86.4	639.36	JS-845A	149.6	897.6
2½	JS-250A	28.8	360	JS-550A	62.4	577.2	—	—	—
3	JS-255A	24	360	—	—	—	—	—	—
4	JS-265A	17.6	352	JS-565A	36.8	544.64	JS-865A	66.4	796.8
5	JS-275A	13.6	340	—	—	—	—	—	—
4½	—	—	—	—	—	—	JS-870A	58.4	788.4
1½" Hole Size - ¾" Rod Size									
2	JS-290A	44.8	448	JS-590A	108	799.2	JS-890A	190.4	1,142.4
2½	JS-295A	36.8	460	—	—	—	—	—	—
3	JS-300A	33.6	504	—	—	—	—	—	—
4	JS-310A	21.6	432	JS-610A	48	710.4	JS-910A	91.2	1,094.4
4½	JS-315A	20.8	468	—	—	—	—	—	—
5	JS-320A	20	500	—	—	—	—	—	—
3½	—	—	—	JS-605A	52.8	683.76	—	—	—
6	—	—	—	JS-630A	30.4	674.88	—	—	—
2" Hole Size - 1" Rod Size									
2½	JS-335A	89.6	1,120	—	—	—	JS-935A	220	1,650
3½	—	—	—	JS-645A	80	1,036	—	—	—
4	—	—	—	—	—	—	—	—	—
5	JS-360A	41.6	1,040	—	—	—	JS-960A	104	1,560

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MECHANICAL SPRINGS & ACCESSORIES

Closed End Compression Springs



OD	Wire Dia.	Total Coils	Rate Lbs./In.	Free Lgth.	Item No.
0.088	0.010	7.7	5.30	0.25	S-300
0.088	0.010	13.7	2.60	0.50	S-305
0.088	0.010	19.8	1.70	0.75	S-310
0.088	0.012	8.2	11.10	0.25	S-315
0.088	0.012	15.3	5.10	0.50	S-320
0.088	0.012	23.0	3.10	0.75	S-325
0.120	0.012	12.0	2.40	0.50	S-330
0.120	0.012	22.0	1.20	1.00	S-335
0.120	0.014	11.2	5.00	0.50	S-345
0.120	0.014	20.5	2.50	1.00	S-350
0.120	0.016	11.7	8.60	0.50	S-360
0.120	0.016	18.5	4.10	1.00	S-365
0.120	0.018	12.9	13.10	0.50	S-375
0.120	0.018	24.0	6.50	1.00	S-380
0.120	0.018	36.0	4.20	1.50	S-385
0.120	0.020	12.6	21.60	0.50	S-390
0.120	0.022	13.5	31.10	0.50	S-405
0.120	0.022	25.7	15.10	1.00	S-410
0.120	0.022	39.0	9.70	1.50	S-415
0.148	0.014	9.0	3.30	0.50	S-420
0.148	0.014	16.3	1.60	1.00	S-425
0.148	0.014	23.0	1.10	1.50	S-430
0.148	0.016	12.0	4.10	0.50	S-435
0.148	0.016	22.4	2.00	1.00	S-440
0.148	0.016	31.2	1.40	1.50	S-445
0.148	0.018	13.5	6.00	0.50	S-450
0.148	0.020	14.0	9.10	0.50	S-465
0.148	0.020	26.0	4.60	1.00	S-470
0.148	0.020	38.5	3.00	1.50	S-475
0.148	0.023	14.0	17.10	0.50	S-480
0.148	0.023	37.0	5.90	1.50	S-490
0.148	0.025	25.0	13.10	1.00	S-500
0.148	0.025	37.0	8.60	1.50	S-505
0.180	0.014	6.5	2.70	0.50	S-510
0.180	0.014	11.3	1.30	1.00	S-515
0.180	0.014	15.4	0.90	1.50	S-520
0.180	0.016	6.6	4.60	0.50	S-525
0.180	0.016	12.6	2.00	1.00	S-530
0.180	0.018	7.0	7.10	0.50	S-540
0.180	0.018	13.1	3.20	1.00	S-545
0.180	0.018	18.9	2.10	1.50	S-550
0.180	0.020	8.0	9.30	0.50	S-555
0.180	0.020	14.2	4.60	1.00	S-560
0.180	0.020	20.7	3.00	1.50	S-565
0.180	0.023	9.4	14.10	0.50	S-570
0.180	0.023	18.2	6.40	1.00	S-575
0.180	0.023	26.7	4.20	1.50	S-580
0.180	0.025	9.9	19.10	0.50	S-585
0.180	0.025	18.5	9.10	1.00	S-590
0.180	0.025	28.0	5.80	1.50	S-595
0.180	0.028	7.7	44.00	0.50	S-600
0.180	0.028	14.8	19.60	1.00	S-605
0.180	0.028	21.6	12.80	1.50	S-610
0.180	0.031	8.1	66.00	0.50	S-615
0.180	0.031	15.4	30.00	1.00	S-620
0.180	0.031	22.5	19.60	1.50	S-625
0.210	0.018	12.0	2.10	0.50	S-630
0.210	0.018	21.4	1.10	1.00	S-635
0.210	0.018	32.0	0.71	1.50	S-640
0.210	0.020	22.0	1.70	1.00	S-650
0.210	0.023	11.0	6.80	0.50	S-660
0.210	0.028	19.0	8.60	1.00	S-695
0.210	0.028	27.5	5.70	1.50	S-700
0.240	0.018	8.0	2.30	0.50	S-705
0.240	0.018	14.0	1.10	1.00	S-710
0.240	0.018	20.0	0.77	1.50	S-715
0.240	0.020	6.3	5.00	0.50	S-720
0.240	0.020	10.6	2.50	1.00	S-725
0.240	0.020	15.5	1.60	1.50	S-730
0.240	0.023	6.4	9.10	0.50	S-735
0.240	0.023	11.2	4.30	1.00	S-740
0.240	0.023	15.5	2.90	1.50	S-745
0.240	0.025	6.6	12.30	0.50	S-750
0.240	0.025	11.4	6.00	1.00	S-755
0.240	0.025	16.9	3.80	1.50	S-760
0.240	0.028	5.9	23.80	0.50	S-765
0.240	0.028	10.1	11.40	1.00	S-770
0.240	0.028	14.5	7.40	1.50	S-775
0.240	0.031	6.0	36.10	0.50	S-780
0.240	0.031	11.0	16.10	1.00	S-785
0.240	0.031	15.0	11.10	1.50	S-790
0.240	0.035	6.8	52.10	0.50	S-795
0.240	0.035	12.8	23.10	1.00	S-800
0.240	0.035	18.8	14.90	1.50	S-805
0.240	0.039	7.7	72.20	0.50	S-810
0.240	0.039	14.3	33.20	1.00	S-815
0.240	0.039	21.4	21.20	1.50	S-820
0.240	0.041	8.1	85.00	0.50	S-825
0.240	0.041	14.9	40.00	1.00	S-830
0.240	0.041	22.0	25.80	1.50	S-835
0.300	0.020	5.8	2.80	0.50	S-1000
0.300	0.020	9.5	1.40	1.00	S-1005
0.300	0.020	13.3	0.93	1.50	S-1010
0.300	0.023	4.9	6.60	0.50	S-1015
0.300	0.023	9.0	2.70	1.00	S-1020
0.300	0.023	11.0	2.10	1.50	S-1025
0.300	0.025	4.3	11.60	0.50	S-1030
0.300	0.025	7.3	5.10	1.00	S-1035
0.300	0.025	9.1	3.60	1.50	S-1040
0.300	0.028	5.1	6.50	0.50	S-1045
0.300	0.028	8.8	8.80	1.00	S-1050
0.300	0.028	12.0	4.40	1.50	S-1055
0.300	0.031	6.0	17.10	0.50	S-1060
0.300	0.031	10.4	8.10	1.00	S-1065
0.300	0.031	14.9	5.30	1.50	S-1070
0.300	0.035	5.7	31.30	0.50	S-1075
0.300	0.035	10.5	13.60	1.00	S-1080
0.300	0.035	15.0	8.90	1.50	S-1085
0.300	0.039	6.1	45.90	0.50	S-1090
0.300	0.039	10.9	21.1	1.00	S-1095
0.300	0.039	16.0	13.40	1.50	S-1100
0.300	0.041	6.0	58.00	0.50	S-1105
0.300	0.041	10.6	27.00	1.00	S-1110
0.300	0.041	16.5	16.10	1.50	S-1115
0.300	0.045	6.0	91.00	0.50	S-1120
0.300	0.045	10.6	41.00	1.00	S-1125
0.300	0.045	15.4	26.50	1.50	S-1130
0.360	0.023	4.0	5.30	0.50	S-1135
0.360	0.023	6.0	2.60	1.00	S-1140
0.360	0.023	8.0	1.80	1.50	S-1145
0.360	0.025	3.9	9.10	0.50	S-1150
0.360	0.025	6.3	4.10	1.00	S-1155
0.360	0.025	8.3	2.80	1.50	S-1160
0.360	0.028	4.0	12.30	0.50	S-1165
0.360	0.028	6.1	5.80	1.00	S-1170
0.360	0.028	8.5	3.70	1.50	S-1175
0.360	0.031	4.1	17.90	0.50	S-1180
0.360	0.031	6.4	8.40	1.00	S-1185
0.360	0.031	8.9	5.40	1.50	S-1190
0.360	0.035	4.6	23.60	0.50	S-1195
0.360	0.035	7.8	10.90	1.00	S-1200
0.360	0.035	11.1	6.90	1.50	S-1205
0.360	0.039	5.1	32.10	0.50	S-1210
0.360	0.039	8.7	15.10	1.00	S-1215
0.360	0.039	13.0	9.10	1.50	S-1220
0.360	0.041	5.3	38.30	0.50	S-1225
0.360	0.041	9.1	17.50	1.00	S-1230
0.360	0.041	12.8	11.60	1.50	S-1235
0.360	0.045	4.9	64.00	0.50	S-1240
0.360	0.045	9.0	27.00	1.00	S-1245
0.360	0.045	12.5	17.90	1.50	S-1250
0.360	0.047	5.0	76.30	0.50	S-1255
0.360	0.047	9.0	32.70	1.00	S-1260
0.360	0.047	12.5	21.80	1.50	S-1265
0.420	0.031	4.7	8.50	0.50	S-1270
0.420	0.031	7.0	4.50	1.00	S-1275
0.420	0.031	10.0	2.80	1.50	S-1280
0.420	0.035	4.1	17.60	0.50	S-1285
0.420	0.035	6.7	8.10	1.00	S-1290
0.420	0.035	9.3	5.20	1.50	S-1295
0.420	0.039	4.6	23.10	0.50	S-1300
0.420	0.039	7.4	11.10	1.00	S-1305
0.420	0.039	10.5	7.10	1.50	S-1310
0.420	0.041	4.2	34.10	0.50	S-1315
0.420	0.041	6.7	15.90	1.00	S-1320
0.420	0.041	9.2	10.40	1.50	S-1325
0.420	0.045	7.6	19.90	1.00	S-1335
0.420	0.045	10.7	12.80	1.50	S-1340
0.420	0.047	4.5	54.10	0.50	S-1345
0.420	0.047	7.4	25.10	1.00	S-1350
0.420	0.047	10.7	15.60	1.50	S-1355
0.420	0.051	4.7	72.00	0.50	S-1360
0.420	0.051	8.0	32.10	1.00	S-1365
0.420	0.055	4.8	95.10	0.50	S-1375
0.420	0.055	8.2	43.80	1.00	S-1380
0.420	0.062	4.7	182.00	0.50	S-1390
0.420	0.062	8.4	78.10	1.00	S-1395
0.420	0.062	12.0	49.50	1.50	S-1400
0.480	0.039	3.9	20.10	0.50	S-1405
0.480	0.039	6.3	9.10	1.00	S-1410
0.480	0.039	8.7	5.90	1.50	S-1415
0.480	0.041	3.7	28.10	0.50	S-1420
0.480	0.041	5.7	13.10	1.00	S-1425
0.480	0.041	7.6	8.60	1.50	S-1430
0.480	0.045	4.0	35.10	0.50	S-1435
0.480	0.045	6.2	17.10	1.00	S-1440
0.480	0.045	8.5	11.10	1.50	S-1445
0.480	0.047	4.2	40.00	0.50	S-1450
0.480	0.047	6.7	18.40	1.00	S-1455
0.480	0.047	8.0	14.40	1.50	S-1460
0.480	0.051	4.2	57.10	0.50	S-1465
0.480	0.051	6.9	25.10	1.00	S-1470
0.480	0.051	9.7	16.10	1.50	S-1475
0.480	0.055	4.4	72.10	0.50	S-1480
0.480	0.055	6.9	35.10	1.00	S-1485
0.480	0.055	9.7	22.10	1.50	S-1490
0.480	0.059	4.4	98.10	0.50	S-1495
0.480	0.059	7.4	43.10	1.00	S-1500
0.480	0.059	10.3	28.10	1.50	S-1505
0.480	0.062	6.1	77.10	0.75	S-1510
0.480	0.062	7.1	57.20	1.00	S-1515
0.480	0.062	9.8	37.10	1.50	S-1520
0.480	0.072	5.6	160.00	0.75	S-1525
0.480	0.072	6.0	142.00	1.00	S-1530
0.480	0.072	9.0	81.00	1.50	S-1535

Open End Compression Springs



OD	Wire Dia.	Coils Per Inch	Steel Item No.	Stainless Item No.
3/22	.010	28	S-1	SSS-1
3/22	.014	28	S-2	SSS-2
1/8	.012	23	S-3	SSS-3
1/8	.016	25	S-4	SSS-4
3/16	.014	13	S-5	SSS-5
3/16	.018	14	S-6	SSS-6
3/16	.025	16	S-7	SSS-7
1/4	.018	14	S-8	SSS-8
1/4	.026	10	S-9	SSS-9
1/4	.031	11	S-10	SSS-10
1/4	.035	13	S-11	SSS-11
1/4	.042	10	S-12	SSS-12
1/4	.047	11	S-13	SSS-13
5/16	.022	10	S-14	SSS-14
5/16	.031	10	S-15	SSS-15
5/16	.038	11	S-16	SSS-16
5/16	.042	9	S-17	SSS-17
5/16	.047	10	S-18	SSS-18
5/16	.055	9	S-19	SSS-19
3/8	.043	7	S-20	SSS-20
3/8	.055	7	S-21	SSS-21
3/8	.063	8	S-22	SSS-22
3/8	.073	8	S-23	SSS-23
7/16	.063	6	S-24	SSS-24
7/16	.076	6	S-25	—
7/16	.086	6	S-26	SSS-26
1/2	.063	5	S-27	SSS-27
1/2	.075	5	S-28	SSS-28
1/2	.093	6	S-29	SSS-29
1/2	.114	6	S-30	SSS-30

Open End Compression Springs



OD	ID	Wire Dia	Fits Into Hole	Fits Over Rod	Coils Per Inch	Steel Item No.
.345	.281	.032	3/8	1/4	8	S-31
.405	.281	.062	7/16	1/4	8	S-32
.453	.329	.062	1/2	9/32	6	S-33
.500	.376	.062	9/16	5/16	5.3	S-34
.562	.438	.062	5/8	3/8	5.3	S-35
.625	.501	.062	11/16	7/16	5.3	S-36
.718	.594	.062	3/4	9/16	4	S-37
.781	.657	.062	13/16	5/8	4	S-38
.455	.295	.080	1/2	1/4	6	S-39
.580	.420	.080	5/8	3/8	5.3	S-40
.705	.545	.080	3/4	1/2	3.5	S-41
.830	.670	.080	7/8	5/8	3.2	S-42
.955	.795	.080	1	3/4	2.3	S-43
1.205	1.045	.080	1 1/4	1	2.3	S-44
.562	.376	.093	5/8	5/16	5.3	S-45
.687	.501	.093	3/4	7/16	4	S-46
.937	.751	.093	1	11/16	3.5	S-47
1.030	.844	.093	1 1/8	3/4	3.5	S-48
1.155	.969	.093	1 1/4	7/8	2.1	S-49
1.280	1.094	.093	1 3/8	1	1.9	S-50
.730	.520	.105	3/4	1/2	4.9	S-51
.917	.707	.105	1	5/8	4	S-52
1.042	.832	.105	1 1/8	3/4	2.4	S-53
1.052	.822	.115	1 1/8	3/4	3.5	S-54
1.177	.947	.115	1 1/4	7/8	2.1	S-55
1.459	1.229	.115	1 1/2	1 3/16	1.4	S-56

Open End Compression Springs



Long length compression springs can be cut to create a custom length spring. End coils may be bent back to touch the previous coil to create a squared end. Available in 20" long stainless steel or 36" long carbon steel. The constant divided by the number of coils equals the load rate per inch.

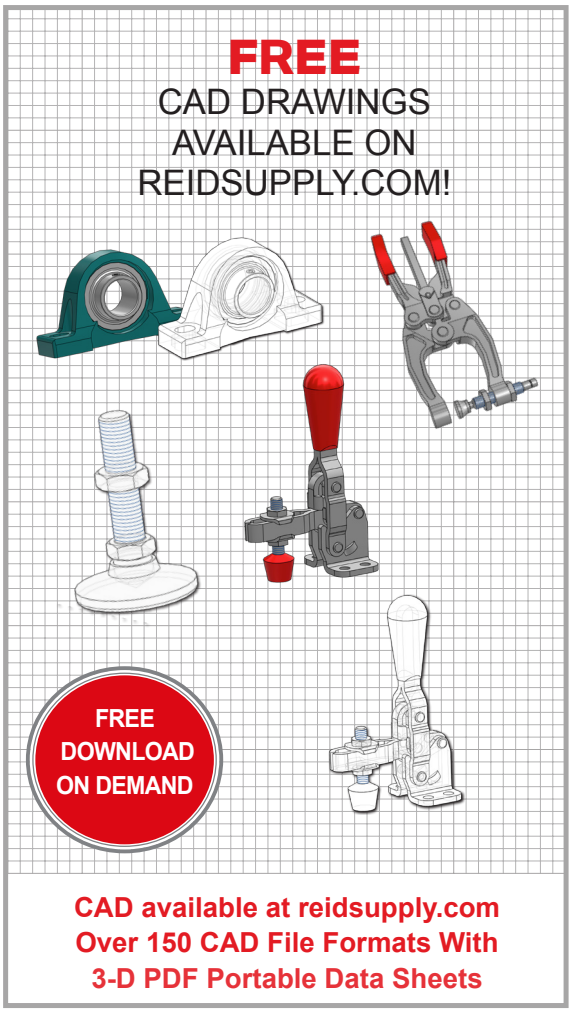
OD	Wire Dia. Inches	Rate/Inch	Item No.
36" Steel			
.094	.013	2.2	S-201
.125	.014	1.6	S-202
.125	.018	2.7	S-203
.125	.023	14.0	S-204
.187	.018	2.0	S-205
.187	.028	14.0	S-206
.250	.023	3.0	S-207
.250	.035	16.0	S-208
.312	.041	19.0	S-209
.312	.048	36.0	S-210
.375	.035	7.0	S-211
.438	.048	17.0	S-212
.500	.048	15.0	S-213
.500	.063	22.0	S-214
.500	.063	39.0	S-215
.562	.063	33.0	S-216
.562	.080	90.0	S-217
.625	.063	27.0	S-218
.625	.072	45.0	S-219
.625	.092	129.0	S-220
.750	.080	50.0	S-221
.750	.105	153.0	S-222
.875	.080	38.0	S-223
1.000	.092	47.0	S-224
1.000	.121	145.0	S-225
1.000	.135	232.0	S-226
1.125	.106	70.0	S-227
1.250	.121	88.0	S-228
1.250	.148	210.0	S-229
1.500	.162	208.0	S-230
1.750	.187	266.0	S-231
20" Steel			
.125	.013	1.1	SSS-201
.125	.020	5.8	SSS-204
.187	.015	1.0	SSS-205
.187	.017	1.4	SSS-206
.187	.020	2.9	SSS-207
.187	.026	7.3	SSS-208
.250	.015	.6	SSS-209
.250	.017	1.0	SSS-210
.250	.020	1.6	SSS-211
.250	.026	4.2	SSS-212
.250	.032	10.0	SSS-213
.312	.020	1.2	SSS-214
.312	.026	2.9	SSS-215
.312	.032	7.0	SSS-216
.312	.041	15.0	SSS-217
.375	.032	4.4	SSS-218
.375	.041	11.0	SSS-219
.375	.054	32.0	SSS-220
.438	.041	7.6	SSS-221
.438	.054	23.0	SSS-222
.500	.054	18.0	SSS-223
.500	.072	61.0	SSS-224
.562	.041	3.8	SSS-225
.562	.054	14.0	SSS-226
.562	.072	44.0	SSS-227
.562	.091	128.0	SSS-228
.625	.072	35.0	SSS-229
.625	.091	99.0	SSS-230
.750	.091	66.0	SSS-231

Open End Compression Springs



Designed to fit freely over shoulder screws or on other similar applications.

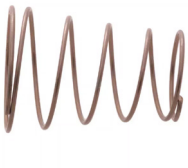
OD	Wire Dia	Min. ID	Fits Over Rod	Coils Per Inch	Steel Item No.
.328	.031	17/64	1/4	8	S-86
.340	.037	17/64	1/4	8	S-87
.350	.042	17/64	1/4	7	S-88
.360	.047	17/64	1/4	7	S-89
.368	.051	17/64	1/4	7	S-90
.412	.042	21/64	5/16	7	S-91
.422	.047	21/64	5/16	7	S-92
.438	.055	21/64	5/16	6	S-93
.452	.062	21/64	5/16	6	S-94
.462	.067	21/64	5/16	5	S-95
.485	.047	21/64	3/8	7	S-96
.501	.055	21/64	3/8	6	S-97
.515	.062	21/64	3/8	6	S-98
.535	.072	21/64	3/8	5	S-99
.543	.076	21/64	3/8	5	S-100
.640	.062	33/64	1/2	6	S-101
.660	.072	33/64	1/2	5	S-102
.676	.080	33/64	1/2	4	S-103
.688	.086	33/64	1/2	4	S-104
.702	.093	33/64	1/2	4	S-105
.785	.072	41/64	5/8	5	S-106
.813	.086	41/64	5/8	4	S-107
.827	.093	41/64	5/8	4	S-108
.851	.105	41/64	5/8	3.5	S-109
.871	.115	41/64	5/8	3	S-110
.926	.080	49/64	3/4	4	S-111
.952	.093	49/64	3/4	3.5	S-112
.976	.105	49/64	3/4	3	S-113
.996	.115	49/64	3/4	3	S-114
1.016	.125	49/64	3/4	2.5	S-115



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MECHANICAL SPRINGS & ACCESSORIES

Conial Compression Springs - Tapered



Cone Shapes Type 302 stainless steel. Coils can be designed to nest within each other when deflected, providing a nearly constant rate, and a solid height lower than a normal compression setting. Ends are closed. Starting rate is the same rate per inch.

OD Sm. End	OD Lg. End	Inside Dia	Free Lgth.	Wire Dia.	Rates/ lbs. Inch	Item No.
.172	.484	.126	.875	.023	2.35	CX-1
.187	.375	.143	.313	.022	5.62	CX-2
.187	.281	.139	.562	.024	5.97	CX-3
.187	.375	.143	.750	.022	2.81	CX-4
.187	.312	.157	.938	.015	.61	CX-5
.203	.250	.177	.156	.013	3.67	CX-6
.203	.296	.149	.688	.027	12.06	CX-7
.219	.375	.189	.875	.015	.31	CX-8
.234	.312	.178	.906	.028	6.15	CX-9
.250	.406	.222	.406	.014	.69	CX-10
.250	.375	.206	1.125	.022	1.49	CX-11
.266	.375	.196	.421	.035	32.24	CX-12
.266	.421	.226	.438	.020	1.48	CX-13
.281	.469	.249	.563	.016	.25	CX-14
.296	.484	.216	.500	.040	29.85	CX-15
.296	.406	.240	.750	.028	2.53	CX-16
.296	.484	.214	1.125	.041	10.39	CX-17
.312	.406	.272	.219	.020	2.57	CX-18

OD Sm. End	OD Lg. End	Inside Dia	Free Lgth.	Wire Dia.	Rates/ lbs. Inch	Item No.
.312	.406	.252	.500	.030	7.11	CX-19
.328	.421	.284	.750	.022	1.22	CX-20
.335	.390	.299	.376	.018	1.60	CX-21
.343	.438	.257	.250	.043	67.89	CX-22
.343	.562	.273	1.063	.035	3.22	CX-23
.359	.750	.309	.562	.025	.73	CX-24
.359	.438	.289	.593	.035	17.36	CX-25
.375	.625	.317	.375	.029	4.23	CX-26
.375	.875	.311	1.375	.032	1.14	CX-27
.406	.625	.344	.687	.031	4.51	CX-28
.421	.750	.345	.688	.038	3.97	CX-29
.438	.718	.376	.625	.031	3.53	CX-30
.438	.671	.376	.781	.031	1.61	CX-31
.438	.562	.404	.875	.017	.20	CX-32
.438	.562	.358	.875	.040	4.38	CX-33
.500	.687	.438	.812	.031	2.16	CX-34
.500	.687	.448	.937	.026	.78	CX-35
.500	.750	.462	1.063	.019	.21	CX-36

OD Sm. End	OD Lg. End	Inside Dia	Free Lgth.	Wire Dia.	Rates/ lbs. Inch	Item No.
.500	.641	.440	1.125	.030	.80	CX-37
.546	.859	.422	1.813	.062	10.04	CX-38
.562	1.150	.468	2.376	.047	2.56	CX-39
.593	.938	.503	.625	.045	7.83	CX-40
.625	1.062	.525	.563	.050	8.94	CX-41
.681	1.000	.611	.750	.035	1.44	CX-42
.687	.938	.595	1.000	.046	3.55	CX-43
.687	.812	.625	1.438	.031	1.04	CX-44
.750	.938	.672	.563	.039	5.54	CX-45
.796	1.125	.704	2.375	.046	1.63	CX-46
.840	1.125	.710	1.562	.065	6.08	CX-47
1.000	1.500	.900	2.000	.050	1.13	CX-48
1.062	1.250	.960	.750	.051	6.27	CX-49
1.125	1.438	1.001	.750	.062	6.79	CX-50
1.500	1.812	1.276	2.062	.122	21.37	CX-51
2.031	2.625	1.707	2.937	.162	24.21	CX-52

Loop End Extension Springs



OD	Wire Dia.	Lbs Per In.	Item No.
11" Music Wire			
1/8	.016	.11	ES-57
5/32	.016	.05	ES-58
5/32	.024	.46	ES-59
3/16	.016	.03	ES-60
3/16	.024	.25	ES-61
3/16	.031	1.00	ES-62
1/4	.023	.08	ES-63
1/4	.031	.37	ES-64
1/4	.042	2.00	ES-65
5/16	.024	.05	ES-66
5/16	.035	.34	ES-67
5/16	.047	1.70	ES-68
3/8	.031	.10	ES-69
3/8	.047	.92	ES-70
3/8	.062	4.20	ES-71
7/16	.047	.55	ES-72
7/16	.062	2.50	ES-73
1/2	.035	.08	ES-74
1/2	.047	.36	ES-75
1/2	.063	1.60	ES-76
5/8	.063	.82	ES-77
5/8	.071	1.50	ES-78
5/8	.080	3.00	ES-79
3/4	.063	.46	ES-80
3/4	.090	3.10	ES-81
7/8	.090	1.90	ES-82
7/8	.106	4.60	ES-83
1	.095	1.70	ES-84
1	.124	6.90	ES-85

OD	Wire Dia.	Lbs Per In.	Item No.
20" Stainless Steel			
.125	.013	.33	ES-251
.125	.017	1.44	ES-253
.125	.020	3.50	ES-254
.187	.015	.18	ES-255
.187	.017	.40	ES-256
.187	.020	.88	ES-257
.187	.026	.356	ES-258
.250	.020	.33	ES-261
.250	.026	1.19	ES-262
.250	.032	4.03	ES-263
.312	.020	.16	ES-264
.312	.032	1.87	ES-266
.312	.041	7.33	ES-267
.375	.032	1.02	ES-268
.375	.054	17.35	ES-270
.438	.041	23.00	ES-271
.500	.054	6.50	ES-272
.438	.054	10.00	ES-273
.500	.072	29.00	ES-274
.562	.054	4.40	ES-275
.562	.072	19.00	ES-276
.562	.091	68.00	ES-277
.625	.091	51.00	ES-279
.750	.091	27.00	ES-280

OD	Wire Dia.	Lbs Per In.	Item No.
36" Steel			
.125	.012	.25	ES-201
.125	.014	.56	ES-202
.125	.016	1.19	ES-203
.125	.023	8.71	ES-204
.187	.016	.32	ES-205
.187	.018	.57	ES-206
.187	.023	2.09	ES-207
.187	.028	6.11	ES-208
.250	.018	.22	ES-209
.250	.023	.79	ES-210
.250	.028	2.25	ES-211
.250	.035	7.23	ES-212
.312	.023	.38	ES-213
.312	.028	.60	ES-214
.312	.035	3.37	ES-215
.312	.047	18.81	ES-216
.375	.028	.58	ES-217
.375	.035	1.83	ES-218
.375	.047	9.90	ES-219
.375	.063	46.86	ES-220
.750	.080	15.08	ES-237
.750	.105	65.53	ES-238
.875	.080	9.42	ES-239
.875	.105	40.32	ES-240
.875	.135	158.78	ES-241
1.000	.092	13.41	ES-242
1.000	.120	52.47	ES-243
1.125	.135	67.86	ES-245
1.250	.120	24.97	ES-246
1.250	.148	79.23	ES-247
1.500	.162	68.83	ES-248

Hook End Extension Springs



Extension springs range in size from ⅛" to 1¼" OD. 1½" through 8" in length. Available materials are music, wire, hard drawn steel, spring steel, stainless steel or brass.

Material	Finish	OD	Wire Dia	OAL	Lbs. Per Inch	Item No.
Music	None	⅛	.015	6	.14	ES-0102
Music	None	⅛	.015	8	.11	ES-0103
Music	Zinc	5/32	.020	1½	1.45	ES-0301
Music	None	5/32	.020	6	.32	ES-0305
Music	Zinc	3/16	.016	1½	.23	ES-0404
Music	Zinc	3/16	.022	1	2.27	ES-0407
Music	Tinned	3/16	.023	1½	1.89	ES-0409
Music	Zinc	3/16	.023	6	.36	ES-0411
Music	Zinc	3/16	.025	1½	2.65	ES-0412
Music	Zinc	3/16	.025	1⅞	2.03	ES-0413
Music	Zinc	3/16	.025	2½	1.46	ES-0414
Music	Zinc	7/32	.025	3¼	.66	ES-0611
Music	Zinc	¼	.015	1½	.07	ES-0801
Music	Zinc	¼	.023	1½	.70	ES-0807
Music	Zinc	¼	.023	1⅞	.51	ES-0808
Music	Zinc	¼	.028	3	.90	ES-0811
Music	Zinc	¼	.028	4	.65	ES-0812
Music	Zinc	¼	.029	1 3/16	3.04	ES-0814
Hard Drawn	Zinc	¼	.031	5	.84	ES-0816
Music	Zinc	¼	.032	8	.62	ES-0818
Music	Zinc	9/32	.025	1½	.74	ES-0904
Spring Steel	Zinc	19/64	.041	4¼	2.57	ES-1001
Music	Zinc	5/16	.028	3	.41	ES-1110
Spring Steel	Zinc	5/16	.035	1⅜	2.52	ES-1117
Spring Steel	Zinc	5/16	.036	1 15/16	3.02	ES-1118
Spring Steel	Zinc	5/16	.036	2 3/16	2.52	ES-1119
Music	Zinc	5/16	.035	5	.79	ES-1121
Spring Steel	Zinc	21/64	.042	5⅞	1.47	ES-1203
Spring Steel	Zinc	21/64	.042	8	1.09	ES-1204
Spring Steel	Zinc	11/32	.048	1 7/16	15.64	ES-1309
Music	Zinc	⅜	.031	4½	.26	ES-1402
Spring Steel	Zinc	⅜	.034	2½	.81	ES-1403
Spring Steel	Zinc	⅜	.034	4	.47	ES-1404
Spring Steel	Zinc	⅜	.041	3¾	1.44	ES-1405
Spring Steel	Zinc	⅜	.041	6	.81	ES-1406
Hard Drawn	Zinc	⅜	.047	4½	2.37	ES-1407
Spring Steel	Zinc	⅜	.047	1½	9.25	ES-1408
Stainless	None	⅜	.049	1¾	8.08	ES-1409
Spring Steel	Zinc	⅜	.048	1 15/16	8.24	ES-1410
Spring Steel	Zinc	⅜	.047	2⅜	5.45	ES-1411
Spring Steel	Zinc	⅜	.047	2 1/16	4.09	ES-1413
Hard Drawn	Zinc	⅜	.047	3	3.63	ES-1414
Hard Drawn	Zinc	⅜	.047	5⅞	1.76	ES-1416
Spring Steel	Zinc	⅜	.047	7⅞	1.28	ES-1417
Music	Zinc	7/16	.028	4½	.09	ES-1601
Music	Zinc	7/16	.047	2½	2.96	ES-1604
Spring Steel	Zinc	7/16	.047	2 15/16	2.60	ES-1606
Hard Drawn	Zinc	7/16	.047	3½	1.97	ES-1608
Spring Steel	Zinc	7/16	.048	3⅝	2.13	ES-1609
Spring Steel	Zinc	7/16	.047	3 15/16	1.76	ES-1610
Spring Steel	Zinc	7/16	.062	6	4.68	ES-1613
Hard Drawn	Zinc	½	.062	4½	4.14	ES-1901
Spring Steel	Zinc	½	.061	3 29/32	4.26	ES-1903
Hard Drawn	Zinc	½	.062	6	3.03	ES-1904
Spring Steel	Zinc	½	.064	7⅞	2.60	ES-1905
Hard Drawn	Zinc	½	.072	5	8.21	ES-1906
Hard Drawn	Zinc	½	.080	1⅝	66.23	ES-1907
Spring Steel	Zinc	37/64	.072	3 13/16	7.41	ES-2301
Spring Steel	Zinc	37/64	.072	8	3.11	ES-2303
Hard Drawn	Zinc	⅝	.080	6½	5.27	ES-2401
Spring Steel	None	41/64	.080	7¾	3.90	ES-2503
Hard Drawn	Zinc	1 1/16	.091	4¾	10.96	ES-2603
Spring Steel	Blk/Ox	47/64	.064	3⅞	1.93	ES-2701
Hard Drawn	Zinc	47/64	.092	5¼	7.56	ES-2702
Hard Drawn	Zinc	47/64	.105	2¼	58.51	ES-2704
Hard Drawn	Zinc	47/64	.105	2⅝	43.88	ES-2706
Hard Drawn	Zinc	47/64	.105	2⅞	39.61	ES-2707
Hard Drawn	Zinc	¾	.062	3½	1.69	ES-2801
Hard Drawn	Zinc	¾	.062	4½	1.19	ES-2802
Hard Drawn	Zinc	¾	.080	6	3.04	ES-2803
Hard Drawn	Zinc	¾	.091	6½	5.94	ES-2804
Hard Drawn	Zinc	¾	.105	3⅛	32.56	ES-2809
Hard Drawn	Zinc	¾	.105	3¾	25.54	ES-2810
Hard Drawn	Zinc	13/16	.120	4	39.11	ES-2902
Spring Steel	Zinc	27/32	.105	3 13/16	17.56	ES-3001
Hard Drawn	Zinc	⅞	.091	3½	7.72	ES-3101
Hard Drawn	Zinc	⅞	.091	6	3.90	ES-3102
Spring Steel	Zinc	61/64	.121	3¾	23.74	ES-3301
Spring Steel	Zinc	31/32	.120	5⅝	13.30	ES-3302
Spring Steel	Zinc	31/32	.120	7½	9.31	ES-3303
Hard Drawn	Zinc	1	.105	7½	4.43	ES-3401
Hard Drawn	Blk/Ox	1	.105	8	3.84	ES-3402
Hard Drawn	Zinc	1 1/16	.105	7	3.66	ES-3501
Spring Steel	None	1¼	.210	7¼	87.57	ES-3701

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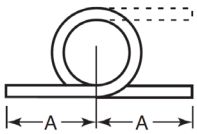


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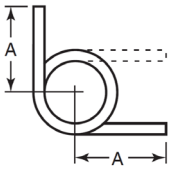
MECHANICAL SPRINGS & ACCESSORIES

Torsion Springs Stainless Steel

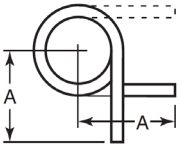




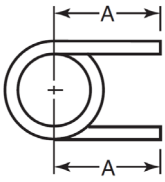
180° Deflection



90° Deflection



270° Deflection



360° Deflection

Widely used to store and release energy of rotation or to maintain a pressure over a short distance. Normally used over a supporting mandrel or arbor. The suggested mandrel sizes below allow about 10% clearance at the deflection listed. Sufficient room (minimum axial space) must be provided in the assembly for the spring to function properly. These springs should be used in the direction that winds the coils. Torque values listed are recommended maximum torques. For inspection purposes, the load should be applied at 1/2 leg length (A). These values can be increased 20% for static conditions with only slight setting. Type 302 stainless, plain finish. (ASTM-A313 or AMS-5688).

Wire Dia.	Outside Dia	Degree of Defelction	Torque in-Lbs.	Mandrel Size	A	Min Axil Space	Left Hand Wound Item No.	Right Hand Wound Item No.
0.012	0.109	180	0.047	0.067	0.375	0.086	TSP-10	—
0.015	0.130	180	0.093	0.078	0.500	0.107	TSP-30	—
0.017	0.259	270	0.117	0.156	0.750	0.123	TSP-60	TSP-560
0.021	0.271	360	0.218	0.187	1.000	0.242	TSP-90	TSP-590
0.025	0.235	90	0.375	0.140	0.750	0.096	TSP-110	TSP-610
0.025	0.224	180	0.375	0.140	0.750	0.206	TSP-120	TSP-620
0.028	0.249	180	0.515	0.140	1.000	0.238	TSP-130	TSP-630
0.030	0.281	90	0.625	0.172	1.000	0.116	—	TSP-640
0.032	0.288	90	0.820	0.172	1.000	0.152	TSP-150	—
0.035	0.450	180	1.000	0.281	1.250	0.212	TSP-170	TSP-670
0.035	0.315	90	1.000	0.187	1.250	0.135	TSP-160	TSP-660
0.038	0.353	270	1.190	0.218	1.250	0.465	TSP-180	—
0.040	0.309	90	1.375	0.187	1.250	0.198	TSP-190	TSP-690
0.045	0.556	270	2.000	0.359	2.000	0.415	TSP-210	TSP-710
0.045	0.357	90	2.000	0.203	1.250	0.259	TSP-200	TSP-700
0.048	0.404	180	2.500	0.250	1.250	0.450	TSP-230	TSP-730
0.048	0.375	90	2.500	0.218	1.250	0.238	TSP-220	TSP-720
0.051	0.408	90	2.900	0.234	2.000	0.293	TSP-240	TSP-740
0.054	0.484	90	3.275	0.296	2.000	0.310	TSP-250	TSP-750
0.059	0.526	180	4.200	0.328	2.000	0.560	TSP-270	TSP-770
0.059	0.499	90	4.200	0.296	2.000	0.340	TSP-260	TSP-760
0.063	0.767	180	5.150	0.500	2.000	0.475	TSP-290	TSP-790
0.063	0.560	90	5.150	0.343	2.000	0.362	TSP-280	TSP-780
0.070	0.826	270	7.000	0.531	2.000	0.717	TSP-300	TSP-800
0.078	0.803	180	9.750	0.500	2.000	0.660	TSP-320	TSP-820
0.078	0.687	90	9.750	0.406	2.000	0.450	TSP-310	TSP-810

Spring Anchors

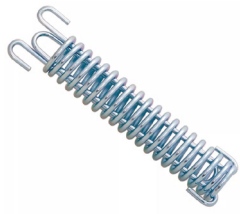


Spring anchors offer an economical way to secure the ends of extension springs, and provide easy adjustments. Available in C-12114 steel with a black oxide finish or 300 series stainless steel.

Thread	A	B	C	Hole Size	Load/ Lbs.	Steel Item No.	Stainless Item No.
6-32	.625	.4	.07	.05	120	CSA-50	SSA-50
8-32	.875	.625	.085	.07	170	CSA-60	SSA-60
¼-20	1.25	.875	.13	.10	500	CSA-70	SSA-70
¼-28	1.25	.875	.13	.10	500	CSA-80	SSA-80
⅜-16	1.62	1.125	.18	.17	835	CSA-90	SSA-90

Wire Drawbar Springs

STAINLESS STEEL OPTION AVAILABLE



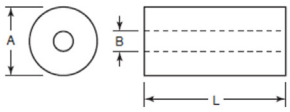
Drawbar springs have long steel loops that pass through the center of the spring and hook around to opposite end, thus compressing the spring upon loading. The design products physical extension stops to prevent unexpected overloading and fracturing while continuing to hold a static load. Available in zinc plated spring steel or stainless steel. The rate lbs./in. listed below indicated the pounds needed to pull out the first inch of the spring. For example, if the rate is 25 lbs. to pull out the first inch, 50 lbs. for the second inch, etc.

Rates Lbs./Inch	Max. Defelection	Max. Load Lbs.	Lgth.	Dia	Item No.
Spring Steel					
25	2.0	50	6	1	CDB-7001
50	1.9	95	7	1⅛	CDB-7003
75	2.1	160	7½	1⅜	CDB-7005
125	1.9	235	8⅛	1½	CDB-7009
155	1.8	300	7¼	1⅝	CDB-7010
200	2.0	400	9⅝	1¾	CDB-7011
250	2.4	600	13⅜	2¼	CDB-7013
150	4.0	610	19⅜	2¼	CDB-7015
Stainless Steel					
50	1.3	70	4	1	CDBS-7052

NOBODY WILL SERVE THE **CUSTOMER BETTER.**

Solid Compression Springs





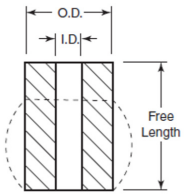
Neoprene elastomer springs have proven to be the safest, most efficient and reliable compression material for punching, stamping and drawing dies. Major advantages include higher loads increased durability, better performance, no maintenance and very long life.

A	B	L	R	D	T	Item No.
.630	.25	15/32	436	.17	72	BES-3500
.630	.25	5/8	353	.22	77	BES-3501
.630	.25	25/32	292	.27	80	BES-3502
.630	.25	1	236	.34	83	BES-3503
.787	.33	5/8	610	.22	133	BES-3510
.787	.33	25/32	482	.28	132	BES-3511
.787	.33	1	381	.35	133	BES-3512
.787	.33	1 1/4	287	.44	126	BES-3513
1.000	.41	25/32	787	.28	215	BES-3520
1.000	.41	1	598	.35	209	BES-3521
1.000	.41	1 1/4	524	.44	229	BES-3522
1.000	.41	1 9/16	440	.55	241	BES-3523
1.250	.53	1 1/4	1,031	.44	451	BES-3530
1.250	.53	1 37/64	828	.55	471	BES-3531
1.250	.53	1 31/32	651	.69	456	BES-3532
1.250	.53	2 1/2	517	.87	452	BES-3533
1.560	.53	1 1/4	1,790	.44	783	BES-3540
1.560	.53	1 37/64	1,439	.55	816	BES-3541
1.560	.53	1 31/32	1,148	.69	804	BES-3542
1.560	.53	2 1/2	931	.87	815	BES-3543
1.560	.53	3 5/32	744	1.10	830	BES-3544
2.000	.66	2 1/2	1,432	.87	1,297	BES-3553
2.500	.66	2 1/2	2,286	.87	2,000	BES-3563
3.150	.83	2 1/2	4,752	.87	4,000	BES-3573
3.940	.83	2 1/2	6,435	.87	5,631	BES-3583

Note: R = Spring rate, lb. inch deflection +/- 20%
D = Max. recommended defelction - 35% L
T = Approximate total load at max. defelction +/- 20%

Solid Compression Springs



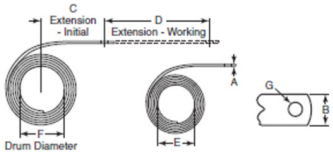


These urethane springs are designed for use in applications where corrosion, vibration and magnetism prevent the use of conventional steel springs. They replace steel coil springs in medium pressure applications involving space limitations, high blank holding pressure and adequate stripping. Durometer 95 shore A. Color black. Tensile strength 5,000 psi. Temperature range -40 to +180 degrees Fahrenheit.

OD	ID	Free Length	Load/ Lbs. 1/8" Def	Item No	OD	ID	Free Length	Load/ Lbs. 1/8" Def	Item No
7/8	1/4	1	425	US-10	1 1/4	5/8	1	700	US-80
7/8	1/4	1 1/4	325	US-15	1 1/4	5/8	2	325	US-90
7/8	1/4	12 1/2	-	US-30	1 1/4	5/8	12 1/2	-	US-95
1	3/8	1	525	US-35	1 1/2	3/4	1 1/4	875	US-100
1	3/8	1 1/4	425	US-40	1 1/2	3/4	1 1/2	725	US-105
1	3/8	1 1/2	325	US-45	1 1/2	3/4	2	525	US-110
1	3/8	2	250	US-50	1 1/2	3/4	12 1/2	-	US-115
1	3/8	12 1/2	-	US-55	2	1	1 1/4	1,550	US-120
1 1/8	1/2	1	600	US-60	2	1	2	850	US-125
1 1/8	1/2	2	275	US-70	2	1	12 1/2	-	US-135
1 1/8	1/2	12 1/2	-	US-75					

Constant-Force Springs Stainless Steel



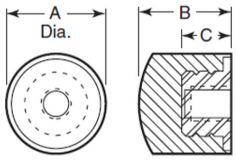


Well suited to long extensions with no load build up. The spring is usually mounted with the ID tightly wrapped on a drum and the free end attached to a loading force such as a counterbalance. Load capacity can be multiplied by using two or more strips in tandem, back to back or laminated. In use, be sure to leave at least 1 ½ " coiled on the drum at full extension. The spring ID will wrap tightly on the drum so that most applications require no fastening on the drum. Made from Type 301 stainless steel.

A	B	Lgth.	Min. C	D	E	F	+/- 10% Load Lbs.	G	Item No.
4,000 Cycle Fatigue Life									
.004	.25	15	.61	12	.34	.40	0.5	.131	CFS-10
.006	.37	22	.92	18	.51	.62	1.12	.131	CFS-20
.007	.50	26	1.06	21	.59	.75	1.62	.131	CFS-25
.010	.68	34	1.53	27	.85	1.00	3.5	.187	CFS-35
.012	.81	38	1.84	30	1.02	1.25	5	.187	CFS-40
.014	1.00	43	2.14	33	1.19	1.50	7	.187	CFS-45
40,000 Cycle Fatigue Life									
.006	.37	21	2.03	12	1.13	1.36	0.25	.131	CFS-50
.010	.68	36	3.38	21	1.88	2.26	0.75	.187	CFS-65
.014	1.00	48	4.74	27	2.63	3.16	1.62	.187	CFS-75

Solid Compression Springs w/ Female Thread





Black neoprene had durometer hardness of 40-45 Shore A and urethane has durometer hardness of 80-90 Shore A, except as noted below.

A	B	C	Thread	Neoprene Item No.	Urethane Item No.
3/4	5/8	3/8	10-24 x 1/4	FRB-0*	FRB-200
3/4	5/8	3/8	10-32 x 1/4	FRB-1*	FRB-201
3/4	5/8	3/8	1/4-20 x 1/4	FRB-3*	FRB-203
3/4	5/8	3/8	1/4-28 x 1/4	FRB-4*	FRB-204
3/4	5/8	3/8	5/16-18 x 1/4	FRB-2	FRB-202
3/4	5/8	3/8	5/16-24 x 1/4	FRB-5*	FRB-205
1 1/4	1 1/4	3/4	3/8-16 x 1/2	FRB-6	FRB-206
1 1/4	1 1/4	3/4	3/8-24 x 1/2	FRB-8	FRB-208
1 1/4	1 1/4	3/4	1/2-13 x 1/2	FRB-10	FRB-210
1 1/4	1 1/4	3/4	1/2-20 x 1/2	FRB-12	FRB-212
1 1/4	1 1/4	3/4	7/16-20 x 1/2	FRB-14	FRB-214
1 1/4	1 1/4	3/4	5/8-18 x 1/2	FRB-16	FRB-216
1 3/4	1 5/8	7/8	5/8-11 x 5/8	FRB-18	FRB-218
1 3/4	1 5/8	7/8	5/8-18 x 5/8	FRB-20	FRB-220
2 1/4	2 1/4	1 3/8	3/4-10 x 1	FRB-22	FRB-222
2 1/4	2 1/4	1 3/8	3/4-16 x 1	FRB-24	FRB-224
2 1/4	2 1/4	1 3/8	1-8 x 1	-	FRB-226

*Durometer hardness of 70 Shore A

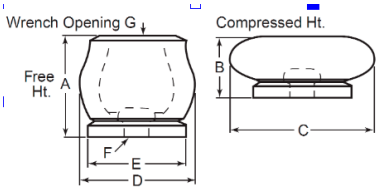
MECHANICAL SPRINGS & ACCESSORIES

Bumpers

Elastomer Bumpers



Elastomer bumpers provide excellent resistance to chemicals and humidity. Durability is 20 times greater than urethane, 10 times greater than rubber and 500 times greater than coiled steel springs. Maintains excellent resilience at extreme temperatures and remains flexible with no material degradation between -80 and +300 degree Fahrenheit. Other sizes and colors available as special order. Please call for price and delivery. Mounting screws not included.



