



Design Engineer's Guide

BRING YOUR DESIGN TO LIFE

WITH OUR EXTENSIVE
RANGE OF FASTENERS



HELP CHOOSING THE RIGHT SOLUTION FOR YOUR APPLICATION

Our fasteners are designed to work for just about every application. However, in certain instances, a particular screw, nut, washer or rivet is the ideal choice for your task. To help you choose the fastener you need, we've put together this guide. Materials are important when making your choice, so we also recommend our [Fastener Material Selection Guide](#).

With fasteners ranging from nylon thumb screws and wing nuts to solid rivets and finishing washers, we're here to make your job easier. That's why we also encourage you to download [free CADs](#) and try before you buy with [free samples](#).

ELECTRONICS

White Goods | Consumer Electronics | Office Equipment

Ensure the quality and life of your product with fasteners in the sizes and tolerances you need.



KEEP YOUR DESIGN TOGETHER WITH:

HEX HEAD CAP SCREWS - PLASTIC

[View online](#)



- Lightweight hex head cap screw
- Excellent electrical insulation properties
- Nylon 6/6

SNAP PUSH-IN RIVET

[View online](#)



- High-temperature snap rivets – operating temperature range: 32°F to 311°F (0°C to 155°C)
- Handles heat generated by application
- Black polysulfone, UL94 V-1

Learn more in [How to choose your plastic rivets: a quick guide](#).

NYLON FLAT WASHERS

[View online](#)



- Insulates against moisture and electricity
- Resists corrosion, abrasion and most chemicals
- Provides cushioning and spacing for a screw when a washer is attached
- Nylon 6/6, rated UL94 V-2



AUTOMOTIVE

Cars | Motorbikes | Specialist Vehicles | Road and Rail Freight (Passenger Vehicles)

OEM quality you can rely on, from lightweight to heavy-duty fasteners, for every part of the vehicle.



FASTEN YOUR DESIGN WITH:

PUSH-IN RIVETS - BARBED

[View online](#)



- Barbed push-fit rivets enable fast, easy installation (also called fir-tree rivets)
- Flexible ribs deflect and spring back to lock securely in place
- Combines the advantages of a push-in type fastener with a screw
- Nylon 6/6, rated UV94 V-2

Learn more with our [Guide to Panel Fastening.](#)

QUARTER-TURN FASTENERS

[View online](#)



- Quarter-turn fasteners join together one fixed and one removable panel
- Preassembled to reduce hardware and cost
- Acetal, rated UL94 HB

RETAINING WASHERS

[View online](#)



- Retaining washer with anti-loss lip is suitable for pre-assembly
- Sealing capabilities; resistant to corrosion and many chemicals
- Nylon 6/6





RETAIL & FURNITURE

Point of Sale | Office Furniture

Our range includes strong, clear, polycarbonate fasteners ideal for retail and display solutions for furniture.



SECURE YOUR DESIGN WITH:

FIR-TREE PUSHED-IN RIVET

[View online](#)



- Fir-tree rivets, also called barbed rivets, are ideal for threaded, non-threaded, drilled or punched holes
- Designed to be non-removable
- Suitable for Point-of-Purchase displays
- Available in polypropylene (PP) and nylon

PLASTIC FLOWERETTE KNOBS

[View online](#)



- Thumb screw knobs can be used as thumb screw or knob
- Knobs easily assembled by pressing onto a standard socket head cap screw of any length
- Acetal; style: rosette knob thumb screws





MACHINERY

Generators | HVAC | Industrial Tools

Fastener failures are often caused by the joint losing clamp load due to vibration and high dynamic loads. You can prevent this with the right fasteners.



ENHANCE THE LIFE OF YOUR DESIGN WITH:

VIBRATION GROMMET SCREWS

[View online](#)

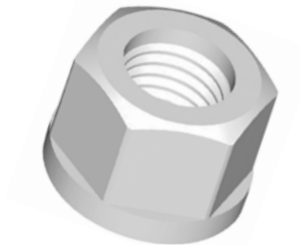


- Used in conjunction with the VG series vibration grommets
- Zinc-plated, 1022 carbon steel

You might find it helpful to read [How to Prevent Galling on Stainless Steel Bolts.](#)

NYLON FLANGE HEX NUT - METRIC

[View online](#)



- Combined washer function
- Even load distribution
- Reduced risk of damage and loosening
- Nylon 6/6

FULLY THREADED STUDS & RODS

[View online](#)



- Threaded rod stock easily cut to size
- Resistant to vibrations, abrasions and most chemicals
- Electrically insulating, non-magnetic, lightweight and low thermal conductivity
- Threaded stud with chamfer on both ends also available
- Nylon 6/6





PLASTIC MATERIALS COMPARISON

Material is the vitiating factor in delivering successful projects, from creating point-of-sale displays to building a new electrical cabinet.

Plastics have many advantages over metals. They cost less and don't rust or conduct heat or electricity. To help you choose the appropriate fastening material based on your specific application and environment, the table below will help you make an informed decision for your project.



MATERIAL	Strength	Impact resistance	UV resistance	Acids/alkalines resistance	Weather resistance	Heat resistance	Flame resistance
Nylon	Good	Fair	Fair	Poor	Poor	Fair	Fair
PP	Poor	Good	Good	Good	Poor	Poor	Poor
PVDF	Poor	Poor	Good	Good	Good	Good	Good
PC	Good	Good	Good	Poor	Good	Good	Poor
POM	Poor	Good	Poor	Fair	Poor	Good	Poor
TPE	Poor	Poor	Poor	Poor	Poor	Poor	Poor
PEEK	Good	Good	Poor	Good	Good	Good	Good
PVC	Poor	Good	Good	Fair	Poor	Poor	Good
PE	Poor	Good	Fair	Good	Poor	Poor	Poor
PPS	Good	Poor	Poor	Good	Good	Good	Good
PU	Poor	Good	Fair	Poor	Good	Fair	Poor
TPR	Poor	Good	Good	Poor	Fair	Fair	Good

WHICH MATERIAL?

Some examples of which materials work best for certain industries.

Point of Sale and Display – Polycarbonate (PC) is a key material within this industry due to its strong nature twinned with its transparent appearance.

Pharmaceutical – Polypropylene (PP) has great resistance to many chemicals and can be easily welded to other PP components, providing versatility.

Electrical – With high temperature stability, heat and flame resistance, PVDF lends itself well to use in a working electrical application or electrical cabinet.

Oil & Gas – In an often moving and volatile application, PEEK® material fasteners offer high tensile strength, flame resistance and can operate in continuous use in temperatures up to 180°C.

Automotive and Manufacturing – Tough and mechanically resistant, nylon fasteners are lighter, less expensive alternatives to metal equivalents. If you need added UV resistance, choose an PVDF component.

DOWNLOAD FREE CADS AND TRY BEFORE YOU BUY

Free CADs are available for most solutions, which you can download. You can also request free samples to ensure the fastener you've chosen is exactly what you need. You might also find [The ultimate guide to fasteners](#) helpful. If you're not quite sure which product will work best for your application, our experts are always happy to advise you.

Whatever your requirements, you can depend on fast despatch.

Request your [free samples](#) or download [free CADs](#) now.

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