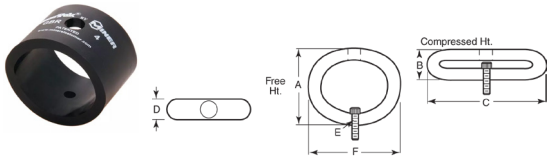
High Energy Absorption
Compact Size, Short Stroke

Max. Comp. in Lbs.	Peak Dynamic Force	A	B	C	D	E	Mounting Hole F	Wrench Opening G	Item No.
100	700	3/4	7/16	1 1/8	7/8	3/4	5/16	7/16	GBA-1
250	1,200	1	9/16	1 7/16	1 1/8	1	5/16	9/16	GBA-2
400	2,000	1 3/16	11/16	1 3/4	1 3/8	1 3/16	5/16	11/16	GBA-3
550	2,400	1 5/16	11/16	1 7/8	1 1/2	1 5/16	5/16	3/4	GBA-4
700	2,500	1 3/8	13/16	2	1 9/16	1 3/8	5/16	3/16	GBA-5
900	3,600	1 1/2	13/16	2 3/16	1 11/16	1 1/2	7/16	3/16	GBA-6
1,100	3,300	1 5/8	5/16	2 3/8	1 7/8	1 5/8	9/16	5/16	GBA-7
1,400	3,800	1 3/4	1	2 1/2	2	1 3/4	9/16	1	GBA-8
1,700	6,000	1 7/8	1	2 11/16	2 1/8	1 7/8	9/16	1 1/16	GBA-9
2,000	5,000	2 1/16	1 1/8	2 7/8	2 1/8	2	9/16	1 3/16	GBA-10
2,500	5,300	2 3/16	1 3/16	3 1/16	2 7/16	2 1/8	9/16	1 1/4	GBA-11
3,000	6,100	2 5/16	1 5/16	3 1/4	2 9/16	2 1/4	9/16	1 5/16	GBA-12
3,600	6,600	2 3/8	1 1/4	3 7/16	2 11/16	2 3/8	9/16	1 3/8	GBA-13
4,000	7,500	2 9/16	1 7/16	3 5/8	2 7/8	2 1/2	13/16	1 7/16	GBA-14
6,000	8,700	2 15/16	1 5/8	4 1/8	3 15/16	2 7/8	13/16	1 11/16	GBA-16
10,000	14,000	3 7/16	1 15/16	4 7/8	3 7/8	3 3/8	13/16	1 15/16	GBA-19
17,000	18,500	3 7/8	2 1/8	5 3/4	4 9/16	3 15/16	13/16	2 1/4	GBA-20

Low Energy Absorption
Longer Stroke, Soft Stop

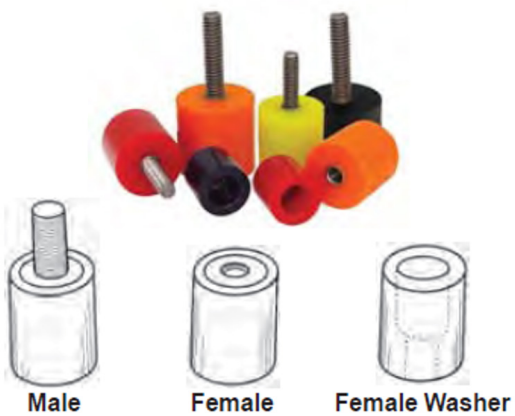
Max. Comp. in Lbs.	Peak Dynamic Force	A	B	C	D	E	Mounting Hole F	Wrench Opening G	Item No.
50	300	13/16	7/16	1 1/8	13/16	3/4	5/16	1/2	GBA-101S
100	400	1 1/16	9/16	1 7/16	1 1/16	1	5/16	5/8	GBA-102S
200	600	1 1/4	11/16	1 3/4	1 1/4	1 3/16	5/16	3/4	GBA-103S
250	700	1 7/16	11/16	1 7/8	1 3/8	1 5/16	5/16	7/8	GBA-104S
300	900	1 1/2	13/16	2	1 1/2	1 3/8	7/16	3/16	GBA-105S
550	1,300	1 3/4	5/16	2 3/8	1 3/4	1 5/8	9/16	1	GBA-107S
700	1,600	1 7/8	1	2 5/16	1 7/8	1 3/4	9/16	1 1/16	GBA-108S

Low Energy Absorption
Longer Stroke, Soft Stop



Max. Comp. in Lbs.	Peak Dynamic Force	A	B	C	D	Mounting Hole E	F	Item No.
10	75	1	3/8	1 7/16	1/2	7/32	1 1/8	GBR-1
20	100	1 1/4	1/2	1 7/8	3/4	7/32	1 7/16	GBR-2
30	150	1 1/2	9/16	2 1/4	13/16	7/32	1 11/16	GBR-3
50	200	1 11/16	7/16	2 11/16	1 3/8	7/32	1 15/16	GBR-4
100	300	2 1/8	9/16	3 3/8	1 3/4	7/32	2 1/2	GBR-5
200	475	2 1/4	15/16	3 7/16	1 13/16	7/32	2 5/8	GBR-6
300	600	2 5/8	1 1/8	3 15/16	1 13/16	9/32	3	GBR-7
400	725	2 13/16	1 3/16	4 1/4	2	9/32	3 1/4	GBR-8

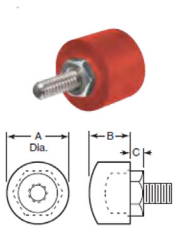
Solid Compression Springs



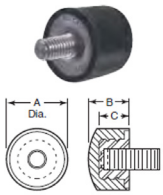
These bumpers feature steel cores with male or female threads. Washers have counterbored holes to accept socket head cap screws and a flat washer molded inside.

Dia.	Height	Thread or Screw Size	40A Yellow Item No.	60A Black Item No.	80A Orange Item No.	90A Blue Item No.	95A Red Item No.
Male Thread							
1	1	1/4-20	AU-400	AU-600	AU-800	AU-900	AU-950
1 1/4	1	1/4-20	AU-401	AU-601	AU-801	AU-901	AU-951
1 1/2	1 1/4	3/8-16	AU-402	AU-602	AU-802	AU-902	AU-952
2	1 1/4	3/8-16	AU-403	AU-603	AU-803	AU-903	AU-953
Female Thread							
1	1	1/4-20	AU-410	AU-610	AU-810	AU-910	AU-960
1 1/4	1	1/4-20	AU-411	AU-611	AU-811	AU-911	AU-961
1 1/2	1 1/4	3/8-16	AU-412	AU-612	AU-812	AU-912	AU-962
2	1 1/4	3/8-16	AU-413	AU-613	AU-813	AU-913	AU-963
Washer							
3/4	3/4	1/4	AU-420	AU-620	AU-820	AU-920	AU-970
1	1	1/4	AU-421	AU-621	AU-821	AU-921	AU-971
1 1/4	1	3/8	AU-422	AU-622	AU-822	AU-922	AU-972
1 1/2	1 1/4	3/8	AU-423	AU-623	AU-823	AU-923	AU-973
2	1 1/4	1/2	AU-424	AU-624	AU-824	AU-924	-

Solid Compression Springs w/ Male Threads



w/ Hex Shoulder

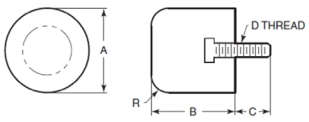


w/o Hex Shoulder

A	B	C	Thread	Neoprene Item No.	Urethane Item No.
With Hex Shoulder					
¾	⅝	3/16	10-24 x ½	FRB-27*	FRB-327
¾	⅝	3/16	10-24 x 1½	-	FRB-328
¾	⅝	3/16	10-32 x ½	FRB-29	FRB-329
¾	⅝	3/16	10-32 x 1¼	FRB-31*	-
¾	⅝	3/16	¼-20 x ½	FRB-33*	FRB-333
¾	⅝	3/16	¼-20 x 1¼	FRB-35*	FRB-335
¾	⅝	3/16	¼-28 x ½	FRB-37*	FRB-337
¾	⅝	3/16	¼-28 x 1¼	FRB-39*	FRB-339
¾	⅝	3/16	5/16-28 x ½	FRB-30	FRB-330
¾	⅝	3/16	5/16-18 x 1¼	FRB-32	FRB-332
¾	⅝	3/16	5/16-24 x ½	FRB-41*	FRB-341
¾	⅝	3/16	5/16-24 x 1¼	FRB-43*	FRB-343
Without Hex Shoulder					
1¼	1¼	¾	⅜-16 x ⅝	FRB-34	FRB-334
1¼	1¼	¾	⅜-16 x 1¼	FRB-36	FRB-336
1¼	1¼	¾	½-13 x ¾	FRB-40	FRB-340
1½	13/16	⅜	⅜-16 x ¾	FRB-42	FRB-342

*Durometer hardness of 70 Shore A

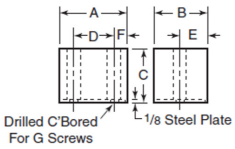




Durometer	A	B	C	D	R	Item No.
60	1	1	⅞	5/16-18	¼	RR-1500
80	1	1	⅞	5/16-18	¼	RR-1501
60	1½	1½	⅞	5/16-18	5/16	RR-1502
80	1½	1½	⅞	5/16-18	5/16	RR-1503
60	2	2	⅞	5/16-18	⅜	RR-1504
80	2	2	⅞	5/16-18	⅜	RR-1505
60	2½	2½	⅞	⅜-16	½	RR-1506
80	2½	2½	⅞	⅜-16	½	RR-1507
60	3	3	1¼	½-13	⅝	RR-1508
80	3	3	1¼	½-13	⅝	RR-1509
60	4	4	1 5/16	½-13	¾	RR-1510
80	4	4	1 5/16	½-13	¾	RR-1511

Solid Compression Springs w/ Steel Plate





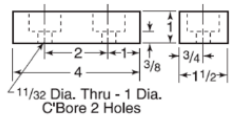
With drilled and counterbored holes for mounting. Bonded to steel plate. Both neoprene and urethane have durometer hardness of 80 A except for FRB-52 with has durometer hardness of 35 A.

A	B	C	D	E	F	G	No. of Holes	Neoprene Item No.	Urethane Item No.
¾	¾	⅝	-	⅜	⅜	¼	1	FRB-60	FRB-560
1¾	1	¾	1	½	⅜	¼	2	FRB-50	FRB-550
1¾	1	¾	1	½	⅜	¼	2	FRB-52	-
2½	⅝	⅝	1½	5/16	½	¼	2	FRB-58	FRB-558
2½	2	2	1½	1	½	5/16	2	FRB-24	FRB-554

Solid Compression Springs w/o Steel Plate

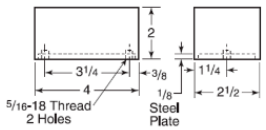


FRB-80



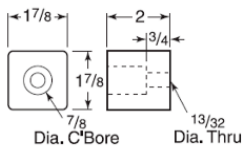


FRB-85





FRB-90

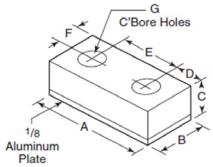


With drilled and counterbored holes for mounting. No steel plate. Neoprene only.

Durometer	Item No.
60A	FRB-80
80A	FRB-85
80A	FRB-90

Solid Compression Springs w/ Aluminum Plate





With drilled and counterbored holes for mounting. Aluminum plate.

A	B	C	D	E	F	G	No. of Holes	Neoprene Item No.
1½	1	¾	⅜	¾	½	¼	2	FRB-100
1¾	1	1¾	⅜	1	½	¼	2	FRB-102
3	1	1¾	⅝	1¾	½	⅜	2	FRB-104
3	1½	1	½	2	¾	5/16	2	FRB-106
4	1	¾	1½	1	½	¼	2	FRB-108

Solid Compression Springs



Constructed of resilient, high quality thermo-plastic rubber. These bumpers are impervious to atmospheric deterioration and won't crack like extruded bumpers. Easily attached with ¼" screw or adhesive (not included).

Description	Item No.
4" Straight Bumper - White	WEI-5
12" Staight Bumper - White	WEI-10
12" Staight Bumper - Black	WEI-15
15" Corner Bumper - White	WEI-20
15" Corner Bumper - Black	WEI-25

MECHANICAL SPRINGS & ACCESSORIES

Precision Brand Products
Music Wire

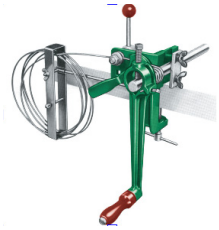


Steel - Made of high carbon alloy. Many uses including springs, control linkages, wire forms, etc. Other sizes available as a special orders. **Stainless** - made of full hard Type 302 stainless.

			Steel			Stainless		
Dia	Gauge	Ft. per Lb.	Item No.	Mfg's Part No.	Lb. Size	Item No.	Mfg's Part No.	Lb. Size
.009	1/0	4,629	PBW-209	21209	¼	-	-	-
.010	1	3,749	PBW-210	21210	¼	PBW-9010	29010	1
.012	3	2,604	PBW-212	21212	¼	-	-	-
.016	6	1,465	PBW-216	21216	¼	-	-	-
.020	8	937	PBW-220	21220	¼	PBW-9020	29020	1
.024	10	650	PBW-224	21224	¼	PBW-9024	29024	1
.026	11	555	PBW-026	21026	1	-	-	-
.029	12	450	PBW-029	21029	1	PBW-9029	29029	1
.031	13	400	PBW-031	21031	1	PBW-9031	29031	1
.033	14	346	PBW-033	21033	1	-	-	-
.035	15	306	PBW-035	21035	1	-	-	-
.039	17	250	PBW-039	21039	1	-	-	-
.041	18	223	PBW-041	21041	1	PBW-9041	29041	1
.043	19	207	PBW-043	21043	1	-	-	-
.045	20	190	PBW-045	21045	1	PBW-9045	29045	1
.047	21	172	PBW-047	21047	1	-	-	-
.059	25	110	PBW-059	21059	1	PBW-9059	29059	1
.063	26	95	PBW-063	21063	1	PBW-9062*	29062	1
.071	28	78	PBW-071	21071	1	-	-	-
.080	30	58	PBW-080	21080	1	PBW-9080	29080	1
.090	32	45	PBW-090	21090	1	PBW-9090	29090	1
.125	-	24	PBW-125	21125	1	PBW-9125	29125	1

*Dia. is .0625

Spring Winders



The Porter Spring Winder quickly winds extension, compression and torsion springs from ⅛" to 1¼" inside diameter in either right or left hand coils. Handles music wire from smallest to 3/16" diameter A pitch gauge accurately regulates distance between coils and may be disengaged while winding extension springs or closed end coils on compression springs.

SW-101 Spring Winder Kit: Includes spring winder with cam lock tension release, two handles, one for large diameter and one for small diameter mandrels. Six mandrels, ⅛", ¼", ⅜", ½", ⅝", and ¾" wrench, four ¼ lb. coils of .029", .047", .067" and .085" spring wire. Also includes Hook-Kon spring looping tool and nipper.

SW-102 Spring Winder Kit: Same as above but does not include Hook-Kon spring looping tool and nipper.

SW-103 Utility Model: Same as SW-102 but it does not have cam lock tension release or small handle. Shipped complete with four mandrels only. Sizes include: ⅛", ¼", ⅜" and ½" with wrench. Spring wire not included.

Description	Item No.
Spring Winder Kit	SW-101
Spring Winder Kit w/out Hook-Kon Tool & Nipper	SW-102
Utility Model	SW-103

Spring Looping Tool



Hook-Kon spring looping tool forms a variety of perfect end loops and hooks on coil springs, 1/8" to ½" OD.

Description	Item No.
Hook-Kon Spring Looping Tool	SW-103

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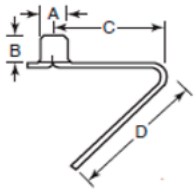
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Snap Buttons

Fasteners for telescoping tubing help reduce assembly time while improving your product. Eliminates the need for rivets and screws. Quickly snap into place in round or square tubing. Snap buttons are made from 1050 spring steel, heat treated and .0002" zinc plated minimum.

Single End - Spring Leg

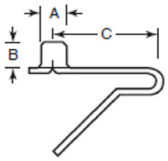




A	B	Material Size		C	D	Use With Tubing		Item No.
		Thickeness	Width			Round	Square	
.250	.28	.018	.365	1.17	1.45	.45-.87	.42-.87	VA-1130
.302	.37	.020	.440	1.65	1.91	.59-1.25	.49-1.25	VA-1140
.365	.37	.025	.510	1.81	2.13	.68-1.37	.52-1.37	VA-1161

Single End - Dog Leg

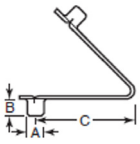




A	B	Material Size		C	Use With Tubing		Item No.
		Thickeness	Width		Round	Square	
.365	.37	.025	.510	1.80	.60-1.12	.52-1.12	VA-2160

Double End





A	B	Material Size		C	Use With Tubing		Item No.
		Thickeness	Width		Round	Square	
.250	.28	.018	.365	1.52	.62-.87	.62-.87	VA-4131
.312	.37	.020	.440	2.05	.82-1.12	.82-1.12	VA-4150
.375	.44	.025	.530	2.82	1.00-1.87	1.00-1.87	VA-4182

Flat Type



A	B	Material Size		Hole Dia.	C	D	Item No.
		Thickeness	Width				
.250	.21	.018	.365	.128	.84	1.25	VA-6130

Note: Overall length D is for flat position.

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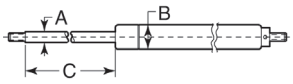
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GAS/AIR SPRINGS, SHOCK ABSORBERS & ACCESSORIES

Fixed Force Gas Springs





Patented multi-lobe seal significantly reduces gas leakage, tolerates shaft imperfections, vibrations and wide temperature variations. Body is made of heavy gauge steel and shaft is chromium plated steel. All have M6 x 1.0 threads.

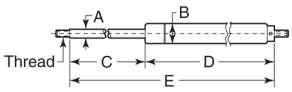
Item No.	A	B	C	Compressed Size	Extended Size	P1 Force
GAS-151EF	.24	.59	2.00	5.50	7.50	20
GAS-152EF	.24	.59	2.00	5.50	7.50	40
GAS-153EF	.24	.59	2.00	5.50	7.50	60
GAS-154EF	.24	.59	2.00	5.50	7.50	80
GAS-155EF	.24	.59	2.00	5.50	7.50	100
GAS-161EF	.24	.59	3.15	6.45	9.60	20
GAS-162EF	.24	.59	3.15	6.45	9.60	40
GAS-163EF	.24	.59	3.15	6.45	9.60	60
GAS-165EF	.24	.59	3.15	6.45	9.60	100
GAS-171EF	.24	.59	3.50	8.50	12.00	20
GAS-172EF	.24	.59	3.50	8.50	12.00	40
GAS-173EF	.24	.59	3.50	8.50	12.00	60
GAS-175EF	.24	.59	3.50	8.50	12.00	100
GAS-101EF	.32	.75	3.50	8.40	11.90	20
GAS-102EF	.32	.75	3.50	8.40	11.90	30
GAS-103EF	.32	.75	3.50	8.40	11.90	60
GAS-104EF	.32	.75	3.50	8.40	11.90	90
GAS-105EF	.32	.75	3.50	8.40	11.90	120
GAS-111EF	.32	.75	5.00	10.25	15.25	20

Item No.	A	B	C	Compressed Size	Extended Size	P1 Force
GAS-112EF	.32	.75	5.00	10.25	15.25	30
GAS-113EF	.32	.75	5.00	10.25	15.25	60
GAS-114EF	.32	.75	5.00	10.25	15.25	90
GAS-115EF	.32	.75	5.00	10.25	15.25	120
GAS-121EF	.32	.75	6.00	11.00	17.00	20
GAS-122EF	.32	.75	6.00	11.00	17.00	30
GAS-123EF	.32	.75	6.00	11.00	17.00	60
GAS-124EF	.32	.75	6.00	11.00	17.00	90
GAS-125EF	.32	.75	6.00	11.00	17.00	120
GAS-131EF	.32	.75	7.00	12.63	19.63	20
GAS-132EF	.32	.75	7.00	12.63	19.63	30
GAS-133EF	.32	.75	7.00	12.63	19.63	60
GAS-134EF	.32	.75	7.00	12.63	19.63	90
GAS-135EF	.32	.75	7.00	12.63	19.63	120
GAS-141EF	.39	.87	10.00	17.80	27.80	100
GAS-142EF	.39	.87	10.00	17.80	27.80	120
GAS-143EF	.39	.87	10.00	17.80	27.80	150
GAS-144EF	.39	.87	10.00	17.80	27.80	200

Note: P1 force is extended force
Length including end fittings (center to center)

Adjustable Force Gas Springs



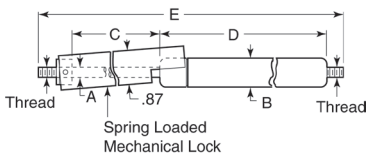


These adjustable gas springs are the perfect solution for small volume design or replacement applications, as the need to calculate the exact force required is eliminated. Each gas spring is charged at the factory to its maximum force value. Once installed in an application, a simple allen key (included) adjustment can be made to reduce the gas spring force, until the desired application function is reached. Manufactured from specially designed seals, nitrotec finished rods and powder epoxy paint finished tubes for maximum life and service. To order a complete gas spring, select a spring from the table below, then specify which end fittings you need. (Two end fittings per gas spring.)

Item No.	A	Cyl. Dia. B	Stroke C	D	E	Supplied Force Lbs.	Thread Size
GAS-1	.23	.59	2.36	3.94	6.30	90	M5 x .8
GAS-2	.23	.59	3.94	5.51	9.45	90	M5 x .8
GAS-3	.31	.71	3.94	6.46	10.39	146	M6 x 1.0
GAS-4	.31	.71	5.91	8.43	14.33	146	M6 x 1.0
GAS-5	.31	.71	7.87	10.39	18.27	146	M6 x 1.0
GAS-7	.39	.91	11.81	13.39	25.20	270	M8 x 1.25

Econoloc Gas Springs

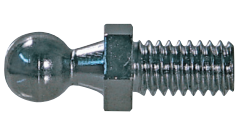


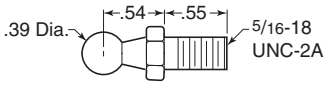


Econoloc gas springs eliminate the need for separate safety rods in critical lift-assist applications. They automatically lock when fully extended, protecting the operator from potential injury in the unlikely event of gas spring failure through overload or misuse. The Econoloc is manually released by applying thumb pressure to the designated area of the locking shroud, allowing the gas spring to compress in a controlled manner. A single Econoloc gas spring can be used in conjunction with GAS-3, 4, and 5 listed above.

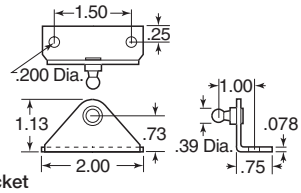
Item No.	A	Cyl. Dia. B	Stroke C	D	E	Supplied Force Lbs.	Thread Size
GAS-43EF	.31	.71	3.94	5.47	10.39	146	M6 x 1.0
GAS-44EF	.31	.71	5.91	7.44	14.33	146	M6 x 1.0

Gas Springs Mounting Brackets



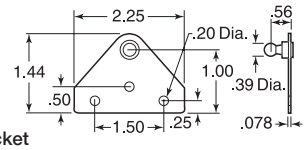






Flat Bracket





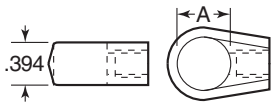
L-Bracket

All are zinc plated steel designed for gas springs.

Item No.	Description	Item No.	Description	Item No.	Description
GAS-301	Ball Stud	GAS-302	Flat Bracket	GAS-303	L-Bracket

Gas Springs Fat Blade End Fittings

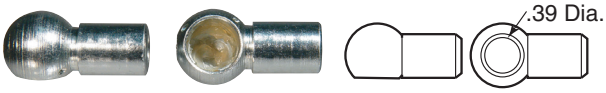




Die cast zinc.

Item No.	A
GAS-211	.205 - .210
GAS-212	.260 - .265
GAS-213	.325 - .330
GAS-214	.405 - .410

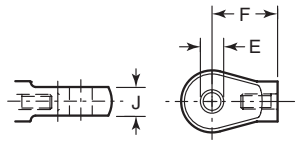
Metal End Fitting



Item No.	Description	Max. P1 (Lbs.)
GAS-202	Metal End Fitting	200

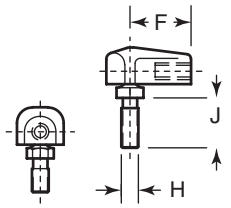
Gas Springs End Fittings





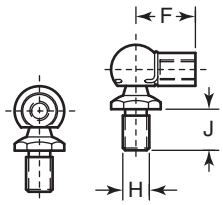
Nylon Eyelet End Fitting





Nylon Ball Joint Assembly





Steel Ball Joint Assembly

Item No.	Fits Cyl. Dia.	E mm	F mm	H	J mm	Internal Thread Size
Nylon Eyelet End Fitting						
GAS-10	.59	6	17	–	8	M5 x .8
GAS-12	.71	8	21	–	10	M6 x 1.0
Zinc Eyelet End Fitting						
GAS-14	.91	8	21	–	10	M8 x 1.25
Nylon Ball Joint Assembly						
GAS-20	.59	–	17	M5 x .8	10	M5 x .8
GAS-23	.71	–	17.5	M8 x 1.25	12.5	M6 x 1.0
Steel Ball Joint Assembly						
GAS-30	.71	–	18	M8 x 1.25	12	M6 x 1.0
GAS-32	.91	–	30	M8 x 1.25	16	M8 x 1.25

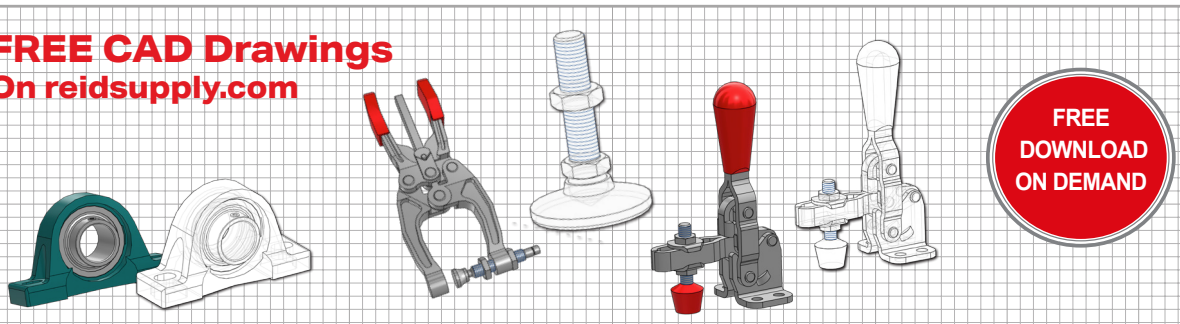
Gas Spring Plastic End Fitting



End fittings for gas springs. All are M6 x 1.0 thread.

Item No.	Description	Max. P1 (Lbs.)
GAS-201	Plastic End Fitting	150

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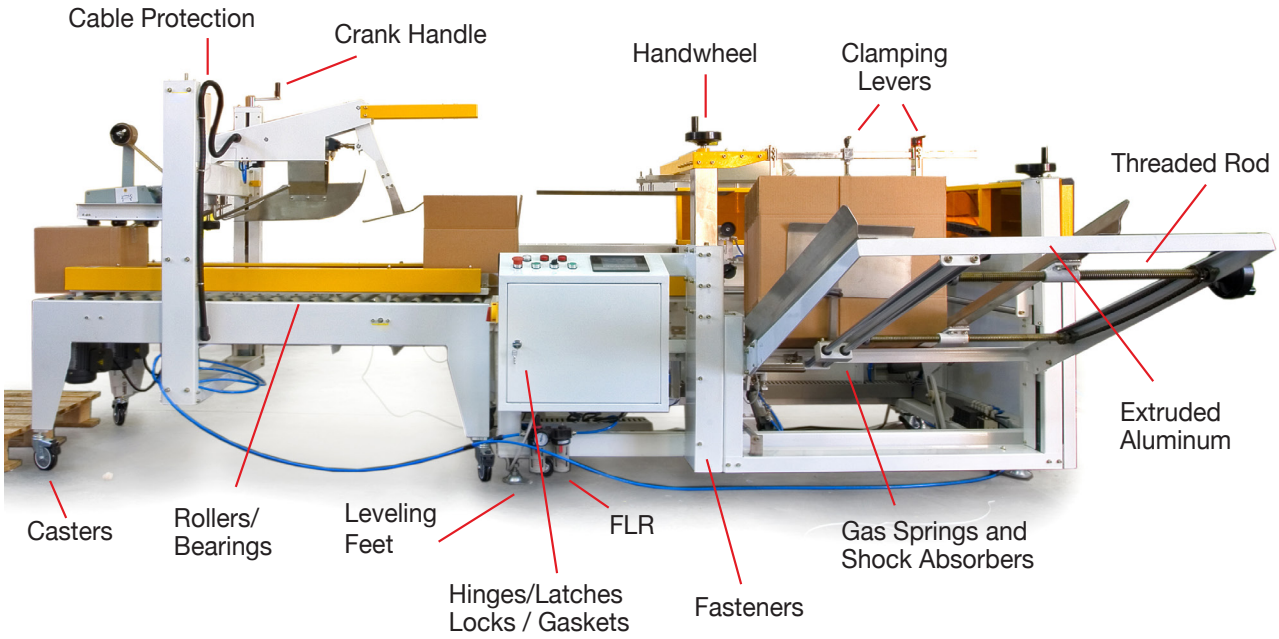


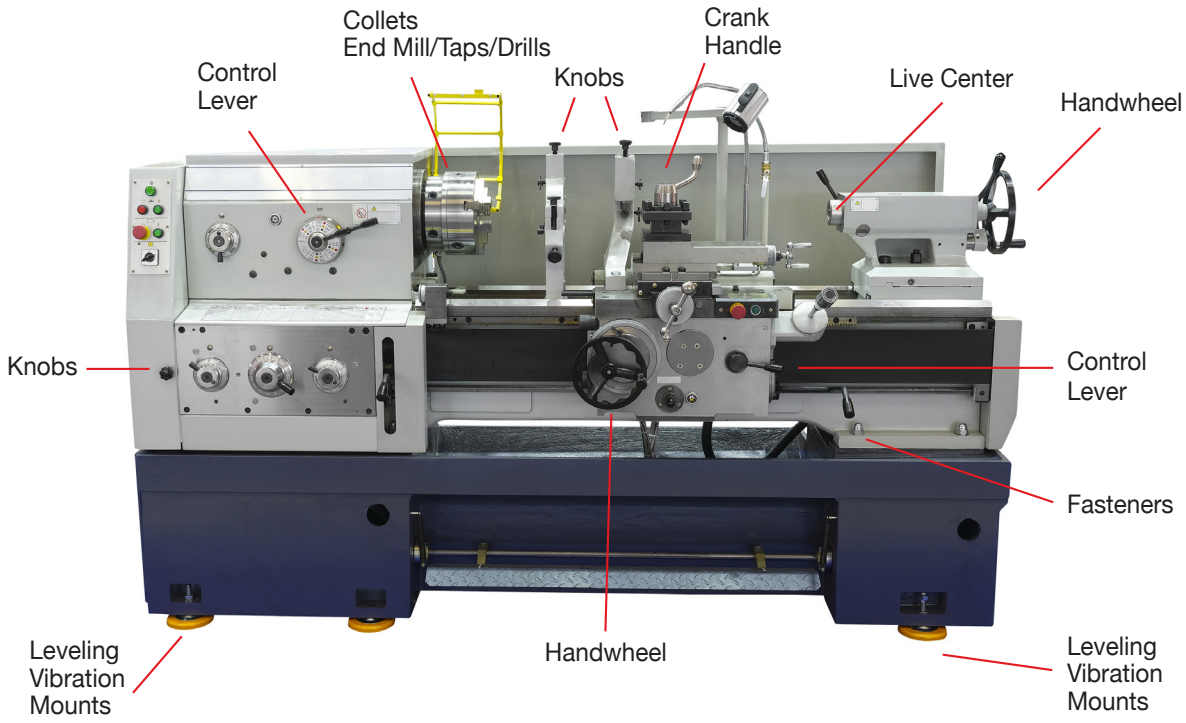
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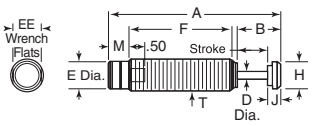


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Adjustable Shock Absorbers

ACE

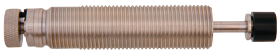




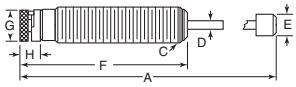
Item No.	Ace	Stroke	A	B	D	E	F	H	J	M	T	EE	Effective Weight Lbs.	Energy/ Cycle In. Lbs.	Energy/Hr. In. Lbs./Hr.
Inch															
ACE-0035	MA35	.40	3.31	.71	.13	.42	2.41	.30	.32	.18	½-20	—	13 - 125	35	53,000
ACE-0150	MA150B	.50	3.59	.87	.19	.46	2.44	.47	.43	.28	9/16-18	.49	2 - 240	200	300,000
ACE-0225	MA225	.75	4.67	1.18	.19	.66	2.94	.66	.43	.55	¾-16	11/16	5 - 500	300	400,000
ACE-0600	MA600	1.00	5.62	1.43	.25	.88	3.54	.90	.43	.65	1-12	⅞	20 - 3,000	600	600,000
ACE-0900	MA900	1.58	7.44	2.01	.25	.88	4.78	.90	.43	.65	1-12	⅞	30 - 4,500	900	800,000
Metric															
ACE-0035M	MA35M	10.1	84.1	18.3	3.3	10.6	61.2	7.6	8.0	4.6	M12 x 1	—	13 - 125	35	53,000
ACE-0150M	MA150M	12.7	93.2	24.1	4.8	11.6	62.0	11.9	11.0	7.1	M14 x 1.5	12.7	2 - 240	200	300,000
ACE-0225M	MA225M	19.1	118.6	30.0	4.8	16.8	74.7	16.8	11.0	14.0	M20 x 1.5	18.0	5 - 500	300	400,000
ACE-0600M	MA600M	25.4	142.7	36.3	6.3	22.4	90.0	22.9	11.0	16.5	M25 x 1.5	23.0	20 - 3,000	600	600,000

Determine load weight, impact velocity (in./sec.), propelling force (if any), cycles per hour, and stroke (in.) required. Calculate total energy (in.-lbs.) and total energy per hour (In.-lbs./hr.) to select proper shock.

Small Adjustable Hydraulic Series

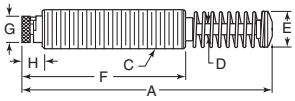


ED-1, ED-2R





ED-3, ED-4

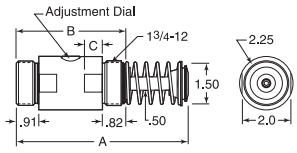


Use with pallet stops, air cylinders, rolling doors, and other various manufacturing applications. Standard corrosion resistant nickel plating. Adjustments are made by turning the 180 degree adjustment knob. Adjustments are locked with a setscrew. One hex jam nut supplied with each shock. Additional mounting accessories are available below.

Item No.	Bore Size In.	Stroke inches	Max. In.-Lbs. Per Cycle	Max. In.-Lbs. Per Hour	Max. Shock Force Lbs.	Nominal Coil Spring Force Extension Lbs.	Nominal Coil Spring Force Compression Lbs.	Max. Propelling Force Lbs.	A	UNF C	D	E	F	G	H
ED-1	.28	.5	250	284,000	775	1.25	2.75	150	4.35	¾-16	.190	.50	3.31	.63	.67
ED-2R	.50	1.0	650	622,000	1,000	3.00	6.00	300	5.62	1-12	.250	.62	4.09	.88	.56
ED-3	.63	1.0	1700	808,000	2,500	9.00	13.00	500	6.12	1⅜-12	.375	1.13	3.81	1.10	.55
ED-4	.63	2.0	3400	986,000	2,500	5.00	13.00	500	8.74	1⅜-12	.375	1.13	5.43	1.10	.55

Low Profile Adjustable Hydraulic Series





Larger capacity for use in automotive robotics, glass forming equipment, foundry conveyor lines, manufacturing rail carts, and numerous other applications. Recessed 360 degree adjustment setting knob on side of shock absorber for ease of mounting. Mounting accessories available below.

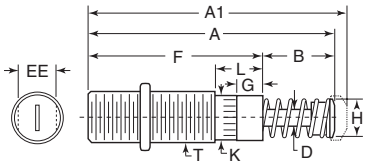
Item No.	Bore Size In.	Stroke inches	Max. In.-Lbs. Per Cycle	Max. In.-Lbs. Per Hour	Max. Shock Force Lbs.	Nominal Coil Spring Force Extension Lbs.	Nominal Coil Spring Force Compression Lbs.	Max. Propelling Force Lbs.	A	B	C
ED-5	.75	1	2300	1,120,000	3,000	11.00	15	650	5.69	3.63	.42
ED-6	.75	2	4600	1,475,000	3,000	7.00	15	650	7.69	4.63	.50

GAS/AIR SPRINGS, SHOCK ABSORBERS & ACCESSORIES

Adjustable Miniature Shock Absorber

ACE

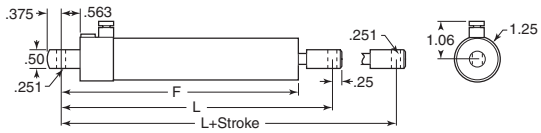




Item No.	Ace	Stroke	A	A1	B	D	F	H	K	L	Q	T	EE	Effective Weight Lbs.	Energy/ Cycle	Energy/Hr. In. Lbs./Hr.
ACE-AS381	AS3/8X1	1	4.75	5	1.38	0.31	3.37	0.75	0.87	0.93	0.5	1-12	0.88	10 - 1,250	600	600,000

Adjustable Double Acting Hydraulic Series





Used in food processing, refrigeration cases, material handling, air cylinders and various other manufacturing applications. Determine required stroke (in.) control direction desired (compression, tension or both) and maximum propelling force in the desired direction to select appropriate shock absorber. Dampening force adjustments are made by rotating adjustment knob 180 degrees. Bore size is .625".

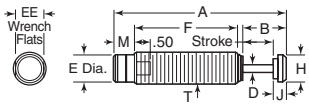
Adjustable Compression Item No.	Adjustable Compression and Tension Item No.	Stroke Max. Inches	In.-Lbs. Per Cycle	Max. In.-Lbs. Per Hour	Max. Propelling Force Extension Lbs.	Max. Propelling Force Compression Lbs.	F	L
—	ED-120	2	1800	650,000	450	450	6.87	7.81
ED-13*	ED-130	4	3300	850,000	450	375	8.87	9.81
ED-14	ED-140	6	4500	1,050,000	450	300	10.87	11.81
ED-150*	ED-15	8	5200	1,250,000	450	200	12.87	13.81
—	ED-16	10	6250	1,450,000	450	125	14.87	15.8

*Free flow in tension mode, adjustable in compression mode

Soft Contact/Self-Compensating

ACE





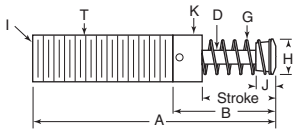
Soft contact is suggested when a low initial reaction force is required at impact. Self-compensating is utilized to obtain maximum energy absorption capacity. Both are recommended when a range of loads and impact velocities are encountered in the same application. Temperature range 32 to 150 degree Fahrenheit. Oil type ACE #5.

Item No.	Ace	Stroke	A	B	D	E	F	H	J	M	T	EE	Effective Weight Lbs. Soft Contact	Effective Weight Lbs. Self-Compensating	Energy/ Cycle In. Lbs.	Energy/Hr. In. Lbs./Hr.
Inch																
ACE-1901	SC-190-1	.63	4.50	1.06	.16	.46	3.00	.47	.43	.28	9/16-18	1/2	5 - 13	3 - 15	225	300,000
ACE-1902	SC-190-2	.63	4.50	1.06	.16	.46	3.00	.47	.43	.28	9/16-18	1/2	12 - 36	8 - 40	225	300,000
ACE-1903	SC-190-3	.63	4.50	1.06	.16	.46	3.00	.47	.43	.28	9/16-18	1/2	30 - 90	20 - 100	225	300,000
ACE-1904	SC-190-4	.63	4.50	1.06	.16	.46	3.00	.47	.43	.28	9/16-18	1/2	75 - 200	50 - 225	225	300,000
ACE-3001	SC-300-1	.75	4.62	1.18	.19	.66	3.09	.66	.43	.28	3/4-16	1 1/16	5 - 15	3 - 18	300	400,000
ACE-3002	SC-300-2	.75	4.62	1.18	.19	.66	3.09	.66	.43	.28	3/4-16	1 1/16	15 - 50	10 - 60	300	400,000
ACE-3003	SC-300-3	.75	4.62	1.18	.19	.66	3.09	.66	.43	.28	3/4-16	1 1/16	50 - 150	30 - 180	300	400,000
ACE-3004	SC-300-4	.75	4.62	1.18	.19	.66	3.09	.66	.43	.28	3/4-16	1 1/16	150 - 400	70 - 450	300	400,000
ACE-3005	SC-300-5	.59	4.15	1.02	.25	.66	2.78	.66	.43	.28	3/4-16	1 1/16	38 - 90	25 - 100	650	400,000
ACE-3006	SC-300-6	.59	4.15	1.02	.25	.66	2.78	.66	.43	.28	3/4-16	1 1/16	115 - 270	75 - 300	650	400,000
ACE-3007	SC-300-7	.59	4.15	1.02	.25	.66	2.78	.66	.43	.28	3/4-16	1 1/16	300 - 360	200 - 400	650	400,000
ACE-3008	SC-300-8	.59	4.15	1.02	.25	.66	2.78	.66	.43	.28	3/4-16	1 1/16	450 - 1,350	300 - 1,500	650 in	400,000
ACE-3009	SC-300-9	.59	4.15	1.02	.25	.66	2.78	.66	.43	.28	3/4-16	1 1/16	1,050 - 3,900	700 - 4,300	650 in	400,000
ACE-6501	SC-650-1	1.00	5.62	1.43	.25	.87	3.83	.90	.43	.28	1-12	7/8	24 - 80	17 - 100	650	600,000
ACE-6502	SC-650-2	1.00	5.62	1.43	.25	.87	3.83	.90	.43	.28	1-12	7/8	75 - 250	50 - 300	650	600,000
ACE-6503	SC-650-3	1.00	5.62	1.43	.25	.87	3.83	.90	.43	.28	1-12	7/8	240 - 800	150 - 900	650	600,000
ACE-6504	SC-650-4	1.00	5.62	1.43	.25	.87	3.83	.90	.43	.28	1-12	7/8	800 - 2,400	450 - 2,600	650	600,000
ACE-6505	SC-650-5	1.91	5.51	1.33	.38	.87	3.80	.90	.43	.28	1-12	7/8	75 - 225	50 - 250	1,860	600,000
ACE-6506	SC-650-6	1.91	5.51	1.33	.38	.87	3.80	.90	.43	.28	1-12	7/8	300 - 720	200 - 800	1,860	600,000
ACE-6507	SC-650-7	1.91	5.51	1.33	.38	.87	3.80	.90	.43	.28	1-12	7/8	1,050 - 2,150	700 - 2,400	1,860	600,000
ACE-6508	SC-650-8	1.91	5.51	1.33	.38	.87	3.80	.90	.43	.28	1-12	7/8	2,500 - 5,200	1,700 - 5,800	1,860	600,000
ACE-6509	SC-650-9	1.91	5.51	1.33	.38	.87	3.80	.90	.43	.28	1-12	7/8	6,000 - 12,500	4,000 - 14,000	1,860	600,000
ACE-9251	SC-925-1	1.58	7.44	2.01	.25	.87	5.10	.90	.43	.28	1-12	7/8	50 - 160	30 - 200	975	800,000
ACE-9252	SC-925HD-2	1.58	7.44	2.01	.25	.87	5.10	.90	.43	.28	1-12	7/8	130 - 460	90 - 600	975	800,000
ACE-9253	SC-925HD-3	1.58	7.44	2.01	.25	.87	5.10	.90	.43	.28	1-12	7/8	400 - 1,350	250 - 1,600	975	800,000
ACE-9254	SC-925HD-4	1.58	7.44	2.01	.25	.87	5.10	.90	.43	.28	1-12	7/8	1,200 - 4,300	750 - 4,600	975	800,000
Inch (Metric Thread)																
ACE-1905	SC-190M-5	.47	3.70	1.67	.19	.46	2.83	—	—	.20	M14 x 1.5	.39	—	4.4 - 35.2	274	443,000
ACE-1906	SC-190M-6	.47	3.70	1.67	.19	.46	2.83	—	—	.20	M14 x 1.5	.39	—	29 - 309	274	443,000
ACE-1907	SC-190M-7	.47	3.70	1.67	.19	.46	2.83	—	—	.20	M14 x 1.5	.39	—	300 - 3,400	274	443,000

These shock absorbers are fully threaded for ease of installation. Outer body made of steel with black oxide finish. Piston rod is made of high tensile steel, hardened and chrome plated. Rod end button is made of hardened steel with black oxide finish. Return spring is zinc plated. For maximum heat dissipation, do not paint shock absorber. Operating temperature is 10 degrees to 158 degrees Fahrenheit. Oil type is ATF. Lock nut included with each shock absorber.

ACE





Self-Compensating
Used to obtain maximum energy absorption capacity. Impact velocity range is 0.5 to 16.5 ft./sec.

Adjustable
Adjustable from either front or rear. Impact velocity range is 0.5 to 16.5 ft./sec.

Low Velocity Adjustable
Adjustable from either front or rear. Impact velocity range is 0.6 to 1.5 ft./sec.

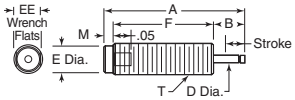
Item No.	Ace	Stroke	A	B	D	G	H	I	J	K	T	Effective Weight Lbs.	Energy/ Cycle In. Lbs.	Energy/Hr. In. Lbs./Hr.
Self-Compensating / Soft Contact														
ACE-3325-1	MC3325-1	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	20 - 80	1,350	670,000
ACE-3325-2	MC-3325-2	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	68 - 272	1,350	670,000
ACE-3325-3	MC3325-3	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	230 - 920	1,350	670,000
ACE-3325-4	MC3325-4	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	780 - 3,120	1,350	670,000
ACE-3350-1	MC3350-1	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	40 - 160	2,700	760,000
ACE-3350-2	MC3350-2	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	136 - 544	2,700	760,000
ACE-3350-3	MC3350-3	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	460 - 1,840	2,700	760,000
ACE-3350-4	MC3350-4	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	1,560 - 6,240	2,700	760,000
ACE-4525-1	MC-4525-1	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	50 - 200	3,000	950,000
ACE-4525-2	MC4525-2	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	170 - 680	3,000	950,000
ACE-4525-4	MC4525-4	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	1,950 - 7,800	3,000	950,000
ACE-4550-1	MC4550-1	1.91	7.69	2.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	100 - 400	6,000	1,000,000
ACE-4550-2	MC4550-2	1.91	7.69	2.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	340 - 1,360	6,000	1,000,000
ACE-4575-2	MC4575-2	2.91	9.69	3.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	510 - 2,040	9,000	1,300,000
ACE-4575-3	MC-4575-3	2.91	9.69	3.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	1,730 - 6,920	9,000	1,300,000
ACE-4525-3	MC4525-3	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	575 - 2,300	3,000	950,000
ACE-6450-2	MC6450-2	1.91	8.85	3.35	.750	1.86	1.90	¼	1.06	2.37	2½-12	1,020 - 4,080	15,000	1,300,000
Adjustable														
ACE-105	MA3325	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	20 - 3,800	1,500	670,000
ACE-106	MA3625	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1⅜-12	20 - 3,800	1,500	670,000
ACE-107	MA4525	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	95 - 22,000	3,450	950,000
ACE-108	MA4550	1.91	7.69	2.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	150 - 32,000	6,900	1,000,000
ACE-109	MA3350	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	28 - 5,400	3,000	760,000
ACE-110	MA3650	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1⅜-12	28 - 5,400	3,000	760,000
ACE-111	MA4575	2.91	9.69	3.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	155 - 33,000	10,350	1,300,000
ACE-112	MA6450	1.91	8.85	3.35	.750	1.86	1.90	¼	1.06	2.37	2½-12	600 - 115,000	36,000	1,700,000
ACE-113	MA64100	3.91	12.85	5.35	.750	1.86	1.90	¼	1.06	2.37	2½-12	600 - 115,000	36,000	1,700,000
Low Velocity Adjustable														
ACE-115	ML3325	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1¼-12	—	1,500	670,000
ACE-116	ML3625	.91	5.44	2.19	.375	.99	1.00	⅛	.75	1.15	1⅜-12	—	1,500	670,000
ACE-118	ML3650	1.91	7.44	3.19	.375	.99	1.00	⅛	.75	1.15	1⅜-12	—	3,000	760,000
ACE-119	ML4525	.91	5.69	1.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	—	3,450	950,000
ACE-120	ML4550	1.91	7.69	2.97	.500	1.36	1.38	⅛	.87	1.65	1¾-12	—	6,900	1,000,000
ACE-121	ML6425	.91	6.85	2.35	.750	1.86	1.90	¼	1.06	2.37	2½-12	—	9,000	1,100,000

GAS/AIR SPRINGS, SHOCK ABSORBERS & ACCESSORIES

Self-Compensating

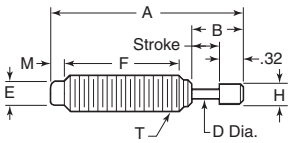
ACE





ACE-1150 - 1602, 1010, 1011, 1005M - 1601M





ACE-1024 - 1075

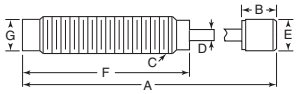
Small size allows for high energy absorption in confined spaces. The self-compensating design accommodates a variety of load conditions. Threaded outer bodies. Temperature range 32-150 degree Fahrenheit. Not compatible with petroleum based fluids. Silicone type oil.

Item No.	Ace	Stroke	A	B	D	E	F	H	M	EE	T	Effective Weight Lbs.	Energy/ Cycle In. Lbs.	Energy/Hr. In. Lbs./Hr.
Inch														
ACE-1024*	MC25L	.26	2.27	.57	.13	.33	1.30	.30	.20	—	3/8-32	1.5 - 5.0	20	200,000
ACE-1025*	MC25	.26	2.27	.57	.13	.33	1.30	.30	.20	—	3/8-32	4 - 12	20	200,000
ACE-1026*	MC25H	.26	2.27	.57	.13	.33	1.30	.30	.20	—	3/8-32	10 - 30	20	200,000
ACE-1075*	MC75-3	.40	2.76	.72	.13	.41	1.74	.30	.218	—	1/2-20	6 - 80	75	250,000
ACE-1150	MC150	.50	3.41	.69	.19	.46	2.44	—	.28	.525	9/16-18	2 - 22	175	300,000
ACE-1151	MC150H	.50	3.41	.69	.19	.46	2.44	—	.28	.525	9/16-18	20 - 200	175	300,000
ACE-1152	MC150H2	.50	3.41	.69	.19	.46	2.44	—	.28	.525	9/16-18	150 - 450	175	300,000
ACE-1225	MC225	.50	3.81	.69	.25	.66	2.84	—	.28	.632	3/4-16	5 - 55	360	400,000
ACE-1226	MC-225H	.50	3.81	.69	.25	.66	2.84	—	.28	.632	3/4-16	50 - 500	360	400,000
ACE-1227	MC225H2	.50	3.81	.69	.25	.66	2.84	—	.28	.632	3/4-16	400 - 2,000	360	400,000
ACE-1600	MC600	1.00	5.58	1.24	.31	.89	4.06	—	.28	.838	1-12	20 - 300	1200	600,000
ACE-1601	MC600H	1.00	5.58	1.24	.31	.89	4.06	—	.28	.838	1-12	250 - 2,500	1200	600,000
ACE-1602	MC600H2	1.00	5.58	1.24	.31	.89	4.06	—	.28	.838	1-12	880 - 5,000	1200	600,000
Metric														
ACE-1005M	MC5M1-B	4.1	34.0	8.2	1.5	4.1	21.1	3.3	2.5	—	M5 x 0.5	.22 - 2.0	6	18,000
ACE-1009M1	MC9M1	5.0	36.0	10.0	2.0	5.0	21.1	4.7	2.5	—	M6 x 0.5	1.35 - 7.0	9	18,000
ACE-1009M2	MC9M2	5.0	36.0	10.0	2.0	5.0	21.1	4.7	2.5	—	M6 x 0.5	1.75 - 9.0	9	18,000
ACE-1010	MC10EL	5.0	38.6	10.0	2.0	6.4	21.1	—	4.8	—	M8 x 0.75	.75 - 6.0	11	35,000
ACE-1011	MC-10EH	5.0	38.6	10.0	2.0	6.4	21.1	—	4.8	—	M8 x 0.75	1.5 - 11	11	35,000
ACE-1025M	MC25M	6.6	57.7	14.5	3.3	8.4	33.0	7.6	5.0	—	M10 x 1	1.5 - 5.0	20	200,000
ACE-1026M	MC25MH	6.6	57.7	14.5	3.3	8.4	33.0	7.6	5.0	—	M10 x 1	4 - 12	20	200,000
ACE-1027M	MC25MH-NB	6.6	57.3	14.5	3.3	8.4	33.0	7.6	5.0	—	M10 x 1	10 - 30	20	200,000
ACE-1030M1	MC30M1	8.1	54.0	13.2	2.5	6.5	34.3	6.5	4.1	—	M8 x 1	1.0 - 4.3	31	50,000
ACE-1030M2	MC30M2	8.1	54.0	13.2	2.5	6.5	34.3	6.5	4.1	—	M8 x 1	3.97 - 11.9	31	50,000
ACE-1030M3	MC30M3	8.1	54.0	13.2	2.5	6.5	34.3	6.5	4.1	—	M8 x 1	11.02 - 33.0	31	50,000
ACE-1075M**	MC75M3-880	10.2	67.7	—	3.3	10.4	44.2	—	4.6	—	M12 x 1	6 - 80	75	250,000
ACE-1150M	MC150M	12.7	86.6	17.4	4.8	11.6	62.0	11.9	7.1	6.4	M14 x 1.5	2 - 22	175	300,000
ACE-1150ME	MC150ME	12.7	86.6	17.4	4.8	11.6	62.0	11.9	7.1	6.4	M14 x 1.5	2 - 22	175	300,000
ACE-1151M	MC150MH	12.7	86.6	17.4	4.8	11.6	62.0	11.9	7.1	6.4	M14 x 1.5	20 - 200	175	300,000
ACE-1152M	MC150MH2	12.7	86.6	17.4	4.8	11.6	62.0	11.9	7.1	6.4	M14 x 1.5	150 - 450	175	300,000
ACE-1225M	MC225M	12.7	96.8	17.6	6.3	16.7	72.1	16.7	7.1	8.0	M20 x 1.5	5 - 55	360	400,000
ACE-1227M	MC225MH2	12.7	96.8	17.6	6.3	16.7	72.1	16.7	7.1	8.0	M20 x 1.5	400 - 2,000	360	400,000
ACE-1600M	MC600M	25.4	141.8	30.9	7.9	22.7	103.1	23.0	7.1	9.6	M25 x 1.5	20 - 300	1,200	600,000
ACE-1601M	MC600MLH	25.4	141.8	30.9	7.9	22.7	103.1	23.0	7.1	9.6	M25 x 1.5	250 - 2,500	1,200	600,000

*Includes button
**880-No button, standard rod

Self-Compensating Hydraulic Series





Used with medical equipment, packaging machinery, air cylinders, turnstiles, and various other manufacturing applications. Standard corrosion resistant nickel plating. One hex jam nut included. Additional mounting accessories are available below. All have hydraulic stop at full stroke, therefore it is important to position the shock absorber such that full stroke is used to prevent undesirable bottoming against the positive stop.

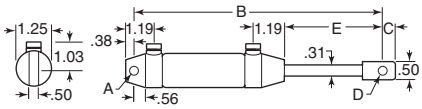
Item No.	Bore Size In.	Stroke inches	Max. In.-Lbs. Per Cycle	Max. In.-Lbs. Per Hour	Max. Shock Force Lbs.	Nominal Coil Spring Force Extension Lbs	Nominal Coil Spring Force Compression Lbs.	Impact Velocity In./Sec.	Total Energy In./Lbs.	Max. Propelling Force Lbs.	A	B	UNF C	D	E	F	G
ED-7A*	.18	.25	25	50,000	200	0.60	1.25	60-125	5-25	45	2.25	.38	3/8-32	.10	.27	1.61	.26
ED-7B*	.18	.25	25	50,000	200	0.60	1.25	25-110	5-25	45	2.25	.38	3/8-32	.10	.27	1.61	.26
ED-7C*	.18	.25	25	50,000	200	0.60	1.25	10-60	5-25	45	2.25	.38	3/8-32	.10	.27	1.61	.26
ED-8A	.28	.62	235	300,000	625	1.00	2.50	20-145	10-190	200	4.22	.47	1/2-20	.16	.44	3.20	.43
ED-8B	.28	.62	235	300,000	625	1.00	2.50	10-70	10-160	200	4.22	.47	1/2-20	.16	.44	3.20	.43
ED-9A	.28	.62	235	300,000	625	1.00	2.50	20-145	10-190	200	4.22	.47	9/16-18	.16	.44	3.20	.43
ED-9B	.28	.62	235	300,000	625	1.00	2.50	10-70	10-160	200	4.22	.47	9/16-18	.16	.44	3.20	.43
ED-10A	.44	.87	485	475,000	850	2.00	6.80	20-145	25-400	360	5.13	.47	3/4-16	.19	.50	3.76	.64
ED-10B	.44	.87	485	475,000	850	2.00	6.80	5-50	25-350	360	5.13	.47	3/4-16	.19	.50	3.76	.64
ED-11A	.50	1	800	622,000	1,250	3.00	6.00	10-145	20-140	500	5.57	.47	1-12	.25	.62	4.04	.89
ED-11B	.50	1	800	622,000	1,250	3.00lbs	6.00	10-35	5-40	500	5.57	.47	1-12	.25	.62	4.04	.89

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Hydraulic Speed/Feed Controllers

ACE





Item No.	Ace	Stroke	A	B	C	D	E	Tension		Compression	
								Maximum Propelling Force Lbs.	Minimum Force to Operate Through Full Stroke Lbs.	Maximum Propelling Force Lbs.	Minimum Force to Operate Through Full Stroke Lbs.
ACE-3200	DVC-2	2.00	.25	9.81	.25	.25	2.93	450	9.5	450	9.5
ACE-3400*	DVC-4	4.00	.25	13.81	.25	.25	4.93	450	–	375	–
ACE-3600*	DVC-6	6.00	.25	17.81	.25	.25	6.93	450	–	300	–

*External mechanical stops required

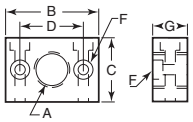
Mounting Blocks

ACE

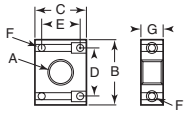




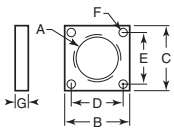




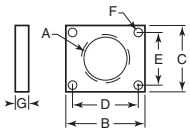
ACE-1, 2



ACE-3, 4, 5



ACE-7, 8



ACE-6, 9, 10

Item No.	Ace	A	B	C	D	E	F	G	Used With
ACE-1	250-0306	⅜-32	1.50	1.00	1.00	–	#8-32 Soc. Hd. Screw	.56	ACE-1024, 1025, 1026
ACE-2	250-0308	½-20	1.50	1.00	1.00	–	#8-32 Soc. Hd. Screw	.56	ACE-0035, 1075
ACE-3	250-0318	⅝-18	1.81	1.37	1.38	1.00	#10-32 Soc. Hd. Screw	.62	ACE-1150, 1151, 1152, 1901,1902, 1903, 1904
ACE-4	250-0401	¾-16	2.00	1.50	1.50	1.12	#10-32 Soc. Hd. Screw	.62	ACE-0225, 2225, 1225, 1226, 1227, 3001, 3002, 3003, 3004
ACE-5	250-0402	1-12	2.00	1.50	1.50	1.12	#10-32 Soc. Hd. Screw	.62	ACE-1600, 1601, 1602, 0600, 0900, 2600, 2900, 6501, 6502, 6503, 6504, 9251, 9252, 9253, 9254
ACE-6	250-0016	1¼-12	2.00	1.50	1.62	1.12	.219	.38	ACE-3325-1 thru 3350-4, 105, 107, 115
ACE-7	250-0023	1¾-12	2.25	2.25	1.62	1.62	.340	.50	ACE-4525-1 thru 4575-3, 109, 110, 111, 119, 120
ACE-8	250-0028	2½-12	3.50	3.50	2.75	2.75	.410	.62	ACE-6450-2, 112, 113, 121
ACE-9	250-0633	1⅜-12	2.00	1.75	1.62	1.12	.219	.38	ACE-106, 108, 116, 118
ACE-10	250-0024	1¾-12	3.00	2.25	2.38	1.62	.340	.50	ACE-4525-1 thru 4575-3, 107, 108, 111, 115

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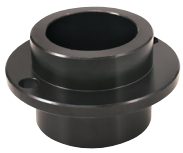


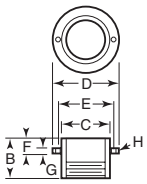


GAS/AIR SPRINGS, SHOCK ABSORBERS & ACCESSORIES

Flanged Stop Collars

ACE

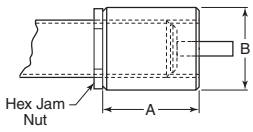




Item No.	Ace	Thread Size	B	C	D	F	G	H	Used With
ACE-45	250-0642	1¼-12	1.63	1.50	2.50	.88	.25	.282	ACE-3325-1 thru 3350-4, 115
ACE-46	250-0072	1¾-12	1.50	2.25	3.25	.88	.25	.282	ACE-4525-1 thru 4575-3, 119, 120

Stop Collars

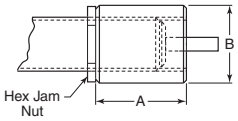




Item No.	A	B	Shock Absorber
ED-101	1.50	1.00	ED-10
ED-202	1.75	1.50	ED-11
ED-303	2.50	1.69	ED-3, ED-4

Stop Collars for Self-Compensating Hydraulic Series





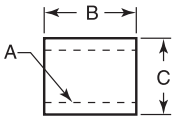
Item No.	A	B	Shock Absorber
ED-707*	.75	.58	ED-7
ED-808	1.00	.75	ED-8
ED-909	1.00	.69	ED-9
ED-101	1.50	1.00	ED-10
ED-202	1.75	1.50	ED-11

*Hex shape .50 across flats

Stop Collars

ACE

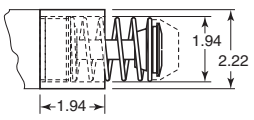




Item No.	Ace	A	B	C	Used With
ACE-11	250-0406	⅜-32	.81	.56	ACE-1024, 1025, 1026
ACE-12	250-0407	½-20	.81	.62	ACE-0035, 1075
ACE-13	250-0271	⁹⁄₁₆-18	.75	.69	ACE-1150, 1151, 1152, 1901, 1902, 1903, 1904
ACE-14	250-0403	¾-16	1.25	1.00	ACE-0225, 2225, 1225, 1226, 1227, 3001, 3002, 3003, 3004
ACE-15	250-0275	1-12	1.75	1.25	ACE-1600, 1601, 1602, 0600, 0900, 2600, 2900, 6501, 6502, 6503, 6504, 9251, 9252, 9253, 9254

Stop Collar



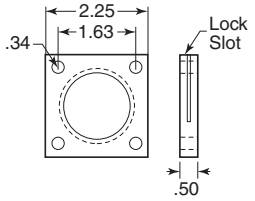


For use with shock absorbers shown above.

Item No.
ED-505

Square Flange

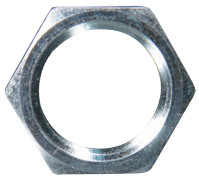


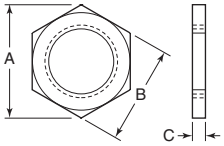


For use with shock absorbers shown above. Use 5⁄16" bolt.

Item No.	Shock Absorber
ED-600	ED-5, ED-6

Hex Jam Nuts for Self-Compensating Hydraulic Series



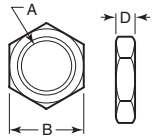


Item No.	A	B	C	Shock Absorber
ED-100	1.08	.94	.18	ED-1
ED-200	1.30	1.13	.18	ED-2R
ED-700	.58	.50	.09	ED-7
ED-800	.72	.63	.12	ED-8
ED-900	1.01	.88	.31	ED-9

Lock Nuts

ACE

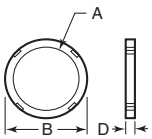




ACE-21-25



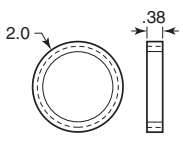
ACE-28-29



Item No.	Ace	A	B	D	Used With
ACE-21	250-0404	⅜-32	.50	.09	ACE-1024, 1025, 1026
ACE-22	250-0405	½-20	.62	.13	ACE-0035, 1075
ACE-23	250-0231	⁹⁄₁₆-18	.88	.31	ACE-1150, 1151, 1152, 1901, 1902, 1903, 1904
ACE-24	250-0399	¾-16	1.00	.25	ACE-0225, 2225, 1225, 1226, 1227, 3001, 3002, 3003, 3004
ACE-25	250-0400	1-12	1.25	.25	ACE-1600, 1601, 1602, 0600, 0900, 2600, 2900, 6501, 6502, 6503, 6504, 9251, 9252, 9253, 9254
ACE-28	250-0631	1⅜-12	—	.25	ACE-116, 118
ACE-29	250-0042	2½-12	—	.37	ACE-121

Lock Ring





For use with shock absorbers shown above.

Item No.	Shock Absorber
ED-500	ED-5, ED-6

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Reid Supply offers an extensive line of JW Winco products that provide a wide selection of operating parts for any manufacturing application.



T-Handle Knobs



Crank Handles



Pull Handles



Adjustable Tension Levers



Gear Levers



Eye Bolts



Index Plungers



Handwheels



Hand and Star Knobs

Shell Type Needle Roller Bearings

Shell type needle roller bearings are lightweight with the lowest sectional height among needle roller bearings with outer ring, because they employ a shell type outer ring made from a thin special-steel plate which is accurately drawn, carburized and quenched.

IKO Series BHA Inch

Series BHA are inch heavy duty series of shell type needle roller bearings with caged rollers.



Bearing



Inner Ring

Bearing	Inner Ring				Basic Load Rating (Lbs.)	
Item No.	Item No.	Inside Diameter	Outside Diameter	Width	Dynamic	Static
IKO-BHA57ZOH	—	5/16	9/16	7/16	4,150	3,730
IKO-BHA68ZOH	—	3/8	5/8	1/2	4,880	4,740
IKO-BHA78ZOH	—	7/16	11/16	1/2	5,680	5,970
IKO-BHA87ZOH	—	1/2	3/4	7/16	5,670	6,120
IKO-BHA98ZOH	IKO-IRB68	9/16	13/16	1/2	6,380	7,330
IKO-BHA108ZOH	IKO-IRB681	5/8	7/8	1/2	6,680	8,020
IKO-BHA1212ZOH	IKO-IRB8121	3/4	1 1/16	3/4	16,600	22,600
IKO-BHA1410ZOH	—	7/8	1 3/16	5/8	14,300	19,500
IKO-BHA168ZOH	IKO-IRB128	1	1 5/16	1/2	10,200	13,100
IKO-BHA1812ZOH	IKO-IRB1412	1 1/8	1 1/2	3/4	22,500	32,200
IKO-BHA2824ZOH	IKO-IRB2424	1 3/4	2 1/4	1 1/2	72,200	135,000

IKO Series BA Inch

Series BA are inch standard series of shell type needle roller bearings with caged rollers.



Bearing



Inner Ring

Bearing	Inner Ring				Basic Load Rating (Lbs.)	
Item No.	Item No.	Inside Diameter	Outside Diameter	Width	Dynamic	Static
IKO-BA44ZOH	—	1/4	7/16	1/4	1,770	1,390
IKO-BA55ZOH	—	5/16	1/2	5/16	1,880	1,560
IKO-BA65ZOH	—	3/8	9/16	5/16	2,220	2,010
IKO-BA76ZOH	—	7/16	5/8	3/8	3,290	3,470
IKO-BA85ZOH	—	1/2	11/16	5/16	2,490	2,510
IKO-BA95ZOH	—	9/16	3/4	5/16	2,760	2,970
IKO-BA108ZOH	IKO-IRB681	5/8	13/16	1/2	5,420	7,310
IKO-BA116ZOH	IKO-IRB86	11/16	7/8	3/8	4,530	5,980
IKO-BA126ZOH	—	3/4	1	3/8	5,040	5,850
IKO-BA136ZOH	—	13/16	1 1/16	3/8	5,230	6,300
IKO-BA146ZOH	—	7/8	1 1/8	3/8	5,430	6,740
IKO-BA158ZOH	—	15/16	1 3/16	1/2	8,000	11,400
IKO-BA166ZOH	—	1	1 1/4	3/8	6,010	8,020
IKO-BA1710ZOH	—	1 1/16	1 5/16	5/8	11,600	19,200
IKO-BA186ZOH	—	1 1/8	1 3/8	3/8	6,330	8,910
IKO-BA1910ZOH	—	1 3/16	1 1/2	5/8	15,000	22,500
IKO-BA218ZOH	—	1 5/16	1 5/8	1/2	11,100	15,800
IKO-BA228ZOH	IKO-IRB188	1 3/8	1 5/8	1/2	9,770	16,600
IKO-BA248ZOH	—	1 1/2	1 7/8	1/2	12,900	17,900
IKO-BA268ZOH	—	1 5/8	2	1/2	13,700	19,800
IKO-BA2812ZOH	—	1 3/4	2 1/8	3/4	25,200	44,500
IKO-BA308ZOH	IKO-IRB2481	1 7/8	2 1/4	1/2	14,700	22,800
IKO-BA328ZOH	—	2	2 3/8	1/2	15,400	24,700
IKO-BA348ZOH	—	2 1/8	2 1/2	1/2	16,100	26,600
IKO-BA3612ZOH	—	2 1/4	2 5/8	3/4	28,500	56,700
IKO-BA4216ZOH	IKO-IRB3616	2 5/8	3	1	42,000	97,900
IKO-BA4410ZOH	—	2 3/4	3 1/8	5/8	25,000	50,800

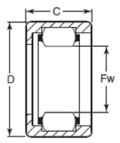
Tapered Roller Bearings Cup and Cone Sets



Item No.	Basic Load Rating (Lbs.)		Speed Rating (rpm)	
	Dynamic	Static	Grease	Oil
PRB-221	4,770	4,680	9,000	13,000
PRB-222	6,180	6,300	8,500	12,000
PRB-223	8,600	8,540	8,000	11,000
PRB-224	5,850	6,740	7,500	10,000
PRB-225	10,300	11,400	5,600	7,500
PRB-226	7,550	8,990	6,300	8,500
PRB-227	5,850	7,310	7,000	9,500
PRB-228	6,300	7,350	8,000	11,000
PRB-229	6,180	6,970	8,000	11,000
PRB-230	7,420	9,670	6,000	8,000
PRB-231	5,850	6,740	7,500	10,000
PRB-232	6,180	6,970	8,000	11,000
PRB-233	7,420	9,670	6,000	8,000

IKO
Series TA
Metric





Series TA are metric standard series of shell type needle roller bearings with caged rollers.

Bearing Item No.	Inner Ring Item No.	Inside Diameter Fw	Outside Diameter D	Width C	Basic Load Rating (Lbs.) Dynamic	Static
IKO-TA223016Z	IKO-IRT17162	22	30	16	13,200	18,200
IKO-TA2420Z	IKO-IRT2020	24	31	20	17,000	29,200
IKO-TA243216Z	IKO-IRT2016	24	32	16	14,200	20,500
IKO-TA2510Z	IKO-IRT20101	25	33	10	7,990	9,900
IKO-TA2616Z	IKO-IRT2216	26	34	16	15,200	22,900
IKO-TA2820Z	IKO-IRT22201	28	37	20	21,200	32,300
IKO-TA2920Z	IKO-IRT2520	29	38	20	22,000	34,200
IKO-TA3013Z	—	30	40	13	13,500	16,800
IKO-TA3220Z	IKO-IRT2820	32	42	20	25,400	38,600
IKO-TA35512Z	IKO-IRT3012	35	45	12	14,800	19,900
IKO-TA3720Z	IKO-IRT3220	37	47	20	27,800	45,400
IKO-TA3815Z	IKO-IRT32151	38	48	15	19,000	28,000
IKO-TA4015Z	IKO-IRT3515	40	50	15	19,500	29,400
IKO-TA4520Z	IKO-IRT4020	45	55	20	30,600	54,600
IKO-TA5012Z	IKO-IRT4512	50	62	12	17,700	24,000

IKO
Series TLA
Metric



Bearing



Inner Ring

Series TLA are metric standard series of shell type needle roller bearings with caged rollers.

Bearing Item No.	Inner Ring Item No.	Inside Diameter mm	Outside Diameter mm	Width mm	Basic Load Rating (Lbs.) Dynamic	Static
IKO-TLA910Z	—	9	13	10	3,500	4,040
IKO-TLA1010Z	IKO-IRT710	10	14	10	3,870	4,740
IKO-TLA1210Z	IKO-IRT810	12	16	10	4,350	5,810
IKO-TLA1312Z	IKO-IRT1012	13	19	12	6,760	8,170
IKO-TLA1412Z	IKO-IRT10122	14	20	12	7,080	8,840
IKO-TLA1512Z	IKO-IRT1212	15	21	12	7,380	9,520
IKO-TLA1612Z	IKO-IRT12121	16	22	12	7,670	10,200
IKO-TLA1712Z	—	17	23	12	7,960	10,900
IKO-TLA1812Z	IKO-IRT1512	18	24	12	8,230	11,500
IKO-TLA2012Z	—	20	26	12	8,740	12,900
IKO-TLA2212Z	—	22	28	12	9,230	14,300
IKO-TLA2512Z	—	25	32	12	9,440	13,900
IKO-TLA2816Z	—	28	35	16	13,800	23,500
IKO-TLA3012Z	—	30	37	12	10,400	16,600
IKO-TLA3512Z	IKO-IRT3012	35	42	12	11,600	20,000
IKO-TLA4012Z	—	40	47	12	12,400	22,800
IKO-TLA4516Z	—	45	52	16	17,800	37,800
IKO-TLA5020Z	IKO-IRT4520	50	58	20	28,800	64,100
IKO-TLA5520Z	IKO-IRT50201	55	63	20	29,800	69,400

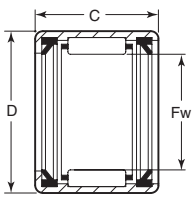
Shell Type Needle Roller Bearings

Shell type needle roller bearings are lightweight with the lowest sectional height among needle roller bearings with outer ring, because they employ a shell type outer ring made from a thin special-steel plate which is accurately drawn, carburized and quenched.

IKO
Series TLA UU
Metric



Bearing



Series TLA UU are metric standard series of shell type needle roller bearings with cages, rollers and double seals.

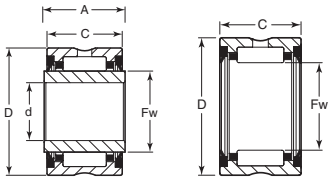
Item No.	Inside Diameter Fw	Outside Diameter D	Width C	Basic Load Rating (Lbs.) Dynamic	Static
IKO-TLA1216UU	12	18	16	6,420	7,490
IKO-TLA1416UU	14	20	16	7,080	8,840
IKO-TLA2016UU	20	26	16	8,740	12,900

Machined Type Needle Roller Bearings

Machined type needle roller bearings have an outer ring made by machining, heat treatment, and grinding. The outer ring has stable high rigidity and can be easily used even for light alloy housings. Series BR are inch standard series of machined type needle roller bearings with caged rollers.

IKO
Series (R)NA UU
Metric



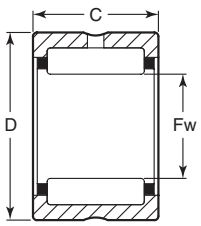


Series (R)NA UU are metric dimension 49 series of machine type needle roller bearings with caged rollers and double seals.

w/o Inner Ring		w/ Inner Ring						
Item No.	Inside Diameter d	Item No.	Inside Diameter d	Outside Diameter D	Width C	Width A	Dynamic Basic Load Rating (Lbs.)	Static Basic Load Rating (Lbs.)
IKO-RNA4900UU	14	IKO-NA4900UU	10	22	13	14	8,080	8,490
IKO-RNA4901UU	16	IKO-NA4901UU	12	24	13	14	8,470	9,320
IKO-RNA4902UU	20	IKO-NA4902UU	15	28	13	14	9,570	11,600
IKO-RNA4903UU	22	IKO-NA4903UU	17	30	13	14	10,300	13,100
IKO-RNA4904UU	25	IKO-NA4904UU	20	37	17	18	18,000	20,500
IKO-RNA4922UU	28	IKO-NA4922UU	22	39	17	18	18,300	23,700
IKO-RNA4905UU	30	IKO-NA4905UU	25	42	17	18	20,300	25,100
IKO-RNA4928UU	32	IKO-NA4928UU	28	45	17	18	21,000	26,800
IKO-RNA4906UU	35	IKO-NA4906UU	30	47	17	18	21,500	28,400
IKO-RNA4932UU	40	IKO-NA4932UU	32	52	20	21	29,400	44,200
IKO-RNA4907UU	42	IKO-NA4907UU	35	55	20	21	30,100	46,300
IKO-RNA4908UU	48	IKO-NA4908UU	40	62	22	23	37,200	58,400
IKO-RNA4909UU	52	IKO-NA4909UU	45	68	22	23	38,900	63,400
IKO-RNA4910UU	58	IKO-NA4910UU	50	72	22	23	41,300	71,100
IKO-RNA4911UU	63	IKO-NA4911UU	55	80	25	26	52,200	85,700
IKO-RNA4912UU	68	IKO-NA4912UU	60	85	25	26	54,500	92,800
IKO-RNA4913UU	72	IKO-NA4913UU	65	90	25	26	56,800	99,800
IKO-RNA4914UU	80	IKO-NA4914UU	70	100	30	31	76,900	143,000
IKO-RNA4915UU	85	IKO-NA4915UU	75	105	30	31	79,600	153,000
IKO-RNA4916UU	90	IKO-NA4916UU	80	110	30	31	80,700	158,000
IKO-RNA4917UU	100	IKO-NA4917UU	85	120	35	36	103,000	225,000

IKO
Series BR
Inch





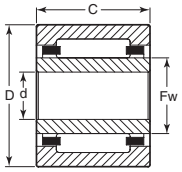
Bearing	Inner Ring	Inside Diameter	Outside Diameter	Width	Basic Load Rating (Lbs.)	
Item No.	Item No.	Fw	D	C	Dynamic	Static
IKO-BR101812	IKO-LRB61012	5/8	1 1/8	3/4	18,900	19,700
IKO-BR122012	IKO-LRB81212	3/4	1 1/4	3/4	21,700	24,400
IKO-BR122016	IKO-LRB81216	3/4	1 1/4	1	27,600	33,100
IKO-BR142212	IKO-LRB101412	7/8	1 3/8	3/4	23,000	27,100
IKO-BR142216	IKO-LRB101416	7/8	1 3/8	1	29,100	36,800
IKO-BR162416	—	1	1 1/2	1	32,100	42,300
IKO-BR182616	IKO-LRB141816	1 1/8	1 5/8	1	34,900	49,900
IKO-BR182620	IKO-LRB141820	1 1/8	1 5/8	1 1/4	43,200	65,600
IKO-BR202816	IKO-LRB162016	1 1/4	1 3/4	1	36,000	53,500
IKO-BR202820	IKO-LRB162020	1 1/4	1 3/4	1 1/4	44,600	70,300
IKO-BR223016	IKO-LRB182216	1 3/8	1 7/8	1	38,500	60,000
IKO-BR223020	IKO-LRB182220	1 3/8	1 7/8	1 1/4	47,700	78,900
IKO-BR243316	IKO-LRB202416	1 1/2	2 1/16	1	43,700	66,900
IKO-BR243320	IKO-LRB202420	1 1/2	2 1/16	1 1/4	54,200	88,200
IKO-BR263516	IKO-LRB222616	1 5/8	2 3/16	1	44,800	70,900
IKO-BR263520	IKO-LRB222620	1 5/8	2 3/16	1 1/4	55,600	93,400
IKO-BR283716	—	1 3/4	2 5/16	1	47,500	78,200
IKO-BR283720	—	1 3/4	2 5/16	1 1/4	58,900	103,000
IKO-BR283820	—	1 3/4	2 3/8	1 1/4	58,900	103,000
IKO-BR303920	IKO-LRB243020	1 7/8	2 1/16	1 1/4	60,100	108,000
IKO-BR324116	IKO-LRB263216	2	2 3/16	1	51,000	89,400
IKO-BR324120	IKO-LRB263220	2	2 3/16	1 1/4	63,200	118,000
IKO-BR364824	IKO-LRB283624	2 1/4	3	1 1/2	90,300	158,000
IKO-BR364828	IKO-LRB283628	2 1/4	3	1 3/4	10,500	191,000
IKO-BR405224	IKO-LRB324024	2 1/2	3 1/4	1 1/2	94,600	174,000
IKO-BR405228	IKO-LRB324028	2 1/2	3 1/4	1 3/4	110,000	210,000
IKO-BR445624	IKO-LRB364424	2 3/4	3 1/2	1 1/2	98,700	189,000
IKO-BR445628	IKO-LRB364428	2 3/4	3 1/2	1 3/4	114,000	228,000
IKO-BR486024	IKO-LRB404824	3	3 3/4	1 1/2	10,500	211,000
IKO-BR486028	IKO-LRB404828	3	3 3/4	1 3/4	122,000	255,000
IKO-BR526828	IKO-LRB445228	3 1/4	4 1/4	1 3/4	141,000	259,000
IKO-BR526832	IKO-LRB445232	3 1/4	4 1/4	2	154,000	290,000
IKO-BR567232	IKO-LRB485632	3 1/2	4 1/2	2	162,000	316,000
IKO-BR607632	IKO-LRB526032	3 3/4	4 3/4	2	169,000	342,000
IKO-BR648032	IKO-LRB566432	4	5	2	176,000	368,000

Machined Type Needle Roller Bearings

Machined type needle roller bearings have an outer ring made by machining, heat treatment, and grinding. The outer ring has stable high rigidity and can be easily used even for light alloy housings. Series BR are inch standard series of machined type needle roller bearings with caged rollers.

IKO
Series TAF(I)
Metric



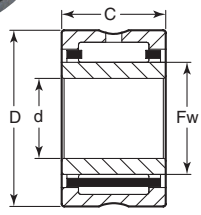


Series TAF(I) are metric light duty series of machined type needle roller bearings with caged rollers.

w/ Inner Ring		w/o Inner Ring					
Item No.	Inside Diameter mm d	Item No.	Inside Diameter mm d	Outside Diameter mm D	Width mm C	Dynamic Basic Load Rating (Lbs.)	Static Basic Load Rating (Lbs.)
IKO-TAFI51512	5	IKO-TAF81512	8	15	12	5,060	4,690
IKO-TAFI51516	5	IKO-TAF81516	8	15	16	7,080	7,220
IKO-TAFI61612	6	IKO-TAF91612	9	16	12	5,490	5,330
IKO-TAFI61616	6	IKO-TAF91616	9	16	16	7,680	8,210
IKO-TAFI71712	7	IKO-TAF101712	10	17	12	5,880	5,970
IKO-TAFI71716	7	IKO-TAF101716	10	17	16	8,230	9,190
IKO-TAFI91912	9	IKO-TAF121912	12	19	12	6,610	7,260
IKO-TAFI91916	9	IKO-TAF121916	12	19	16	9,250	11,200
IKO-TAFI102216	10	IKO-TAF142216	14	22	16	11,700	13,700
IKO-TAFI102220	10	IKO-TAF142220	14	22	20	14,800	18,600
—	—	IKO-TAF152316	15	23	16	12,300	14,900
—	—	IKO-TAF152320	15	23	20	15,600	20,200
IKO-TAFI122416	12	IKO-TAF162416	16	24	16	12,300	15,100
IKO-TAFI122420	12	IKO-TAF162420	16	24	20	15,500	20,400
—	—	IKO-TAF172516	17	25	16	12,900	16,300
—	—	IKO-TAF172520	17	25	20	16,300	22,000
—	—	IKO-TAF182616	18	26	16	13,400	17,500
—	—	IKO-TAF182620	18	26	20	17,000	23,600
IKO-TAFI152716	15	IKO-TAF192716	19	27	16	14,000	18,700
IKO-TAFI152720	15	IKO-TAF192720	19	27	20	17,700	25,300
—	—	IKO-TAF202816	20	28	16	13,900	18,800
—	—	IKO-TAF202820	20	28	20	17,600	25,400
IKO-TAFI172916	17	IKO-TAF212916	21	29	16	14,400	20,000
IKO-TAFI172920	17	IKO-TAF212920	21	29	20	18,200	27,100
—	—	IKO-TAF223016	22	30	16	14,900	21,200
—	—	IKO-TAF223020	22	30	20	18,900	28,700
IKO-TAFI203216	20	IKO-TAF243216	24	32	16	15,300	22,500
IKO-TAFI203220	20	IKO-TAF243220	24	32	20	19,400	30,500
—	—	IKO-TAF253316	25	33	16	15,800	23,700
—	—	IKO-TAF253320	25	33	20	20,000	32,100
IKO-TAFI223416	22	IKO-TAF263416	26	34	16	16,300	24,900
IKO-TAFI223420	22	IKO-TAF263420	26	34	20	20,600	33,800
—	—	IKO-TAF283720	28	37	20	21,700	37,100
—	—	IKO-TAF283730	28	37	30	31,100	58,900
IKO-TAFI253820	25	IKO-TAF293820	29	38	20	21,600	37,200
IKO-TAFI253830	25	IKO-TAF293830	29	38	30	30,900	59,100
—	—	IKO-TAF304020	30	40	20	25,100	40,100
—	—	IKO-TAF304030	30	40	30	36,000	63,900
IKO-TAFI284220	28	IKO-TAF324220	32	42	20	25,700	42,200
IKO-TAFI284230	28	IKO-TAF324230	32	42	30	36,800	67,200
IKO-TAFI304520	30	IKO-TAF354520	35	45	20	26,900	46,200
IKO-TAFI304530	30	IKO-TAF354530	35	45	30	38,600	73,600
IKO-TAFI324720	32	IKO-TAF374720	37	47	20	28,200	50,100
IKO-TAFI324730	32	IKO-TAF374730	37	47	30	40,500	79,800
—	—	IKO-TAF384820	38	48	20	28,100	50,200
—	—	IKO-TAF384830	38	48	30	40,300	80,000
IKO-TAFI355020	35	IKO-TAF405020	40	50	20	29,400	54,100
IKO-TAFI355030	35	IKO-TAF405030	40	50	30	42,300	86,200
—	—	IKO-TAF425220	42	52	20	29,900	56,200
—	—	IKO-TAF425230	42	52	30	43,000	89,400
IKO-TAFI385320	38	IKO-TAF435320	43	53	20	30,500	58,200
IKO-TAFI385330	38	IKO-TAF435330	43	53	30	43,800	92,600
IKO-TAFI405520	40	IKO-TAF455520	45	55	20	31,000	60,200
IKO-TAFI405530	40	IKO-TAF455530	45	55	30	44,600	95,800
IKO-TAFI425720	42	IKO-TAF475720	47	57	20	31,500	62,200
IKO-TAFI425730	42	IKO-TAF475730	47	57	30	45,200	99,100
IKO-TAFI456225	45	IKO-TAF506225	50	62	25	43,000	85,300
IKO-TAFI456235	45	IKO-TAF506235	50	62	35	58,000	125,000
IKO-TAFI506825	50	IKO-TAF556825	55	68	25	45,400	94,000
IKO-TAFI506835	50	IKO-TAF556835	55	68	35	61,200	138,000

IKO
Series (R)NA
Metric





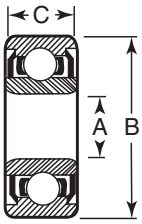
Series (R)NA are metric standard duty series of machined type needle roller bearings with caged rollers.

w/ Inner Ring		w/o Inner Ring					
Item No.	Inside Diameter mm d	Item No.	Inside Diameter mm d	Outside Diameter mm D	Width mm C	Dynamic Basic Load Rating (Lbs.	Static Basic Load Rating (Lbs.)
IKO-NA498	8	IKO-RNA498	10	19	11	6,180	5,030
IKO-NA499	9	IKO-RNA499	12	20	11	6,600	6,310
IKO-NA4900	10	IKO-RNA4900	14	22	13	9,230	10,100
IKO-NA4901	12	IKO-RNA4901	16	24	13	9,660	11,100
IKO-NA4902	15	IKO-RNA4902	20	28	13	10,900	13,800
IKO-NA4903	17	IKO-RNA4903	22	30	13	11,700	15,600
IKO-NA4904	20	IKO-RNA4904	25	37	17	21,000	25,000
IKO-NA4922	22	IKO-RNA4922	28	39	17	21,400	28,900
IKO-NA4905	25	IKO-RNA4905	30	42	17	23,700	30,700
IKO-NA4928	28	IKO-RNA4928	32	45	17	24,500	32,700
IKO-NA4906	30	IKO-RNA4906	35	47	17	25,200	34,700
IKO-NA4932	32	IKO-RNA4932	40	52	20	31,200	47,800
IKO-NA4907	35	IKO-RNA4907	42	55	20	32,000	50,100
IKO-NA4908	40	IKO-RNA4908	48	62	22	41,600	67,400
IKO-NA4909	45	IKO-RNA4909	52	68	22	43,500	73,300
IKO-NA4910	50	IKO-RNA4910	58	72	22	46,200	82,100

ROLLER BEARINGS, BALL BEARINGS & ACCESSORIES

Dynaroll
Standard and Standard Extended Inner Rings
Inch





Bearings are made of 440C stainless steel and are corrosion, fatigue and wear resistant. Temperature range is -70 degrees Fahrenheit to 350 degrees Fahrenheit. Bearings have steel shields. Applications include idler pulleys, small gear trains, pumps tape guides, synchros and servos. These bearings meet or exceed ABEC 5 tolerances. Radial clearance is .0002/.0005". All extended inner ring bearings are .031" wider than C dimension on inner ring.

Standard		Standard Extended					Dynamic Load Rating	
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	A	B	C	Lbs.	Max. rpm
DMB-1	SR0ZZ A5	—	—	.0469	.1562	.0937	31	120,000
DMB-2	SR1ZZ A5	—	—	.0550	.1875	.1094	52	110,000
DMB-3	SRI-4ZZ A5	DMB-36	SRW1-4ZZ A5	.0781	.2500	.1406	70	80,000
DMB-4	SR133ZZ A5	DMB-37	SRW133ZZ A5	.0937	.1875	.0937	43	95,000
DMB-5	SRI-5ZZ A5	DMB-38	SRW1-5ZZ A5	.0937	.3125	.1406	124	71,000
DMB-6	SRI144ZZ A5	DMB-39	SRW144ZZ A5	.1250	.2500	.1094	64	80,000
DMB-7	SR2-5ZZ A5	DMB-40		.1250	.3125	.1406	124	71,000
DMB-8	SR2-6ZZ A5	DMB-41	SRW2-6ZZ A5	.1250	.3750	.1406	144	63,000
DMB-9	RS2ZZ A5	DMB-42	SRW2ZZ A5	.1250	.3750	.1562	144	63,000
DMB-10	SR2AZZ A5	—	—	.1250	.5000	.1719	144	63,000
DMB-11	SR155ZZ A5	DMB-43	SRW155ZZ A5	.1562	.3125	.1250	81	63,000
DMB-12	SR156ZZ A5	DMB-44	SRW156ZZ A5	.1875	.3125	.1250	81	63,000
DMB-13	SR166ZZ A5	DMB-45	SRW166ZZ A5	.1875	.3750	.1250	160	60,000
DMB-14	SR3ZZ A5	DMB-46	SRW3ZZ A5	.1875	.5000	.1960	293	50,000
DMB-15	SR168ZZ A5	DMB-47	SRW168ZZ A5	.2500	.3750	.1250	84	56,000
DMB-16	SR188ZZ A5	DMB-48	SRW188ZZ A5	.2500	.5000	.1875	243	50,000
DMB-17	SR4ZZ A5	DMB-49	SRW4ZZ A5	.2500	.6250	.1960	335	45,000
DMB-18	SR1810ZZ A5	DMB-50	SRW1810ZZ A5	.3125	.5000	.1562	122	48,000
DMB-98	SR4AZZ A5	—	—	.2500	.7500	.2812	524	43,000
DMB-99	SR6ZZ A5	—	—	.3750	.8750	.2812	748	38,000
DMB-100	SR8ZZ	—	—	.5000	1.1250	.3125	880	20,000

Note: Extended inner ring bearings are .031 wider than C dimension on inner ring.

Dynaroll
Standard
Extra Thin
Inch

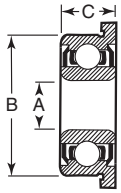
Item No.	Mfg's Part No.	A	B	C	Dynamic Load Rating Lbs.	Max rpm
DMB-101	SR620ZZ A5	.3750	.6250	.1562	93	30,000
DMB-102	SR824ZZ A5	.5000	.7500	.1562	108	24,000
DMB-103	SR1028ZZ A5	.6250	.8750	.1562	112	20,000
DMB-104	SR1232ZZ A5	.7500	1.0000	.1562	123	16,000

Dynaroll
Standard
Metric

Item No.	Mfg's Part No.	A	B	C	Dynamic Load Rating Lbs.	Max rpm
DMB-62	SMR104ZZ A5	4	10	4.0	60	56,000
DMB-63	694HZZ A5	4	11	4.0	98	53,000
DMB-64	604HZZ A5	4	12	4.0	98	53,000
DMB-65	624HZZ A5	4	13	5.0	133	48,000
DMB-66	SMR85ZZ A5	5	8	2.5	31	63,000
DMB-67	SMR95ZZ A5	5	9	3.0	44	60,000
DMB-68	SMR105ZZ A5	5	10	4.0	44	60,000
DMB-69	SMR115ZZ A5	5	11	4.0	73	53,000
DMB-70	695HZZ A5	5	13	4.0	110	50,000
DMB-71	605ZZ A5	5	14	5.0	135	48,000
DMB-72	SMR106ZZ A5	6	10	3.0	51	53,000
DMB-73	SMR126ZZ A5	6	12	4.0	73	50,000
DMB-74	686HZZ A5	6	13	5.0	110	48,000
DMB-75	687HZZ A5	7	14	5.0	120	45,000
DMB-76	SMR128ZZ A5	8	12	3.5	56	48,000
DMB-77	SMR148ZZ A5	8	14	4.0	83	45,000
DMB-78	688HZZ A5	8	16	5.0	128	43,000
DMB-79	689HZZ A5	9	17	5.0	136	43,000

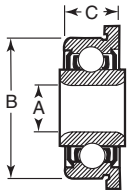
Dynaroll
Flanged and Flanged Extended Inner Rings
Inch





Flanged





Flanged Extended Inner Ring

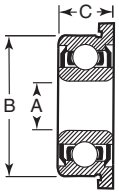
Bearings are made of 440C stainless steel and are corrosion, fatigue and wear resistant. Temperature range is -70 degrees Fahrenheit to 350 degrees Fahrenheit. Bearings have steel shields. Applications include idler pulleys, small gear trains, pumps tape guides, synchros and servos. These bearings meet or exceed ABEC 5 tolerances. Radial clearance is .0002/.0005". All extended inner ring bearings are .031" wider than C dimension on inner ring.

Flanged	Flanged Extended						Dynamic Load Rating	
Item No.	Item No.	Flange OD	Flange Thickness	A	B	C	Lbs.	Max rpm
DMB-20	—	.234	.031	.0550	.1875	.1094	52	110,000
DMB-21	—	.296	.031	.0781	.2500	.1406	70	80,000
DMB-22	DMB-51	.294	.031	.0937	.1875	.0937	43	95,000
DMB-24	DMB-52	.296	.031	.1250	.2500	.1094	64	80,000
DMB-26	DMB-54	.422	.031	.1250	.3750	.1406	144	63,000
DMB-25	DMB-53	.359	.031	.1250	.3125	.1406	124	71,000
DMB-27	DMB-55	.440	.030	.1250	.3750	.1562	144	63,000
DMB-29	DMB-57	.359	.036	.1875	.3125	.1250	81	63,000
DMB-30	DMB-58	.422	.031	.1875	.3750	.1250	160	60,000
DMB-31	—	.565	.042	.1875	.5000	.1960	293	50,000
DMB-32	DMB-59	.422	.036	.2500	.3750	.1250	84	56,000
DMB-33	DMB-60	.547	.045	.2500	.5000	.1875	243	50,000
DMB-34	—	.690	.042	.2500	.6250	.1960	335	45,000
DMB-35	DMB-61	.547	.031	.3125	.5000	.1562	122	48,000

Note: Extended inner ring bearings are .031 wider than C dimension on inner ring.

Dynaroll
Flanged
Metric





Flanged

Bearings are made of 440C stainless steel and are corrosion, fatigue and wear resistant. Temperature range is -70 degrees Fahrenheit to 350 degrees Fahrenheit. Bearings have steel shields. Applications include idler pulleys, small gear trains, pumps tape guides, synchros and servos. These bearings meet or exceed P5 (ISO) for metric bearings.

Item No.	A	B	C	Flange OD	Flange Thickness	Dynamic Load Rating Lbs.	Max. rpm
DMB-80	4	10	4.0	11.6	.8	60	56,000
DMB-81	4	11	4.0	12.5	1.0	98	53,000
DMB-82	4	12	4.0	13.5	1.0	98	53,000
DMB-83	4	13	5.0	15.0	1.0	133	48,000
DMB-84	5	8	2.5	9.2	.6	31	63,000
DMB-85	5	9	3.0	10.2	.6	44	60,000
DMB-86	5	10	4.0	11.6	.8	44	60,000
DMB-87	5	11	4.0	12.6	.8	73	53,000
DMB-88	5	13	4.0	15.0	1.0	110	50,000
DMB-89	5	14	5.0	16.0	1.0	135	48,000
DMB-90	6	10	3.0	11.2	.6	51	53,000
DMB-91	6	12	4.0	13.6	.8	73	50,000
DMB-92	6	13	5.0	15.0	1.1	110	48,000
DMB-93	7	14	5.0	16.0	1.1	120	45,000
DMB-94	8	12	3.5	13.6	.8	56	48,000
DMB-95	8	14	4.0	15.6	.8	83	45,000
DMB-96	8	16	5.0	18.0	1.1	128	43,000
DMB-97	9	17	5.0	19.0	1.1	136	43,000

Customer Service: (800) 253-0421 • (231) 777-3951

Reid SUPPLY AN ESSENTRA COMPANY

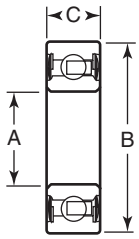
Nice® Ball Bearings



Double Sealed



Double Shield



Precision ground on all contact surfaces. Careful heat treatment provides a uniform and exact degree of hardness for maximum life. A ball retainer is used to increase the range of allowable speeds by reducing ball-to-ball contact friction. Bearings are supplied grease packed. Recommended for medium loads and for maximum speeds in the range of 5,000 rpm. ID and OD tolerances are +.0000/-.0005". Width tolerance is +.0000/-.005".

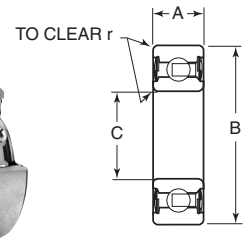
Double Sealed Item No.	Double Shielded Item No.	A	B	C	Dynamic Load Capacity	Static Load Capacity
SKF-1603DC*	SKF-1603DS	.3125	.8750	.2813	644	255
SKF-1604DC*	—	.3750	.8750	.3438	644	255
SKF-1605DC	SKF-1605DS	.3125	.9063	.3125	698	300
SKF-1606DC	SKF-1606DS	.3750	.9063	.3125	698	300
SKF-1607DC	SKF-1607DS	.4375	.9063	.3125	698	300
SKF-1614DC	SKF-1614DS	.3750	1.1250	.3750	1,200	475
SKF-1615DC	SKF-1615DS	.4375	1.1250	.3750	1,200	475
SKF-1616DC	SKF-1616DS	.5000	1.1250	.3750	1,200	475
SKF-1621DC	SKF-1621DS	.5000	1.3750	.4375	1,878	850
SKF-1623DC	SKF-1623DS	.6250	1.3750	.4375	1,878	850
SKF-1628DC	SKF-1628DS	.6250	1.6250	.5000	2,600	1,010
SKF-1630DC	SKF-1630DS	.7500	1.6250	.5000	2,600	1,010
SKF-1633DC	SKF-1633DS	.6250	1.7500	.5000	2,600	1,025
SKF-1635DC	SKF-1635DS	.7500	1.7500	.5000	2,600	1,025
SKF-1638DC**	SKF-1638DS	.7500	2.0000	.5625	2,967	1,350
SKF-1640DC**	SKF-1640DS	.8750	2.0000	.5625	2,967	1,350
SKF-1641DC**	SKF-1641DS	1.0000	2.0000	.5625	2,967	1,350
SKF-1652DC***	SKF-1652DS	1.1250	2.5000	.6250	3,864	2,120
SKF-1654DC***	SKF-1654DS	1.2500	2.5000	.6250	3,864	2,120
SKF-1657DC***	SKF-1657DS	1.2500	2.5625	.6875	5,360	2,620
—	SKF-1604DS	.3750	.8750	.2813	644	255

*Width is .3438"
**OD Tolerance +.0000/-.0006
***Multi-part seals. OD Tolerance +.0000/-.0006

Semi-ground Radial Bearings







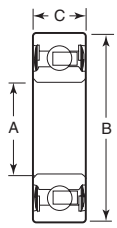
Precision ground on all contact surfaces except bore. A ball retainer, or separator, is employed to increase the range of allowable speeds by reducing ball contact friction. This series of radial bearing is available open, double shielded or double sealed. The double shielded and double sealed bearings are grease packed as standard. Recommended for lighter loads and maximum speeds in the range of 3,000 rpm. ID tolerance is +.005/-.000, OD tolerance is +.0000/-.0005 and width tolerance is +.0000/-.005.

Double Sealed Item No.	Double Shielded Item No.	A	B	C	r	Dynamic Load Capacity	Static Load Capacity
SKF-9215*	SKF-9270	.2500	.6875	.2500	.035	255	170
—	SKF-9275	.2813	.8750	.3750	.035	325	255
SKF-9225	SKF-9285	.3750	1.1250	.5000	.035	600	475
SKF-9220	SKF-9280	.3750	1.1250	.3750	.035	600	475
SKF-9235	SKF-9295	.4375	1.3750	.6250	.035	940	850
SKF-9230	SKF-9290	.4375	1.3750	.5000	.035	940	850
SKF-9245	SKF-9305	.5000	1.6250	.7500	.035	1,300	1,010
SKF-9250**	SKF-9310	.5000	1.7500	.7500	.035	1,300	1,025
SKF-9240	SKF-9300	.5000	1.6250	.6250	.035	1,300	1,010
SKF-9265**	SKF-9320	.5625	2.0000	1.0000	.035	1,480	1,350
SKF-9255**	SKF-9315	.5625	2.0000	.7500	.035	1,480	1,350

*Multi-part seal; Width is 0.3125
**OD tolerance +.0000/-.0006

1600 Series Inch





Designed to be dimensionally interchangeable with standard domestic inch series bearings. By using 52100 steel and holding dimensions to ABEC 1 tolerances, this series offers economy with electric motor quality. Close tolerance and improved ball complement allow an increased load capacity. This series is available with shields and seals. Metric dimensions are in millimeters.

Double Sealed Item No.	Double Shielded Item No.	A	B	C	Dynamic Load Capacity	Static Load Capacity
PRB-267	PRB-287	.3125	.8750	.3437	644	255
PRB-268	PRB-288	.3750	.8750	.3437	644	255
PRB-269	PRB-289	.3125	.9063	.3125	698	300
PRB-270	PRB-290	.3750	.9063	.3125	698	300
PRB-271	PRB-291	.4375	.9063	.3125	698	300
PRB-272	PRB-292	.3750	1.1250	.3750	1,200	475
PRB-273	PRB-293	.4375	1.1250	.3750	1,200	475
PRB-274	PRB-294	.5000	1.1250	.3750	1,200	475
PRB-275	PRB-295	.5000	1.3750	.4375	1,878	850
PRB-276	PRB-296	.6250	1.3750	.4375	1,878	850
PRB-277	PRB-297	.6250	1.6250	.5000	2,600	1,010
PRB-278	PRB-298	.7500	1.6250	.5000	2,600	1,010
PRB-279	—	.6250	1.7500	.5000	2,600	1,025
PRB-280	PRB-300	.7500	1.7500	.5000	2,600	1,025
PRB-281	—	.7500	2.0000	.5625	2,967	1,350
PRB-282	PRB-302	.8750	2.0000	.5625	2,967	1,350
PRB-283	PRB-303	1.0000	2.0000	.5625	2,967	1,350
PRB-284	—	1.1250	2.5000	.6250	3,864	2,120
PRB-285	PRB-305	1.2500	2.5000	.6250	3,864	2,120
—	PRB-299	.7500	1.6250	.5000	2,600	1,010
—	PRB-301	.7500	2.0000	.5625	2,697	1,350
—	PRB-304	1.1250	2.5000	.8250	3,864	2,120

ROLLER BEARINGS, BALL BEARINGS & ACCESSORIES

Double Shielded Metric



Item No.	A	B	C	Basic Load Rating lbs. Dynamic	Basic Load Rating lbs. Static	Speed Rating rpm Grease	Speed Rating rpm Oil	Bearing No.
PRB-245	10	30	9	1,140	531	24,000	30,000	6200-ZZ-C3
PRB-246	12	32	10	1,550	697	22,000	28,000	6201-ZZ-C3
PRB-248	17	40	12	2,150	1,070	17,000	20,000	6203-ZZ-C3
PRB-249	20	47	14	2,860	1,470	15,000	18,000	6204-ZZ-C3
PRB-250	25	52	15	3,150	1,750	12,000	15,000	6205-ZZ-C3
PRB-251	30	62	16	4,380	2,520	10,000	13,000	6206-ZZ-C3
PRB-252	35	72	17	5,730	3,440	9,000	11,000	6207-ZZ-C3
PRB-253	40	80	18	6,900	4,270	8,500	10,000	6208-ZZ-C3
PRB-254	45	85	19	7,460	4,860	7,500	9,000	6209-ZZ-C3
PRB-255	50	90	20	7,890	5,220	7,000	8,500	6210-ZZ-C3

Select "R" Series Double Shielded Inch



Item No.	A	B	C	Bearing No.
PRB-19	1/8	3/8	5/32	77R2
PRB-20	3/16	1/2	.196	77R3
PRB-21	1/4	3/4	9/32	77R4A
PRB-22	3/8	7/8	9/32	77R6
PRB-23	1/2	1 1/8	5/16	77R8
PRB-24	5/8	1 3/8	11/32	77R10
PRB-25	3/4	1 5/8	7/16	77R12
PRB-26	7/8	1 7/8	1/2	77R14
PRB-27	1	2	1/2	77R16

Stainless Steel Inch and Metric



Item No.	A	B	C	Max. rpm No Load	Load Capacity Lbs. Dynamic	Load Capacity Lbs. Static	Bearing No.
Inch							
PRB-2	3/8	7/8	7/32	1,600	126	99	SS77R6
PRB-3	1/2	1 1/8	1/4	1,142	165	129	SS77R8
PRB-6	1	2	1/2	729	276	183	SS77R16
Metric							
PRB-8	15	32	9	1,142	165	128	SS6002
PRB-9	17	35	10	1,069	207	138	SS6003
PRB-10	17	40	12	1,069	207	138	SS6203

Shield Metric Series Double Shielded Metric



Item No.	A	B	C	Bearing Designation
PRB-58	8	22	7	608
PRB-59	10	26	8	6000
PRB-60	12	28	8	6001
PRB-61	15	32	9	6002
PRB-62	17	35	10	6003
PRB-63	20	42	12	6004
PRB-64	25	47	12	6005
PRB-65	30	55	13	6006
PRB-73	25	52	15	6300
PRB-74	12	37	12	6301
PRB-75	15	42	13	6302
PRB-76	17	47	14	6303
PRB-77	20	52	15	6304
PRB-78	25	62	17	6305

Shield Metric Series Double Sealed Metric



Item No.	A	B	C	Bearing Designation
PRB-79	8	22	7	608
PRB-80	10	26	8	6000
PRB-81	12	28	8	6001
PRB-82	15	32	9	6002
PRB-83	17	35	10	6003
PRB-84	20	42	12	6004
PRB-85	25	47	12	6005
PRB-86	30	55	13	6006
PRB-94	10	35	11	6300
PRB-95	12	37	12	6301
PRB-96	15	42	13	6302
PRB-97	17	7	14	6303
PRB-98	20	52	15	6304
PRB-99	25	62	17	6305

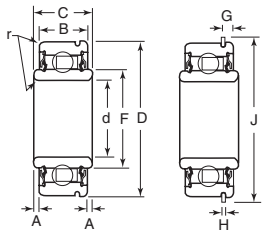
NOBODY WILL SERVE THE **CUSTOMER BETTER.**

Precision ground on all contact surfaces. Recommended for applications requiring the accuracy of rotation and quiet performance of close tolerance precision grab bearings, and where superior seal is required to retain lubricant and keep the bearing free from dust and dirt. Double sealed bearings are greased packed as standard. Nylon cage design. Use for medium loads and for maximum speeds in the range of 6,000 rpm. ID and OD tolerance area is +.0000/-.0005". Width tolerance is +.000/-.005".

Heavy Duty Precision Ground Radial Bearings







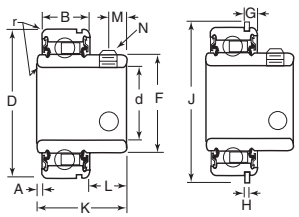
Item No.	Principal Dimensions: +.0000 -.0005 Bore d (In.)	+.0000 -.0005 OD D (In.)	+.0000 -.0005 Outer Width B (In.)	A (In.)	+.0000 -.0005 Inner Width C (In.)	F (In.)	+.001 -.005 G (In.)	H (In.)	J (In.)	Radius (In.)	Basic Load Ratings: Weight (Lbs.)	Dynamic (Lbs.)	Static (Lbs.)	Abutment and Fillet Dimensions: min (In.)	Max. (In.)	r Max. (In.)
SKF-9125*	.500	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.330	2,595	1,010	.750	1.500	.035
SKF-9130	.500	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.330	2,595	1,010	.750	1.500	.035
SKF-9135*	.625	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.290	2,595	1,010	.875	1.500	.035
SKF-9140	.625	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.290	2,595	1,010	.875	1.500	.035
SKF-9145*	.750	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.310	2,595	1,010	1.000	1.500	.035
SKF-9150	.750	1.7500	.625	.0625	.750	1.009	.136	.042	1.9219	.035	.310	2,595	1,010	1.000	1.500	.035
SKF-9155***	1.000	2.0000	.625	.0625	.750	1.306	.136	.042	2.1563	.035	.330	2,970	1,350	1.250	1.750	.035
SKF-9160**	1.000	2.0000	.625	.0625	.750	1.306	.136	.042	2.1563	.035	.330	2,970	1,350	1.250	1.750	.035
SKF-9165***	1.250	2.5625	.750	.0625	.875	1.675	.190	.065	2.7656	.035	.565	5,360	2,620	1.500	2.312	.035
SKF-9170**	1.250	2.5625	.750	.0625	.875	1.675	.190	.065	2.7656	.035	.565	5,360	2,620	1.500	2.312	.035

*Snap ring in the groove
**OD tolerance is +.0000/-.0006
***Snap ring in the groove and OD tolerance is +.0000/-.0006

Heavy Duty Precision Ground Radial Bearings with Extended Inner Ring







Item No.	Principal Dimensions: +.0000 -.0005 Bore d (In.)	+.0000 -.0005 OD D (In.)	+.0000 -.0005 Outer Width B (In.)	A (In.)	F (In.)	+.005 -.005 G (In.)	H (In.)	J (In.)	+.0000 -.0005 Inner Width K (In.)	L (In.)	M (In.)	N (2 set screws)	Radius (In.)	Basic Load Ratings: Dynamic (Lbs.)	Static (Lbs.)	Weight (Lbs.)
SKF-9175*	.6250	1.7500	.625	.0625	1.009	.136	.042	1.9219	1.092	.405	.233	10-32	.035	2,595	1,010	.36
SKF-9180	.6250	1.7500	.625	.0625	1.009	.136	.042	1.9219	1.092	.405	.233	10-32	.035	2,595	1,010	.36
SKF-9185*	.7500	1.7500	.625	.0625	1.009	.136	.042	1.9219	1.092	.405	.233	10-32	.035	2,595	1,010	.28
SKF-9190	.7500	1.7500	.625	.0625	1.009	.136	.042	1.9219	1.092	.405	.233	10-32	.035	2,595	1,010	.28
SKF-9195***	1.0000	2.0000	.625	.0625	1.306	.136	.042	2.1563	1.179	.492	.261	10-32	.035	2,970	1,350	.36
SKF-9200**	1.0000	2.0000	.625	.0625	1.306	.136	.042	2.1563	1.179	.492	.261	10-32	.035	2,970	1,350	.36
SKF-9205***	1.2500	2.5625	.750	.0625	1.672	.190	.065	2.7656	1.417	.605	.261	¼-28	.035	5,360	2,620	.71
SKF-9210**	1.2500	2.5625	.750	.0625	1.672	.190	.065	2.7656	1.417	.605	.261	¼-28	.035	5,360	2,620	.71

*Snap ring in the groove
**OD tolerance is +.0000/-.0006
***Snap ring in the groove and OD tolerance is +.0000/-.0006

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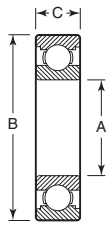
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ROLLER BEARINGS, BALL BEARINGS & ACCESSORIES

Deep Groove 6200 Series Metric



This deep groove, conrad construction is specifically designed to provide maximum performance by means of precise ball complement selection. The honed raceways offer a perfectly balanced bearing capable of operating under straight radial, thrust or combination loads. This series is available with shields. Buna N seals, or locating rings. Sealed bearings may be obtained with either low or high starting torques. Radial clearance is selected in accordance to applications ranging from C2 - C0 - C3 - C4 fits. Metric dimensions are in millimeters.

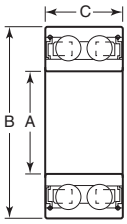
Double Sealed Metric



Item No.	A	B	C	Basic Load Rating lbs. Dynamic	Basic Load Rating lbs. Static	Speed Rating rpm Grease	Speed Rating rpm Oil	Bearing No.
PRB-256	10	30	9	1,140	531	17,000	—	6200-2RS-C3
PRB-257	12	32	10	1,550	697	15,000	—	6201-2RS-C3
PRB-258	15	35	11	1,750	843	13,000	—	6202-2RS-C3
PRB-259	17	40	12	2,150	1,070	12,000	—	6203-2RS-C3
PRB-260	20	47	14	2,860	1,470	10,000	—	6204-2RS-C3
PRB-261	25	52	15	3,150	1,750	8,500	—	6205-2RS-C3
PRB-262	30	62	16	4,380	2,520	7,500	—	6206-2RS-C3
PRB-263	35	72	17	5,730	3,440	6,300	—	6207-2RS-C3
PRB-264	40	80	18	6,900	4,270	5,600	—	6208-2RS-C3
PRB-265	45	85	19	7,460	4,860	5,000	—	6209-2RS-C3
PRB-266	50	90	20	7,890	5,220	4,000	—	6210-2RS-C3

Sealed Double Row Ball Bearing Metric





Item No.	A	B	C	Load Rating Lbs. Dynamic	Load Rating Lbs. Static	Bearing No.
PRB-100	10	30	14.3	1,810	1,030	5200-2RS
PRB-101	12	32	15.9	2,390	1,320	5201-2RS
PRB-102	15	35	15.9	2,650	1,590	5202-2RS
PRB-103	17	30	17.5	3,350	2,040	5203-2RS
PRB-104	20	47	20.6	4,450	2,850	5204-2RS
PRB-105	25	52	20.6	4,850	3,350	5205-2RS
PRB-106	30	62	23.8	6,700	4,800	5206-2RS

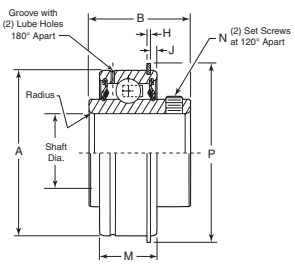
Select "R" Series Double Sealed Inch



Item No.	A	B	C	Bearing No.
PRB-28	1/8	3/8	5/32	99R2
PRB-29	3/16	1/2	.196	99R3
PRB-30	1/4	3/4	9/32	99R4A
PRB-31	3/8	7/8	9/32	99R6
PRB-32	1/2	1 1/8	5/16	99R8
PRB-33	5/8	1 3/8	11/32	99R10
PRB-34	3/4	1 5/8	7/16	99R12
PRB-35	7/8	1 7/8	1/2	99R14
PRB-36	1	2	1/2	99R16

ER Bearings





ER Series ball bearings, an industry standard, are used in demanding applications such as: cardboard/packing machinery, paper/printing machinery, carpet tufting machinery, general conveying equipment, pumps, blowers. These bearings feature exclusive heavy duty "DL" seals which are permanently sealed and prelubricated for long life. "DL" seals feature a steel trash guard combined with the inner ring labyrinth groove provide superior protection in wet/moist environments. These bearings come with two lubrication holes for regreasing, two knurled cup point set screws set 120 degrees apart offer excellent resistance to loosening under vibratory conditions. They are made of fully ground, SAE 52100 chrome alloy steel races featuring a black oxide finish for added corrosion resistance and are available with low-torque seals (SFR).

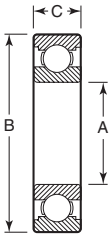
Item No.	Shaft Diameter	+0.000 -0.005 OD A	Inner Width B	+0.000 -0.005 Outer Width M	Snap Ring Location J	Snap Ring Width H	Snap Ring Diameter P	N (2 set screws)	Radius	Basic Load Rating (Lbs.) Dynamic	Basic Load Rating (Lbs.) Static
RBC-330	5/8	1.8504	17/32	5/8	3/32	3/64	2 1/16	10-32	0.04	2,860	1,480
RBC-340	5/8	1.8504	17/32	5/8	3/32	3/64	2 1/16	10-32	0.04	2,860	1,480
RBC-350	3/4	1.8504	17/32	5/8	3/32	3/64	2 1/16	10-32	0.04	2,860	1,480
RBC-360	3/4	1.8504	17/32	5/8	3/32	3/64	2 1/16	10-32	0.04	2,860	1,480
RBC-370	1	2.0472	1 3/8	3/4	3/32	3/64	2 17/64	1/4-28	0.04	3,145	1,770
RBC-380	1	2.0472	1 3/8	3/4	3/32	3/64	2 17/64	1/4-28	0.04	3,145	1,770
RBC-390	1 3/16	2.4409	1 1/2	7/8	1/8	1/16	2 21/32	1/4-28	0.04	4,360	2,535
RBC-400	1 3/16	2.4409	1 1/2	7/8	1/8	1/16	2 21/32	1/4-28	0.04	4,360	2,535
RBC-410	1 1/4	2.8346	1 11/16	15/16	1/8	1/16	3 3/64	1/4-28	0.04	5,755	3,450
RBC-420	1 1/4	2.8346	1 11/16	15/16	1/8	1/16	3 3/64	1/4-28	0.04	5,755	3,450
RBC-430	1 7/16	2.8346	1 11/16	15/16	1/8	1/16	3 3/64	1/4-28	0.04	5,755	3,450
RBC-440	1 7/16	2.8346	1 11/16	15/16	1/8	1/16	3 3/64	1/4-28	0.04	5,755	3,450
RBC-460	1 1/2	3.1496	1 15/16	1 3/32	1/8	1/16	3 13/32	5/16-24	0.062	6,535	4,025
RBC-470	1 15/16	3.5433	2 1/32	1 1/8	1/8	3/32	3 25/32	3/8-24	0.062	7,900	5,250
RBC-480	1 15/16	3.5433	2 1/32	1 1/8	1/8	3/32	3 25/32	3/8-24	0.062	7,900	5,250

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Reid SUPPLY AN ESSENTRA COMPANY

Deep Groove Ball Bearings
Single Row
For Electric Motors

Single row deep groove ball bearings have deep uninterrupted raceways and a high degree of conformity between balls and raceways. This enables them to carry axial loads in both directions, in addition to radial loads, even at high speeds. Bearings with shields or seals at both sides are filled with a grease which has good rust inhibiting properties suitable of operating temperatures of -22 to +230 degrees Fahrenheit. All bearings have a pressed cage of sheet steel and are available either plain, shields on both sides (2 Z), or two rubber seals on both sides (2 RS). All dimensions are in millimeters.

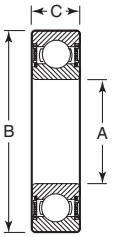




Open



Two Shields



Two Seals

Open

Item No.	SKF	A	B	C	Basic Load Rating Lbs. Dynamic	Basic Load Rating Lbs. Static	Speed Rating RPM Grease	Speed Rating RPM Oil
SKF-01	6200JEM	10	30	9	1,140	531	24,000	30,000
SKF-02	6201JEM	12	32	10	1,550	697	22,000	28,000
SKF-03	6202JEM	15	35	11	1,750	843	19,000	24,000
SKF-04	6203JEM	17	40	12	2,150	1,070	17,000	20,000
SKF-05	6204-JEM	20	47	14	2,860	1,470	15,000	18,000
SKF-06	6205JEM	25	52	15	3,150	1,750	12,000	15,000
SKF-07	6206JEM	30	62	16	4,380	2,520	10,000	13,000
SKF-08	6207JEM	35	72	17	5,730	3,440	9,000	11,000
SKF-09	6208JEM	40	80	18	6,900	4,270	8,500	10,000
SKF-010	6209JEM	45	85	19	7,460	4,860	7,500	9,000
SKF-011	6210JEM	50	90	20	7,890	5,220	7,000	8,500

Two Shields

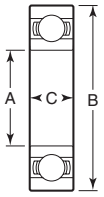
Item No.	SKF	A	B	C	Basic Load Rating Lbs. Dynamic	Basic Load Rating Lbs. Static	Speed Rating RPM Grease	Speed Rating RPM Oil
SKF-012	6200-2ZJEM	10	30	9	1,140	531	24,000	30,000
SKF-013	6201-2ZJEM	12	32	10	1,550	697	22,000	28,000
SKF-014	6202-2ZJEM	15	35	11	1,750	843	19,000	24,000
SKF-015	6203-2ZJEM	17	40	12	2,150	1,070	17,000	20,000
SKF-016	6204-2ZJEM	20	47	14	2,860	1,470	15,000	18,000
SKF-017	6205-2ZJEM	25	52	15	3,150	1,750	12,000	15,000
SKF-018	6206-2ZJEM	30	62	16	4,380	2,520	10,000	13,000
SKF-019	6207-2ZJEM	35	72	17	5,730	3,440	9,000	11,000
SKF-020	6208-2ZJEM	40	80	18	6,900	4,270	8,500	10,000
SKF-021	6209-2ZJEM	45	85	19	7,460	4,860	7,500	9,000
SKF-022	6210-2ZJEM	50	90	20	7,890	5,220	7,000	8,500

Two Seals

Item No.	SKF	A	B	C	Basic Load Rating Lbs. Dynamic	Basic Load Rating Lbs. Static	Speed Rating RPM Grease	Speed Rating RPM Oil
SKF-023	6200-2RSJEM	10	30	9	1,140	531	17,000	—
SKF-024	6201-2RSJEM	12	32	10	1,550	697	15,000	—
SKF-025	6202-2RSJEM	15	35	11	1,750	843	13,000	—
SKF-026	6203-2RSJEM	17	40	12	2,150	1,070	12,000	—
SKF-027	6204-2RSJEM	20	47	14	2,860	1,470	10,000	—
SKF-028	6205-2RSJEM	25	52	15	3,150	1,750	8,500	—
SKF-029	6206-2RSJEM	30	62	16	4,380	2,520	7,500	—
SKF-030	6207-2RSJEM	35	72	17	5,730	3,440	6,300	—
SKF-031	6208-2RSJEM	40	80	18	6,900	4,270	5,600	—
SKF-032	6209-2RSJEM	45	85	19	7,460	4,860	5,000	—
SKF-033	6210-2RSJEM	50	90	20	7,890	5,220	4,000	—

Single Row Radial
Inch and Metric

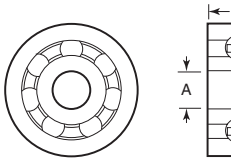




Plain Item No.	Plain C	Double Shielded Item No.	Double Shielded C	Double Sealed Item No.	Double Sealed C	A	B	Bearing Designation
Inch								
NB-1010	5/32	NB-1020	5/32	NB-1015	5/32	1/8	3/8	R2
NB-1025	5/32	NB-1035	.196	NB-1030	.196	3/16	1/2	R3
NB-1040	7/32	NB-1050	9/32	NB-1045	9/32	1/4	3/4	R4A
NB-1055	7/32	NB-1065	9/32	NB-1060	9/32	3/8	7/8	R6
NB-1070	1/4	NB-1080	5/16	NB-1075	5/16	1/2	1 1/8	R8
NB-1085	9/32	NB-1095	11/32	NB-1090	11/32	5/8	1 3/8	R10
NB-1100	5/16	NB-1105	7/16	—	—	3/4	1 5/8	R12
—	—	NB-1115	1/2	—	—	7/8	1 7/8	R14
NB-1120	3/8	—	1/2	NB-1125	1/2	1	2	R16

Stainless Steel Bearings
Inch and Metric





These stainless steel bearings are semi-precision unground type. The 316 type stainless bearings are ideal for hostile environments and wash down applications where the load is too heavy for plastic bearings. Type 316 stainless is non-magnetic and can be run without lubrication at slow speeds. Type 316 stainless provides greater corrosion resistance over 440 type stainless. Cage is made of a polymer. Metric dimensions are in millimeters.

Item No.	A	B	C	Max. rpm No Load	Load Capacity Lbs. Dynamic	Load Capacity Lbs. Static	Bearing Number
Inch							
NNB-60	1/4	5/8	.196	2,352	89	51	R4
NNB-62	3/8	7/8	7/32	1,600	126	99	R6
NNB-63	3/8	7/8	9/32	1,600	126	99	R6A
NNB-64	1/2	1 1/8	1/4	1,142	165	129	R8
NNB-66	1/2	1 3/8	7/16	1,069	207	138	R10B
NNB-67	5/8	1 3/8	7/16	1,069	207	138	R10B
NNB-68	3/4	1 5/8	5/16	840	234	156	R12
NNB-69	1	2	1/2	729	276	183	R16
Metric							
NNB-92	8	22	7	1,600	126	99	608
NNB-95	15	32	9	1,142	165	129	6002
NNB-96	17	35	10	1,069	207	138	6003
NNB-102	17	40	12	1,069	207	138	6203

ROLLER BEARINGS, BALL BEARINGS & ACCESSORIES

Silverthin™ Bearings
Type X Four Point Contact
Brass Snapover Separator Standard



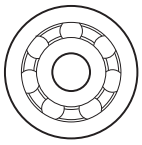
The Silverthin™ series are manufactured to industry standard sizes. The bearing widths and sections (distance from bore to outside diameter) in each series remain constant regardless of the change in bore diameter.

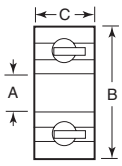
Item No.	Bore	OD	Width	Dynamic Load Capacity			Static Load Capacity			Maximum rpm Radial, Thrust or Combined Load
				Radial Lbs.	Thrust Lbs.	Moment Lbs.-In.	Radial Lbs.	Thrust Lbs.	Moment Lbs.-In.	
CCF-1100	2	2½	¼	323	794	367	682	1,711	772	1,500
CCF-1105	2	2⅝	5/16	458	1,135	521	930	2,344	1,083	1,500
CCF-1110	2½	3	¼	363	912	506	830	2,097	1,154	1,200
CCF-1115	2½	3⅛	5/16	521	1,297	730	1,149	2,840	1,603	1,200
CCF-1120	3	3½	¼	413	1,014	667	994	2,475	1,603	833
CCF-1125	3	3⅝	5/16	589	1,442	963	1,343	3,355	2,221	1,000
CCF-1130	3½	4	¼	453	1,118	846	1,144	2,856	2,139	714
CCF-1135	3½	4⅛	5/16	634	1,598	1,217	1,546	3,862	2,946	714
CCF-1140	4	4½	¼	486	1,213	1,035	1,293	3,227	2,748	625
CCF-1145	4	4⅝	5/16	690	1,721	1,495	1,751	4,379	3,770	625
CCF-1150	5	5½	¼	569	1,403	1,462	1,597	3,988	4,186	500
CCF-1155	5	5⅝	5/16	794	1,981	2,103	2,158	5,386	5,729	500
CCF-1160	6	6½	¼	634	1,572	1,968	1,906	4,740	5,936	333
CCF-1165	6	6⅝	5/16	899	2,220	2,804	2,567	6,404	8,082	416
CCF-1170	7	7½	¼	693	1,735	2,515	2,204	5,507	7,988	285
CCF-1175	8	8⅝	5/16	1,071	2,670	4,441	3,370	8,434	14,025	250

Note: For bearings with ¼ inch widths, the maximum shaft or housing fillet radius that the bearing corners will clear is .025 inch. Bearings with 5/16 inch widths will clear .040 inch.

Plastic Bearings
Inch and Metric







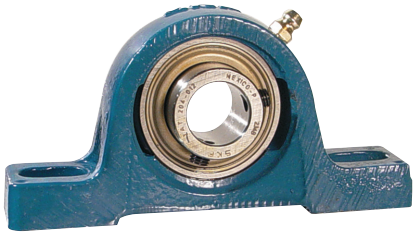
These plastic bearings are corrosion resistant, lightweight and offer a great deal of design flexibility. The rings are delrin, ball retainer is chemical resistant polymer, and the balls are 316 stainless, providing a lube free operation where other bearings wouldn't hold up.

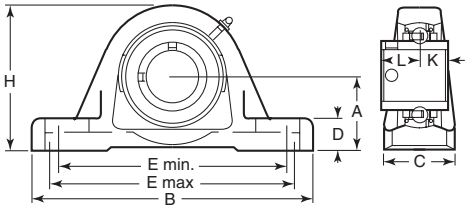
Item No.	A	B	C	Max. rpm No Load	Load Capacity Lbs.		Bearing Number
					Dynamic	Static	
Inch							
NNB-01	3/16	½	5/32	3,167	17	11	R3
NNB-02	3/16	⅝	.196	2,352	26	17	R3A
NNB-03	¼	⅝	.196	2,352	26	17	R4
NNB-04	¼	¾	7/32	2,352	26	17	R4A
NNB-05	¼	¾	9/32	2,352	26	17	R4AW
NNB-06	⅜	⅞	7/32	1,600	42	33	R6
NNB-07	⅜	⅞	9/32	1,600	42	33	R6A
NNB-08	½	1⅛	¼	1,142	55	43	R8
NNB-09	⅝	1⅛	¼	1,142	55	43	R8
NNB-11	½	1⅛	⅜	1,142	55	43	R8A
NNB-13	⅜	1⅜	7/16	1,069	69	46	R10B
NNB-14	½	1⅜	7/16	1,069	69	46	R10B
NNB-15	⅝	1⅜	7/16	1,069	69	46	R10B
NNB-16	¾	1⅜	5/16	840	78	52	R12
NNB-17	1	2	½	729	92	61	R16
Metric							
NNB-42	8	22	7	1,600	42	33	608
NNB-43	10	26	8	1,600	42	33	6000
NNB-49	10	30	9	1,142	55	43	6200
NNB-52	17	40	12	840	78	52	6203



Our Dedicated Team Can Help You Find The Hard-to-Find Parts Call (800) 253-0421

These mounted bearings are used extensively in fabricating equipment because they are easy to fit, maintain and replace. Made of cast iron housings with a grease fitting for easy lubrication. Pillow block style comes in two types, standard height and low center height.





Mounted Bearings
Standard Duty
Standard Center Height
Set Screw Locking - Narrow Inner Ring - M-Seal

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-402	P2B 012-RM	3/4	2,860	1 5/16	5	1 1/4	9/16	3 15/32	4 3/16	2 17/32	9/32	25/32
SKF-404	SY 15/16 RM	15/16	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	5/16	25/32
SKF-407	P2B 103-RM	1 3/16	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	23/64	7/8
SKF-408	P2B 104S-RM	1 1/4	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	23/64	7/8
SKF-409	P2B 104-RM	1 1/4	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1
SKF-411	SY 1.7/16 RM	1 7/16	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1
SKF-412	P2B 108-RM	1 1/2	6,910	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	7/16	1 9/32
SKF-414	SY 1 3/4 RM	1 3/4	7,470	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	7/16	1 9/32
SKF-415	P2B 115-RM	1 15/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	7/16	1 17/64
SKF-410	SY 1 3/8 RM	1 3/8	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1
SKF-405	P2B 100-RM	1	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	5/16	25/32
SKF-413	SY 1 11/16 RM	1 11/16	7,470	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	7/16	1 9/32

Mounted Bearings
Standard Duty
Low Center Height
Wide Width - ConCentra Lock
Air Handling Unit

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-8790	SYH 1 PF/AH	1	3,150	1 5/16	5 1/8	1 7/16	5/8	3 11/16	4 5/16	2 3/4	1 1/8	1 5/8
SKF-8800	SYH 1 1/4 PF/AH	1 1/4	5,700	1 13/16	6 5/16	1 3/4	3/4	4 11/16	5 1/4	3 11/16	1 1/4	1 7/8
SKF-8805	SYH 1 3/8 PF/AH	1 3/8	5,700	1 13/16	6 5/16	1 3/4	3/4	4 11/16	5 1/4	3 11/16	1 1/4	1 7/8
SKF-8810	SYH 1 7/16 PF/AH	1 7/16	5,700	1 13/16	6 5/16	1 3/4	3/4	4 11/16	5 1/4	3 11/16	1 1/4	1 7/8
SKF-8815	P2BL 112-TF-AH	1 1/2	6,900	1 15/16	6 7/8	1 7/8	3/4	4 15/16	5 3/4	3 7/8	1 5/16	2 1/16
SKF-8820	SYH 1 11/16 PF/AH	1 11/16	7,470	2 1/16	7 3/8	1 7/8	13/16	5 5/16	6	4 1/4	1 3/8	2
SKF-8825	SYH 2 3/16 PF/AH	2 3/16	9,800	2 7/16	8 5/8	2 3/8	15/16	6 3/8	7 1/8	5	1 7/16	2 1/4
SKF-8830	SYH 2 7/16 PF/AH	2 7/16	11,800	2 11/16	9 1/2	2 3/8	1	7 1/16	7 15/16	5 1/2	1 1/2	2 5/16

Mounted Bearings
Standard Duty
Standard Center Height
Eccentric Locking - Narrow Inner Ring - M-Seal

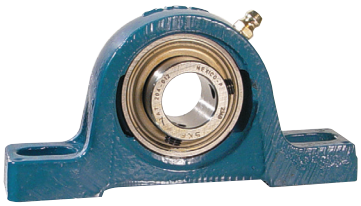
Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-8610	P2B 012-FM	3/4	2,860	1 5/16	5	1 1/4	9/16	3 15/32	4 3/16	2 17/32	9/32	15/16
SKF-8615	SY 7/8 FM	7/8	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/32	15/16
SKF-8620	SY 15/16 FM	15/16	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/32	15/16
SKF-8625	SY 1. FM	1	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/32	15/16
SKF-8630	SY 1.3/16 FM	1 3/16	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	11/32	1 1/16
SKF-8635	P2B 104S-FM	1 1/4	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	11/32	1 1/16
SKF-8640	P2B 104-FM	1 1/4	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1 5/32
SKF-8645	P2B 106-FM	1 3/8	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1 5/32
SKF-8650	P2B 107-FM	1 7/16	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	3/8	1 5/32
SKF-8655	SY 1.1/2 FM	1 1/2	6,910	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	7/16	1 7/32
SKF-8670	SY 2. FM	2	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	15/32	1 7/16
SKF-8675	P2B 203-FM	2 3/16	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	15/32	1 7/16
SKF-8660	SY 1.11/16 FM	1 11/16	7,470	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	7/16	1 9/32
SKF-8665	P2B 115-FM	1 15/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	7/16	1 9/32

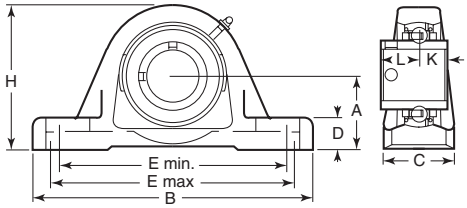
Mounted Bearings
Medium Duty
Standard Center Height
Wide Width - ConCentra Lock
Air Handling Unit

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-8835	SYM 1 7/16 TF/AH	1 7/16	6,910	2 1/8	7 3/8	1 3/4	13/16	5 5/16	6	4 7/32	3/4	1 3/16
SKF-8840	P2BM 111-TF-AH	1 11/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	3/4	1 9/32
SKF-8845	SYM 1 15/16 TF/AH	1 15/16	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	7/8	1 5/16
SKF-8850	P2BM 203-TF-AH	2 3/16	11,900	2 3/4	9 1/2	2 1/2	1 1/16	7 1/16	7 15/16	5 1/2	1	1 9/16
SKF-8855	SYM 2.7/16 TF/AH	2 7/16	14,000	3	10 1/8	2 5/8	1 1/2	7 1/2	8 1/2	6	1 3/16	1 9/16
SKF-8860	SYM 2.15/16 TF/AH	2 15/16	16,400	3 1/2	12	3	1 7/8	8 1/2	9 1/2	6 31/32	1 3/16	1 7/8

MOUNTED BEARINGS

These mounted bearings are used extensively in fabricating equipment because they are easy to fit, maintain and replace. Made of cast iron housings with a grease fitting for easy lubrication. Pillow block style comes in two types, standard height and low center height.





Mounted Bearings
Standard Duty
Standard Center Height
Set Screw Locking - Wide Inner Bearing - M-Seal and Flingers

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-8520	SY 1/2 TF	1/2	2,150	1 3/16	5	1 1/4	9/16	3 15/32	4 3/16	2 7/32	15/32	5/8
SKF-8525	P2B 010-TF	5/8	2,150	1 3/16	5	1 1/4	9/16	3 15/32	4 3/16	2 7/32	15/32	5/8
SKF-8530	SY 3/4 TF	3/4	2,860	1 5/16	5	1 1/4	9/16	3 15/32	4 3/16	2 17/32	1/2	23/32
SKF-8535	SY 7/8 TF	7/8	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/16	25/32
SKF-8540	SY 15/16 TF	15/16	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/16	25/32
SKF-8545	SY 1. TF	1	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/16	25/32
SKF-8550	SY 1.1/8 TF	1 1/8	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	5/8	7/8
SKF-8555	SY 1.3/16 TF	1 3/16	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	5/8	7/8
SKF-8560	P2B 104S-TF	1 1/4	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	5/8	7/8
SKF-8565	SY 1.1/4 TF	1 1/4	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	11/16	1
SKF-8570	SY 1.3/8 TF	1 3/8	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	11/16	1
SKF-8575	SY 1.7/16 TF	1 7/16	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	11/16	1
SKF-8585	SY 1.11/16 TF	1 11/16	7,470	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	3/4	1 3/16
SKF-8590	SY 1.15/16 TF	1 15/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	3/4	1 9/32
SKF-8595	SY 2. TF	2	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	7/8	1 5/16
SKF-8600	SY 2.3/16 TF	2 3/16	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	7/8	1 5/16
SKF-8605	SY 2.7/16 TF	2 7/16	11,900	2 11/16	9 1/2	2 1/2	1	7 1/16	7 15/16	5 7/16	1	1 9/16

Mounted Bearings
Standard Duty
Standard Center Height
Wide Width - ConCentra Lock
Air Handling Unit

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-8735	P2B 100-LF-AH	1	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 5/16	2 3/4	1 1/8	1 5/8
SKF-8740	P2B 103-LF-AH	1 3/16	4,350	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	1 3/16	1 3/4
SKF-8750	P2B 107-LF-AH	1 7/16	5,700	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	1 1/4	1 7/8
SKF-8760	SY 1 11/16 PF/AH	1 11/16	7,470	2 1/8	7 3/8	1 29/32	13/16	5 5/16	6	4 7/32	1 3/8	2
SKF-8765	SY 1 15/16 PF/AH	1 15/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	1 3/8	2 1/8
SKF-8770	P2B 203-LF-AH	2 3/16	9,800	2 1/2	8 3/8	2 3/8	15/16	6 3/8	7 1/8	5	1 7/16	2 1/4
SKF-8775	P2B 207-LF-AH	2 7/16	11,800	2 3/4	9 7/16	2 23/64	1 1/32	7 1/16	7 15/16	5 1/2	1 1/2	2 5/16
SKF-8780	SY 2 11/16 PF/AH	2 11/16	14,000	3	10 15/64	2 9/16	1 1/8	7 1/2	8 1/2	5 7/8	1 1/2	2 3/8

Mounted Bearings
Standard Duty
Standard Center Height
Set Screw Lock - Wide Width - M-Seal and Flinger
Air Handling Unit

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max	H	K	L
SKF-8680	P2B 012-TF-AH	3/4	2,860	1 5/16	5	1 1/4	9/16	3 15/32	4 3/16	2 17/32	1/2	23/32
SKF-8685	P2B 100-TF-AH	1	3,150	1 7/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	9/16	23/32
SKF-8690	SY 1 3/16 TF/AH	1 3/16	4,390	1 11/16	6	1 9/16	21/32	4 1/4	5	3 7/32	5/8	7/8
SKF-8695	SY 1 7/16 TF/AH	1 7/16	5,740	1 7/8	6 5/16	1 25/32	3/4	4 11/16	5 1/4	3 21/32	11/16	1
SKF-8700	P2B 108-TF-AH	1 1/2	6,910	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	3/4	1 3/16
SKF-8705	P2B 111-TF-AH	1 11/16	7,470	2 1/8	7 3/8	1 7/8	13/16	5 5/16	6	4 7/32	3/4	1 3/16
SKF-8710	SY 1 15/16 TF/AH	1 15/16	7,900	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	3/4	1 9/32
SKF-8715	SY 2 TF/AH	2	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	7/8	1 5/16
SKF-8720	P2B 203-TF-AH	2 3/16	9,810	2 1/2	8 5/8	2 3/16	15/16	6 3/8	7 1/8	5	7/8	1 5/16
SKF-8725	SY 2 7/16 TF/AH	2 7/16	11,900	2 11/16	9 1/2	2 1/2	1	7 1/16	7 15/16	5 7/16	1	1 9/16
SKF-8730	SY 2 15/16 TF/AH	2 15/16	14,900	3 1/4	10 3/4	2 25/32	1 1/4	8	9	6 1/2	1 1/16	1 13/16

Mounted Bearings
Standard Duty
Low Center Height
Set Screw Locking - Narrow Inner Ring - M-Seal

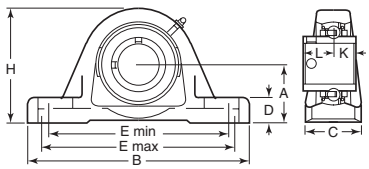
Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E Min.	E Max.	H	K	L
SKF-421	SYH 3/4 RM	3/4	2,860	1 1/4	5	1 1/4	1/2	3 15/32	4 3/16	2 15/32	9/32	23/32
SKF-422	SYH 7/8 RM	7/8	3,150	1 5/16	5 1/8	1 13/32	1/2	3 11/16	4 11/32	2 5/8	5/16	25/32
SKF-423	SYH 15/16 RM	15/16	3,150	1 5/16	5 1/8	1 13/32	1/2	3 11/16	4 11/32	2 5/8	5/16	25/32
SKF-426	P2BL 103-RM	1 3/16	4,390	1 9/16	6	1 9/16	17/32	4 1/4	5	3 3/32	23/64	7/8

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Standard duty, high-grade cast iron. Solid foot housing design. Wide inner ring bearing. Relubricatable unit with anti-rotation pin.

Mounted Bearings - Standard Shaft Height



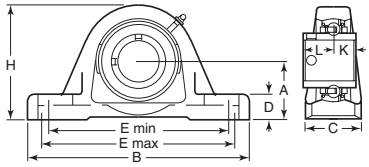


Pillow Block

Item No.	Bearing No.	Bore Size	Load Rate	A	B	C	D	E Min.	E Max.	H	K	L
PRB-107	UCP201-8	½	2,900	1 3/16	5 15/32	1 17/64	15/32	3	4½	2 7/32	.394	.72
PRB-108	UCP202-10	⅝	2,900	1 3/16	5 15/32	1 17/64	15/32	3	4½	2 7/32	.394	.72
PRB-109	UCP204-12	¾	2,900	1 5/16	5	1 11/32	17/32	3	4½	2 17/32	.5	.72
PRB-110	UCP205-14	⅞	3,150	1 7/16	5½	1½	⅝	3⅜	4⅝	2 25/32	.563	.776
PRB-140	UCP205-15	15/16	3,150	1 7/16	5½	1½	⅝	3 11/16	4 11/32	2 25/32	.563	25/32
PRB-111	UCP205-16	1	3,150	1 7/16	5½	1½	⅝	3⅜	4⅝	2 25/32	.563	.776
PRB-112	UCP206-18	1⅛	4,390	1 11/16	6½	1¾	21/32	3 15/16	5 9/16	3 9/32	.625	.874
PRB-143	UCP206-19	1 3/16	4,390	1 11/16	6½	1¾	21/32	4¼	5	3 9/32	.625	⅞
PRB-113	UCP206-20	1¼	4,390	1 11/16	6½	1¾	21/32	3 15/16	5 9/16	3 9/32	.625	.874
PRB-145	UCP207-20	1¼	5,740	1⅞	6 9/16	1 13/16	23/32	4 11/16	5¼	3 11/16	⅜	1
PRB-114	UCP207-22	1⅜	5,740	1⅞	6 9/16	1 13/16	23/32	4 5/16	5 13/16	3 11/16	⅜	1
PRB-147	UCP207-23	1 7/16	5,740	1⅞	6 9/16	1 13/16	23/32	4 11/16	5¼	3 11/16	⅜	1
PRB-115	UCP208-24	1½	7,340	1 15/16	7¼	1 59/64	13/16	4 19/32	6 7/32	4	.748	1.189
PRB-149	UCP209-27	1 11/16	7,470	1 15/16	7 15/32	2 1/64	¾	4 15/16	5¾	4¼	.748	1⅛
PRB-116	UCP209-28	1¾	7,470	2⅛	7 15/32	2 1/64	¾	4 15/16	6 9/15	4¼	.748	1.189
PRB-151	UCP210-31	1 15/16	7,900	2¼	8⅛	2 3/16	¾	5⅞	6½	4 9/16	.748	1 17/64
PRB-117	UCP211-32	2	9,810	2½	8⅝	2 5/16	⅞	5 27/32	7 13/32	4 31/32	.874	1.315
PRB-153	UCP211-35	2 3/16	9,810	2½	8⅝	2 5/16	⅞	6⅜	7⅛	4 31/32	.874	1 9/32

Mounted Bearings - Low Shaft Height





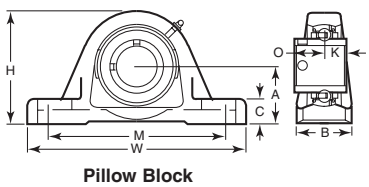
Pillow Block

Item No.	Bearing No.	Bore Size	Load Rate	A	B	C	D	E Min.	E Max.	H	K	L
PRB-154	UCLP201-8	½	2,150	1¼	5	1 11/32	15/32	3 15/32	4 3/16	2 15/32	¼	⅝
PRB-155	UCLP202-10	⅝	2,150	1¼	5	1 11/32	15/32	3 15/32	4 3/16	2 15/32	¼	⅝
PRB-156	UCLP204-12	¾	2,860	1¼	5	1 11/32	½	3 15/32	4 3/16	2 15/32	9/32	23/32
PRB-157	UCLP205-14	⅞	3,150	1 5/16	5½	1½	½	3 11/16	4 11/32	2 21/32	5/16	25/32
PRB-158	UCLP205-15	15/16	3,150	1 5/16	5½	1½	½	3 11/16	4 11/32	2 21/32	5/16	25/32
PRB-159	UCLP205-16	1	3,150	1 5/16	5½	1½	½	3 11/16	4 11/32	2 21/32	5/16	25/32
PRB-160	UCLP206-18	1⅛	4,390	1 9/16	6½	1¾	17/32	4¼	5	3 9/32	23/64	⅞
PRB-161	UCLP206-19	1 3/16	4,390	1 9/16	6½	1¾	17/32	4¼	5	3 9/32	23/64	⅞
PRB-163	UCLP207-20	1¼	5,740	1 13/16	6 9/16	1 13/16	21/32	4 11/16	5¼	3⅜	⅜	1

These mounted bearings are used extensively in fabricated equipment because they are easy to fit, maintain and replace. They are sealed and pre-greased, and under normal conditions require no further lubrications (grease fitting is supplied for additional lubrication under adverse conditions.) Housing is made from cast iron. All bearings below have set screw shaft locking.

Mounted Bearings





Pillow Block

Item No.	Bore	A	B	C	H	K	M	O	W
INA-10	½	1 3/16	1¼	9/16	2 9/32	7/16	4 1/16	⅝	4 15/16
INA-15	⅝	1 3/16	1¼	9/16	2 9/32	7/16	4 1/16	⅝	4 15/16
INA-20	¾	1 5/16	1¼	9/16	2 17/32	7/16	4⅛	23/32	5⅛
INA-25	⅞	1 7/16	1 15/32	⅝	2 13/16	15/32	4½	25/32	5½
INA-35	1	1 7/16	1 15/32	⅝	2 13/16	15/32	4½	25/32	5½
INA-40	1⅛	1 11/16	1 11/16	23/32	3 9/32	19/32	5	⅞	6 5/16

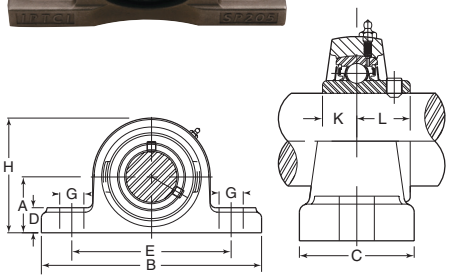
Item No.	Bore	A	B	C	H	K	M	O	W
INA-50	1¼	1⅞	1 27/32	¾	3 11/16	19/32	5 7/16	1	6 25/32
INA-55	1⅜	1⅞	1 27/32	¾	3 11/16	19/32	5 7/16	1	6 25/32
INA-65	1½	1 15/16	1 31/32	.787	3 15/16	19/32	5.787	1 3/16	7 5/32
INA-80	1¾	2⅛	2 1/32	⅞	4 7/32	9/16	6 9/16	1 3/16	7 11/16

MOUNTED BEARINGS

Mounted Bearings
All Stainless Steel
B-Type Seals
Set Screw Locking

Food Grade





Item No.	Bore Diameter	A	B	C	D	E	G	H	K	L
Inch										
IP-1	½	1 5/16	5	1½	19/32	3¾	11/16	2 9/16	0.5000	0.7205
IP-2	⅝	1 5/16	5	1½	19/32	3¾	11/16	2 9/16	0.5000	0.7205
IP-3	¾	1 5/16	5	1½	19/32	3¾	11/16	2 9/16	0.5000	0.7205
IP-5	⅞	1 7/16	5 15/32	1½	⅝	4⅛	11/16	2¾	0.5630	0.7756
IP-7	1	1 7/16	5 15/32	1½	⅝	4⅛	11/16	2¾	0.5630	0.7756
IP-8	1⅛	1 11/16	6 13/32	1 27/32	11/16	4¾	13/16	3 19/64	0.6260	0.8740
IP-10	1 3/16	1 11/16	6 13/32	1 27/32	11/16	4¾	13/16	3 19/64	0.6260	0.8740
IP-11	1¼	1 11/16	6 13/32	1 27/32	11/16	4¾	13/16	3 19/64	0.6260	0.8740
IP-12	1¼	1⅞	6 17/32	1 29/32	¾	5	⅞	3 11/16	0.6890	1.0000
IP-13	1 5/16	1⅞	6 17/32	1 29/32	¾	5	⅞	3 11/16	0.6890	1.0000
IP-14	1⅜	1⅞	6 17/32	1 29/32	¾	5	⅞	3 11/16	0.6890	1.0000
IP-16	1 7/16	1⅞	6 17/32	1 29/32	¾	5	⅞	3 11/16	0.6890	1.0000
IP-17	1½	1 15/16	7¼	2	25/32	5⅜	⅞	3 15/16	0.7480	1.1890
IP-19	1 11/16	2⅛	7½	2 1/16	25/32	5¾	13/16	4 3/32	0.7480	1.1890
IP-20	1¾	2⅛	7½	2 1/16	25/32	5¾	13/16	4 3/32	0.7480	1.1890
IP-22	1 15/16	2¼	8	2 5/16	⅞	6¼	15/16	4½	0.7480	1.2835
IP-24	2	2¼	8	2 5/16	⅞	6¼	15/16	4½	0.7480	1.2835
IP-25	2	2½	8 17/32	2⅜	⅞	6⅞	15/16	4 15/16	0.8740	1.3150
IP-26	2 3/16	2½	8 17/32	2⅜	⅞	6⅞	15/16	4 15/16	0.8740	1.3150
IP-27	2¼	2¾	9 15/32	2½	1	7 11/32	1	5⅜	1.0000	1.5630
IP-28	2 7/16	2¾	9 15/32	2½	1	7 11/32	1	5⅜	1.0000	1.5630
Metric										
IP-4	20	33.3	127	38	15	127	17	65	12.7	18.3
IP-6	25	36.5	139	38	16	105	17	70	14.3	19.7
IP-9	30	42.9	163	47	18	121	21	84	15.9	22.2
IP-15	35	47.6	166	48	19	127	22	94	25.4	17.5
IP-18	40	49.2	184	51	20	136	22	100	19.0	30.2
IP-21	45	54	190	52	49.2	146	21	107	19.0	30.2
IP-23	50	57.2	203	59	22	159	24	114	19.0	32.6

Thermoplastic housed units offer a more favorable economic choice. Available with either stainless inserts, for a higher level of corrosion resistance, or hard chrome coated inserts, where intermediate level corrosion resistance, balanced with further savings, is desired.

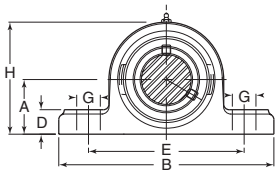
Thermoplastic housings are off-white in color and are made from glass reinforced PBT resin. These units offer favorable chemical resistance, are very resistant to moisture absorption and have excellent mechanical, thermal and electrical properties. Operating ranges for thermoplastic housed units are from -10 degrees Fahrenheit to 210 degrees Fahrenheit.

All thermoplastic housings are made with extremely smooth surfaces, have solid bases and all sleeves, bushings and grease fittings are made from 300 series stainless steel.

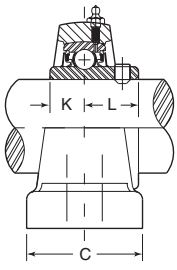
Mounted Bearings
Thermoplastic
B-Type Seals
Set Screw Locking

STAINLESS STEEL OPTION AVAILABLE





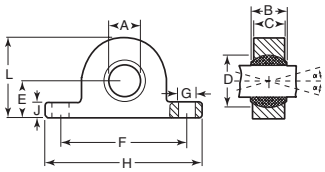
Food Grade



Item No.	Bore Diameter	A	B	C	D	E	G	H	K	L
Stainless Steel Bearing Inserts - Inch										
IP-124	½	1 5/16	5	1½	9/16	3¾	9/16	2 19/32	0.5000	0.7205
IP-125	⅝	1 5/16	5	1½	9/16	3¾	9/16	2 19/32	0.5000	0.7205
IP-126	¾	1 5/16	5	1½	9/16	3¾	9/16	2 19/32	0.5000	0.7205
IP-128	⅞	1 7/16	5½	1½	9/16	4⅛	9/16	2 13/16	0.5630	0.7756
IP-130	1	1 7/16	5½	1½	9/16	4⅛	9/16	2 13/16	0.5630	0.7756
IP-131	1⅛	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-133	1 3/16	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-134	1¼	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-135	1¼	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-136	1 5/16	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-137	1⅜	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-139	1 7/16	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-140	1½	1 15/16	7¼	2⅛	25/32	5 7/16	23/32	3 29/32	0.7480	1.1890
Hard Chrome Coated Bearing Inserts - Inch										
IP-212	¾	1 5/16	5	1½	9/16	3¾	9/16	2 19/32	0.5000	0.7205
IP-214	⅞	1 7/16	5½	1½	9/16	4⅛	9/16	2 13/16	0.5630	0.7756
IP-216	1	1 7/16	5½	1½	9/16	4⅛	9/16	2 13/16	0.5630	0.7756
IP-217	1⅛	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-219	1 3/16	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-220	1¼	1 11/16	6 13/32	1 13/16	11/16	4 11/16	23/32	3 19/64	0.626	0.8740
IP-221	1¼	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-222	1⅜	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-224	1 7/16	1⅞	6⅝	1 29/32	11/16	5	23/32	3 11/16	0.6890	1.0000
IP-225	1½	1 15/16	7¼	2⅛	25/32	5 7/16	23/32	3 29/32	0.7480	1.1890
Stainless Steel Bearing Inserts - Metric										
IP-127	20	33.3	127	38	14	95	14	14	12.7	18.3
IP-129	25	36.5	140	38	14	105	14	71	14.3	19.7
IP-132	30	42.9	163	46	18	119	18	84	15.9	22.2
IP-138	35	47.6	168	48	18	127	18	94	17.5	25.4
IP-141	40	49.2	184	54	20	137	18	99	19.0	30.2
Hard Chrome Coated Bearing Inserts - Metric										
IP-213	20	33.3	127	38	14	95	14	14	12.7	18.3
IP-215	25	36.5	140	38	14	105	14	71	14.3	19.7
IP-218	30	42.9	163	46	18	119	18	84	15.9	22.2
IP-223	35	47.6	168	48	18	127	18	94	17.5	25.4
IP-226	40	49.2	184	54	20	137	18	99	19.0	30.2

Spherical Mounted Bearings





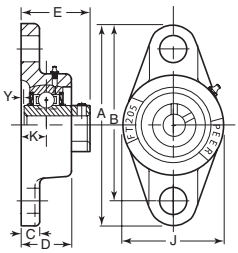
Item No.	A	B	C	D	E	F	G	H	J	L
I-591	5	8	6	11.1	7	25	4.5	36	3	14
I-592	6	9	7	12.7	10	33	4.5	44	4	20
I-594	10	14	10.5	19.0	14	35	5.5	60	6	28
I-595	12	16	12	22.2	14	35	5.5	60	6	28
I-597	16	21	15	28.5	18	60	6.5	80	6	36

Standard duty, high-grade cast iron. Solid foot housing design. Wide inner ring bearing. Relubricatable unit with anti-rotation pin.

These mounted bearings are used extensively in fabricated equipment because they are easy to fit, maintain and replace. They are sealed and pre-greased, and under normal conditions require no further lubrications (grease fitting is supplied for additional lubrication under adverse conditions.) Housing is made from cast iron. All bearings below have set screw shaft locking.

Flange Units - Standard Two Bolt





Item No.	Bearing No.	Bore Size	Load Rate	A	B	C	D	E	J	K	Y
PRB-118	UCFT201-8	½	2,900	3⅞	3	7⁄16	1	1.32	2⅛	.594	.094
PRB-119	UCFT202-10	⅝	2,900	3⅞	3	7⁄16	1	1.32	2⅛	.594	.094
PRB-120	UCFT204-12	¾	2,900	4⁷⁄16	3¹⁷⁄16	7⁄16	15⁄16	1.31	2⅜	.591	.091
PRB-185	UCFT205-14	⅞	3,150	5⅛	3⁵⁷⁄64	½	1¹⁄64	1.41	2¹¹⁄16	.630	.067
PRB-186	UCFT205-15	15⁄16	3,150	5⅛	3⁵⁷⁄64	½	1¹⁄64	1.41	2¹¹⁄16	.630	.067
PRB-121	UCFT205-16	1	3,150	5⅛	3⁵⁷⁄64	½	1¹⁄64	1.41	2¹¹⁄16	.630	.067
PRB-122	UCFT206-17	1¹⁄16	4,390	5¹³⁄16	4¹⁹⁄32	½	1⁵⁄32	1.58	3⅝32	.709	.083
PRB-188	UCFT206-19	1³⁄16	4,390	5¹³⁄16	4¹⁹⁄32	½	1⁵⁄32	1.58	3⅝32	.709	.083
PRB-123	UCFT206-20	1¼	4,390	5¹³⁄16	4¹⁹⁄32	½	1⁵⁄32	1.58	3⅝32	.709	.083
PRB-190	UCFT207-20	1¼	5,740	6¹¹⁄32	5⅛	9⁄16	1³⁄16	1.75	3¹⁷⁄32	.748	.059
PRB-191	UCFT207-22	1⅜	5,740	6¹¹⁄32	5⅛	9⁄16	1³⁄16	1.75	3¹⁷⁄32	.748	.059
PRB-192	UCFT207-23	1⁷⁄16	5,740	6¹¹⁄32	5⅛	9⁄16	1³⁄16	1.75	3¹⁷⁄32	.748	.059
PRB-124	UCFT208-24	1½	7,340	6⅞	5²¹⁄32	9⁄16	1¹³⁄32	2.02	3¹⁵⁄16	.828	.080
PRB-194	UCFT209-27	1¹¹⁄16	7,470	7¹³⁄32	5²⁷⁄32	19⁄32	1⅜	2.06	4¼	.866	.118
PRB-125	UCFT210-30	1⅞	7,900	7¾	2½	19⁄32	1¹⁷⁄32	2.15	4¹⁷⁄32	.866	.118

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ASK US ABOUT BULK PRICING

MOUNTED BEARINGS

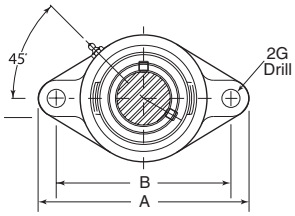
Full stainless bearing units are the most common solution for hostile chemical wash down applications. All metal bearing insert components are 302, 304, or 440 stainless steel, have silicone rubber seals, utilize H-1 food grade grease and have an operating temperature range of -10° F to 250° F.

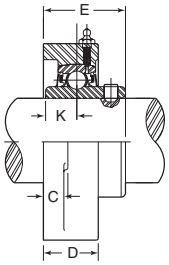
The solid 304 stainless housings have a fully machined base and an extremely smooth surface finish, essential for demanding wash down installations. These housings do not experience flaking, cracking, deformation or discoloration and are virtually unaffected by scrapes.

2-Bolt Flange Units
All Stainless Steel
B-Type Seals
Set Screw Locking

Food Grade



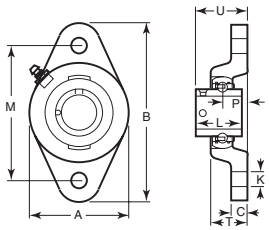




Item No.	Bore Diameter	A	B	C	D	E	G	K
Inch								
IP-57	1/2	4 15/32	3 17/32	7/16	1	1 5/16	25/64	0.5000
IP-58	5/8	4 15/32	3 17/32	7/16	1	1 5/16	25/64	0.5000
IP-59	3/4	4 15/32	3 17/32	7/16	1	1 5/16	25/64	0.5000
IP-61	7/8	4 7/8	3 57/64	1/2	1 1/16	1 13/32	15/32	0.5630
IP-63	1	4 7/8	3 57/64	1/2	1 1/16	1 13/32	15/32	0.5630
IP-64	1 1/8	5 9/16	4 19/32	1/2	1 7/32	1 19/32	15/32	0.6260
IP-66	1 3/16	5 9/16	4 19/32	1/2	1 7/32	1 19/32	15/32	0.6260
IP-67	1 1/4	5 9/16	4 19/32	1/2	1 7/32	1 19/32	15/32	0.6260
IP-68	1 1/4	6 1/8	5 1/8	9/16	1 11/32	1 3/4	33/64	0.6890
IP-69	1 5/16	6 1/8	5 1/8	9/16	1 11/32	1 3/4	33/64	0.6890
IP-70	1 3/8	6 1/8	5 1/8	9/16	1 11/32	1 3/4	33/64	0.6890
IP-72	1 7/16	6 1/8	5 1/8	9/16	1 11/32	1 3/4	33/64	0.6890
IP-73	1 1/2	6 3/4	5 21/32	9/16	1 13/32	2	33/64	0.7480
IP-75	1 11/16	7 1/16	5 27/32	19/32	1 1/2	2 1/16	19/32	0.7480
IP-76	1 3/4	7 1/16	5 27/32	19/32	1 1/2	2 1/16	19/32	0.7480
IP-78	1 15/16	7 7/16	6 3/16	19/32	1 9/16	2 5/32	19/32	0.7480
IP-80	2	7 7/16	6 3/16	19/32	1 9/16	2 5/32	19/32	0.7480
Metric								
IP-60	20	114	89.7	11	25	33.3	10	12.7
IP-62	25	124	98.8	13	27	35.7	11.9	14.3
IP-65	30	141	116.7	13	31	40.5	11.9	15.9
IP-71	35	155	130.2	14	34	44.5	13	17.5
IP-74	40	171	143.7	14	36	50.8	13	19.0
IP-77	45	179	148.4	15	38	52.4	15	19.0
IP-79	50	189	157	15	40	54.8	15	19.0

Two Bolt Flange





Two Bolt Flange

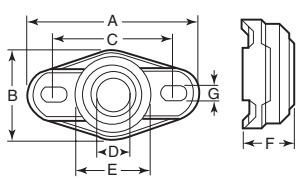
Item No.	Bore	A	B	C	K	L	M	P	T	U
INA-110	1/2	2 1/4	3 29/32	13/32	15/32	1 3/32	3	21/32	15/16	1 9/32
INA-115	5/8	2 1/4	3 29/32	13/32	15/32	1 3/32	3	21/32	15/16	1 9/32
INA-135	1	2 25/32	5 1/8	15/32	15/32	1 11/32	3 29/32	3/4	1 9/32	1 17/32

Item No.	Bore	A	B	C	K	L	M	P	T	U
INA-140	1 1/8	3 5/32	5 19/32	1/2	15/32	1 1/2	4 19/32	25/32	1 9/32	1 21/32
INA-150	1 1/4	3 21/32	6 5/32	9/16	9/16	1 11/16	5 1/8	27/32	1 3/8	1 27/32
INA-185	1 15/16	4 19/32	7 17/32	5/8	21/32	2 1/32	6 3/16	1 3/32	1 11/16	2 3/8

These bearings are self-aligning, maintenance free and made of high performance polymer. Dust, dirt, corrosion and chemical resistant. Vibration dampening capacity. Compensate for misalignment and edge loads. Lightweight and easy to install. Self-lubricating oil-free operation. Operates in temperatures from -40 degrees Fahrenheit to +275 degrees Fahrenheit. Dimensions are in millimeters.

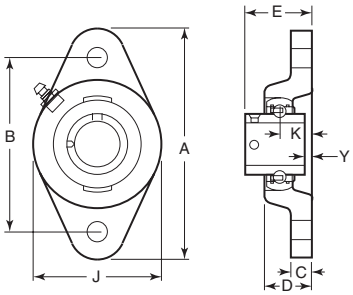
Flange Bearings





Item No.	Shaft Max.	Shaft Min.	Angle of Pivot Maximum	Angle of Pivot Recommended	A	B	C	D	E	F	G	Max. Static Load	Max. Torque Lbs.
I-703	8.00	7.964	24	10	44.2	22.3	31	8	18.0	10.5	4.3 x 6.5	247	2.21
I-704	10.00	9.964	24	8	52	26	36	10	22.0	12.0	5.3 x 8.0	286	3.31
I-705	12.00	11.957	21	7	56.7	31	41	12	25.0	13.0	5.3 x 8.0	337	4.42
I-706	16.00	15.957	24	10	72.6	38	53	16	32.0	17.5	6.4 x 10.0	562	6.63
I-707	20.00	19.948	17	7	89	47	65	20	40.0	20.0	8.4 x 12.5	675	12.53
I-708	25.00	24.948	14	6	101	58.5	75	25	48.5	25.0	8.4 x 12.5	900	14.75
I-709	30.00	29.948	12	5	118	65	87.5	30	55.0	26.0	10.5 x 16.0	1,350	16.22





These mounted bearings are used extensively in fabricating equipment because they are easy to fit, maintain and replace. Made of cast iron housings with a grease fitting for easy lubrication. Pillow block style comes in two types, standard height and low center height.

Two Bolt Flange
Standard Duty
Set Screw Locking - Wide Inner Ring - M-Seal and Flingers

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-8325	FYT 1/2 TF	1/2	2,150	3 7/8	3	15/32	15/16	1 7/32	2 1/8	19/32	1/8
SKF-8330	FYT 5/8 TF	5/8	2,150	3 7/8	3	15/32	15/16	1 7/32	2 1/8	19/32	1/8
SKF-8335	FYT 3/4 TF	3/4	2,860	4 13/32	3 17/32	7/16	31/32	1 9/32	2 3/8	9/16	1/16
SKF-8340	FYT 15/16 TF	15/16	3,150	4 7/8	3 29/32	5/8	1 3/16	1 17/32	2 3/4	3/4	3/16
SKF-8345	FYT 1. TF	1	3,150	4 7/8	3 29/32	5/8	1 3/16	1 17/32	2 3/4	3/4	3/16
SKF-8350	F2B 102-TF	1 1/8	4,390	5 9/16	4 19/32	17/32	1 9/32	1 21/32	3 1/8	25/32	5/32
SKF-8355	FYT 1.3/16 TF	1 3/16	4,390	5 9/16	4 19/32	17/32	1 9/32	1 21/32	3 1/8	25/32	5/32
SKF-8360	FYT 1.1/4 ATF	1 1/4	4,390	5 9/16	4 19/32	17/32	1 9/32	1 21/32	3 1/8	25/32	5/32
SKF-8365	FYT 1.1/4 TF	1 1/4	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	1/8
SKF-8370	FYT 1.3/8 TF	1 3/8	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	1/8
SKF-8375	FYT 1.7/16 TF	1 7/16	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	1/8
SKF-8380	FYT 1.1/2 TF	1 1/2	6,910	6 3/4	5 21/32	9/16	1 17/32	2 3/32	4	29/32	5/32
SKF-8385	F2B 115-TF	1 15/16	7,900	7 7/16	6 3/16	25/32	1 23/32	2 9/32	4 9/16	1	1/4
SKF-8390	F2B 200-TF	2	9,810	8 1/4	7 1/4	13/16	1 7/8	2 15/32	5	1 5/32	9/32
SKF-8395	F2B 203-TF	2 3/16	9,810	8 1/4	7 1/4	13/16	1 7/8	2 15/32	5	1 5/32	9/32
SKF-8485	F2B 104-LF-AH	1 1/4	5,740	6 5/32	5 1/8	1/2	1 11/32	1 13/16	3 25/32	13/16	1/8
SKF-8495	F2B 107-LF-AH	1 7/16	5,740	6 5/32	5 1/8	1/2	1 11/32	1 13/16	3 25/32	13/16	1/8

Two Bolt Flange
Standard Duty
Set Screw Locking - Narrow Inner Ring - M-Seal

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-455	FYT 1/2 RM	1/2	2,150	3 7/8	3	15/32	15/16	1 7/32	2 1/8	19/32	21/64
SKF-456	F2B 010-RM	5/8	2,150	3 7/8	3	15/32	15/16	1 7/32	2 1/8	19/32	21/64
SKF-457	FYT 3/4 RM	3/4	2,860	4 13/32	3 17/32	7/16	31/32	1 9/32	2 3/8	9/16	9/32
SKF-458	FYT 7/8 RM	7/8	3,150	4 7/8	3 29/32	5/8	1 3/16	1 17/32	2 3/4	3/4	29/64
SKF-459	FYT 15/16 RM	15/16	3,150	4 7/8	3 29/32	5/8	1 3/16	1 17/32	2 3/4	3/4	29/64
SKF-460	F2B 100-RM	1	3,150	4 7/8	3 29/32	5/8	1 3/16	1 17/32	2 3/4	3/4	29/64
SKF-462	FYT 1.3/16 RM	1 3/16	4,390	5 9/16	4 19/32	17/32	1 9/32	1 21/32	3 1/8	25/32	27/64
SKF-463	F2B 104S-RM	1 1/4	4,390	5 9/16	4 19/32	17/32	1 9/32	1 21/32	3 1/8	25/32	27/64
SKF-464	FYT 1.1/4 RM	1 1/4	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	7/16
SKF-465	F2B 106-RM	1 3/8	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	7/16
SKF-466	FYT 1.7/16 RM	1 7/16	5,740	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 5/8	13/16	7/16
SKF-467	F2B 108-RM	1 1/2	6,910	6 3/4	5 21/32	9/16	1 17/32	2 3/32	4	29/32	29/64
SKF-468	FYT 1 11/16 RM	1 11/16	7,470	7 1/16	5 27/32	5/8	1 17/32	2 3/32	4 1/4	29/32	15/32

Two Bolt Flange
Standard Duty
Eccentric Locking - Narrow Inner Ring - M-Seal

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-8400	FYT 1/2 FM	1/2	2,150	3 7/8	3	15/32	15/16	1 7/16	2 1/8	19/32	21/64
SKF-8405	F2B 010-FM	5/8	2,150	3 7/8	3	15/32	15/16	1 7/16	2 1/8	19/32	21/64
SKF-8410	F2B 012-FM	3/4	2,860	4 13/32	3 17/32	7/16	31/32	1 1/2	2 3/8	9/16	17/64
SKF-8415	FYT 7/8 FM	7/8	3,150	4 7/8	3 29/32	5/8	1 3/16	1 11/16	2 3/4	3/4	29/64
SKF-8420	FYT 15/16 FM	15/16	3,150	4 7/8	3 29/32	5/8	1 3/16	1 11/16	2 3/4	3/4	29/64
SKF-8425	F2B 100-FM	1	3,150	4 7/8	3 29/32	5/8	1 3/16	1 11/16	2 3/4	3/4	29/64
SKF-8430	F2B 102-FM	1 1/8	4,390	5 9/16	4 19/32	17/32	1 9/32	1 27/32	3 1/8	25/32	27/64
SKF-8435	F2B 103-FM	1 3/16	4,390	5 9/16	4 19/32	17/32	1 9/32	1 27/32	3 1/8	25/32	27/64
SKF-8440	FYT 1.1/4 AFM	1 1/4	4,390	5 9/16	4 19/32	17/32	1 9/32	1 27/32	3 1/8	25/32	27/64
SKF-8445	FYT 1.1/4 FM	1 1/4	5,740	6 1/8	5 1/8	9/16	1 11/32	1 31/32	3 5/8	13/16	7/16
SKF-8450	FYT 1.3/8 FM	1 3/8	5,740	6 1/8	5 1/8	9/16	1 11/32	1 31/32	3 5/8	13/16	7/16
SKF-8455	F2B 107-FM	1 7/16	5,740	6 1/8	5 1/8	9/16	1 11/32	1 31/32	3 5/8	13/16	7/16
SKF-8460	F2B 108-FM	1 1/2	6,910	6 3/4	5 21/32	9/16	1 17/32	2 3/16	4	29/32	15/32
SKF-8465	F2B 115-FM	1 15/16	7,900	7 7/16	6 3/16	25/32	1 23/32	2 9/32	4 9/16	1	9/16
SKF-8470	F2B 200-FM	2	9,810	8 1/2	7 1/4	13/16	1 7/8	2 19/32	5	1 5/32	11/16

MOUNTED BEARINGS

Thermoplastic housed units offer a more favorable economic choice. Available with either stainless inserts, for a higher level of corrosion resistance, or hard chrome coated inserts, where intermediate level corrosion resistance, balanced with further savings, is desired.

Thermoplastic housings are off-white in color and are made from glass reinforced PBT resin. These units offer favorable chemical resistance, are very resistant to moisture absorption and have excellent mechanical, thermal and electrical properties. Operating ranges for thermoplastic housed units are from -10 degrees Fahrenheit to 210 degrees Fahrenheit.

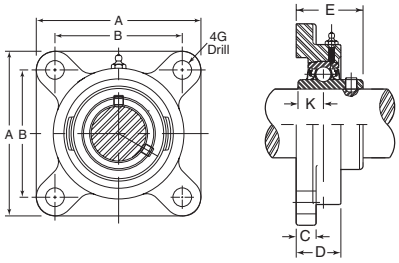
All thermoplastic housings are made with extremely smooth surfaces, have solid bases and all sleeves, bushings and grease fittings are made from 300 series stainless steel.

4-Bolt Flanges Thermoplastic B-Type Seals Set Screw Locking

Food Grade

STAINLESS STEEL OPTION AVAILABLE



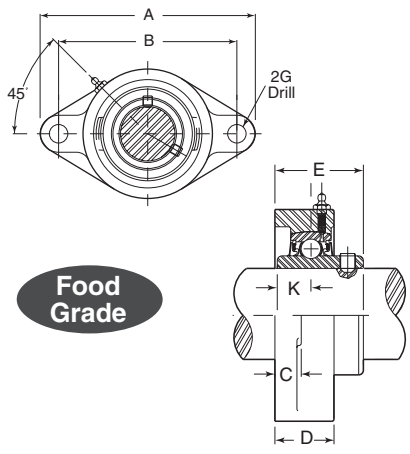


Item No.	Bore Diameter	A	B	C	D	E	G	K
Stainless Steel Bearing Inserts - Inch								
IP-142	½	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-143	⅝	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-144	¾	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-146	⅞	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-148	1	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-149	1⅛	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-151	1 3/16	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-152	1¼	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-153	1¼	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-154	1 5/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-155	1⅜	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-157	1 7/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-158	1½	5⅛	4	21/32	1 15/32	2 3/32	35/64	.7480
Hard Chrome Coated Bearing Inserts - Inch								
IP-227	¾	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-229	⅞	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-231	1	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-232	1⅛	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-234	1 3/16	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-235	1¼	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-236	1¼	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-237	1⅜	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-239	1 7/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-240	1½	5⅛	4	21/32	1 15/32	2 3/32	35/64	.7480
Stainless Steel Bearing Inserts - Metric								
IP-145	20	86	64	13	28	36.5	11	12.7
IP-147	25	95	70	14	28	36.5	11	14.3
IP-150	30	108	83	14	32	41.3	11	15.9
IP-156	35	118	92	16	35	46.8	13	17.5
IP-159	40	130	102	17	37	53.2	14	19.0
Hard Chrome Coated Bearing Inserts - Metric								
IP-228	20	86	64	13	28	36.5	11	12.7
IP-230	25	95	70	14	28	36.5	11	14.3
IP-233	30	108	83	14	32	41.3	11	15.9
IP-238	35	118	92	16	35	46.8	13	17.5
IP-241	40	130	102	17	37	53.2	14	19.0

2-Bolt Flange Thermoplastic B-Type Seal Set Screw Locking

STAINLESS STEEL OPTION AVAILABLE





Food Grade

Item No.	Bore Diameter	A	B	C	D	E	G	K
Stainless Steel Bearing Inserts - Inch								
IP-160	½	4 7/16	3 17/32	7/16	1 1/32	1 21/64	7/16	.5000
IP-161	⅝	4 7/16	3 17/32	7/16	1 1/32	1 21/64	7/16	.5000
IP-162	¾	4 7/16	3 17/32	7/16	1 1/32	1 21/64	7/16	.5000
IP-164	⅞	5⅛	3 57/64	17/32	1 5/32	1 7/16	7/16	.5630
IP-166	1	5⅛	3 57/64	17/32	1 5/32	1 7/16	7/16	.5630
IP-167	1⅛	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-169	1 3/16	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-170	1¼	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-171	1¼	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-172	1 5/16	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-173	1⅜	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-175	1 7/16	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-176	1½	6⅞	5 21/32	25/32	1 15/32	2 3/64	35/64	.7480
Hard Chrome Coated Bearing Inserts - Inch								
IP-242	¾	4 7/16	3 17/32	7/16	1 1/32	1 21/64	7/16	.5000
IP-244	⅞	5⅛	3 57/64	17/32	1 5/32	1 7/16	7/16	.5630
IP-246	1	5⅛	3 57/64	17/32	1 5/32	1 7/16	7/16	.5630
IP-247	1⅛	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-249	1 3/16	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-250	1¼	5 13/16	4 19/32	17/32	1 7/32	1 39/64	7/16	.6260
IP-251	1¼	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-252	1⅜	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-254	1 7/16	6 15/32	5⅛	⅝	1 9/32	1 23/32	33/64	.6890
IP-255	1½	6⅞	5 21/32	25/32	1 15/32	2 3/64	35/64	.7480
Stainless Steel Bearing Inserts - Metric								
IP-163	20	113	89.7	11	26	33.7	11	12.7
IP-165	25	130	98.8	13	29	36.5	11	14.3
IP-168	30	148	116.7	13	31	40.9	11	15.9
IP-174	35	164	130.2	16	33	43.7	13	17.5
IP-177	40	175	143.7	20	37	52.0	14	19.0
Hard Chrome Coated Bearing Inserts - Metric								
IP-243	20	113	89.7	11	26	33.7	11	12.7
IP-245	25	130	98.8	13	29	36.5	11	14.3
IP-248	30	148	116.7	13	31	40.9	11	15.9
IP-253	35	164	130.2	16	33	43.7	13	17.5
IP-256	40	175	143.7	20	37	52.0	14	19.0

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MOUNTED BEARINGS

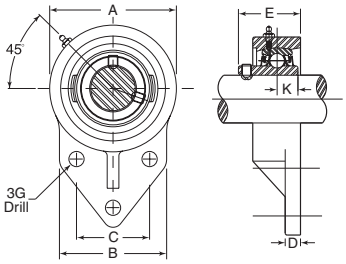
Full stainless bearing units are the most common solution for hostile chemical wash down applications. All metal bearing insert components are 302, 304, or 440 stainless steel, have silicone rubber seals, utilize H-1 food grade grease and have an operating temperature range of -10 degrees Fahrenheit to 250 degrees Fahrenheit.

The solid 304 stainless housings have a fully machined base and an extremely smooth surface finish, essential for demanding wash down installations. These housings do not experience flaking, cracking, deformation or discoloration and are virtually unaffected by scrapes.

3-Bolt Flange Bracket Units
All Stainless Steel
B-Type Seals
Set Screw Locking



Food Grade



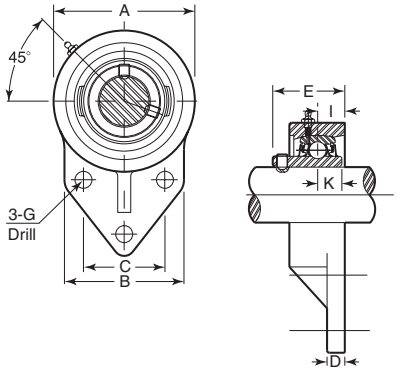
Item No.	Bore Diameter	A	B	C	D	E	G	K
Inch								
IP-81	1/2	2 1/2	2 3/8	1 1/2	5/16	1 23/64	25/64	0.5000
IP-82	5/8	2 1/2	2 3/8	1 1/2	5/16	1 23/64	25/64	0.5000
IP-83	3/4	2 1/2	2 3/8	1 1/2	5/16	1 23/64	25/64	0.5000
IP-85	7/8	2 3/4	2 1/2	1 5/8	3/8	1 39/64	25/64	0.5630
IP-87	1	2 3/4	2 1/2	1 5/8	3/8	1 39/64	25/64	0.5630
IP-88	1 1/8	3 1/4	2 3/4	1 7/8	3/8	1 37/64	25/64	0.6260
IP-90	1 3/16	3 1/4	2 3/4	1 7/8	3/8	1 37/64	25/64	0.6260
IP-91	1 1/4	3 1/4	2 3/4	1 7/8	3/8	1 37/64	25/64	0.6260
IP-92	1 1/4	3 3/4	3 1/4	2	1/2	1 53/64	34/64	0.6890
IP-93	1 3/16	3 3/4	3 1/4	2	1/2	1 53/64	34/64	0.6890
IP-94	1 3/8	3 3/4	3 1/4	2	1/2	1 53/64	34/64	0.6890
IP-96	1 7/16	3 3/4	3 1/4	2	1/2	1 53/64	34/64	0.6890
IP-97	1 15/16	4 5/8	4	2 3/4	1/2	2 5/32	33/64	0.7480
IP-99	2	4 5/8	4	2 3/4	1/2	2 5/32	33/64	0.7480
Metric								
IP-84	20	64	60	38.1	8	34.3	9.9	12.7
IP-86	25	70	64	28.6	9.5	41.0	9.9	14.3
IP-89	30	83	70	47.6	9.5	40.2	9.9	15.9
IP-95	35	95	83	50.8	13	46.4	13.1	17.5
IP-98	50	118	102	69.9	13	54.6	13.1	19.0

3-Bolt Flange Bracket Units
Thermoplastic
B-Type Seal
Set Screw Locking

Food Grade

STAINLESS STEEL OPTION AVAILABLE

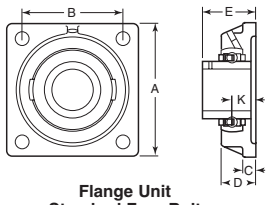




Item No.	Bore Diameter	A	B	C	D	E	G	K
Stainless Steel Bearing Inserts - Inch								
IP-196	1/2	2 1/2	2 7/16	1 1/2	7/16	1 5/16	25/64	0.5000
IP-197	5/8	2 1/2	2 7/16	1 1/2	7/16	1 5/16	25/64	0.5000
IP-198	3/4	2 1/2	2 7/16	1 1/2	7/16	1 5/16	25/64	0.5000
IP-200	7/8	2 3/4	2 1/2	1 5/8	7/16	1 15/32	25/64	0.5630
IP-202	1	2 3/4	2 1/2	1 5/8	7/16	1 15/32	25/64	0.5630
IP-203	1 1/8	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-205	1 3/16	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-206	1 1/4	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-207	1 1/4	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
IP-208	1 5/16	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
IP-209	1 3/8	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
IP-211	1 7/16	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
Hard Chrome Coated Bearing Inserts - Inch								
IP-272	3/4	2 1/2	2 7/16	1 1/2	7/16	1 5/16	25/64	0.5000
IP-274	7/8	2 3/4	2 1/2	1 5/8	7/16	1 15/32	25/64	0.5630
IP-276	1	2 3/4	2 1/2	1 5/8	7/16	1 15/32	25/64	0.5630
IP-277	1 1/8	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-279	1 3/16	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-280	1 1/4	3 1/4	3	1 7/8	17/32	1 19/32	25/64	0.6260
IP-281	1 1/4	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
IP-282	1 3/8	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
IP-284	1 7/16	3 3/4	3 1/2	2	41/64	1 49/64	33/64	0.6890
Stainless Steel Bearing Inserts - Metric								
IP-199	20	64	62	38.1	11	33.3	9.9	12.7
IP-201	25	70	64	41.3	11	37.1	9.9	14.3
IP-204	30	83	76	47.6	13	40.6	9.9	15.9
IP-210	35	95	89	50.8	16	45.0	13.1	17.5
Hard Chrome Coated Bearing Inserts - Metric								
IP-273	20	64	62	38.1	11	33.3	9.9	12.7
IP-275	25	70	64	41.3	11	37.1	9.9	14.3
IP-278	30	83	76	47.6	13	40.6	9.9	15.9
IP-283	35	95	89	50.8	16	45.0	13.1	17.5

Flange Units - Standard Four Bolt



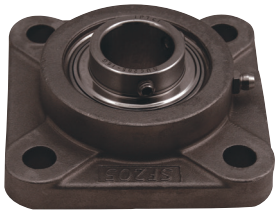


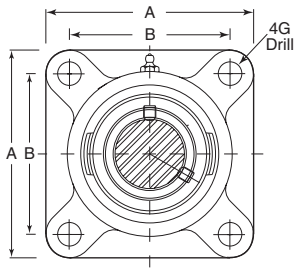
Flange Unit
Standard Four Bolt

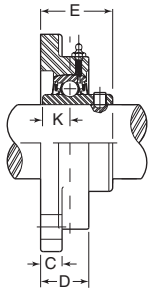
Item No.	Bearing No.	Bore Size	Load Rate	A	B	C	D	E	K
PRB-126	UCF201-8	½	2,900	3	2 1/8	3/8	1	1.31	.592
PRB-127	UCF202-10	5/8	2,900	3	2 1/8	3/8	1	1.31	.592
PRB-128	UCF204-12	¾	2,900	3 3/8	2 1/2	7/16	1	1.31	.592
PRB-129	UCF205-14	7/8	3,150	3 3/4	2 3/4	½	1 1/16	1.41	.631
PRB-168	UCF205-15	15/16	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	¾
PRB-130	UCF205-16	1	3,150	3 3/4	2 3/4	½	1 1/16	1.41	.631
PRB-170	UCF206-18	1 1/8	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	25/32
PRB-171	UCF206-19	1 3/16	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	25/32
PRB-131	UCF206-20	1 1/4	4,390	4 1/4	3 1/4	9/16	1 5/64	1.59	.720
PRB-132	UCF207-20	1 1/4	5,740	4 13/32	3 5/8	19/32	1 3/16	1.75	.750
PRB-133	UCF207-22	1 3/8	5,740	4 13/32	3 5/8	19/32	1 3/16	1.75	.750
PRB-134	UCF207-23	1 7/16	5,740	4 13/32	3 5/8	19/32	1 3/16	1.75	.750
PRB-135	UCF208-24	1 1/2	7,340	5 1/8	4	19/32	1 13/32	2.02	.834
PRB-177	UCF209-27	1 11/16	7,470	5 3/8	4 1/8	11/16	1 19/32	2 7/64	29/32
PRB-178	UCF209-28	1 3/4	7,470	5 3/8	4 1/8	11/16	1 19/32	2 7/64	29/32
PRB-136	UCF210-30	1 7/8	7,900	5 5/8	4 3/8	5/8	1 9/16	2.031	.873
PRB-179	UCF210-31	1 15/16	7,900	5 5/8	4 3/8	25/32	1 3/4	2 19/64	1 1/32
PRB-137	UCF210-32	2	7,900	5 5/8	4 3/8	5/8	1 9/16	2.031	.873
PRB-181	UCF211-35	2 5/16	9,810	6 5/8	5 1/8	37/32	1 7/8	2 7/16	1 5/32

4-Bolt Flange Units
All Stainless Steel
B-Type Seals
Set Screw Locking

Food Grade

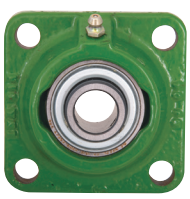


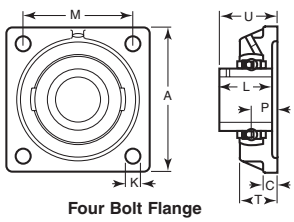




Item No.	Bore Diameter	A	B	C	D	E	G	K
Inch								
IP-29	½	3 3/8	2 1/2	7/16	1	1 5/16	7/16	0.5
IP-30	5/8	3 3/8	2 1/2	7/16	1	1 5/16	7/16	0.5
IP-31	¾	3 3/8	2 1/2	7/16	1	1 5/16	7/16	0.5
IP-33	7/8	3 3/4	2 3/4	½	1 1/16	1 13/32	29/64	0.5630
IP-35	1	3 3/4	2 3/4	½	1 1/16	1 13/32	29/64	0.5630
IP-36	1 1/8	4 1/4	3 1/4	½	1 7/32	1 19/32	33/64	0.6260
IP-38	1 3/16	4 1/4	3 1/4	½	1 7/32	1 19/32	33/64	0.6260
IP-39	1 1/4	4 1/4	3 1/4	½	1 7/32	1 19/32	33/64	0.6260
IP-40	1 1/4	4 19/32	3 5/8	19/32	1 11/32	1 3/4	33/64	0.6890
IP-41	1 5/16	4 19/32	3 5/8	19/32	1 11/32	1 3/4	33/64	0.6890
IP-42	1 3/8	4 19/32	3 5/8	19/32	1 11/32	1 3/4	33/64	0.6890
IP-44	1 7/16	4 19/32	3 5/8	19/32	1 11/32	1 3/4	33/64	0.6890
IP-45	1 1/2	5 1/8	4	19/32	1 13/32	2 1/32	35/64	0.7480
IP-47	1 11/16	5 13/32	4 1/8	5/8	1 1/2	2 1/16	5/8	0.7480
IP-48	1 3/4	5 13/32	4 1/8	5/8	1 1/2	2 1/16	5/8	0.7480
IP-50	1 15/16	5 5/8	4 3/8	5/8	1 9/16	2 5/32	5/8	0.7480
IP-52	2	5 5/8	4 3/8	5/8	1 9/16	2 5/32	5/8	0.7480
IP-53	2	6 3/8	5 1/8	23/32	1 11/16	2 5/16	43/64	0.8740
IP-54	2 3/16	6 3/8	5 1/8	23/32	1 11/16	2 5/16	43/64	0.8740
IP-55	2 1/4	6 7/8	5 5/8	23/32	1 7/8	2 23/32	43/64	1.0000
IP-56	2 7/16	6 7/8	5 5/8	23/32	1 7/8	2 23/32	43/64	1.0000
Metric								
IP-32	20	86	64	11	25.4	33.3	11	12.7
IP-34	25	95	70	13	27	35.7	11.5	14.3
IP-37	30	108	83	13	31	40.2	13	15.9
IP-43	35	117	92	15	34	44.4	13	17.5
IP-46	40	130	102	15	36	51.2	14	19.0
IP-49	45	137	105	16	38	52.2	16	19.0
IP-51	50	143	111	16	40	54.6	16	19.0

Four Bolt Flange





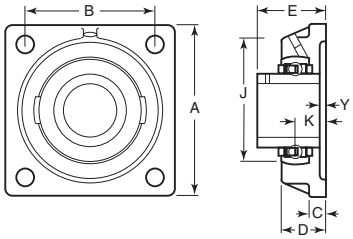
Four Bolt Flange

Item No.	Bore	A	C	K	L	M	P	T	U
INA-210	½	3	13/32	15/32	1 3/32	2 1/8	21/32	15/16	1 9/32
INA-215	5/8	3	13/32	15/32	1 3/32	2 1/8	21/32	15/16	1 9/32
INA-220	¾	3 3/8	15/32	15/32	1 7/32	2 1/2	¾	1 5/32	1 15/32
INA-225	7/8	3 3/4	½	15/32	1 11/32	2 3/4	¾	1 3/16	1 17/32
INA-235	1	3 3/4	½	15/32	1 11/32	2 3/4	¾	1 3/16	1 17/32
INA-240	1 1/8	4 9/32	½	15/32	1 ½	3 1/4	25/32	1 1/4	1 21/32

Item No.	Bore	A	C	K	L	M	P	T	U
INA-250	1 1/4	4 21/32	17/32	9/16	1 11/16	3 5/8	27/32	1 3/8	1 27/32
INA-255	1 3/8	4 21/32	17/32	9/16	1 11/16	3 5/8	27/32	1 3/8	1 27/32
INA-260	1 7/16	4 21/32	17/32	9/16	1 11/16	3 5/8	27/32	1 3/8	1 27/32
INA-265	1 1/2	5 1/8	19/32	9/16	1 15/16	4	15/16	1 1/2	2 1/8
INA-285	1 15/16	5 5/8	19/32	21/32	2 1/32	4 3/8	1 3/32	1 21/32	2 3/8
INA-290	2	6 13/32	21/32	21/32	2 3/16	5 1/8	1 7/32	1 27/32	2 17/32

MOUNTED BEARINGS





These mounted bearings are used extensively in fabricating equipment because they are easy to fit, maintain and replace. Made of cast iron housings with a grease fitting for easy lubrication. Pillow block style comes in two types, standard height and low center height.

Four Bolt Flange
Standard Duty
Set Screw Locking - Wide Inner Ring - M-Seal and Flingers

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-8100	FY 1/2 TF	1/2	2,150	3	2 1/8	13/32	15/16	1 7/32	2 1/8	19/32	1/8
SKF-8105	FY 5/8 TF	5/8	2,150	3	2 1/8	13/32	15/16	1 7/32	2 1/8	19/32	1/8
SKF-8110	F4B 012-TF	3/4	2,860	3 3/8	2 1/2	5/8	1 1/8	1 15/32	2 3/8	3/4	1/4
SKF-8115	F4B 014-TF	7/8	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	2 3/4	3/4	3/16
SKF-8120	FY 15/16 TF	15/16	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	2 3/4	3/4	3/16
SKF-8125	FY 1. TF	1	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	2 3/4	3/4	3/16
SKF-8130	F4B 102-TF	1 1/8	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	3 1/4	25/32	5/32
SKF-8135	FY 1.3/16 TF	1 3/16	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	3 1/4	25/32	5/32
SKF-8140	F4B 104S-TF	1 1/4	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	3 1/4	25/32	5/32
SKF-8145	FY 1.1/4 TF	1 1/4	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	1/8
SKF-8150	F4B 106-TF	1 3/8	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	1/8
SKF-8155	FY 1.7/16 TF	1 7/16	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	1/8
SKF-8160	F4B 108-TF	1 1/2	6,910	5 1/8	4	21/32	1 17/32	2 3/32	4	29/32	5/32
SKF-8165	F4B 111-TF	1 11/16	7,470	5 3/8	4 1/8	11/16	1 19/32	2 3/32	4 1/4	29/32	5/32
SKF-8170	FY 1.15/16 TF	1 15/16	7,900	5 3/8	4 3/8	25/32	1 3/4	2 5/16	4 5/8	1 1/32	9/32
SKF-8175	FY 2. TF	2	9,810	6 3/8	5 1/8	27/32	1 7/8	2 15/32	5	1 5/32	11/32
SKF-8180	FY 2.3/16 TF	2 3/16	9,810	6 3/8	5 1/8	27/32	1 7/8	2 15/32	5	1 5/32	11/32
SKF-8185	FY 2.7/16 TF	2 7/16	11,900	6 7/8	5 5/8	27/32	2 5/32	2 27/32	5 1/2	1 9/32	9/32

Four Bolt Flange
Standard Duty
Set Screw Locking - Narrow Inner Ring - M-Seal

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-437	F4B 008-RM	1/2	2,150	3	2 1/8	13/32	15/16	1 7/32	2 1/8	19/32	21/64
SKF-438	FY 5/8 RM	5/8	2,150	3	2 1/8	13/32	15/16	1 7/32	2 1/8	19/32	21/64
SKF-439	FY 3/4 RM	3/4	2,860	3 3/8	2 1/2	5/8	1 1/8	1 15/32	2 3/8	3/4	15/32
SKF-440	F4B 014-RM	7/8	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	2 3/4	3/4	29/64
SKF-442	FY 1. RM	1	3,150	3 3/4	2 3/4	5/8	1 3/16	1 17/32	2 3/4	3/4	29/64
SKF-444	F4B 103-RM	1 3/16	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	3 1/4	25/32	27/64
SKF-445	F4B 104S-RM	1 1/4	4,390	4 1/4	3 1/4	19/32	1 9/32	1 21/32	3 1/4	25/32	27/64
SKF-446	F4B 104-RM	1 1/4	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	7/16
SKF-447	F4B 106-RM	1 3/8	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	7/16
SKF-448	FY 1.7/16 RM	1 7/16	5,740	4 5/8	3 5/8	5/8	1 3/8	1 13/16	3 5/8	13/16	7/16
SKF-449	FY 1.1/2 RM	1 1/2	6,910	5 1/8	4	21/32	1 17/32	2 1/32	4	29/32	29/64
SKF-450	FY 1 11/16 RM	1 11/16	7,470	5 3/8	4 1/8	11/16	1 19/32	2 7/64	4 1/4	29/32	15/32
SKF-451	F4B 112-RM	1 3/4	7,470	5 3/8	4 1/8	11/16	1 19/32	2 7/64	4 1/4	29/32	15/32
SKF-452	FY 1.15/16 RM	1 15/16	7,900	5 5/8	4 3/8	25/32	1 3/4	2 19/64	4 5/8	1 1/32	39/64
SKF-453	FY 2. RM	2	9,810	6 3/8	5 1/16	27/32	1 7/8	2 7/16	5	1 5/32	43/64
SKF-454	FY 2.3/16 RM	2 3/16	9,810	6 3/8	5 1/8	27/32	1 7/8	2 7/16	5	1 5/32	43/64

Four Bolt Flange
Standard Duty
Eccentric Locking - Narrow Inner Ring - M-Seal

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-8195	FY 3/4 FM	3/4	2,860	3 3/8	2 1/2	13/32	1 1/8	1 11/16	2 3/8	3/4	29/64
SKF-8200	F4B 014-FM	7/8	3,150	3 3/4	2 3/4	5/8	1 3/16	1 11/16	2 3/4	3/4	15/32
SKF-8210	FY 1. FM	1	3,150	3 3/4	2 3/4	5/8	1 3/16	1 11/16	2 3/4	3/4	15/32
SKF-8215	FY 1.1/8 FM	1 1/8	4,390	4 1/4	3 1/4	19/32	1 9/32	1 27/32	3 1/4	25/32	7/16
SKF-8220	F4B 103-FM	1 3/16	4,390	4 1/4	3 1/4	19/32	1 9/32	1 27/32	3 1/4	25/32	7/16
SKF-8225	FY 1.1/4 AFM	1 1/4	4,390	4 1/4	3 1/4	19/32	1 9/32	1 27/32	3 1/4	25/32	7/16
SKF-8230	F4B 104-FM	1 1/4	5,740	4 5/8	3 5/8	5/8	1 3/8	1 31/32	3 5/8	13/16	7/16
SKF-8235	FY 1 3/8 FM	1 3/8	5,740	4 5/8	3 5/8	5/8	1 3/8	1 31/32	3 5/8	13/16	7/16
SKF-8240	F4B 107-FM	1 7/16	5,740	4 5/8	3 5/8	5/8	1 3/8	1 31/32	3 5/8	13/16	7/16
SKF-8245	F4B 108-FM	1 1/2	6,910	5 1/8	4	21/32	1 17/32	2 3/16	4	29/32	15/32
SKF-8250	FY 1.11/16 FM	1 11/16	7,470	5 3/8	4 1/8	11/16	1 19/32	2 3/16	4 1/4	29/32	15/32
SKF-8255	F4B 115-FM	1 15/16	7,900	5 3/8	4 3/8	25/32	1 3/4	2 5/16	4 5/8	1 1/32	19/32
SKF-8260	F4B 200-FM	2	9,810	6 3/8	5 1/8	27/32	1 7/8	2 19/32	5	1 5/32	11/16
SKF-8265	F4B 203-FM	2 3/16	9,810	6 3/8	5 1/8	27/32	1 7/8	2 19/32	5	1 5/32	11/16

Four Bolt Flange
Standard Duty
Wide Width - ConCentra Lock
Air Handling Unit

Item No.	Mfg's Part No.	Bore	Load Rating	A	B	C	D	E	J	K	Y
SKF-8300	F4B 100-LF-AH	1	2,150	3	2 1/8	25/64	59/64	1 7/32	2 1/8	37/64	1/8
SKF-8290	F4B 103-LF-AH	1 3/16	4,390	4 1/4	3 1/4	33/64	1 9/32	1 21/32	3 19/64	25/32	5/32
SKF-8275	F4B 104-LF-AH	1 1/4	4,390	4 1/4	3 5/8	33/64	1 9/32	1 21/32	3 19/64	25/32	5/32
SKF-8295	F4B 107-LF-AH	1 7/16	5,740	4 41/64	3 5/8	33/64	1 23/64	1 59/64	3 47/64	53/64	9/64
SKF-8270	F4B 108-LF-AH	1 1/2	6,910	5 1/8	4	35/64	1 33/64	2 9/64	4 1/64	15/16	13/64
SKF-8280	FY 1 11/16 PF/AH	1 11/16	7,470	5 25/64	4 1/8	35/64	1 17/32	2 9/64	4 13/32	15/16	13/64
SKF-8285	F4B 115-LF-AH	1 15/16	7,900	5 5/8	4 3/8	19/32	1 11/16	2 25/64	4 41/64	1 7/64	23/64
SKF-8315	F4B 203-LF-AH	2 3/16	9,810	6 3/8	5 1/8	5/8	1 7/8	2 25/64	5 9/32	1 7/32	11/32
SKF-8320	F4B 207-LF-AH	2 7/16	11,900	6 7/8	5 5/8	43/64	2 3/64	2 29/32	5 5/8	1 11/32	11/32
SKF-8305	FY 2 11/16 PF/AH	2 11/16	12,900	7 3/8	5 7/8	21/32	2 1/16	2 25/64	6 1/16	1 5/32	5/32
SKF-8310	FY 2 15/16 PF/AH	2 15/16	14,800	7 3/4	6	3/4	2 1/8	3	6 3/8	1 3/16	1/8

Customer Service: (800) 253-0421 • (231) 777-3951
Reid SUPPLY AN ESSENTRA COMPANY

Thermoplastic housed units offer a more favorable economic choice. Available with either stainless inserts, for a higher level of corrosion resistance, or hard chrome coated inserts, where intermediate level corrosion resistance, balanced with further savings, is desired.

Thermoplastic housings are off-white in color and are made from glass reinforced PBT resin. These units offer favorable chemical resistance, are very resistant to moisture absorption and have excellent mechanical, thermal and electrical properties. Operating ranges for thermoplastic housed units are from -10 degrees Fahrenheit to 210 degrees Fahrenheit.

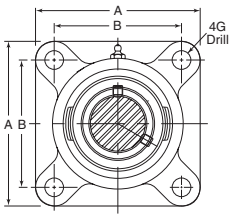
All thermoplastic housings are made with extremely smooth surfaces, have solid bases and all sleeves, bushings and grease fittings are made from 300 series stainless steel.

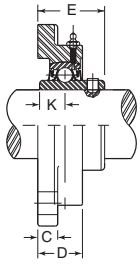
4-Bolt Flanges
Thermoplastic
B-Type Seals
Set Screw Locking

Food Grade

STAINLESS STEEL OPTION AVAILABLE







Item No.	Bore Diameter	A	B	C	D	E	G	K
Stainless Steel Bearing Inserts - Inch								
IP-142	½	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-143	⅝	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-144	¾	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-146	⅞	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-148	1	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-149	1⅛	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-151	1 3/16	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-152	1¼	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-153	1¼	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-154	1 5/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-155	1⅜	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-157	1 7/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-158	1½	5⅛	4	21/32	1 15/32	2 3/32	35/64	.7480
Hard Chrome Coated Bearing Inserts - Inch								
IP-227	¾	3⅜	2½	17/32	1 3/32	1 7/16	7/16	.5000
IP-229	⅞	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-231	1	3¾	2¾	9/16	1 3/32	1 7/16	7/16	.5630
IP-232	1⅛	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-234	1 3/16	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-235	1¼	4¼	3¼	9/16	1¼	1⅝	7/16	.6260
IP-236	1¼	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-237	1⅜	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-239	1 7/16	4 21/32	3⅝	⅝	1⅜	1 27/32	33/64	.6890
IP-240	1½	5⅛	4	21/32	1 15/32	2 3/32	35/64	.7480
Stainless Steel Bearing Inserts - Metric								
IP-145	20	86	64	13	28	36.5	11	12.7
IP-147	25	95	70	14	28	36.5	11	14.3
IP-150	30	108	83	14	32	41.3	11	15.9
IP-156	35	118	92	16	35	46.8	13	17.5
IP-159	40	130	102	17	37	53.2	14	19.0
Hard Chrome Coated Bearing Inserts - Metric								
IP-228	20	86	64	13	28	36.5	11	12.7
IP-230	25	95	70	14	28	36.5	11	14.3
IP-233	30	108	83	14	32	41.3	11	15.9
IP-238	35	118	92	16	35	46.8	13	17.5
IP-241	40	130	102	17	37	53.2	14	19.0

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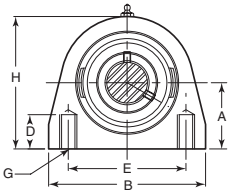
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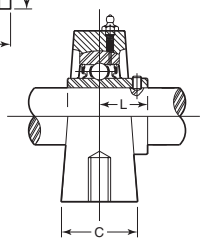
MOUNTED BEARINGS

Tapped Base Mounted Bearings
Thermoplastic
B-Type Seal
Set Screw Locking

STAINLESS STEEL OPTION AVAILABLE





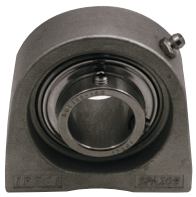


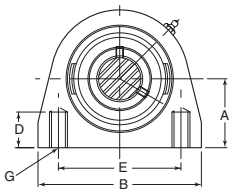
Food Grade

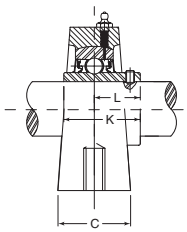
Item No.	Bore Diameter	A	B	C	D	E	G	H	L
Stainless Steel Bearing Inserts - Inch									
IP-178	½	1 5/16	2 7/8	1 3/8	½	2	3/8-16	2 19/32	.7205
IP-179	5/8	1 5/16	2 7/8	1 3/8	½	2	3/8-16	2 19/32	.7205
IP-180	¾	1 5/16	2 7/8	1 3/8	½	2	3/8-16	2 19/32	.7205
IP-182	⅞	1 7/16	3	1 9/16	½	2	3/8-16	2 29/32	.7756
IP-184	1	1 7/16	3	1 9/16	½	2	3/8-16	2 29/32	.7756
IP-185	1⅛	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-187	1 3/16	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-188	1¼	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-189	1¼	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-190	1 5/16	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-191	1⅜	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-193	1 7/16	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-194	1½	1 15/16	4¾	1⅞	41/64	3½	½-13	4	1.1890
Hard Chrome Coated Bearing Inserts - Inch									
IP-257	¾	1 5/16	2 7/8	1 3/8	½	2	3/8-16	2 19/32	.7205
IP-259	⅞	1 7/16	3	1 9/16	½	2	3/8-16	2 29/32	.7756
IP-261	1	1 7/16	3	1 9/16	½	2	3/8-16	2 29/32	.7756
IP-262	1⅛	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-264	1 3/16	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-265	1¼	1 11/16	4	1 11/16	½	3	7/16-14	3 5/16	.8740
IP-266	1¼	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-267	1⅜	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-269	1 7/16	1⅞	4 5/16	1⅞	41/64	3¼	½-13	3¾	1.0000
IP-270	1½	1 15/16	4¾	1⅞	41/64	3½	½-13	4	1.1890
Stainless Steel Bearing Inserts - Metric									
IP-181	20	33.3	73	35	13	50.8	—	66	18.3
IP-183	25	36.5	76	40	13	50.8	—	74	19.7
IP-186	30	42.9	102	43	13	76.2	—	84	22.2
IP-192	35	47.6	110	48	16	82.6	—	95	25.4
IP-195	40	49.2	120	48	16	88.9	—	101	30.2
Hard Chrome Coated Bearing Inserts - Metric									
IP-258	20	33.3	73	35	13	50.8	—	66	18.3
IP-260	25	36.5	76	40	13	50.8	—	74	19.7
IP-263	30	42.9	102	43	13	76.2	—	84	22.2
IP-268	35	47.6	110	48	16	82.6	—	95	25.4
IP-271	40	49.2	120	48	16	88.9	—	101	30.2

Tapped Base Mounted Bearings
All Stainless Steel
B-Type Seals
Set Screw Locking

Food Grade



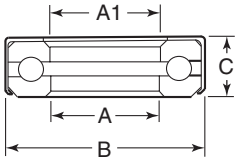




Item No.	Bore Diameter	A	B	C	D	E	G	K	L
Inch									
IP-100	½	1 5/16	2 7/8	1½	½	2	3/8-16	1.2205	.7205
IP-101	5/8	1 5/16	2 7/8	1½	½	2	3/8-16	1.2205	.7205
IP-102	¾	1 5/16	2 7/8	1½	½	2	3/8-16	1.2205	.7205
IP-104	⅞	1 7/16	3	1½	½	2	3/8-16	1.3386	.7756
IP-106	1	1 7/16	3	1½	½	2	3/8-16	1.3386	.7756
IP-107	1⅛	1 11/16	4	1½	5/8	2	7/16-14	1.5000	.8740
IP-109	1 3/16	1 11/16	4	1½	5/8	3	7/16-14	1.5000	.8740
IP-110	1¼	1 11/16	4	1½	5/8	3	7/16-14	1.5000	.8740
IP-111	1¼	1⅞	4¼	1⅞	¾	3¼	½-13	1.6890	1.0000
IP-112	1 5/16	1⅞	4¼	1⅞	¾	3¼	½-13	1.6890	1.0000
IP-113	1⅜	1⅞	4¼	1⅞	¾	3¼	½-13	1.6890	1.0000
IP-115	1 7/16	1⅞	4¼	1⅞	¾	3¼	½-13	1.6890	1.0000
IP-116	1½	1 15/16	4⅝	1⅞	¾	3½	½-13	1.9370	1.1890
IP-118	1 11/16	2⅛	5	2	¾	3¾	½-13	1.9370	1.1890
IP-119	1¾	2⅛	5	2	¾	3¾	½-13	1.9370	1.1890
IP-121	1 15/16	2¼	5½	2	⅞	4	5/8-11	2.0315	1.2835
IP-123	2	2¼	5½	2	⅞	4	5/8-11	2.0315	1.2835
Metric									
IP-103	20	33.3	73	38	13	50.8	UNC	31.0	18.3
IP-105	25	36.5	76	38	13	50.8	UNC	34.0	19.7
IP-108	30	42.9	102	38	16	76.2	UNC	38.1	22.2
IP-114	35	47.6	108	48	19	82.6	UNC	42.9	25.4
IP-117	40	49.2	117	48	19	88.9	UNC	49.2	30.2
IP-120	45	54.0	127	50.8	19	95.3	UNC	49.2	30.2
IP-122	50	57.2	140	101.6	22	50.8	UNC	51.6	32.6

Unground Thrust Bearings





Unground thrust bearings are designed for moderate speeds and medium thrust loads. These bearings utilize a full ball complement. The upper ring is free to rotate in the band and has a close fit in the bore for the shaft. The lower ring is fixed in the band and has a shaft clearance in the bore. Recommended for maximum speeds in the range of 1,200 rpm.

Item No.	A	A1	B	C	Balls No.	Balls Size	Speed Limit (rpm)
SKF-9035	.250	.275	.844	.333	10	.156	1,000
SKF-9040	.375	.400	1.047	.359	14	.156	1,000
SKF-9045	.453	.478	.859	.281	15	.125	1,000
SKF-9050	.500	.525	1.266	.437	10	.250	1,000
SKF-9055	.500	.525	1.000	.344	12	.188	1,000
SKF-9060	.625	.656	1.125	.344	16	.156	1,000
SKF-9065	.625	.656	1.422	.453	12	.250	1,000
SKF-9070	.750	.775	1.656	.545	15	.250	1,000
SKF-9075	.875	.900	1.891	.594	17	.250	1,000
SKF-9080	.9843	1.031	1.750	.625	16	.250	1,000
SKF-9085	1.000	1.075	2.000	.630	12	.375	1,000
SKF-9090	1.000	1.031	1.969	.625	18	.250	1,000
SKF-9095	1.016	1.031	1.750	.625	16	.250	1,000
SKF-9100	1.063	1.094	1.969	.625	18	.250	1,000
SKF-9105	1.125	1.150	2.094	.625	19	.250	1,000
SKF-9110	1.250	1.275	2.344	.625	23	.250	1,000
SKF-9115	1.437	1.462	2.469	.625	23	.250	1,000
SKF-9120	1.500	1.525	2.594	.625	25	.250	1,000

Cylindrical Rollers





Cylindrical roller thrust bearings have a comparatively large contact area between the roller and raceway. They can support greater loads and accommodate much more shock than ball thrust bearings of a similar size. Cylindrical roller thrust bearings are suitable for medium to heavy-duty applications with high thrust loads and low operating coefficient of friction requirements. The .032" thrust washer is punched from steel, through hardened and polished. These washers should be fully supported on their entire abutment surface. The .126" thrust washers are made from bearing steel. The raceways are ground while the bore and outside diameter are machined. Washers sold separately from bearings.

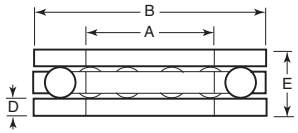
Item No.	INA	A	B	C	Load Ratings Lbs. Static	Load Ratings Lbs. Dynamic	Speed Limit (rpm)	.032" Washer Item No.	.126" Washer Item No.
INA-500	TC815	½	15/16	5/64	5,300	1,920	13,000	INA-560	—
INA-505	TC1018	5/8	1 1/8	5/64	6,600	2,170	11,000	INA-565	—
INA-510	TC1220	¾	1¼	5/64	8,000	2,410	9,500	INA-570	INA-625
INA-515	TC1423	7/8	1 7/16	5/64	10,500	2,900	8,500	INA-575	INA-630
INA-520	TC1427	7/8	1 11/16	5/64	18,600	4,400	7,500	INA-580	INA-635
INA-525	TC1625	1	1 9/16	5/64	12,100	3,150	7,500	INA-585	INA-640
INA-530	TC1828	1 1/8	1¾	5/64	16,300	3,850	6,500	INA-590	—
INA-535	TC2031	1¼	1 15/16	5/64	20,500	4,500	6,000	INA-595	INA-650
INA-540	TC2435	1½	2 3/16	5/64	23,700	4,850	5,000	INA-600	INA-655
INA-545	TC2840	1¾	2½	5/64	30,000	5,600	4,500	INA-605	INA-660
INA-550	TC3244	2	2¾	5/64	32,500	5,800	4,000	INA-610	INA-665

Note: For oil lubrication use 25 percent of value with grease lubrication.

THRUST & TURNTABLE BEARINGS

Nylon Ball Retainers





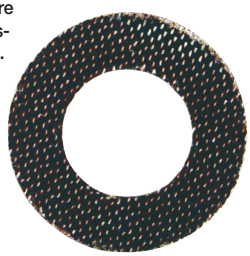
This new concept in thrust bearings provides superior performance and economical characteristics. The unique design of the molded nylon retainer captures the balls in precision molded pockets assuring smooth free turning and quiet operation. The nylon retainer is lightweight, provides natural lubricity and is corrosion resistant. Balls are precision grade 100 tolerance +/-.0001, +/-.0025mm. The thrust washers are hardened steel providing high strength to wear ratio for long life. Available with steel or stainless steel balls. Washers are included with bearing.

Steel			Stainless										
Item No.	Load Rating (Lbs.) @ 15 rpm	Load Rating (Lbs.) @ 5000 rpm	Item No.	Load Rating (Lbs.) @ 15 rpm	Load Rating (Lbs.) @ 5000 rpm	Nominal ID A	Actual ID A	Nominal OD B	Actual OD B	No. of Balls	Ball Size	D	E
TQ-012	120	17	TQS-012	84	12	1/8	.128/.133	7/16	.430/.437	6	.0938	.050	.190/.196
TQ-018	126	18	TQS-018	88	12	3/16	.191/.195	1/2	.492/.499	7	.0938	.050	.190/.196
TQ-025	131	18	TQS-025	92	12	1/4	.253/.258	9/16	.55/.562	8	.0938	.050	.190/.196
TQ-031	136	19	TQS-031	95	13	5/16	.316/.321	5/8	.617/.624	9	.0938	.050	.190/.196
TQ-037	175	25	TQS-037	123	17	3/8	.378/.383	13/16	.805/.812	6	.1250	.062	.245/.253
TQ-043	190	27	TQS-043	133	19	7/16	.441/.446	7/8	.867/.874	7	.1250	.062	.245/.253
TQ-050	201	29	TQS-050	140	20	1/2	.503/.508	15/16	.930/.937	8	.1250	.062	.245/.253
TQ-056	213	30	TQS-056	149	21	9/16	.566/.571	1	.992/.999	9	.1250	.062	.245/.253
TQ-062	251	36	TQS-062	175	25	5/8	.628/.635	1 1/8	1.115/1.124	6	.1563	.093	.336/.348
TQ-068	273	39	TQS-068	191	27	11/16	.691/.698	1 3/16	1.178/1.187	7	.1563	.093	.336/.348
TQ-075	293	42	TQS-075	205	29	3/4	.753/.760	1 1/4	1.240/1.249	8	.1563	.093	.336/.348
TQ-081	314	45	TQS-081	220	31	13/16	.816/.823	1 5/16	1.303/1.312	9	.1563	.093	.336/.348
TQ-087	328	47	TQS-087	196	33	7/8	.878/.885	1 3/8	1.365/1.374	10	.1563	.093	.336/.348
TQ-093	384	55	TQS-093	268	38	15/16	.941/.950	1 7/16	1.551/1.562	9	.1875	.125	.427/.447
TQ-100	459	66	TQS-100	321	46	1	1.003/1.012	1 5/8	1.613/1.624	10	.1875	.125	.427/.447
TQ-112	504	72	TQS-112	352	50	1 1/8	1.128/1.137	1 3/4	1.738/1.749	12	.1875	.125	.427/.447
TQ-125	545	78	TQS-125	381	54	1 1/4	1.253/1.262	1 7/8	1.863/1.874	14	.1875	.125	.427/.447
TQ-150	522	75	TQS-150	365	52	1 1/2	1.503/1.512	2 1/8	2.113/2.124	14	.1875	.125	.427/.447

Note: Dimension D tolerance for .050 and .062 is +/- .003, .125 is +/-.005.

Self-Lubricating Metal Backed Thrust Washers

Fiberglide® series thrust bearings offer an economical approach to obtaining self-lubrication where high loads are encountered. They are comprised of zinc-plated mild steel with Fiberglide laminated to one face. These bearings are recommended for use where metal backing is preferred. These bearings are self-lubricating and tolerate a compressive strength of 38,000 psi with operating temperature range of -320 degrees Fahrenheit to 300 degrees Fahrenheit. Coefficient of friction can be obtained as low as 0.03 with no added lubricants.



Item No.	Max. Shaft Diameter	Outside Diameter	Thickness
RBC-770	.5	1	.058
RBC-780	.625	1.25	.058
RBC-790	.75	1.5	.058
RBC-800	.875	1.75	.058
RBC-810	1	2	.058
RBC-820	1.25	2.25	.058
RBC-830	1.5	2.625	.058
RBC-840	2	3.25	.058

Turntable Bearings Lazy Susan





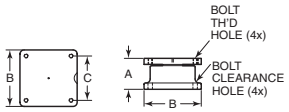
Used for turntables and fixtures of all kinds. 5/16" thick. Has a full race of precision ground ball bearings for smooth gliding rotation. Pre-assembled. Bearing is interlocked for life time of unit. Zinc coated steel. 9" and 12" round bearings are available greased.

Item No.	Size	Shape	Center Hole Dia.	Nominal Load Capacity (Lbs.)	Use With Turntables Approx. Dia.
LS-3	3	Square	1 1/4	200	Up to 18
LS-4	4	Square	2 5/32	300	12 to 25
LS-6	6	Square	4 11/16	500	15 to 30
LS-9	9	Round	4 1/2	750	17 to 35
LS-9G*	9	Round	4 1/2	750	17 to 35
LS-12	12	Round	6 9/32	1,000	Over 20
LS-12G*	12	Round	6 9/32	1,000	Over 20

*Greased

Turntable Bearings: Lockable or Non-Lockable

SKF



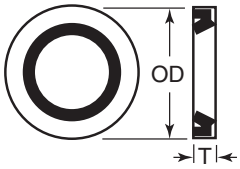


Heavy duty turntables are ideal for swivel displays, welding tables, industrial assemblies and many other turntable applications. May be mounted using the recommended bolts or welded directly to the fixture. All sizes can be purchased as lockable or non-lockable units.

Non-Locking		Locking		Load Cap. Lbs.	A Height	B Lgth.	C Center/ Center	Mtg. Bolt Size
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.					
Cast Iron								
SKF-80	UT-01-CN	SKF-85	UT-01-CL	1,000	1.77	3.25	2.5	1/4-20
SKF-81	UT-02-CN	SKF-86	UT-02-CL	2,500	1.92	3.5	2.75	1/4-20
SKF-82	UT-05-CN	SKF-87	UT-05-CL	5,000	2.43	5	4	3/8-16
SKF-83	UT-10	SKF-88	UT-10-CL	10000	2.72	6.5	5.5	3/8-16

Seals for Closed Type Bearings



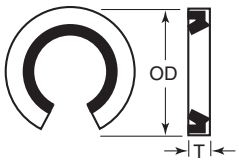


Double acting seals for Super Smart, Super and Precision closed type ball bushing bearings.

Item No.	Thomson	For Use With Thomson Bearing No.	Race Dia.	T	OD
TLM-250	S-250	Super-4 or 4812	.250	.125	.504
TLM-255	S-375	Super-6 or 61014	.375	.125	.629
TLM-260	S-500	Super-8 or 81420	.500	.125	.879
TLM-265	S-625	SSU-10 or Super-10 or 101824	.625	.125	1.129
TLM-270	S-750	SSU-12 or Super-12 or 122026	.750	.125	1.254
TLM-275	S-1000	SSU-16 or Super-16 or 162536	1.000	.187	1.567
TLM-280	S-1250	SSU-20 or Super-20 or 203242	1.250	.375	2.004
TLM-285	S-1500	SSU-24 or Super-24 or 243848	1.500	.375	2.379

Seals For Open Type Bearings

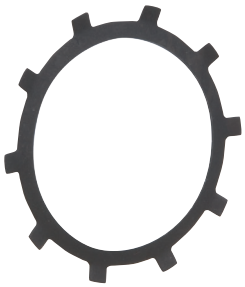


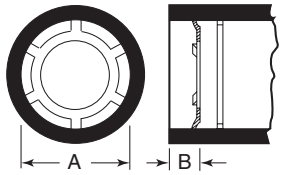


Double acting seals for Super Smart, Super and Precision open type ball bushing bearings.

Item No.	Thomson	For Use With Thomson Bearing No.	Race Dia.	T	OD
TLM-305	OPN-S-500	Super-8 or 81420	.500	.125	.879
TLM-310	OPN-S-625	SSU-10 or Super-10 or 101824	.625	.125	1.129
TLM-315	OPN-S-750	SSU-12 or Super-12 or 122026	.750	.125	1.254
TLM-320	OPN-S-1000	SSU-16 or Super-16 or 162536	1.000	.187	1.567
TLM-325	OPN-S-1250	SSU-20 or Super-20 or 203242	1.250	.375	2.004
TLM-330	OPN-S-1500	SSU-24 or Super-24 or 243848	1.500	.375	2.379

Internal Retaining Rings (Type PR)



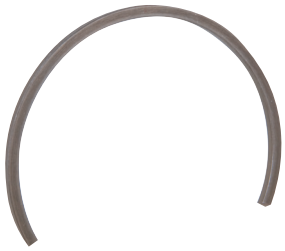


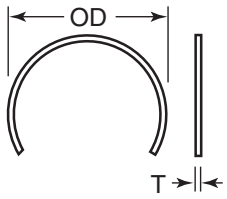
Push in retaining rings are for use with Super Smart, Super and Precision ball bushing bearings, closed type. Each retaining ring is installed inside the housing bore at each end of the bearing.

Item No.	Thomson	For Use With Thomson Bearing No.	A	B
TLM-150	PR250	Super-4 or 4812	.500	.060
TLM-155	PR375	Super-6 or 61014	.625	.060
TLM-160	PR500	Super-8 or 81420	.875	.080
TLM-165	PR625	SSU-10 or Super-10 or 101824	1.125	.080
TLM-170	PR750	SSU-12 or Super-12 or 122026	1.250	.080
TLM-175	PR1000	SSU-16 or Super-16 or 162536	1.563	.080
TLM-180	PR1250	SSU-20 or Super-20 or 203242	2.000	.080
TLM-185	PR1500	SSU-24 or Super-24 or 243848	2.375	.100

Note: Dimension B minimum end space required.

External Retaining Rings (Type C)





Fits into the retaining ring grooves on the outside diameter of Super Smart, Super and Precision ball bushing bearings to provide external mounting retention.

Item No.	Thomson	For Use With Thomson Bearing No.	T	OD
TLM-205	C250	Super-4 or 4812	.035	.550
TLM-210	C375	Super-6 or 61014	.035	.673
TLM-215	C500	Super-8 or 81420	.042	.923
TLM-220	C625	SSU-10 or Super-10 or 101824	.050	1.180
TLM-225	C750	SSU-12 or Super-12 or 122026	.050	1.301
TLM-230	C1000	SSU-16 or Super-16 or 162536	.062	1.620
TLM-235	C1250	SSU-20 or Super-20 or 203242	.062	2.040
TLM-240	C1500	SSU-24 or Super-24 or 243848	.078	2.429

Bearing Grease



LinearLube is designed for use in bearing applications. It is 100% synthetic grease with concentrated PTFE particles. It will not volitize or oxidize at high operating temperatures or form corrosive deposits. Contains no petroleum products. It is non-toxic (FDA listed and USDA rated H1, suitable for incidental contact with food or potable water) and non-polluting. No adverse effects on plastics. Operates effectively from -65 degree Fahrenheit to +450 degree Fahrenheit. 14½ oz. tube.

Item No.	Mfg's Part No.	Description
LL-1	LINEARLUBE	Linear Lube Bearing Grease

SPHERICAL ROD ENDS & BEARINGS

Female Thread - Plain Ball End Stamped Style

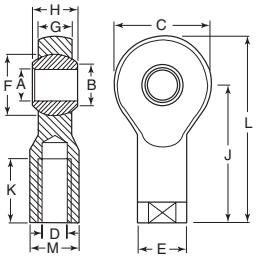


The economy stamped style combines high strength with low cost. Made from low carbon steel and plated for corrosion resistance. The ball is case hardened.

Item No.	Thread Size A	AA	E	G	H	J	L	M	N	O	P
Standard Threads											
ARE-10	10-32	.1900	.750	1.062	.500	1.437	.430	.250	.312	.450	.312
ARE-20	1/4-28	.2500	.850	1.312	.687	1.737	.510	.287	.375	.515	.375
ARE-30	5/16-24	.3125	1.015	1.375	.687	1.882	.618	.305	.437	.590	.437
ARE-40	3/8-24	.3750	1.125	1.625	.875	2.187	.713	.400	.500	.725	.500
ARE-50	1/2-20	.5000	1.470	2.125	1.125	2.860	.931	.500	.625	1.010	.625
Left Hand Threads											
ARE-240	3/8-24	.3750	1.125	1.625	.875	2.187	.713	.400	.500	.725	.500

Female Thread Inch

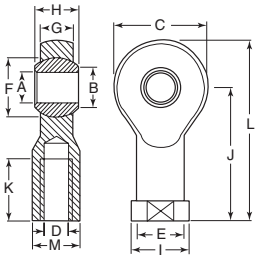




Item No.	A	B	C	D	E	F	G	H	J	K	L	M
I-500	.190	.307	.625	10-32	.406	.438	.246	.312	1.062	.500	1.374	.312
I-502	.250	.354	.750	1/4-28	.469	.516	.272	.375	1.312	.687	1.687	.375
I-504	.312	.447	.875	5/16-24	.500	.625	.340	.437	1.375	.687	1.813	.437
I-506	.375	.504	1.000	3/8-24	.687	.718	.394	.500	1.625	.812	2.125	.562
I-508	.437	.600	1.125	7/16-20	.750	.828	.456	.562	1.812	.937	2.374	.625
I-510	.500	.700	1.312	1/2-20	.875	.938	.487	.625	2.125	1.062	2.781	.750
I-512	.625	.838	1.500	5/8-18	1.000	1.125	.545	.750	2.500	1.375	3.250	.875
I-514	.750	.978	1.750	3/4-16	1.125	1.312	.676	.875	2.875	1.562	3.750	1.000

Female Thread Metric

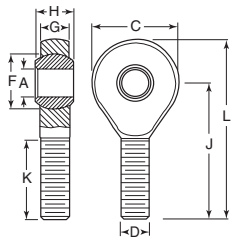




Item No.	A	B	C	D	E	F	G	H	F	J	K	L	M
I-530	5	7.7	18	M5 x .8	9.0	11	6.0	8	11	27	10	36	SW9
I-532	6	8.9	20	M6 x 1.0	10.0	13	7.0	9	13	30	12	40	SW11
I-534	8	10.3	24	M8 x 1.25	12.5	16	9.0	12	16	36	16	48	SW14
I-536	10	12.9	30	M10 x 1.5	15.0	19	10.5	14	19	43	20	58	SW17
I-538	12	15.4	34	M12 x 1.75	17.5	22	12.0	16	22	50	22	67	SW19
I-540	14	16.8	38	M14 x 2.0	20.0	25	13.5	19	25	57	25	76	SW22
I-542	16	19.3	42	M16 x 2.0	22.0	29	15.0	21	29	64	28	85	SW22

Male Thread Inch and Metric

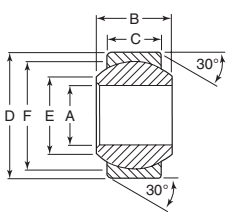




Item No.	A	C	D	F	G	H	J	K	L
Inch									
I-516	.190	.625	10-32	.438	.234	.312	1.250	.750	1.563
I-518	.250	.750	1/4-28	.516	.250	.375	1.562	1.000	1.937
I-520	.312	.875	5/16-24	.625	.312	.437	1.875	1.250	2.312
I-522	.375	1.000	3/8-24	.718	.359	.500	1.938	1.250	2.438
I-524	.500	1.312	1/2-20	.938	.453	.625	2.438	1.500	3.094
Metric									
I-550	6	20	M6 x 1.0	12.7	7.0	9	36	21	46
I-552	8	24	M8 x 1.25	15.8	9.0	12	42	25	54
I-554	10	30	M10 x 1.5	19.0	10.5	14	48	28	63
I-558	14	38	M14 x 2.0	25.4	13.5	19	60	36	79

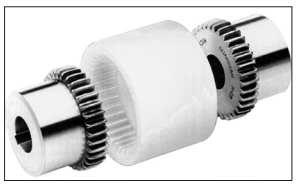
Spherical Bearings Inch and Metric

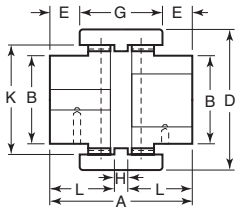




Item No.	A	B	C	D	E	F
Inch						
I-570	.1900	.312	.218	.5625	.3070	.438
I-571	.2500	.375	.250	.6562	.3540	.516
I-572	.3125	.437	.281	.7500	.4470	.625
I-573	.3750	.500	.312	.8125	.5040	.718
I-575	.5000	.625	.390	1.0625	.7000	.938
I-576	.6250	.750	.500	1.1875	.8381	1.125
I-577	.7500	.875	.593	1.4375	.9781	1.312
Metric						
I-580	5	8	6.0	13	7.7	11.1
I-582	8	12	9.0	19	10.3	15.8
I-583	10	14	10.5	22	12.9	19.0
I-588	20	25	18.0	40	24.3	34.8
I-590	25	31	22.0	47	29.5	42.8

M-Style





Type	Nominal Torque	Maximum Torque	Nominal HP @ 1750 RPM	Nominal HP @ 1140 RPM	Max. RPM	Bore In. Min/Max.
M-14	86	173	2.5	1.5	14,000	.187/.551
M-24	86	347	4.5	3.2	10,600	.375/.945
M-28	390	781	10.5	7	8,500	.250/1.125
M-32	520	1,041	14.5	9.5	7,500	.437/1.26
M-38	694	1,388	22.1	12.5	6,700	.437/1.50

Nylon sleeve and steel hubs allow high ambient temperature operation without lubrication, or maintenance. Continuous operating ambients of 180 degrees Fahrenheit with peak temperatures to 250 degrees Fahrenheit. Nylon sleeves resistant to dirt, moisture, most chemicals and petroleum products. Double crowned tooth design provides free axial movement. Low friction and minimum stress during misalignment. No bolts, pins, flanges or protrusions to affect balance or safety. Blind assembly with slip together components for easy inspection and adjustment without disassembly. Available with no bore (except centering pilot hole), bores and bores with keyways.

For complete coupling, order two hubs and one nylon sleeve of the same type.

Nylon Sleeves



Item No.	Type	No. of Teeth
GU-400	M-14	20
GU-401	M-19	24
GU-402	M-24	28
GU-403	M-28	34
GU-405	M-38	44

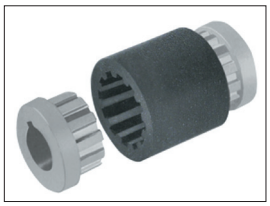
Note: Torque in inch pounds. Nominal torque allows fro 180 degrees F ambient, full misalignment and/or maximum RPM.

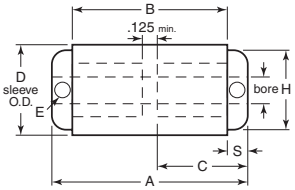
Hubs



Item No.	Type	A	B	D	E	G	H	K	L	Set Screws	Bore	Keyseat
Hubs with No Bore												
GU-100	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	—	—	—
GU-101	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	—	—	—
GU-105	M-38	3.15	2.30	3.25	.65	1.90	.35	2.70	1.40	—	—	—
Hubs with Bore & Keyway												
GU-201	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	10-24	½	1/8 x 1/16
GU-202	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	10-24	⅝	3/16 x 3/32
GU-204	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	¼-20	⅝	3/16 x 3/32
GU-205	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	¼-20	¾	3/16 x 3/32
GU-206	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	¼-20	½	1/8 x 1/16
GU-207	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	¼-20	⅝	3/16 x 3/32
GU-208	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	¼-20	¾	3/16 x 3/32
GU-211	M-28	3.17	1.75	2.58	.69	1.80	.37	2.12	1.40	¼-20	⅝	3/16 x 3/32
GU-212	M-28	3.17	1.75	2.58	.69	1.80	.37	2.12	1.40	¼-20	¾	3/16 x 3/32
GU-213	M-28	3.17	1.75	2.58	.69	1.80	.37	2.12	1.40	¼-20	⅞	3/16 x 3/32
GU-214	M-28	3.17	1.75	2.58	.69	1.80	.37	2.12	1.40	¼-20	1⅛	¼ x ⅛

Gear Grip





Neoprene and urethane rubber sleeve compounds provide excellent torsional vibration dampening, absorb load pulsations and minimize drive line shock. The load is distributed evenly over a wide splined contact area. Gear grip couplings handle shock, minimize assembly time, require no special tools and allow for "blind" assembly. Not affected by moisture, dirt and abrasives. No lubrication, adjustments or maintenance is required. Provides protection to the expensive drive train during extreme overload, jamming or high shock. Electrical isolation. No possibility of metal-to-metal contact under severe overload, wear or coupling failure. Parallel misalignment to .040 inches, except Type A, which is .016 inches. Angular misalignment to 7.5 degree maximum.

For complete coupling, order two hubs and one sleeve of the same size.

Sleeves



Urethane



Neoprene

Item No.	Material	Size	B	D	Nominal Torque Inch/Lbs.	Max. Torque Inch/Lbs.	HP @ 1750 rpm	Max. Speed rpm	Stiffness in # (Rad)
GU-1000	Neoprene	A	.56	.78	4	18	.11	25,000	28
GU-1001	Urethane	A	.56	.80	13	55	.36	25,000	57
GU-1002	Neoprene	B	.85	1.20	16	65	.44	16,800	124
GU-1003	Urethane	B	.85	1.14	40	160	1.10	16,800	183
GU-1004	Neoprene	C	1.59	1.20	30	110	.83	16,500	107
GU-1005	Urethane	C	1.59	1.14	50	200	1.30	16,500	115
GU-1006	Neoprene	D	1.59	1.40	60	250	1.70	15,500	270
GU-1007*	Neoprene	D	1.59	1.56	72	400	2.00	15,500	225
GU-1008	Neoprene	E	1.59	1.84	108	440	3.00	15,000	630
GU-1009	Urethane	E	1.59	1.82	185	738	5.00	15,000	423
GU-1011	Urethane	F	1.59	2.37	200	800	5.50	10,000	1,530

*Reinforced

Note: One angular degree of twist = .01745 radians.

Hubs



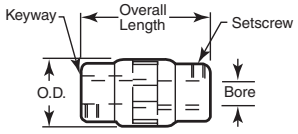
Item No.	Size	A	C	H	S	No. of Teeth	E Set Screws	Bore	Keyseat
Hubs with Bore									
GU-2101	A	1.00	.50	.70	.22	8	8-32	⅛	—
GU-2102	A	1.00	.50	.70	.22	8	8-32	3/16	—
GU-2103	A	1.00	.50	.70	.22	8	8-32	¼	—
GU-2104	A	1.00	.50	.70	.22	8	8-32	5/16	—
GU-2105	A	1.00	.50	.70	.22	8	8-32	⅜	—
GU-2201	B	1.50	.72	1.15	.33	8	¼-20	¼	—
GU-2202	B	1.50	.72	1.15	.33	8	¼-20	5/16	—
GU-2203	B	1.50	.72	1.15	.33	8	¼-20	⅜	—
GU-2205	B	1.50	.72	1.15	.33	8	¼-20	½	—
GU-2302	C	2.25	1.09	1.15	.33	8	¼-20	⅜	—
GU-2304	C	2.25	1.09	1.15	.33	8	¼-20	½	—
GU-2401	D	2.38	1.14	1.45	.38	10	¼-20	⅜	1/8 x 1/16
GU-2403	D	2.38	1.14	1.45	.38	10	¼-20	½	1/8 x 1/16
GU-2404	D	2.38	1.14	1.45	.38	10	¼-20	⅝	3/16 x 3/32
GU-2501	E	2.38	1.14	1.63	.38	12	¼-20	⅜	1/8 x 1/16
GU-2503	E	2.38	1.14	1.63	.38	12	¼-20	½	1/8 x 1/16
GU-2504	E	2.38	1.14	1.63	.38	12	¼-20	⅝	3/16 x 3/32
GU-2505	E	2.38	1.14	1.63	.38	12	¼-20	¾	3/16 x 3/32
GU-2602	F	2.50	1.19	2.06	.43	12	5/16-18	¾	3/16 x 3/32
GU-2603	F	2.50	1.19	2.06	.43	12	5/16-18	⅞	3/16 x 3/32
GU-2605	F	2.50	1.19	2.06	.43	12	5/16-18	1	¼ x ⅛

COUPLINGS, COLLARS & KEYED SHAFTS

Shaft Couplings
Three Jaw Type







Complete with keyway and set screw. No lubrication needed. Bored to +.001/-.000" tolerances. **Must order two coupling halves and one insert of same out side diameter for complete coupling.** Insert types include: Bost-Bronz inserts for high torque loads, particularly at slower speeds, rubber for quietness particularly at motor speeds, polyurethane for moderate to heavy shock loads.

Shaft Couplings
Three Jaw Type
Inch

Boston Gear

Bost-Bronz		Rubber		Polyurethane		
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	Outside Dia.
GE-217	XFCBB12	GE-218	XFCR12	GE-219	XFCA12	1.25
GE-227	XFCBB15	GE-228	XFCR15	GE-229	XFCA15	1.50
GE-237	XFCBB20	GE-238	XFCR20	GE-239	XFCA20	2.00
GE-247	XFCBB25	GE-248	XFCR25	GE-249	XFCA25	2.50

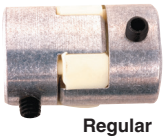
Coupling Halves

Boston Gear

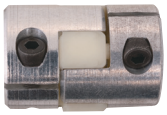
Item No.	Mfg's Part No.	Boston	Bore	Overall Length	
				Assembled	Unassembled
1.25" Outside Diameter					
GE-211	FC12 3/8	FC12 3/8	⅜	2.32	3.19
GE-213	FC12 1/2	FC12 1/2	½	2.32	3.19
1.50" Outside Diameter					
GE-221	FC15 1/2	FC15 1/2	½	2.76	3.75
GE-223	FC15 5/8	FC15 5/8	⅝	2.76	3.75
GE-224	FC15 3/4	FC15 3/4	¾	2.76	3.75
GE-225	FC15 7/8	FC15 7/8	⅞	2.76	3.75
2.00" Outside Diameter					
GE-230	FC20 1/2	FC20 1/2	½	3.69	4.81
GE-232	FC20 5/8	FC20 5/8	⅝	3.69	4.81
GE-233	FC20 3/4	FC20 3/4	¾	3.69	4.81
GE-234	FC20 7/8	FC20 7/8	⅞	3.69	4.81
GE-236	FC20-1	FC20-1	1	3.69	4.81
2.50" Outside Diameter					
GE-241	FC25 3/4	FC25 3/4	¾	4.13	5.38
GE-242	FC25 7/8	FC25 7/8	⅞	4.13	5.38
GE-244	FC25 1 1/8	FC25 1 1/8	1⅛	4.13	5.38
GE-246	FC25 1 1/4	FC25 1 1/4	1¼	4.13	5.38

Note: Unassembled overall length is the dimension for assembly clearance.

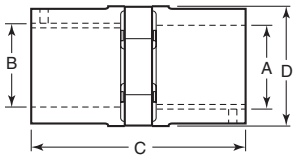
Shaft Couplings
Miniature Flexible
Zero Backlash Jaw



Regular



Clamp Style



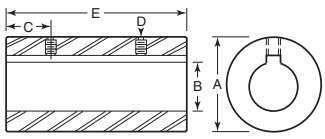
Item No.	C	D	Set Screws	Cap Screws for Clamp Type	Inertia (In # Sec²)	Stiffness	Torque
GU-3004, GU-3013, GU-4001, GU-4013	0.866	0.551	6-32	4-40	1.7 x 10-6	127	20
GU-3101 - 3110, GU-4101-4110	1.18	0.787	8-32	5-40	8.8 x 10-6	279	54
GU-3214 - 3219, GT-4212 - 4219	1.33	1.18	8-32	6-32	5.3 x 10-5	1,014	130
GU-3318 - 3321, GU04317 - 4321	2.6	1.57	10-24	8-32	3.5 x 10-4	3,042	174

Machined aluminum hubs with 92 durometer "spiders". Designed for fractional and sub-fractional motors. Absorbs parallel and angular misalignment. Excellent shock dampening and vibration isolation. Cross clamping available for positive shaft lock. Stiffness is in pounds per inch radian. All bores larger than ½" have a 3⁄16" x 5⁄32" keyway.

Regular Item No.	Clamp Style Item No.	Bore Size A	Bore Size B
—	GU-4001	⅛	⅛
GU-3004	—	⅛	¼
GU-3101	GU-4101	3⁄16	3⁄16
GU-3105	GU-4102	3⁄16	¼
GU-3013	GU-4013	¼	¼
GU-3107	GU-4107	¼	⅜
GU-3108	GU-4108	5⁄16	5⁄16
GU-3109	GU-4109	5⁄16	⅜
GU-3110	GU-4110	⅜	⅜
—	GU-4212	⅜	⅜
GU-3214	GU-4214	⅜	½
GU-3219	GU-4219	½	½
—	GU-4317	½	⅝
GU-3318	GU-4318	½	¾
GU-3319	GU-4319	⅝	⅝
GU-3320	—	⅝	¾
GU-3321	GU-4321	¾	¾

Rigid Sleeve Couplings





These steel couplings provide a fixed union between two shafts which are precisely aligned.

Item No.	+.000 -.010 A	+.001 -.000 B	+/-.010 C	D	+/-.015 E	Keyway Size
SC-250	.50	.250	.19	8-32 x ⅛	.75	None
SC-312	.63	.312	.25	8-32 x ⅛	1.00	None
SC-375	.75	.375	.25	10-24 x ⅛	1.00	None
SC-500	1.00	.500	.38	¼-20 x ¼	1.50	⅛ x 1⁄16
SC-625	1.25	.625	.50	5⁄16-18 x 5⁄16	2.00	3⁄16 x 3⁄32
SC-750	1.50	.750	.50	5⁄16-18 x ⅜	2.00	3⁄16 x 3⁄32
SC-875	1.75	.875	.50	5⁄16-18 x ⅜	2.00	3⁄16 x 3⁄32
SC-1000	2.00	1.000	.75	⅜-16 x ½	3.00	¼ x ⅛
SC-1125	2.13	1.125	.75	⅜-16 x ½	3.00	¼ x ⅛
SC-1250	2.25	1.250	1.00	⅜-16 x ½	4.00	¼ x ⅛
SC-1375	2.50	1.375	1.00	⅜-16 x ½	4.50	5⁄16 x 5⁄32

Shaft Couplings
Rigid Clamp Style



One Piece



Two Piece

Made of carbon steel. Available with or without a keyway. Clamp screws are forged and treated with an antivibration coating to keep them from loosening.

Ridgid Clamp Style Couplings
Steel
Inch

One Piece Item No.	Two Piece Item No.	Bore A	Keyway A	Bore B	Keyway B	Length	OD
CC-105	CC-405	.500	1/8	.500	1/8	1 3/4	1 1/8
—	CC-406	.625	3/16	.500	1/8	2	1 5/16
CC-107	CC-407	.625	3/16	.625	3/16	2	1 5/16
—	CC-409	.750	3/16	.625	3/16	2 1/4	1 1/2
CC-110	CC-410	.750	3/16	.750	3/16	2 1/4	1 1/2
CC-112	CC-412	.875	3/16	.875	3/16	2 1/2	1 5/8
CC-115	CC-415	1.000	1/4	1.000	1/4	3	1 3/4
CC-116	CC-416	1.125	1/4	1.125	1/4	3 1/8	1 7/8
CC-119	CC-419	1.250	1/4	1.250	1/4	3 1/4	2 1/16
CC-123	CC-423	1.500	3/8	1.500	3/8	3 7/8	2 5/8

w/o Keyway

One Piece Item No.	Two Piece Item No.	Bore A	Bore B	Length	OD
CC-301	—	.250	.250	1	5/8
CC-302	—	.375	.250	1 3/8	7/8
CC-303	CC-503	.375	.375	1 3/8	7/8
CC-304	CC-504	.500	.375	1 3/4	1 1/8
CC-305	CC-505	.500	.500	1 3/4	1 1/8
CC-306	—	.625	.500	2	1 5/16
CC-307	CC-507	.625	.625	2	1 5/16
CC-309	—	.750	.625	2 1/4	1 1/2
CC-310	CC-510	.750	.750	2 1/4	1 1/2
CC-312	—	.875	.875	2 1/2	1 5/8
CC-313	—	1.000	.500	3	1 3/4
CC-315	CC-515	1.000	1.000	3	1 3/4
CC-319	CC-519	1.250	1.250	3 1/4	2 1/16
CC-323	—	1.500	1.500	3 7/8	2 5/8

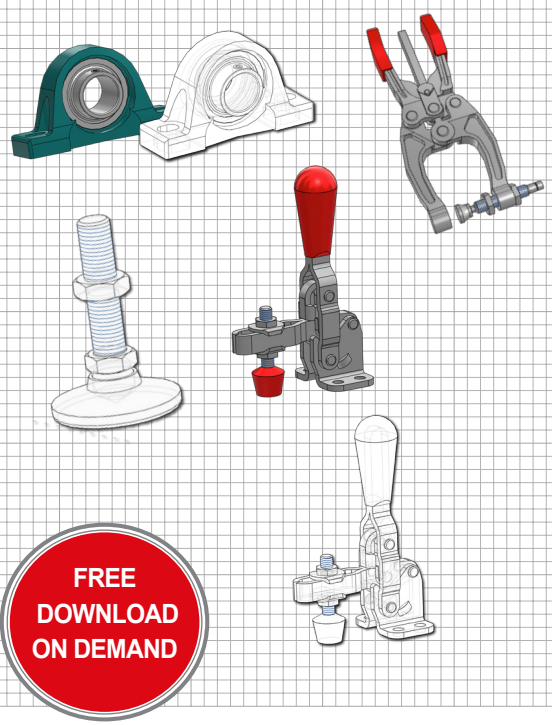
Machinable Couplings
Single Spit
Black Oxide



Machinable couplings provide an affordable alternative to expensive set-up costs and special machining. The single split style couplings come with a variety of standard bore sizes on one end, and a pilot hole on the other that can be rebored to any diameter less than the opposing bore.

Item No.	Bore 1	Bore 2	OD	Length	Screw Size
CC-150	.500	.235	1.250	1.875	8-32 x 3/8
CC-151	.625	.235	1.500	2.250	10-32 x 1/2
CC-153	.875	.235	1.875	2.875	1/4-28 x 5/8
CC-155	1.125	.360	2.125	3.250	1/4-28 x 5/8
CC-157	1.375	.360	2.375	3.625	1/4-28 x 5/8
CC-158	1.500	.485	2.500	3.750	1/4-28 x 3/8
CC-159	1.750	.485	3.000	4.500	5/16-24 x 7/8

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COUPLINGS, COLLARS & KEYED SHAFTS

These collars offer full radial holding power without marring the shaft. Two piece design allows for installation without disassembling equipment. Metric dimensions are shown in millimeters.

Shaft Collars
One and Two Piece
Inch
Steel - Stainless Steel - Aluminum

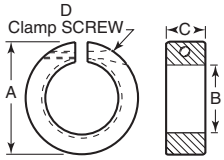
STAINLESS STEEL OPTION AVAILABLE



One Piece



Two Piece



One-Piece Item No.	One-Piece Mfg's Part No.	Two-Piece Item No.	Two-Piece Mfg's Part No.	A	B	C	Clamp Screw D
Steel							
CTC-2	CCI-12-1-S	—		1/2	1/8	1/4	4-40
CTC-4	CCI-18-1-S	CTC-104		5/8	3/16	5/16	4-40
CTC-6	CCI-25-1-S	CTC-106		1 1/16	1/4	5/16	4-40
CTC-8	CCI-31-1-S	CTC-108		1 1/16	5/16	5/16	4-40
CTC-10	CCI-37-1-S	CTC-110		7/8	3/8	11/32	6-32
CTC-12	CCI-43-1-S	CTC-112		15/16	7/16	3/8	6-32
CTC-14	CCI-50-1-S	CTC-114		1 1/8	1/2	13/32	8-32
CTC-16	CCI-56-1-S	CTC-116		1 1/4	9/16	7/16	10-32
CTC-18	CCI-62-1-S	CTC-118		1 5/16	5/8	7/16	10-32
CTC-20	CCI-68-1-S	CTC-120		1 3/8	1 1/16	7/16	10-32
CTC-22	CCI-75-1-S	CTC-122		1 1/2	3/4	1/2	1/4-28
CTC-24	CCI-81-1-S	CTC-124		1 5/8	13/16	1/2	1/4-28
CTC-26	CCI-87-1-S	CTC-126		1 5/8	7/8	1/2	1/4-28
CTC-28	CCI-93-1-S	CTC-128		1 3/4	15/16	1/2	1/4-28
CTC-30	CCI-100-1-S	CTC-130		1 3/4	1	1/2	1/4-28
CTC-32	CCI-106-1-S	CTC-132		1 7/8	1 1/16	1/2	1/4-28
CTC-34	CCI-112-1-S	CTC-134		1 7/8	1 1/8	1/2	1/4-28
CTC-36	CCI-118-1-S	CTC-136		2 1/16	1 3/16	1/2	1/4-28
CTC-38	CCI-125-1-S	CTC-138		2 1/16	1 1/4	1/2	1/4-28
CTC-40	CCI-131-1-S	CTC-140		2 1/8	1 5/16	9/16	1/4-28
CTC-42	CCI-137-1-S	CTC-142		2 1/4	1 3/8	9/16	1/4-28
CTC-44	CCI-143-1-S	CTC-144		2 1/4	1 7/16	9/16	1/4-28
CTC-46	CCI-150-1-S	CTC-146		2 3/8	1 1/2	9/16	1/4-28
CTC-48	CCI-156-1-S	CTC-148		2 3/8	1 9/16	9/16	1/4-28
CTC-50	CCI-162-1-S	CTC-150		2 5/8	1 5/8	11/16	5/16-24
CTC-52	CCI-168-1-S	CTC-152		2 3/4	1 11/16	11/16	5/16-24
CTC-54	CCI-175-1-S	CTC-154		2 3/4	1 3/4	11/16	5/16-24
—	—	CTC-155		2 7/8	1 13/16	11/16	5/16-24
CTC-58	CCI-187-1-S	CTC-158		2 7/8	1 7/8	11/16	5/16-24
CTC-60	CCI-193-1-S	CTC-160		3	1 15/16	11/16	5/16-24
CTC-62	CCI-200-1-S	CTC-162		3	2	11/16	5/16-24
CTC-64	CCI-212-1-S	CTC-164		3 1/4	2 1/8	3/4	5/16-24
CTC-66	CCI-218-1-S	CTC-166		3 1/4	2 3/16	3/4	5/16-24
CTC-68	CCI-225-1-S	CTC-168		3 1/4	2 1/4	3/4	5/16-24
CTC-70	CCI-237-1-S	CTC-170		3 1/2	2 3/8	3/4	5/16-24
CTC-72	CCI-243-1-S	CTC-172		3 1/2	2 7/16	3/4	5/16-24
CTC-74	CCI-250-1-S	CTC-174		3 3/4	2 1/2	7/8	3/8-24
—	—	CTC-176		3 7/8	2 5/8	7/8	3/8-24
—	—	CTC-177		4	2 11/16	7/8	3/8-24
CTC-78	CCI-275-1-S	CTC-178		4	2 3/4	7/8	3/8-24
—	—	CTC-179		4 1/4	2 13/16	7/8	3/8-24
CTC-80	CCI-287-1-S	CTC-180		4 1/4	2 7/8	7/8	3/8-24
CTC-82	CCI-293-1-S	CTC-182		4 1/4	2 15/16	7/8	3/8-24
CTC-84	CCI-300-1-S	CTC-184		4 1/4	3	7/8	3/8-24
—	—	CTC-185		4 1/2	3 3/16	7/8	3/8-24
CTC-88	CCI-343-1-S	CTC-188		4 3/4	3 7/16	7/8	3/8-24

One-Piece Item No.	One-Piece Mfg's Part No.	Two-Piece Item No.	Two-Piece Mfg's Part No.	A	B	C	Clamp Screw D
Stainless Steel							
CTC-2SS	CCI-12-1-SS	—	—	1/2	1/8	1/4	4-40
CTC-4SS	CCI-18-1-SS	—	—	5/8	3/16	5/16	4-40
CTC-6SS	CCI-25-1-SS	CTC-106SS	CCI-25-2-SS	1 1/16	1/4	5/16	4-40
CTC-8SS	CCI-31-1-SS	—	—	1 1/16	5/16	5/16	4-40
CTC-10SS	CCI-37-1-SS	CTC-110SS	CCI-37-2-SS	7/8	3/8	11/32	6-32
CTC-12SS	CCI-43-1-SS	CTC-112SS	CCI-43-2-SS	15/16	7/16	3/8	6-32
—	—	CTC-114SS	CCI-50-2-SS	1 1/8	1/2	13/32	8-32
—	—	CTC-116SS	CCI-56-2-SS	1 1/4	9/16	7/16	10-32
—	—	CTC-118SS	CCI-62-2-SS	1 5/16	5/8	7/16	10-32
CTC-19SS	CCI-68-1-SS	—	—	1 3/8	1 1/16	7/16	10-32
CTC-22SS	CCI-75-1-SS	CTC-122SS	CCI-75-2-SS	1 1/2	3/4	1/2	1/4-28
CTC-26SS	CCI-87-1-SS	CTC-126SS	CCI-87-2-SS	1 5/8	7/8	1/2	1/4-28
—	—	CTC-127SS	CCI-93-2-SS	1 3/4	15/16	1/2	1/4-28
CTC-30SS	CCI-100-1-SS	CTC-130SS	CCI-100-2-SS	1 3/4	1	1/2	1/4-28
—	—	CTC-131SS	CCI-106-2-SS	1 7/8	1 1/16	1/2	1/4-28
CTC-34SS	CCI-112-1-SS	CTC-134SS	CCI-112-2-SS	1 7/8	1 1/8	1/2	1/4-28
CTC-38SS	CCI-125-1-SS	CTC-138SS	CCI-125-2-SS	2 1/16	1 1/4	1/2	1/4-28
—	—	CTC-139SS	CCI-131-2-SS	2 1/8	1 5/16	9/16	1/4-28
—	—	CTC-142SS	CCI-137-2-SS	2 1/4	1 3/8	9/16	1/4-28
CTC-46SS	CCI-150-1-SS	CTC-146SS	CCI-150-2-SS	2 3/8	1 1/2	9/16	1/4-28
CTC-62SS	CCI-200-1-SS	CTC-162SS	CCI-200-2-SS	3	2	11/16	5/16-24
Aluminum							
CTC-6A	CCI-25-1-AL	—	—	1 1/16	1/4	5/16	4-40
CTC-10A	CCI-37-1-AL	CTC-110A	ASP-37-2-AL	7/8	3/8	11/32	6-32
CTC-12A	ASP-43-1-AL	—	—	15/16	7/16	3/8	6-32
CTC-14A	CCI-50-1-AL	CTC-114A	CCI-50-2-AL	1 1/8	1/2	13/32	8-32
CTC-18A	CCI-62-1-AL	CTC-118A	CCI-62-2-AL	1 5/16	5/8	7/16	10-32
CTC-22A	CCI-75-1-AL	CTC-122A	CCI-75-2-AL	1 1/2	3/4	1/2	1/4-28
CTC-26A	CCI-87-1-AL	CTC-126A	CCI-87-2-AL	1 5/8	7/8	1/2	1/4-28
CTC-30A	CCI-100-1-AL	CTC-130A	CCI-100-2-AL	1 3/4	1	1/2	1/4-28
—	—	CTC-131A	ASP-106-2-AL	1 7/8	1 1/16	1/2	1/4-28
CTC-32A	CCI-112-1-AL	CTC-132A	CCI-112-2-AL	1 7/8	1 1/8	1/2	1/4-28
CTC-33A	ASP-118-1-AL	—	—	2 1/16	1 3/16	1/2	1/4-28
CTC-38A	CCI-125-1-AL	CTC-138A	CCI-125-2-AL	2 1/16	1 1/4	1/2	1/4-28
CTC-39A	ASP-131-1-AL	—	—	2 1/8	1 5/16	9/16	1/4-28
CTC-40A	ASP-137-1-AL	—	—	2 1/4	1 3/8	9/16	1/4-28
CTC-46A	CCI-150-1-AL	CTC-146A	CCI-150-2-AL	2 3/8	1 1/2	9/16	1/4-28
CTC-48A	ASP-162-1-AL	—	—	2 5/8	1 5/8	11/16	5/16-24
CTC-54A	CCI-175-1-AL	CTC-154A	CCI-175-2-AL	2 3/4	1 3/4	11/16	5/16-24
CTC-62A	CCI-200-1-AL	CTC-162A	CCI-200-2-AL	3	2	11/16	5/16-24

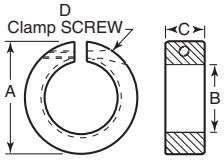
One and Two Piece
Metric
Steel



One Piece



Two Piece



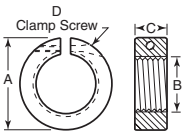
One-Piece Item No.	One-Piece Mfg's Part No.	Two-Piece Item No.	Two-Piece Mfg's Part No.	A	B	C	Clamp Screw D
CTC-701	CCM-5-1-S	CTC-801	CCM-5-2-S	16	5	9	M3 x 8
CTC-702	CCM-6-1-S	CTC-802	CCM-6-2-S	16	6	9	M3 x 8
CTC-703	CCM-8-1-S	CTC-803	CCM-8-2-S	18	8	9	M3 x 8
CTC-704	CCM-9-1-S	CTC-804	CCM-9-2-S	24	9	9	M3 x 10
CTC-705	CCM-10-1-S	CTC-805	CCM-10-2-S	24	10	9	M3 x 10
CTC-706	CCM-12-1-S	CTC-806	CCM-12-2-S	28	12	11	M4 x 12
CTC-707	CCM-15-1-S	CTC-807	CCM-15-2-S	34	15	13	M5 x 16
CTC-708	CCM-16-1-S	CTC-808	CCM-16-2-S	34	16	13	M5 x 16
CTC-710	CCM-17-1-S	CTC-810	CCM-17-2-S	36	18	13	M5 x 16
CTC-709	CCM-18-1-S	CTC-809	CCM-18-2-S	38	17	13	M5 x 16
CTC-711	CCM-20-1-S	CTC-811	CCM-20-2-S	40	20	15	M6 x 16
CTC-712	CCM-25-1-S	CTC-812	CCM-25-2-S	45	25	15	M6 x 16

One-Piece Item No.	One-Piece Mfg's Part No.	Two-Piece Item No.	Two-Piece Mfg's Part No.	A	B	C	Clamp Screw D
CTC-713	CCM-30-1-S	CTC-813	CCM-30-2-S	54	30	15	M6 x 18
CTC-714	CCM-35-1-S	CTC-814	CCM-35-2-S	57	35	15	M6 x 18
CTC-715	CCM-40-1-S	CTC-815	CCM-40-2-S	60	40	15	M6 x 18
CTC-716	CCM-45-1-S	CTC-816	CCM-45-2-S	73	45	19	M6 x 18
CTC-717	CCM-50-1-S	CTC-817	CCM-50-2-S	78	50	19	M8 x 25
CTC-718	CCM-55-1-S	CTC-818	CCM-55-2-S	82	55	19	M8 x 25
CTC-719	CCM-60-1-S	CTC-819	CCM-60-2-S	88	60	19	M8 x 25
CTC-720	CCM-65-1-S	CTC-820	CCM-65-2-S	93	65	19	M8 x 25
CTC-721	CCM-70-1-S	CTC-821	CCM-70-2-S	98	70	19	M8 x 25
CTC-722	CCM-75-1-S	CTC-822	CCM-75-2-S	103	75	19	M8 x 25
CTC-723	CCM-80-1-S	CTC-823	CCM-80-2-S	108	80	19	M8 x 25

Shaft Collars, Threaded One Piece Inch Steel or Stainless Steel

STAINLESS STEEL OPTION AVAILABLE





These threaded collars offer full radial holding power without marring the shaft.

Steel		Stainless					
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	A	B	C	Clamp Screw D
CTC-200	CTS-10-32	—	—	5/8	10-32	5/16	4-40
CTC-202	CTS-1/4-20	CTC-202SS	CTS-1/4-20-SS	11/16	1/4-20	5/16	4-40
CTC-204	CTS-1/4-28	—	—	11/16	1/4-28	5/16	4-40
CTC-206	GSTC-031-18-B	CTC-206SS	CTS-5/16-18-SS	11/16	5/16-18	9/32	4-40
CTC-208	CTS-5/16-24	—	—	11/16	5/16-24	9/32	4-40
CTC-210	CTS-3/8-16	CTC-210SS	CTS-3/8-16-SS	7/8	3/8-16	11/32	6-32
CTC-212	CTS-3/8-24	CTC-212SS	CTS-3/8-24-SS	7/8	3/8-24	11/32	6-32
CTC-250	CTS-7/16-14	CTC-250SS	CTS-7/16-14-SS	15/16	7/16-14	11/32	6-32
CTC-255	CTS-7/16-20	CTC-255SS	CTS-7/16-20-SS	15/16	7/16-20	11/32	6-32
CTC-214	CTS-1/2-13	CTC-214SS	CTS-1/2-13-SS	1 1/8	1/2-13	13/32	8-32
CTC-216	CTS-1/2-20	CTC-216SS	CTS-1/2-20-SS	1 1/8	1/2-20	13/32	8-32
CTC-218	CTS-5/8-11	CTC-218SS	CTS-5/8-11-SS	1 5/16	5/8-11	7/16	10-32
CTC-220	CTS-5/8-18	CTC-220SS	CTS-5/8-18-SS	1 5/16	5/8-18	7/16	10-32
CTC-222	CTS-3/4-10	CTC-222SS	CTS-3/4-10-SS	1 1/2	3/4-10	1/2	1/4-28
CTC-224	CTS-3/4-16	CTC-224SS	CTS-3/4-16-SS	1 1/2	3/4-16	1/2	1/4-28
CTC-226	CTS-7/8-9	—	—	1 5/8	7/8-9	1/2	1/4-28
CTC-228	CTS-7/8-14	—	—	1 5/8	7/8-14	1/2	1/4-28
CTC-232	CTS-1-14	—	—	1 3/4	1-14	1/2	1/4-28
CTC-230	CTS-1-8	—	—	1 3/4	1-8	1/2	1/4-28
CTC-231	CTS-1-12	—	—	1 3/4	1-12	1/2	1/4-28
CTC-234	CTS-1 1/8-12	—	—	1 7/8	1 1/8-12	1/2	1/4-28
CTC-238	CTS-1 1/4-12	—	—	2 1/16	1 1/4-12	1/2	1/4-28
CTC-236	CTS-1 1/4-7	—	—	2 1/16	1 1/4-7	1/2	1/4-28
CTC-242	CTS-1 1/2-12	—	—	2 3/8	1 1/2-12	9/16	1/4-28

Hexagon Bore Clamp Type Collars One-Piece or Two-Piece Inch Steel or Stainless Steel

STAINLESS STEEL OPTION AVAILABLE



One-Piece



Two-Piece

Clamp-type shaft collars to fit hexagon shafts. One-piece and two-piece made of steel and stainless steel. They can be modified (drilled, tapped, welded, etc.) to act as a mount for other components. They are non-marring and have high holding power.

One-Piece	Two-Piece					
Item No.	Item No.	Hex Bore	ID	OD	Width	Screw
Steel						
CTC-502	—	3/8	.375	1.063	.313	6-32
—	CTC-551	5/16	0.313	0.813	0.25	4-40
CTC-503	CTC-553	1/2	.500	1.250	.375	8-32
—	CTC-554	5/8	.625	1.500	.406	10-32
CTC-505	CTC-555	3/4	.750	1.875	.500	1/4-28
CTC-506	CTC-556	7/8	.875	2.000	.500	1/4-28
CTC-507	CTC-557	1	1.000	2.125	.500	1/4-28
Stainless						
—	CTC-650	1/4	.250	.813	.250	4-40
CTC-601	—	5/16	.313	.813	.250	4-40
CTC-602	—	3/8	.375	1.063	.313	6-32
CTC-603	CTC-653	1/2	.500	1.250	.375	8-32
CTC-604	CTC-654	5/8	.625	1.500	.406	10-32
CTC-605	CTC-655	3/4	.750	1.875	.500	1/4-28
CTC-607	CTC-657	1	1.000	2.125	.500	1/4-28

Hinged Shaft Collars





STAINLESS STEEL OPTION AVAILABLE

Hinged construction and a captive clamp screw to simplify assembly. These fully split collars eliminate lost screws and downtime. Hinged collars provide the same axial load handling capabilities as our two piece collars. Both halves are machined from the same stock and then joined together by a heat-treated triple-link hinge. These collars have a smooth ID, OD, and sides with no protruding pins or screws. All steel shaft collars are made of 12L14 or mild steel with black finish.

Item No.	Bore Size	OD	Width	Screw
Steel				
CTC-401	.500	1.250	.375	8-32
CTC-402	.625	1.500	.438	10-32
CTC-403	.750	1.750	.500	1/4-28
CTC-404	.875	1.875	.500	1/4-28
CTC-405	1.000	2.000	.500	1/4-28
CTC-406	1.125	2.125	.500	1/4-28
CTC-408	1.250	2.250	.500	1/4-28
CTC-409	1.375	2.375	.500	1/4-28
CTC-410	1.500	2.500	.500	1/4-28
CTC-411	1.625	2.750	.625	5/16-24
CTC-412	1.750	3.000	.625	5/16-24
CTC-413	2.000	3.250	.625	5/16-24
CTC-415	2.500	4.000	.750	3/8-24
CTC-416	3.000	4.500	.750	3/8-24
Stainless				
CTC-400SS	0.375	1.063	0.313	6-32
CTC-405SS	1.000	2.000	0.500	1/4-28

STANDARD QUOTES IN 4 HOURS OR LESS

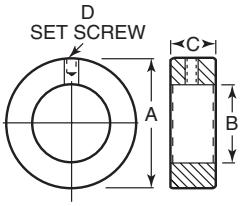
MOST PRODUCTS SHIP SAME DAY

COUPLINGS, COLLARS & KEYED SHAFTS

Shaft Collars
One Piece
Inch
Steel and Stainless Steel

STAINLESS STEEL OPTION AVAILABLE





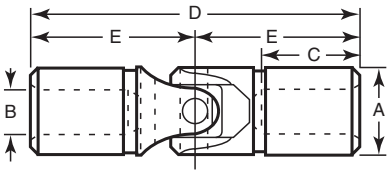
Stamped style are stamped, galvannealed. Tolerance on ID for LSC-2E and LSC-3E is +.004/-000".

Steel					
Item No.	Mfg's Part No.	A	B	C	Set Screw D
Stamped					
LSC-2E	SC12	1¼	.7500	⅜	¼-20
LSC-3E	SC16	1½	1.0000	⅜	¼-20

Zinc Plated Steel		Stainless					
Item No.	Mfg's Part No.	Item No.	Mfg's Part No.	A	B	C	Set Screw D
Machined							
LSC-04	SC-25-Z	LSC-04SS	SC-25-SS	½	.2510	5/16	10-32
LSC-05	SC-31-Z	LSC-05SS	SC-31-SS	5/8	.3135	5/16	10-32
LSC-06	SC-37-Z	LSC-06SS	SC-37-SS	¾	.3760	⅜	¼-20
LSC-08	SC-50-Z	LSC-08SS	SC-50-SS	1	.5010	7/16	¼-20
LSC-09	SC-56-Z	—	—	1	.5635	7/16	¼-20
LSC-10	SC-62-Z	LSC-10SS	SC-62-SS	1⅛	.6260	½	5/16-18
LSC-12	LSC-12	LSC-12SS	SC-75-SS	1¼	.7510	9/16	5/16-18
LSC-13	SC-81-Z	LSC-13SS	SC-81-SS	1½	.8135	9/16	5/16-18
LSC-14	SC-87-Z	—	—	1½	.8760	9/16	5/16-18
LSC-16	SC-100-Z	LSC-16SS	SC-100-SS	1⅝	1.001	⅝	5/16-18
LSC-18	SC-112-Z	—	—	1¾	1.126	⅝	5/16-18
LSC-20	SC-125-Z	LSC-20SS	SC-125-SS	2	1.251	11/16	⅜-16
LSC-24	SC-150-Z	LSC-24SS	SC-150-SS	2¼	1.501	¾	⅜-16
LSC-28	SC-175-Z	—	—	2¾	1.751	⅞	½-13

Universal Joints



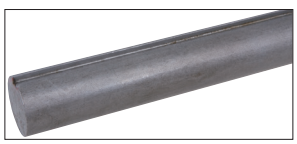


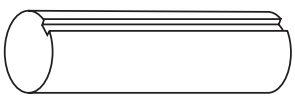
Standard industrial type universal joint with pin and block design. The special tapered shape of the yokes provide exceptional strength for long life while allowing full free movement of the joint. Boot retainer grooves are standard. Ideal for angles, degrees and speeds up to 1,750 rpm.

Bored				Bored w/ Keyway				Solid							
Item No.	Mfg's Part No.	B	Bore Depth C	Item No.	Mfg's Part No.	B	Bore Depth C	Item No.	Mfg's Part No.	A	D	E	Keyway	Static Breaking Torque
UJ-10	68514416226	3/16	9/16	—	—	—	—	UJ-110	68514415661	⅜	1¾	⅞	—	110
UJ-15	68514416235	¼	⅝	—	—	—	—	UJ-115	68514415674	½	2	1	—	378
UJ-20	68514416259	5/16	11/16	—	—	—	—	UJ-120	68514415718	⅝	2¼	1⅛	—	540
UJ-25	68514416289	⅜	⅞	UJ-325	68514449452	⅜	⅞	UJ-125	68514415744	¾	2 11/16	1 11/32	⅛ x 1/16	768
UJ-30	68514416346	7/16	⅞	—	—	—	—	UJ-130	68514415774	⅞	3	1½	—	1176
UJ-35	68514416363	½	1	UJ-335	68514444126	½	1	UJ-135	68514415809	1	3⅜	1 11/16	⅛ x 1/16	1560
UJ-40	68514416479	⅝	1 1/16	UJ-340	68514445304	⅝	1 1/16	UJ-140	68514415866	1¼	3¾	1⅞	3/16 x 3/32	5220
UJ-45	68514416595	¾	1 3/16	UJ-345	68514444055	¾	1 3/16	UJ-145	68514415919	1½	4¼	2⅛	3/16 x 3/32	7920
UJ-55	68514416753	1	1½	UJ-355	68514444398	1	1½	—	—	2	5 7/16	2 23/32	¼ x ⅛	15,600

Note: Static breaking torque is in inch lbs

Keyed Shafting
Three and Six Foot Lengths
Cold Drawn Steel





Available in three foot and six foot lengths. C1018 cold drawn steel. Outside diameters are +.000/-.002". Keyways are +.016/-.000" on depth and +.002/-.000" on width. Keyways are cut full length of each bar and are in accordance with ANSI B17.1-1967, R1989.

Three Foot	Six Foot		
Item No.	Item No.	Dia.	Keyway
GLH-3005	GLH-6005	½	1/8 x 1/16
GLH-3010	GLH-6010	5/8	3/16 x 3/32
GLH-3015	—	¾	3/16 x 3/32
GLH-3020	—	⅞	3/16 x 3/32
GLH-3025	GLH-6025	1	¼ x ⅛
—	GLH-6030	1⅛	¼ x ⅛
GLH-3035	GLH-6035	1 3/16	¼ x ⅛
GLH-3040	GLH-6040	1¼	¼ x ⅛
GLH-3042	—	1⅜	5/16 x 5/32
GLH-3045	GLH-6045	1 7/16	⅜ x 3/16
GLH-3050	—	1½	⅜ x 3/16

Polyurethane Bellows



Round



Rectangular

Strong, lightweight bellows are heat sealed to keep out moisture and contaminants. There are no stitches or glue that could fail. Color is black. They have high resistance to ozone, chemicals, gasoline, kerosene and most other aliphatic petroleum products, plus excellent resistance to ultraviolet and gamma rays. The bellows have high abrasion resistance and tensile strength. Temperature range is -60 to +225 degree Fahrenheit. Round thickness is .010". Round bellows have ½" cuffs that may be secured with standard hose clamps. Available in 12" and 24" extended lengths that compress to 1" and 2" respectively. Square/rectangular thickness is .020". Square bellows have square ends without cuffs and are available in 12" and 24" extended length that compresses to 1- ½" and 3" respectively.

12" Item No.	24" Item No.	ID	OD
Round			
BW-101	—	½	2½
BW-102	BW-112	¾	2¾
BW-103	—	1	3
BW-104	BW-114	1¼	3¼
BW-105	BW-115	1½	3½
BW-107	—	2	4
BW-108	BW-118	2½	4½
—	BW-119	3	5

12" Item No.	24" Item No.	ID	OD
Square/Rectangular			
—	BW-131	1 x 1	3 x 3
—	BW-132	2½ x 2½	4½ x 4½
—	BW-136*	7 x 5	9 x 7

*Rectangular

Universal Joint Boots

Lovejoy



One Hump



Multiple Hump

Extends universal joint life by keeping dirt out and retaining lubrication. Installation is fast and easy. Includes two boots and four plastic ties.

Item No.	Mfg's Part No.	Use for Joint OD
One Hump		
UJ-215	68514449966	½
UJ-225	68514449968	¾
UJ-235	68514449970	1
Multiple Hump		
UJ-240	68514449981	1¼
UJ-245	68514449982	1½

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INDUSTRIAL V-BELTS

Single Wedge Premium Notched V-Belts



Single wedge V-belts, 3VX and 5VX in raw edge notched construction give premium belt performance. The belts are constructed of highly engineered, high performance, oil and heat resistant components. The components are made using the latest in belt technology available on a global basis. The "X" in the part number refers to higher load ratings than standard wedge V-belts.

The belts exceed USA RMA published ratings levels. They are designed to perform at the identical or higher level than all other major USA manufacturer's belts of the same type. All 3VX and 5VX belts are manufactured to meet RMA standards for length, dimensions and matching. All belts of a given size are manufactured to run interchangeably in a matched set.

Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness
3VX Type				**3VX Type**				**5VX Type**				**5VX Type**			
BTQ-3VX240	24	3/8	5/16	BTQ-3VX710	71	3/8	5/16	BTQ-5VX550	55	5/8	17/32	BTQ-5VX850	85	5/8	17/32
BTQ-3VX250	25	3/8	5/16	BTQ-3VX750	75	3/8	5/16	BTQ-5VX560	56	5/8	17/32	BTQ-5VX860	86	5/8	17/32
BTQ-3VX255	25.5	3/8	5/16	BTQ-3VX800	80	3/8	5/16	BTQ-5VX570	57	5/8	17/32	BTQ-5VX880	88	5/8	17/32
BTQ-3VX265	26.5	3/8	5/16	BTQ-3VX850	85	3/8	5/16	BTQ-5VX580	58	5/8	17/32	BTQ-5VX900	90	5/8	17/32
BTQ-3VX280	28	3/8	5/16	BTQ-3VX900	90	3/8	5/16	BTQ-5VX590	59	5/8	17/32	BTQ-5VX930	93	5/8	17/32
BTQ-3VX300	30	3/8	5/16	BTQ-3VX950	95	3/8	5/16	BTQ-5VX600	60	5/8	17/32	BTQ-5VX950	95	5/8	17/32
BTQ-3VX315	31.5	3/8	5/16	BTQ-3VX1000	100	3/8	5/16	BTQ-5VX610	61	5/8	17/32	BTQ-5VX960	96	5/8	17/32
BTQ-3VX335	33.5	3/8	5/16	BTQ-3VX1060	106	3/8	5/16	BTQ-5VX630	63	5/8	17/32	BTQ-5VX1000	100	5/8	17/32
BTQ-3VX340	34	3/8	5/16	BTQ-3VX1120	112	3/8	5/16	BTQ-5VX650	65	5/8	17/32	BTQ-5VX1030	103	5/8	17/32
BTQ-3VX355	35.5	3/8	5/16	BTQ-3VX1180	118	3/8	5/16	BTQ-5VX660	66	5/8	17/32	BTQ-5VX1060	106	5/8	17/32
BTQ-3VX360	36	3/8	5/16	BTQ-3VX1250	125	3/8	5/16	BTQ-5VX670	67	5/8	17/32	BTQ-5VX1080	108	5/8	17/32
BTQ-3VX375	37.5	3/8	5/16	BTQ-3VX1320	132	3/8	5/16	BTQ-5VX680	68	5/8	17/32	BTQ-5VX1120	112	5/8	17/32
BTQ-3VX400	40	3/8	5/16	BTQ-3VX1400	140	3/8	5/16	BTQ-5VX690	69	5/8	17/32	BTQ-5VX1150	115	5/8	17/32
BTQ-3VX425	42.5	3/8	5/16	**5VX Type**				BTQ-5VX710	71	5/8	17/32	BTQ-5VX1180	118	5/8	17/32
BTQ-3VX450	45	3/8	5/16	BTQ-5VX400	40	5/8	17/32	BTQ-5VX730	73	5/8	17/32	BTQ-5VX1250	125	5/8	17/32
BTQ-3VX475	47.5	3/8	5/16	BTQ-5VX425	42.5	5/8	17/32	BTQ-5VX740	74	5/8	17/32	BTQ-5VX1320	132	5/8	17/32
BTQ-3VX500	50	3/8	5/16	BTQ-5VX450	45	5/8	17/32	BTQ-5VX750	75	5/8	17/32	BTQ-5VX1400	140	5/8	17/32
BTQ-3VX530	53	3/8	5/16	BTQ-5VX475	47.5	5/8	17/32	BTQ-5VX780	78	5/8	17/32	BTQ-5VX1500	150	5/8	17/32
BTQ-3VX560	56	3/8	5/16	BTQ-5VX500	50	5/8	17/32	BTQ-5VX800	80	5/8	17/32	BTQ-5VX1600	160	5/8	17/32
BTQ-3VX600	60	3/8	5/16	BTQ-5VX510	51	5/8	17/32	BTQ-5VX810	80	5/8	17/32	BTQ-5VX1700	170	5/8	17/32
BTQ-3VX630	63	3/8	5/16	BTQ-5VX530	53	5/8	17/32	BTQ-5VX830	83	5/8	17/32	BTQ-5VX1800	180	5/8	17/32
BTQ-3VX670	67	3/8	5/16	BTQ-5VX540	54	5/8	17/32	BTQ-5VX840	84	5/8	17/32	BTQ-5VX1900	190	5/8	17/32

Single Classical Premium Notched V-Belts



Single classical V-belts, AX, BX and CX in raw edge notched construction give premium belt performance. The belts are constructed of highly engineered, high performance, oil and heat resistant components.
The components are made using the latest in belt technology available on a global basis. The "X" in the part number refer to higher load ratings than standard classical wrapped belts.

The belts exceed USA RMA published ratings levels. They are designed to perform at the identical or higher level than all other major USA manufacturer's belts of the same type. All AX, BX and CX belts are manufactured to meet RMA standards for length, dimensions and matching. All belts of a given size are manufactured to run interchangeably in a matched set.

Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness
AX Type				**AX Type**				**BX Type**				**BX Type**			
BTQ-AX20	22	1/2	5/16	BTQ-AX65	67	1/2	5/16	BTQ-BX45	48	5/8	13/32	BTQ-BX90	93	5/8	13/32
BTQ-AX21	23	1/2	5/16	BTQ-AX66	68	1/2	5/16	BTQ-BX46	49	5/8	13/32	BTQ-BX91	94	5/8	13/32
BTQ-AX22	24	1/2	5/16	BTQ-AX67	69	1/2	5/16	BTQ-BX47	50	5/8	13/32	BTQ-BX92	95	5/8	13/32
BTQ-AX23	25	1/2	5/16	BTQ-AX68	70	1/2	5/16	BTQ-BX48	51	5/8	13/32	BTQ-BX93	96	5/8	13/32
BTQ-AX24	26	1/2	5/16	BTQ-AX69	71	1/2	5/16	BTQ-BX49	52	5/8	13/32	BTQ-BX94	97	5/8	13/32
BTQ-AX25	27	1/2	5/16	BTQ-AX70	72	1/2	5/16	BTQ-BX50	53	5/8	13/32	BTQ-BX95	98	5/8	13/32
BTQ-AX26	28	1/2	5/16	BTQ-AX71	73	1/2	5/16	BTQ-BX51	54	5/8	13/32	BTQ-BX96	99	5/8	13/32
BTQ-AX27	29	1/2	5/16	BTQ-AX72	74	1/2	5/16	BTQ-BX52	55	5/8	13/32	BTQ-BX97	100	5/8	13/32
BTQ-AX28	30	1/2	5/16	BTQ-AX73	75	1/2	5/16	BTQ-BX53	56	5/8	13/32	BTQ-BX99	101	5/8	13/32
BTQ-AX29	31	1/2	5/16	BTQ-AX74	76	1/2	5/16	BTQ-BX54	57	5/8	13/32	BTQ-BX100	103	5/8	13/32
BTQ-AX30	32	1/2	5/16	BTQ-AX75	77	1/2	5/16	BTQ-BX55	58	5/8	13/32	BTQ-BX103	106	5/8	13/32
BTQ-AX31	33	1/2	5/16	BTQ-AX76	78	1/2	5/16	BTQ-BX56	59	5/8	13/32	BTQ-BX105	108	5/8	13/32
BTQ-AX32	34	1/2	5/16	BTQ-AX77	79	1/2	5/16	BTQ-BX57	60	5/8	13/32	BTQ-BX108	111	5/8	13/32
BTQ-AX33	35	1/2	5/16	BTQ-AX78	80	1/2	5/16	BTQ-BX58	61	5/8	13/32	BTQ-BX112	115	5/8	13/32
BTQ-AX34	36	1/2	5/16	BTQ-AX79	81	1/2	5/16	BTQ-BX59	62	5/8	13/32	BTQ-BX113	116	5/8	13/32
BTQ-AX35	37	1/2	5/16	BTQ-AX80	82	1/2	5/16	BTQ-BX60	63	5/8	13/32	BTQ-BX115	118	5/8	13/32
BTQ-AX36	38	1/2	5/16	BTQ-AX81	83	1/2	5/16	BTQ-BX61	64	5/8	13/32	BTQ-BX116	119	5/8	13/32
BTQ-AX37	39	1/2	5/16	BTQ-AX82	84	1/2	5/16	BTQ-BX62	65	5/8	13/32	BTQ-BX120	123	5/8	13/32
BTQ-AX38	40	1/2	5/16	BTQ-AX83	85	1/2	5/16	BTQ-BX63	66	5/8	13/32	BTQ-BX124	127	5/8	13/32
BTQ-AX39	41	1/2	5/16	BTQ-AX84	86	1/2	5/16	BTQ-BX64	67	5/8	13/32	BTQ-BX128	131	5/8	13/32
BTQ-AX40	42	1/2	5/16	BTQ-AX85	87	1/2	5/16	BTQ-BX65	68	5/8	13/32	BTQ-BX133	136	5/8	13/32
BTQ-AX41	43	1/2	5/16	BTQ-AX86	88	1/2	5/16	BTQ-BX66	69	5/8	13/32	BTQ-BX136	139	5/8	13/32
BTQ-AX42	44	1/2	5/16	BTQ-AX87	89	1/2	5/16	BTQ-BX67	70	5/8	13/32	BTQ-BX144	147	5/8	13/32
BTQ-AX43	45	1/2	5/16	BTQ-AX88	90	1/2	5/16	BTQ-BX68	71	5/8	13/32	**CX Type**			
BTQ-AX44	46	1/2	5/16	BTQ-AX89	91	1/2	5/16	BTQ-BX69	72	5/8	13/32	BTQ-CX51	55	7/8	17/32
BTQ-AX45	47	1/2	5/16	BTQ-AX90	92	1/2	5/16	BTQ-BX70	73	5/8	13/32	BTQ-CX55	59	7/8	17/32
BTQ-AX46	48	1/2	5/16	BTQ-AX91	93	1/2	5/16	BTQ-BX71	74	5/8	13/32	BTQ-CX60	64	7/8	17/32
BTQ-AX47	49	1/2	5/16	BTQ-AX92	94	1/2	5/16	BTQ-BX72	75	5/8	13/32	BTQ-CX68	72	7/8	17/32
BTQ-AX48	50	1/2	5/16	BTQ-AX93	95	1/2	5/16	BTQ-BX73	76	5/8	13/32	BTQ-CX72	76	7/8	17/32
BTQ-AX49	51	1/2	5/16	**BX Type**				BTQ-BX74	77	5/8	13/32	BTQ-CX75	79	7/8	17/32
BTQ-AX50	52	1/2	5/16	BTQ-BX30	33	5/8	13/32	BTQ-BX75	78	5/8	13/32	BTQ-CX78	82	7/8	17/32
BTQ-AX51	53	1/2	5/16	BTQ-BX31	34	5/8	13/32	BTQ-BX76	79	5/8	13/32	BTQ-CX81	85	7/8	17/32
BTQ-AX52	54	1/2	5/16	BTQ-BX32	35	5/8	13/32	BTQ-BX77	80	5/8	13/32	BTQ-CX85	89	7/8	17/32
BTQ-AX53	55	1/2	5/16	BTQ-BX33	36	5/8	13/32	BTQ-BX78	81	5/8	13/32	BTQ-CX90	94	7/8	17/32
BTQ-AX54	56	1/2	5/16	BTQ-BX34	37	5/8	13/32	BTQ-BX79	82	5/8	13/32	BTQ-CX96	100	7/8	17/32
BTQ-AX55	57	1/2	5/16	BTQ-BX35	38	5/8	13/32	BTQ-BX80	83	5/8	13/32	BTQ-CX105	109	7/8	17/32
BTQ-AX56	58	1/2	5/16	BTQ-BX36	39	5/8	13/32	BTQ-BX81	84	5/8	13/32	BTQ-CX112	116	7/8	17/32
BTQ-AX57	59	1/2	5/16	BTQ-BX37	40	5/8	13/32	BTQ-BX82	85	5/8	13/32	BTQ-CX120	124	7/8	17/32
BTQ-AX58	60	1/2	5/16	BTQ-BX38	41	5/8	13/32	BTQ-BX83	86	5/8	13/32	BTQ-CX124	128	7/8	17/32
BTQ-AX59	61	1/2	5/16	BTQ-BX39	42	5/8	13/32	BTQ-BX84	87	5/8	13/32	BTQ-CX128	132	7/8	17/32
BTQ-AX60	62	1/2	5/16	BTQ-BX40	43	5/8	13/32	BTQ-BX85	88	5/8	13/32	BTQ-CX144	148	7/8	17/32
BTQ-AX61	63	1/2	5/16	BTQ-BX41	44	5/8	13/32	BTQ-BX86	89	5/8	13/32	BTQ-CX173	177	7/8	17/32
BTQ-AX62	64	1/2	5/16	BTQ-BX42	45	5/8	13/32	BTQ-BX87	90	5/8	13/32				
BTQ-AX63	65	1/2	5/16	BTQ-BX43	46	5/8	13/32	BTQ-BX88	91	5/8	13/32				
BTQ-AX64	66	1/2	5/16	BTQ-BX44	47	5/8	13/32	BTQ-BX89	92	5/8	13/32				

Single Classical V-Belts



Single classical V-belts, A, B, C and D in fabric wrapped construction give premium belt performance. The belts are constructed of highly engineered, high performance and heat resistant materials. The outer fabric wrap is treated with oil and heat resistant, engineered synthetic rubber coated compound, specifically compounded for excellent wear resistance, proven through thousands of hours of testing. The components are made using the latest in belt technology available on a global basis.

The belts exceed USA RMA published ratings levels. They are designed to perform at the identical or higher level than all other major USA manufacturer's belts of the same type. All A, B, C and D V-belts are manufactured to meet RMA standards for length, dimensions and matching. All belts of a given size are manufactured to run interchangeably in a matched set.

Item No.	Belt Lgth. (Inch)	Top Width	Thickness
A Type			
BTQ-A14	16	1/2	5/16
BTQ-A15	17	1/2	5/16
BTQ-A16	18	1/2	5/16
BTQ-A17	19	1/2	5/16
BTQ-A18	20	1/2	5/16
BTQ-A19	21	1/2	5/16
BTQ-A20	22	1/2	5/16
BTQ-A21	23	1/2	5/16
BTQ-A22	24	1/2	5/16
BTQ-A23	25	1/2	5/16
BTQ-A24	26	1/2	5/16
BTQ-A25	27	1/2	5/16
BTQ-A26	28	1/2	5/16
BTQ-A27	29	1/2	5/16
BTQ-A28	30	1/2	5/16
BTQ-A29	31	1/2	5/16
BTQ-A30	32	1/2	5/16
BTQ-A31	33	1/2	5/16
BTQ-A32	34	1/2	5/16
BTQ-A33	35	1/2	5/16
BTQ-A34	36	1/2	5/16
BTQ-A35	37	1/2	5/16
BTQ-A36	38	1/2	5/16
BTQ-A37	39	1/2	5/16
BTQ-A38	40	1/2	5/16
BTQ-A39	41	1/2	5/16
BTQ-A40	42	1/2	5/16
BTQ-A41	43	1/2	5/16
BTQ-A42	44	1/2	5/16
BTQ-A43	45	1/2	5/16
BTQ-A44	46	1/2	5/16
BTQ-A45	47	1/2	5/16
BTQ-A46	48	1/2	5/16
BTQ-A47	49	1/2	5/16
BTQ-A48	50	1/2	5/16
BTQ-A49	51	1/2	5/16
BTQ-A50	52	1/2	5/16
BTQ-A51	53	1/2	5/16
BTQ-A52	54	1/2	5/16
BTQ-A54	56	1/2	5/16
BTQ-A55	57	1/2	5/16
BTQ-A56	58	1/2	5/16
BTQ-A57	59	1/2	5/16
BTQ-A58	60	1/2	5/16
BTQ-A59	61	1/2	5/16
BTQ-A60	62	1/2	5/16
BTQ-A61	63	1/2	5/16
BTQ-A62	64	1/2	5/16
BTQ-A63	65	1/2	5/16
BTQ-A64	66	1/2	5/16
BTQ-A65	67	1/2	5/16
BTQ-A66	68	1/2	5/16
BTQ-A67	69	1/2	5/16
BTQ-A68	70	1/2	5/16
BTQ-A69	71	1/2	5/16
BTQ-A70	72	1/2	5/16
BTQ-A71	73	1/2	5/16
BTQ-A72	74	1/2	5/16
BTQ-A73	75	1/2	5/16
BTQ-A74	76	1/2	5/16
BTQ-A75	77	1/2	5/16
BTQ-A76	78	1/2	5/16
BTQ-A77	79	1/2	5/16
BTQ-A78	80	1/2	5/16
BTQ-A79	81	1/2	5/16
BTQ-A80	82	1/2	5/16
BTQ-A81	83	1/2	5/16
BTQ-A82	84	1/2	5/16
BTQ-A83	85	1/2	5/16
BTQ-A84	86	1/2	5/16
BTQ-A85	87	1/2	5/16
BTQ-A86	88	1/2	5/16
BTQ-A87	89	1/2	5/16
BTQ-A88	90	1/2	5/16
BTQ-A89	91	1/2	5/16
BTQ-A90	92	1/2	5/16
BTQ-A91	93	1/2	5/16
BTQ-A92	94	1/2	5/16
BTQ-A93	95	1/2	5/16
BTQ-A94	96	1/2	5/16
BTQ-A95	97	1/2	5/16
BTQ-A96	98	1/2	5/16
BTQ-A97	99	1/2	5/16
BTQ-A98	100	1/2	5/16
BTQ-A99	101	1/2	5/16
BTQ-A100	102	1/2	5/16
BTQ-A101	103	1/2	5/16
BTQ-A102	104	1/2	5/16
BTQ-A103	105	1/2	5/16
BTQ-A104	106	1/2	5/16

Item No.	Belt Lgth. (Inch)	Top Width	Thickness
A Type			
BTQ-A105	107	1/2	5/16
BTQ-A106	108	1/2	5/16
BTQ-A108	110	1/2	5/16
BTQ-A110	112	1/2	5/16
BTQ-A112	114	1/2	5/16
BTQ-A115	117	1/2	5/16
BTQ-A116	118	1/2	5/16
BTQ-A120	122	1/2	5/16
BTQ-A126	128	1/2	5/16
BTQ-A128	130	1/2	5/16
BTQ-A133	135	1/2	5/16
BTQ-A135	137	1/2	5/16
BTQ-A136	138	1/2	5/16
BTQ-A138	140	1/2	5/16
BTQ-A140	142	1/2	5/16
BTQ-A144	146	1/2	5/16
BTQ-A158	160	1/2	5/16
BTQ-A173	175	1/2	5/16
BTQ-A176	177	1/2	5/16
BTQ-A180	182	1/2	5/16
B Type			
BTQ-B20	23	5/8	13/32
BTQ-B21	24	5/8	13/32
BTQ-B22	25	5/8	13/32
BTQ-B23	26	5/8	13/32
BTQ-B24	27	5/8	13/32
BTQ-B25	28	5/8	13/32
BTQ-B26	29	5/8	13/32
BTQ-B27	30	5/8	13/32
BTQ-B28	31	5/8	13/32
BTQ-B29	32	5/8	13/32
BTQ-B30	33	5/8	13/32
BTQ-B31	34	5/8	13/32
BTQ-B32	35	5/8	13/32
BTQ-B33	36	5/8	13/32
BTQ-B34	37	5/8	13/32
BTQ-B35	38	5/8	13/32
BTQ-B36	39	5/8	13/32
BTQ-B37	40	5/8	13/32
BTQ-B39	42	5/8	13/32
BTQ-B40	43	5/8	13/32
BTQ-B41	44	5/8	13/32
BTQ-B42	45	5/8	13/32
BTQ-B43	46	5/8	13/32
BTQ-B44	47	5/8	13/32
BTQ-B45	48	5/8	13/32
BTQ-B46	49	5/8	13/32
BTQ-B47	50	5/8	13/32
BTQ-B48	51	5/8	13/32
BTQ-B49	52	5/8	13/32
BTQ-B50	53	5/8	13/32
BTQ-B51	54	5/8	13/32
BTQ-B52	55	5/8	13/32
BTQ-B53	56	5/8	13/32
BTQ-B54	57	5/8	13/32
BTQ-B55	58	5/8	13/32
BTQ-B56	59	5/8	13/32
BTQ-B57	60	5/8	13/32
BTQ-B58	61	5/8	13/32
BTQ-B59	62	5/8	13/32
BTQ-B60	63	5/8	13/32
BTQ-B61	64	5/8	13/32
BTQ-B62	65	5/8	13/32
BTQ-B63	66	5/8	13/32
BTQ-B64	67	5/8	13/32
BTQ-B65	68	5/8	13/32
BTQ-B66	69	5/8	13/32
BTQ-B67	70	5/8	13/32
BTQ-B68	71	5/8	13/32
BTQ-B69	72	5/8	13/32
BTQ-B70	73	5/8	13/32
BTQ-B71	74	5/8	13/32
BTQ-B72	75	5/8	13/32
BTQ-B73	76	5/8	13/32
BTQ-B74	77	5/8	13/32
BTQ-B75	78	5/8	13/32
BTQ-B76	79	5/8	13/32
BTQ-B77	80	5/8	13/32
BTQ-B78	81	5/8	13/32
BTQ-B79	82	5/8	13/32
BTQ-B80	83	5/8	13/32
BTQ-B81	84	5/8	13/32
BTQ-B82	85	5/8	13/32
BTQ-B83	86	5/8	13/32
BTQ-B84	87	5/8	13/32
BTQ-B85	88	5/8	13/32
BTQ-B86	89	5/8	13/32
BTQ-B87	90	5/8	13/32
BTQ-B88	91	5/8	13/32
BTQ-B89	92	5/8	13/32

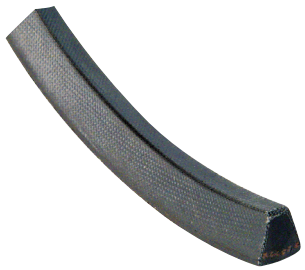
Item No.	Belt Lgth. (Inch)	Top Width	Thickness
B Type			
BTQ-B90	93	5/8	13/32
BTQ-B91	94	5/8	13/32
BTQ-B92	95	5/8	13/32
BTQ-B93	96	5/8	13/32
BTQ-B94	97	5/8	13/32
BTQ-B95	98	5/8	13/32
BTQ-B96	99	5/8	13/32
BTQ-B97	100	5/8	13/32
BTQ-B98	101	5/8	13/32
BTQ-B99	102	5/8	13/32
BTQ-B101	103	5/8	13/32
BTQ-B100	103	5/8	13/32
BTQ-B102	105	5/8	13/32
BTQ-B103	106	5/8	13/32
BTQ-B104	107	5/8	13/32
BTQ-B105	108	5/8	13/32
BTQ-B106	109	5/8	13/32
BTQ-B107	110	5/8	13/32
BTQ-B108	111	5/8	13/32
BTQ-B109	112	5/8	13/32
BTQ-B110	113	5/8	13/32
BTQ-B111	114	5/8	13/32
BTQ-B112	115	5/8	13/32
BTQ-B113	116	5/8	13/32
BTQ-B114	117	5/8	13/32
BTQ-B115	118	5/8	13/32
BTQ-B116	119	5/8	13/32
BTQ-B117	120	5/8	13/32
BTQ-B118	121	5/8	13/32
BTQ-B120	123	5/8	13/32
BTQ-B122	125	5/8	13/32
BTQ-B123	126	5/8	13/32
BTQ-B124	127	5/8	13/32
BTQ-B125	128	5/8	13/32
BTQ-B126	129	5/8	13/32
BTQ-B128	131	5/8	13/32
BTQ-B130	133	5/8	13/32
BTQ-B131	134	5/8	13/32
BTQ-B132	135	5/8	13/32
BTQ-B134	137	5/8	13/32
BTQ-B135	138	5/8	13/32
BTQ-B136	139	5/8	13/32
BTQ-B137	140	5/8	13/32
BTQ-B138	141	5/8	13/32
BTQ-B140	143	5/8	13/32
BTQ-B141	144	5/8	13/32
BTQ-B142	145	5/8	13/32
BTQ-B143	146	5/8	13/32
BTQ-B144	147	5/8	13/32
BTQ-B145	148	5/8	13/32
BTQ-B146	149	5/8	13/32
BTQ-B147	150	5/8	13/32
BTQ-B148	151	5/8	13/32
BTQ-B150	153	5/8	13/32
BTQ-B152	155	5/8	13/32
BTQ-B153	156	5/8	13/32
BTQ-B154	157	5/8	13/32
BTQ-B155	158	5/8	13/32
BTQ-B156	159	5/8	13/32
BTQ-B158	161	5/8	13/32
BTQ-B160	163	5/8	13/32
BTQ-B162	165	5/8	13/32
BTQ-B163	166	5/8	13/32
BTQ-B164	167	5/8	13/32
BTQ-B165	168	5/8	13/32
BTQ-B166	169	5/8	13/32
BTQ-B167	170	5/8	13/32
BTQ-B168	171	5/8	13/32
BTQ-B169	172	5/8	13/32
BTQ-B170	173	5/8	13/32
BTQ-B173	176	5/8	13/32
BTQ-B175	178	5/8	13/32
BTQ-B178	181	5/8	13/32
BTQ-B180	183	5/8	13/32
BTQ-B182	185	5/8	13/32
BTQ-B185	188	5/8	13/32
BTQ-B187	190	5/8	13/32
BTQ-B190	193	5/8	13/32
BTQ-B192	195	5/8	13/32
BTQ-B195	198	5/8	13/32
BTQ-B196	199	5/8	13/32
BTQ-B199	202	5/8	13/32
BTQ-B204	207	5/8	13/32
BTQ-B205	208	5/8	13/32
BTQ-B210	213	5/8	13/32
BTQ-B214	215.4	5/8	13/32
BTQ-B215	216.4	5/8	13/32
BTQ-B218	219.4	5/8	13/32
BTQ-B220	221.4	5/8	13/32
BTQ-B221	222.4	5/8	13/32

Item No.	Belt Lgth. (Inch)	Top Width	Thickness
B Type			
BTQ-B225	226.4	5/8	13/32
BTQ-B236	237.4	5/8	13/32
BTQ-B237	238.4	5/8	13/32
BTQ-B240	241.4	5/8	13/32
BTQ-B255	256.4	5/8	13/32
BTQ-B257	258.4	5/8	13/32
BTQ-B260	261.4	5/8	13/32
BTQ-B270	271.4	5/8	13/32
BTQ-B285	286.4	5/8	13/32
BTQ-B292	293.4	5/8	13/32
BTQ-B293	294.4	5/8	13/32
BTQ-B300	301.4	5/8	13/32
BTQ-B315	316.4	5/8	13/32
BTQ-B330	331.4	5/8	13/32
BTQ-B360	361.4	5/8	13/32
C Type			
BTQ-C46	50	7/8	17/32
BTQ-C48	52	7/8	17/32
BTQ-C49	53	7/8	17/32
BTQ-C51	55	7/8	17/32
BTQ-C52	56	7/8	17/32
BTQ-C54	57	7/8	17/32
BTQ-C55	59	7/8	17/32
BTQ-C56	60	7/8	17/32
BTQ-C57	61	7/8	17/32
BTQ-C60	64	7/8	17/32
BTQ-C61	65	7/8	17/32
BTQ-C62	66	7/8	17/32
BTQ-C63	67	7/8	17/32
BTQ-C64	68	7/8	17/32
BTQ-C65	69	7/8	17/32
BTQ-C66	70	7/8	17/32
BTQ-C68	72	7/8	17/32
BTQ-C70	74	7/8	17/32
BTQ-C71	75	7/8	17/32
BTQ-C72	76	7/8	17/32
BTQ-C73	77	7/8	17/32
BTQ-C75	79	7/8	17/32
BTQ-C76	80	7/8	17/32
BTQ-C79	83	7/8	17/32
BTQ-C80	84	7/8	17/32
BTQ-C81	85	7/8	17/32
BTQ-C82	86	7/8	17/32
BTQ-C83	87	7/8	17/32
BTQ-C84	88	7/8	17/32
BTQ-C85	89	7/8	17/32
BTQ-C86	90	7/8	17/32
BTQ-C87	91	7/8	17/32
BTQ-C88	92	7/8	17/32
BTQ-C90	94	7/8	17/32
BTQ-C92	96	7/8	17/32
BTQ-C93	97	7/8	17/32
BTQ-C94	98	7/8	17/32
BTQ-C95	99	7/8	17/32
BTQ-C96	100	7/8	17/32
BTQ-C97	101	7/8	17/32
BTQ-C98	102	7/8	17/32
BTQ-C99	103	7/8	17/32
BTQ-C100	104	7/8	17/32
BTQ-C101	105	7/8	17/32
BTQ-C102	106	7/8	17/32
BTQ-C103	107	7/8	17/32
BTQ-C104	108	7/8	17/32
BTQ-C105	109	7/8	17/32
BTQ-C106	110	7/8	17/32
BTQ-C107	111	7/8	17/32
BTQ-C108	112	7/8	17/32
BTQ-C109	113	7/8	17/32
BTQ-C110	114	7/8	17/32
BTQ-C111	115	7/8	17/32
BTQ-C112	116	7/8	17/32
BTQ-C113	117	7/8	17/32
BTQ-C114	118	7/8	17/32
BTQ-C115	119	7/8	17/32
BTQ-C116	120	7/8	17/32
BTQ-C117	121	7/8	17/32
BTQ-C118	122	7/8	17/32
BTQ-C119	123	7/8	17/32
BTQ-C120	124	7/8	17/32
BTQ-C122	126	7/8	17/32
BTQ-C124	128	7/8	17/32
BTQ-C125	129	7/8	17/32
BTQ-C126	130	7/8	17/32
BTQ-C128	132	7/8	17/32
BTQ-C130	134	7/8	17/32
BTQ-C131	135	7/8	17/32
BTQ-C132	136	7/8	17/32
BTQ-C133	137	7/8	17/32
BTQ-C136	140	7/8	17/32

Item No.	Belt Lgth. (Inch)	Top Width	Thickness
C Type			
BTQ-C138	142	7/8	17/32
BTQ-C139	143	7/8	17/32
BTQ-C140	144	7/8	17/32
BTQ-C141	145	7/8	17/32
BTQ-C142	146	7/8	17/32
BTQ-C144	148	7/8	17/32
BTQ-C147	151	7/8	17/32
BTQ-C148	152	7/8	17/32
BTQ-C150	153	7/8	17/32
BTQ-C151	155	7/8	17/32
BTQ-C152	156	7/8	17/32
BTQ-C153	157	7/8	17/32
BTQ-C154	158	7/8	17/32
BTQ-C155	159	7/8	17/32
BTQ-C156	160	7/8	17/32
BTQ-C158	162	7/8	17/32
BTQ-C160	164	7/8	17/32
BTQ-C162	166	7/8	17/32
BTQ-C164	168	7/8	17/32
BTQ-C165	169	7/8	17/32
BTQ-C166	170	7/8	17/32
BTQ-C167	171	7/8	17/32
BTQ-C169	173	7/8	17/32
BTQ-C170	174	7/8	17/32
BTQ-C171	175	7/8	17/32
BTQ-C173	177	7/8	17/32
BTQ-C175	179	7/8	17/32
BTQ-C177	181	7/8	17/32
BTQ-C180	184	7/8	17/32
BTQ-C183	187	7/8	17/32
BTQ-C184	188	7/8	17/32
BTQ-C185	189	7/8	17/32
BTQ-C188	192	7/8	17/32
BTQ-C190	194	7/8	17/32
BTQ-C195	199	7/8	17/32
BTQ-C196	200	7/8	17/32
BTQ-C197	201	7/8	17/32
BTQ-C202	206	7/8	17/32
BTQ-C206	210	7/8	17/32
BTQ-C210	214	7/8	17/32
BTQ-C212	214.2	7/8	17/32
BTQ-C218	220.2	7/8	17/32
BTQ-C225	227.2	7/8	17/32
BTQ-C235	237.2	7/8	17/32
BTQ-C240	242.2	7/8	17/32
BTQ-C246	248.2	7/8	17/32
BTQ-C250	252.2	7/8	17/32
BTQ-C255	257.2	7/8	17/32
BTQ-C270	272.2	7/8	17/32
BTQ-C280	282.2	7/8	17/32
BTQ-C285	287.2	7/8	17/32
BTQ-C300	302.2	7/8	17/32
BTQ-C315	317.2	7/8	17/32
BTQ-C330	332.2	7/8	17/32
BTQ-C345	345.2	7/8	17/32
BTQ-C360	362.2	7/8	17/32
BTQ-C390	392.2	7/8	17/32
BTQ-C420	422.2	7/8	17/32
D Type			
BTQ-D105	110.2	1 1/4	3/4
BTQ-D112	117.2	1 1/4	3/4
BTQ-D120	125.2	1 1/4	3/4
BTQ-D128	133.2	1 1/4	3/4
BTQ-D144	149.2	1 1/4	3/4
BTQ-D147	152.2	1 1/4	3/4
BTQ-D158	163.2	1 1/4	3/4
BTQ-D162	167.2	1 1/4	3/4
BTQ-D171	176.2	1 1/4	3/4
BTQ-D173	178.2	1 1/4	3/4
BTQ-D178	183.2	1 1/4	3/4
BTQ-D180	185.2	1 1/4	3/4
BTQ-D195	200.2	1 1/4	3/4
BTQ-D210	215.2	1 1/4	3/4
BTQ-D225	227.7	1 1/4	3/4
BTQ-D240	242.7	1 1/4	3/4
BTQ-D255	257.7	1 1/4	3/4
BTQ-D270	272.7	1 1/4	3/4
BTQ-D285	287.7	1 1/4	3/4
BTQ-D300	302.7	1 1/4	3/4
BTQ-D315	317.7	1 1/4	3/4
BTQ-D330	332.7	1 1/4	3/4
BTQ-D345	347.7	1 1/4	3/4
BTQ-D360	362.7	1 1/4	3/4
BTQ-D390	392.7	1 1/4	3/4
BTQ-D420	422.7	1 1/4	3/4
BTQ-D450	452.7	1 1/4	3/4
BTQ-D480	482.7	1 1/4	3/4
BTQ-D540	542.7	1 1/4	3/4

INDUSTRIAL V-BELTS

Single Wedge V-Belts



Single wedge V-belts, 3V, 5V and 8V in fabric wrapped construction give premium belt performance. The belts are constructed of highly engineered, high performance and heat resistant materials. The outer fabric wrap is treated with oil and heat resistant, engineered synthetic rubber coated compound, specifically compounded for excellent wear resistance, proven through thousands of hours of testing. The components are made using the latest in belt technology available on a global basis.

The belts exceed USA RMA published ratings levels. They are designed to perform at the identical or higher level than all other major USA manufacturer's belts of the same type. All 3V, 5V and 8V V-belts are manufactured to meet RMA standards for length, dimensions and matching. All belts of a given size are manufactured to run interchangeably in a matched set.

Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness	Item No.	Belt Lgth. (Inch)	Top Width	Thickness
3V Type				**3V Type**				**5V Type**				**8V Type**			
BTQ-3V250	25	3/8	5/16	BTQ-3V1060	106	3/8	5/16	BTQ-5V1400	140	5/8	17/32	BTQ-8V1500	150	1 1/2	29/32
BTQ-3V265	26.5	3/8	5/16	BTQ-3V1120	112	3/8	5/16	BTQ-5V1500	150	5/8	17/32	BTQ-8V1600	160	1 1/2	29/32
BTQ-3V280	28	3/8	5/16	BTQ-3V1180	118	3/8	5/16	BTQ-5V1600	160	5/8	17/32	BTQ-8V1700	170	1 1/2	29/32
BTQ-3V300	30	3/8	5/16	BTQ-3V1250	125	3/8	5/16	BTQ-5V1700	170	5/8	17/32	BTQ-8V1800	180	1 1/2	29/32
BTQ-3V315	31.5	3/8	5/16	BTQ-3V1320	132	3/8	5/16	BTQ-5V1800	180	5/8	17/32	BTQ-8V1900	190	1 1/2	29/32
BTQ-3V335	33.5	3/8	5/16	BTQ-3V1400	140	3/8	5/16	BTQ-5V1900	190	5/8	17/32	BTQ-8V2000	200	1 1/2	29/32
BTQ-3V355	35.5	3/8	5/16	**5V Type**				BTQ-5V2000	200	5/8	17/32	BTQ-8V2120	212	1 1/2	29/32
BTQ-3V375	37.5	3/8	5/16	BTQ-5V530	53	5/8	17/32	BTQ-5V2120	212	5/8	17/32	BTQ-8V2240	224	1 1/2	29/32
BTQ-3V400	40	3/8	5/16	BTQ-5V560	56	5/8	17/32	BTQ-5V2240	224	5/8	17/32	BTQ-8V2360	236	1 1/2	29/32
BTQ-3V425	42.5	3/8	5/16	BTQ-5V600	60	5/8	17/32	BTQ-5V2360	236	5/8	17/32	BTQ-8V2500	250	1 1/2	29/32
BTQ-3V450	45	3/8	5/16	BTQ-5V630	63	5/8	17/32	BTQ-5V2500	250	5/8	17/32	BTQ-8V2650	265	1 1/2	29/32
BTQ-3V475	47.5	3/8	5/16	BTQ-5V670	67	5/8	17/32	BTQ-5V2650	265	5/8	17/32	BTQ-8V2800	280	1 1/2	29/32
BTQ-3V500	50	3/8	5/16	BTQ-5V710	71	5/8	17/32	BTQ-5V2800	280	5/8	17/32	BTQ-8V3000	300	1 1/2	29/32
BTQ-3V530	53	3/8	5/16	BTQ-5V750	75	5/8	17/32	BTQ-5V3000	300	5/8	17/32	BTQ-8V3150	315	1 1/2	29/32
BTQ-3V560	56	3/8	5/16	BTQ-5V800	80	5/8	17/32	BTQ-5V3150	315	5/8	17/32	BTQ-8V3350	335	1 1/2	29/32
BTQ-3V600	60	3/8	5/16	BTQ-5V850	85	5/8	17/32	BTQ-5V3350	335	5/8	17/32	BTQ-8V3550	355	1 1/2	29/32
BTQ-3V630	63	3/8	5/16	BTQ-5V900	90	5/8	17/32	BTQ-5V3550	355	5/8	17/32	BTQ-8V3750	375	1 1/2	29/32
BTQ-3V670	67	3/8	5/16	BTQ-5V950	95	5/8	17/32	**8V Type**				BTQ-8V4000	400	1 1/2	29/32
BTQ-3V710	71	3/8	5/16	BTQ-5V1000	100	5/8	17/32	BTQ-8V1000	100	1 1/2	29/32	BTQ-8V4250	425	1 1/2	29/32
BTQ-3V750	75	3/8	5/16	BTQ-5V1060	106	5/8	17/32	BTQ-8V1060	106	1 1/2	29/32	BTQ-8V4500	450	1 1/2	29/32
BTQ-3V800	80	3/8	5/16	BTQ-5V1120	112	5/8	17/32	BTQ-8V1120	112	1 1/2	29/32	BTQ-8V4750	475	1 1/2	29/32
BTQ-3V850	85	3/8	5/16	BTQ-5V1180	118	5/8	17/32	BTQ-8V1180	118	1 1/2	29/32	BTQ-8V5000	500	1 1/2	29/32
BTQ-3V900	90	3/8	5/16	BTQ-5V1250	125	5/8	17/32	BTQ-8V1250	125	1 1/2	29/32	BTQ-8V5600	560	1 1/2	29/32
BTQ-3V950	95	3/8	5/16	BTQ-5V1320	132	5/8	17/32	BTQ-8V1320	132	1 1/2	29/32				
BTQ-3V1000	100	3/8	5/16					BTQ-8V1400	140	1 1/2	29/32				

Single Fractional Horsepower V-Belts



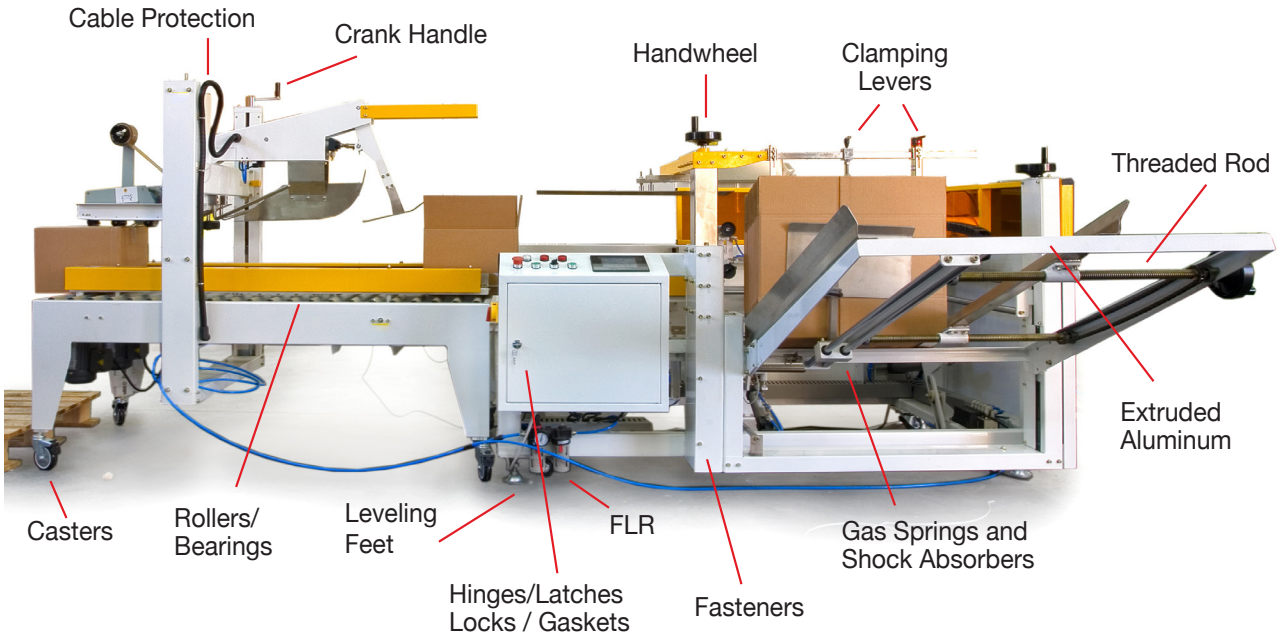
Wrapped Construction: 3L and 4L cross sections in lengths from 13" to 73". Single FHP V-belts, 3L and 4L in fabric wrapped construction give consistent good performance. The belts are constructed of highly engineered, high performance and heat resistant materials. The outer fabric wrap is treated with oil and heat resistant, engineered synthetic rubber coated compound, specifically compounded for excellent wear resistance, proven through thousands of hours of testing. The components are made using the latest in belt technology available on a global basis. The FHP V-belts are designed for general use applications with lower horsepower requirements. Typical applications are laundry machines, home workshop tools, small fans and blowers, small metal and woodworking machines, garage equipment, portable farm tools and other general purpose, low horsepower uses. The belts should not be used as a clutch. The belts should not be used with backside idlers. All belts of a given size are manufactured to run interchangeably in a matched set. The numbering system is 3L=3/8" top width and 4L=1/2" top width. Belt length is the numbers following the L in inches and tenths of inches, for example a 4L400 V-belt has a 1/2" top width and outside length of 40 inches.

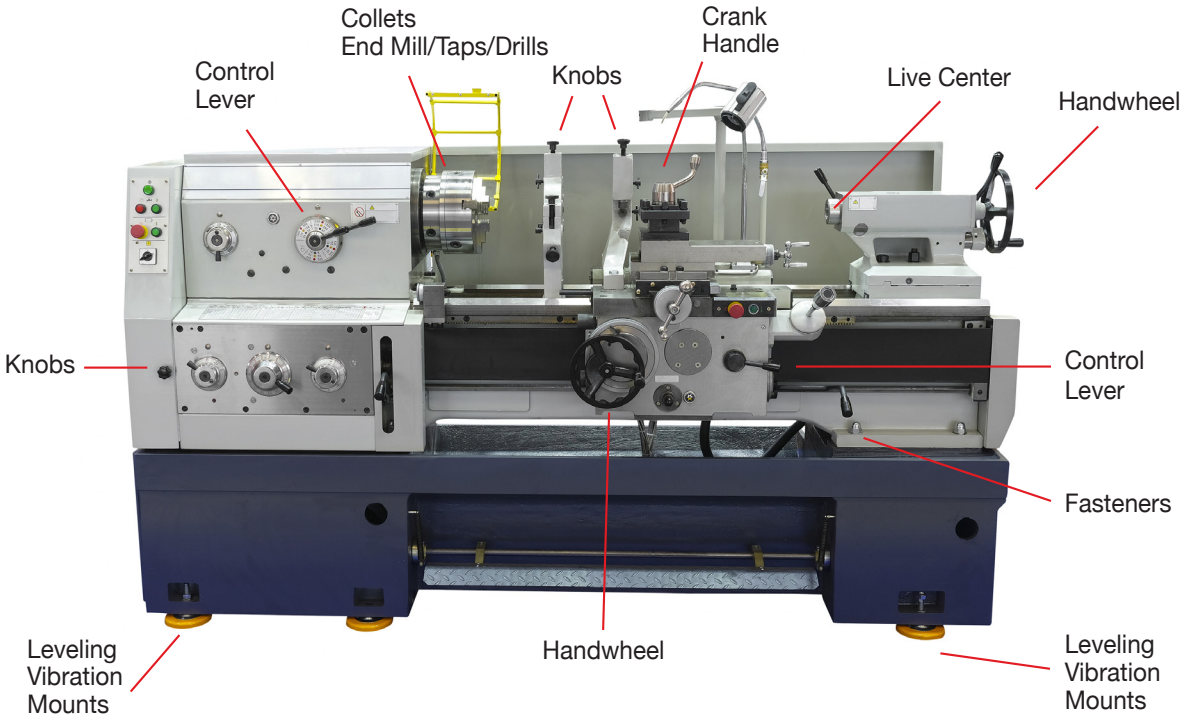
Belt Number Key (following "BTQ-")			
Type	**Top Width**	**Thickness**	**Outside Length**
3L	3/8 inch	7/32 inch	see table below
4L	5/8 inch	5/16 inch	see table below
Example: BTQ-3L130 = 3/8 inch top width, 7/32 inch thick and 13.0 inch appx. outside length.			

Item No.	Belt Lgth. (Inch)	Item No.	Belt Lgth. (Inch)
3L Type		**3L Type**	
BTQ-3L140	14	BTQ-3L450	45
BTQ-3L150	15	BTQ-3L460	46
BTQ-3L160	16	BTQ-3L470	47
BTQ-3L170	17	BTQ-3L480	48
BTQ-3L180	18	BTQ-3L490	49
BTQ-3L190	19	BTQ-3L500	50
BTQ-3L200	20	BTQ-3L510	51
BTQ-3L210	21	BTQ-3L520	52
BTQ-3L220	22	BTQ-3L530	53
BTQ-3L230	23	BTQ-3L540	54
BTQ-3L240	24	BTQ-3L550	55
BTQ-3L250	25	BTQ-3L560	56
BTQ-3L260	26	BTQ-3L570	57
BTQ-3L270	27	BTQ-3L580	58
BTQ-3L280	28	BTQ-3L590	59
BTQ-3L290	29	BTQ-3L600	60
BTQ-3L300	30	BTQ-3L610	61
BTQ-3L310	31	BTQ-3L620	62
BTQ-3L320	32	BTQ-3L630	63
BTQ-3L330	33	BTQ-3L640	64
BTQ-3L340	34	BTQ-3L650	65
BTQ-3L350	35	BTQ-3L660	66
BTQ-3L360	36	BTQ-3L670	67
BTQ-3L370	37	BTQ-3L680	68
BTQ-3L380	38	BTQ-3L690	69
BTQ-3L390	39	BTQ-3L700	70
BTQ-3L400	40	BTQ-3L710	71
BTQ-3L410	41	BTQ-3L720	72
BTQ-3L420	42	BTQ-3L730	73
BTQ-3L430	43	**4L Type**	
BTQ-3L440	44	BTQ-4L240	24
		BTQ-4L290	29

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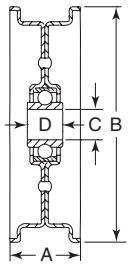


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V-BELT PULLEYS, TENSIONERS & IDLER SHAFTS

V-Belt Idler Pulley

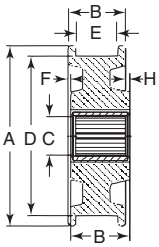




Item No.	Belt Type	A	B	C	D
IDC-118	A	.86	3½	⅜	23/32
IDC-119	A	.86	3½	½	23/32
IDC-121	B, C	1.31	5 1/16	½	23/32
IDC-122	B, C	1.31	5 1/16	⅝	23/32
IDC-123	B, C	1.31	7 5/16	½	23/32
IDC-124	B, C	1.31	7 5/16	⅝	23/32

Flat Faced Idler Pulleys - Needle Bearing

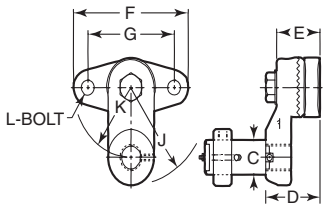




Item No.	A	B	C	D	E	F	G	H	Approx. Weight (Lbs.)
IDC-127	4½	1 7/16	1	4	1 1/16	1/16	1½	⅛	3.00
IDC-128	4½	2 1/16	1	4	2 1/16	1/16	3½	⅛	4.60
IDC-129	4½	3 1/16	1	4	3 1/16	1/16	3½	⅛	5.80
IDC-130	7	5	1	6	4½	1⅛	5⅛	⅛	13.20

Adjustable Flange Tensioners

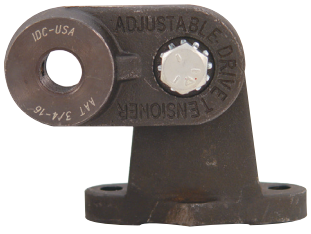


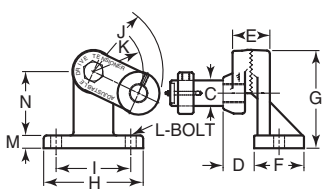


The adjustable flange tensioner has a flanged base that can be mounted in a tight area where space is limited. The rotating arm gives the operator 360 degree controlled tensioning and can be easily adjusted to the proper tension increasing the life of the drive. The adjustable flange tensioner has serrated teeth to prevent slippage. Idler shaft must be ordered separately.

Item No.	C	D	E	F	G	J	K	L	Approx. Weight (Lbs.)
IDC-62	1	1⅞	1½	4	3	3	2	¾-10 x ⅜	2.82
IDC-63	1	1⅞	1½	4	3	3	2	¾-16 x ⅜	2.82

Adjustable Angle Tensioners





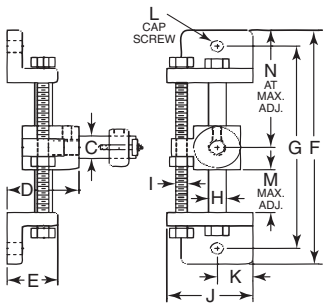
The adjustable angle tensioner has an angled base that can be mounted on the top of a frame member. The angled base provides parallel tensioning with the drive. This tensioner has serrated teeth to prevent slippage. Idler shaft must be ordered separately.

Item No.	C	D	E	F	G	H	I	J	K	L	M	N	Approx. Weight (Lbs.)
IDC-67	1	1¼	1½	2	4	4	3	3	2	¾-16 x ⅜	½	2½	3.15
IDC-69	1½	1¾	2⅜	3½	7⅜	7½	6	6½	5	1-14 x ⅝	¾	5⅛	14.20

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Adjustable Screw Tensioners



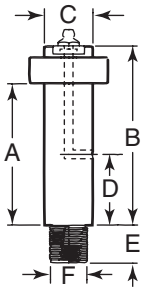


The adjustable screw tensioner uses screw adjustment for positive precise tensioning. Can be easily mounted to any flat surface and a favorite for operators that need to make very fine adjustments. Idler shaft must be ordered separately.

Item No.	C	D	E	F	G	H	I	J	K	L	M	N	Approx. Weight (Lbs.)
IDC-82	1	2½	1½	9⅜	8⅜	¾	½	2⅜	1	¾-16 x ⅜	4	2³⁄₁₆	4.29

Precision Ground Idler Shafts





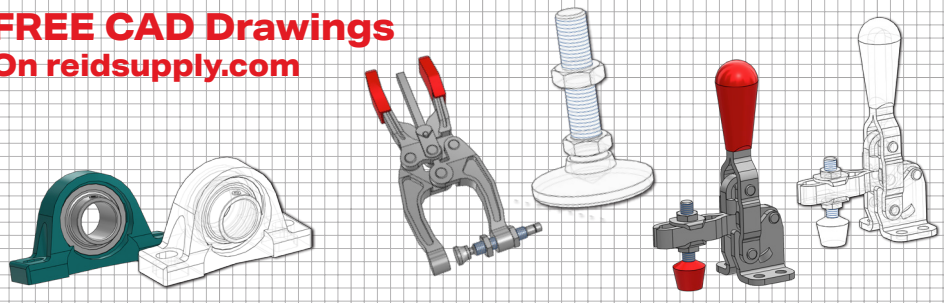
Idler Shafts - Coarse Thread

Item No.	A	B	C	D	E	F	Approx. Weight (Lbs.)
IDC-161	1¹⁄₁₆	1½	½	⅜	⁷⁄₁₆	⅜-16 THD	.16
IDC-162	1½	2⅛	1	⅝	⅞	¾-10 THD	.75
IDC-163	2½	3⅛	1	1⅛	⅞	¾-10 THD	.95
IDC-164	3½	4⅛	1	1⅝	⅞	¾-10 THD	1.16
IDC-165	3¼	4	1½	1⅜	1⁵⁄₁₆	1-8 THD	2.61
IDC-166	5¼	6	1½	2½	1⁵⁄₁₆	1-8 THD	3.64
IDC-167	1¹⁄₁₆	1½	½	⅜	⁷⁄₁₆	⅜-16 THD	.16

Idler Shafts - Fine Thread

Item No.	A	B	C	D	E	F	Approx. Weight (Lbs.)
IDC-168	1½	2⅛	1	⅝	⅞	¾-16 THD	.75
IDC-169	2½	3⅛	1	1⅛	⅞	¾-16 THD	.95
IDC-170	3½	4⅛	1	1⅝	⅞	¾-16 THD	1.16
IDC-171	3¼	4	1½	1⅜	1⁵⁄₁₆	1-14 THD	2.61
IDC-172	5¼	6	1½	2½	1⁵⁄₁₆	1-14 THD	3.64

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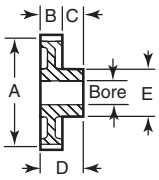
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GEARS, GEAR-RACKS & DAMPERS

Boston Gear Spur Gears





14½ degree pressure angle gearing for transmitting motion and power between parallel shafts. All are steel except GE-1040, 1048 and 1248 which are cast iron. 32 and 24 pitch spur gears include a set screw. None include key ways. Bore tolerance is +/- .0005". Diameter tolerance is +/-1/32".

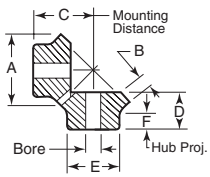
Item No.	Boston	Pitch	No. of Teeth	Pitch Dia. A	Bore	B	C	D	E	OD
GE-3216	H3216	32	16	.500	.1875	.188	.31	.498	.39	.562
GE-3218	H3218	32	18	.562	.1875	.188	.31	.498	.45	.624
GE-3220	H3220	32	20	.625	.2500	.188	.31	.498	.52	.687
GE-3224	H3224	32	24	.750	.3125	.188	.31	.500	.64	.812
GE-3240	H3240	32	40	1.250	.3750	.188	.38	.568	.88	1.312
GE-2412	H2412	24	12	.500	.2500	.250	.31	.560	.36	.583
GE-2416	H2416	24	16	.667	.3125	.250	.31	.560	.54	.750
GE-2420	H2420	24	20	.833	.3125	.250	.31	.562	.70	.916
GE-2424	H2424	24	24	1.000	.3750	.250	.38	.630	.87	1.083
GE-2012	NA12B	20	12	.600	.3125	.375	.38	.755	.46	.700
GE-2016	NA16B	20	16	.800	.3750	.375	.38	.755	.66	.900
GE-2020	NA20B	20	20	1.000	.3750	.375	.38	.755	.84	1.100
GE-2024	NA24	20	24	1.200	.3750	.375	.38	.755	.92	1.300
GE-2032	NA32	20	32	1.600	.3750	.375	.50	.875	1.32	1.700
GE-2048	NA48A	20	48	2.400	.3750	.375	.50	.875	1.33	2.500
GE-1612	NB12	16	12	.750	.3750	.500	.44	.940	.56	.875
GE-1614	NB14B	16	14	.875	.3750	.500	.44	.940	.69	1.000
GE-1616	NB16B	16	16	1.000	.5000	.500	.44	.940	.81	1.125
GE-1620	NB20B	16	20	1.250	.5000	.500	.44	.940	.96	1.375
GE-1624	NB24B	16	24	1.500	.5000	.500	.44	.940	1.20	1.625
GE-1632	NB32	16	32	2.000	.5000	.500	.50	1.000	1.70	2.125
GE-1640	NB40A	16	40	2.500	.5000	.500	.50	1.000	1.69	2.625

Item No.	Boston	Pitch	No. of Teeth	Pitch Dia. A	Bore	B	C	D	E	OD
GE-1648	NB48A	16	48	3.000	.5000	.500	.50	1.000	2.19	3.125
GE-1212	ND12	12	12	1.000	.5000	.750	.50	1.250	.75	1.167
GE-1216	ND16	12	16	1.333	.6250	.750	.50	1.250	.99	1.500
GE-1218	ND18	12	18	1.500	.6250	.750	.50	1.250	1.15	1.667
GE-1224	ND24	12	24	2.000	.6250	.750	.50	1.250	1.65	2.167
GE-1230	ND30	12	30	2.500	.6250	.750	.62	1.370	2.15	2.667
GE-1232	ND32A	12	32	2.667	.6250	.750	.62	1.370	1.92	2.834
GE-1248	ND48	12	48	4.000	.7500	.750	.75	1.500	1.75	4.167
GE-1012	NF12	10	12	1.200	.6250	1.000	.62	1.620	.92	1.400
GE-1018	NF18	10	18	1.800	.7500	1.000	.62	1.620	1.42	2.000
GE-1020	NF20	10	20	2.000	.7500	1.000	.62	1.620	1.62	2.200
GE-1024	NF24	10	24	2.400	.7500	1.000	.62	1.620	2.02	2.600
GE-1030	NF30A	10	30	3.000	.7500	1.000	.88	1.880	2.02	3.200
GE-1040	NF40	10	40	4.000	.8750	1.000	.88	1.880	2.12	4.200
GE-1048	NF48	10	48	4.800	.8750	1.000	.88	1.880	2.12	5.000
GE-0812	NH12	8	12	1.500	.7500	1.250	.75	2.000	1.12	1.750
GE-0816	NH16	8	16	2.000	.8750	1.250	.75	2.000	1.56	2.250
GE-0820	NH20	8	20	2.500	.8750	1.250	.75	2.000	2.06	2.750
GE-0824	NH24A	8	24	3.000	.8750	1.250	.88	2.130	2.06	3.250
GE-0612	NJ12	6	12	2.000	1.0000	1.500	.88	2.380	1.46	2.333
GE-0624	NJ24A	6	24	4.000	1.1250	1.500	.88	2.380	3.00	4.333

Boston Gear Miter Gears





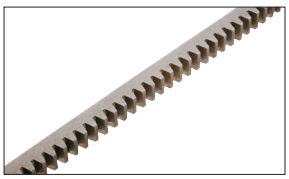


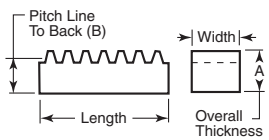
20 degree pressure angle for transmitting motion and power between intersecting shafts at right angles. All are unhardened steel. 1:1 ratio applications. Coniflex tooth form allows for minor adjustments and increases gear life. Bore tolerance is +/-.0005".

Item No.	Boston	Pitch	No. of Teeth	Pitch Dia. A	Bore	B	C	D	E	F
GE-110	L110Y	16	16	1.00	.3750	.23	1.062	.755	.75	.44
GE-111	L111Y	16	20	1.25	.4375	.28	1.250	.849	1.00	.50
GE-112	L112Y	16	24	1.50	.5000	.32	1.375	.880	1.00	.50
GE-125	L125Y	12	15	1.25	.3750	.29	1.250	.864	1.00	.50
GE-101	L101Y	12	15	1.25	.5000	.29	1.250	.864	1.00	.50
GE-127	L127Y	12	18	1.50	.5000	.33	1.500	1.021	1.25	.63
GE-102	L102Y	12	18	1.50	.6250	.33	1.500	1.021	1.25	.63
GE-119	L119Y	12	21	1.75	.5000	.40	1.750	1.192	1.38	.69

Item No.	Boston	Pitch	No. of Teeth	Pitch Dia. A	Bore	B	C	D	E	F
GE-113	L113Y	12	24	2.00	.5000	.44	1.875	1.224	1.31	.69
GE-128	L128Y	10	20	2.00	.5000	.45	2.000	1.364	1.62	.81
GE-129	L129Y	10	20	2.00	.6250	.45	2.000	1.364	1.62	.81
GE-103	L103Y	10	20	2.00	.7500	.45	2.000	1.364	1.62	.81
GE-130	L130Y	10	25	2.50	.7500	.56	2.438	1.630	2.00	.94
GE-131	L131Y	10	25	2.50	1.0000	.56	2.438	1.630	2.00	.94
GE-115	L115Y	8	24	3.00	.7500	.66	2.562	1.583	1.75	.81
GE-105	L105Y-A	8	24	3.00	1.0000	.68	2.750	1.786	2.50	1.00

Boston Gear Spur Gear Racks





Face Width	Tolerances
⅛ - ¾	+.000/-.002
⅞ - 1½	+.000/-.003
1¾ - 2	+.000/-.004

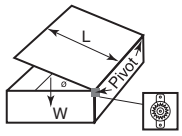
14½ degree pressure angle gearing racks. All are steel. Ends are not machined. Length tolerances are +1.000/-.000" to allow for cutting and matching.

Item No.	Boston	Pitch	Width	Lgth. Feet	A	B
GE-3200	L503-4	32	.188	4	.188	.156
GE-2400	L505-4	24	.250	4	.250	.208
GE-2000	L509-4	20	.375	4	.375	.325
GE-2001	L509-6	20	.375	6	.375	.325
GE-1600	L512-4	16	.500	4	.500	.438
GE-1601	L512-6	16	.500	6	.500	.438
GE-1200	L514-4	12	.750	4	.500	.417
GE-1202	L515-4	12	.750	4	.750	.667

Item No.	Boston	Pitch	Width	Lgth. Feet	A	B
GE-1203	L515-6	12	.750	6	.750	.667
GE-1000	L516-4	10	1.000	4	.625	.525
GE-1001	L516-6	10	1.000	6	.625	.525
GE-1002	L517-4	10	1.000	4	1.000	.900
GE-0800	L518-4	8	1.250	4	.750	.625
GE-0802	L519-4	8	1.250	4	1.250	1.125
GE-0600	L520-4	6	1.500	4	1.000	.833

Rotary Dampers

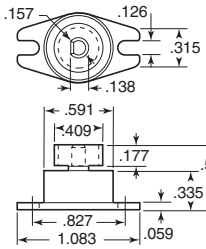
For smooth mechanical motions. Used in VCR loading mechanisms, glovebox doors, window shades, copy machine lids or anywhere controlled rotary motion is needed. Two way damping controls the movement in both directions. Maximum cycle rate is 10 cycles per minute. Nominal torque ratings are measured at 20 RPM and 73 degrees Fahrenheit. Torque is affected by temperature. Calculate nominal torque using the formula shown.



T=(L/2) x (W) x (cos Ø)
Where: T=Nominal Torque
L=Length from pivot to the end of the lid
Ø=The angle between the panel and horizontal
W=The free weight of the lid



ACE-RD301



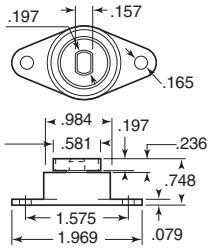


ACE-RD302

Nominal torque in oz. 4.17
Standard spur gear option
Gear has 11 involute (full) teeth
Module .031
Pitch circle diameter .346



ACE-RD501



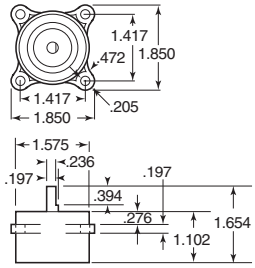


ACE-RD502

Nominal torque in oz. 6.94
Gear has 12 involute (full) teeth
Module .039
Pitch circle diameter .472



ACE-RD203



Nominal torque in lbs. 17.36
No gear option

Item No.	Gear	Item No.	Gear	Item No.	Gear
ACE-RD301	w/o Gear	ACE-RD501	w/o Gear	ACE-RD203	w/o Gear
ACE-RD302	w/ Gear	ACE-RD502	w/ Gear		

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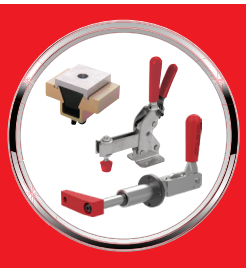
STANDARD QUOTES
IN 4 HOURS OR LESS

MOST PRODUCTS
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KNOBS HANDLES HAND WHEELS
Pg. 6-150



CLAMPS & WORKHOLDING
Pg. 152-227



AUTOMATION COBOT ACCESSORIES
Pg. 230-234



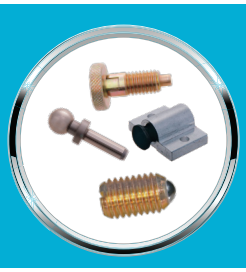
LATCHES CATCHES HINGES
Pg. 236-280



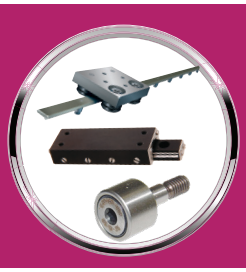
LEVELING FEET CASTERS VIBRATION MOUNTS
Pg. 282-333



TOOLING & POSITIONING
Pg. 334-407



POWER TRANSMISSION
Pg. 408-521



CONVERSION CHART

Fraction	Decimal	Millimeter
1/64	.0156	.396
1/32	.0312	.793
3/64	.0469	1.190
1/16	.0625	1.587
5/64	.0781	1.984
3/32	.0937	2.381
7/64	.1094	2.778
1/8	**.125**	**3.175**
9/64	.1406	3.571
5/32	.1562	3.968
11/64	.1719	4.365
3/16	**.1875**	**4.762**
13/64	.2031	5.159
7/32	.2187	5.556
15/64	.2344	5.953
1/4	**.25**	**6.350**
17/64	.2656	6.746
9/32	.2812	7.143
19/64	.2969	7.540
5/16	**.3125**	**7.937**
21/64	.3281	8.334
11/32	.3437	8.731
23/64	.3594	9.128
3/8	**.375**	**9.525**
25/64	.3906	9.921
13/32	.4062	10.318
27/64	.4219	10.715
7/16	**.4375**	**11.112**
29/64	.4531	11.509
15/32	.4687	11.906
31/64	.4844	12.303
1/2	**.5**	**12.700**

Fraction	Decimal	Millimeter
33/64	.5156	13.096
17/32	.5312	13.493
35/64	.5469	13.890
9/16	**.5625**	**14.287**
37/64	.5781	14.684
19/32	.5937	15.081
39/64	.6094	15.478
5/8	**.625**	**15.875**
41/64	.6406	16.271
21/32	.6562	16.668
43/64	.6719	17.065
11/16	**.6875**	**17.462**
45/64	.7031	17.859
23/32	.7187	18.256
47/64	.7344	18.653
3/4	**.75**	**19.050**
49/64	.7656	19.446
25/32	.7812	19.843
51/64	.7969	20.240
13/16	**.8125**	**20.637**
53/64	.8281	21.034
27/32	.8437	21.431
55/64	.8594	21.828
7/8	**.875**	**22.225**
57/64	.8906	22.621
29/32	.9062	23.018
59/64	.9219	23.415
15/16	**.9375**	**23.812**
61/64	.9531	24.209
31/32	.9687	24.606
63/64	.9844	25.003
1	**1.0**	**25.400**

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