ESSENTRA COMPONENTS

COST REDUCTION AND TIME SAVINGS

Grolleau is a recognised leader in the design and manufacture of metal energy cabinets, shelters and innovative solutions for complex environments.

In order to improve its production efficiency, the company needed a solution that would simplify the assembly of a component used in the manufacture of its high-voltage stations, whilst reducing costs. To meet this challenge, Grolleau drew on Essentra's expertise and its ability to design bespoke technical solutions.

CUSTOMER
Grolleau

INDUSTRY
Manufacturer of industrial cabinets

SOLUTION
Bespoke cable crossing

THE CHALLENGE

As part of its continuous improvement, Grolleau wanted to redesign an existing component in order to improve its industrial performance. The objective was clear: to develop a solution that would be easier for production teams to assemble whilst reducing costs and maintaining high standards of quality and reliability. Rather than simply replacing a part, the aim was to optimise the entire manufacturing process in order to improve efficiency on the assembly line.

THE SOLUTION

Working closely with Grolleau, Essentra developed a bespoke cable management solution designed specifically for its cabinet application. By supporting the project from design through to manufacture, including technical drawings, 3D models, and pre-production samples, Essentra helped accelerate development, reduce risk, and ensure seamless integration into Grolleau's production process.

The bespoke cable crossing is assembled with a corresponding component mounted on top of the cabinet and secured using screws. It features an improved chamfered fixing design, enabling additional nuts to create a stronger, more secure assembly while maintaining the correct spacing for cable routing. Manufactured from PA66 GF30, it also incorporates moulded material and date markings to improve traceability and quality control.

Essentra also developed specialised tooling to manufacture the spacer blocks directly at its factory, helping Grolleau simplify production, reduce assembly time and improve overall manufacturing efficiency.

"Essentra demonstrates real proactive strength. Organising a workshop is a particularly worthwhile initiative: it encourages discussion, allows handling of the parts first-hand, and helps teams to visualise their implementation, serving a continuous improvement approach."

— Claude Dezecot, Head of the Mechanical Design at Grolleau

RESULTS

Thanks to this collaboration, Grolleau benefits from Essentra's expertise and solutions, generating tangible gains on several levels:

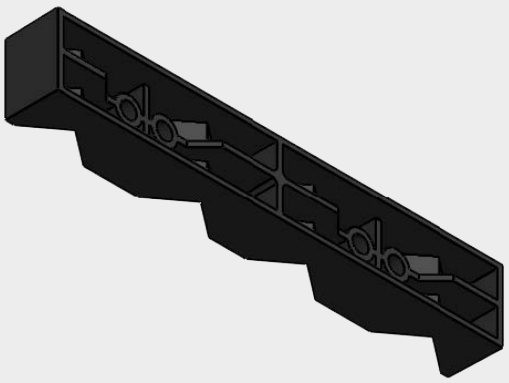
Time savings in production: Simplifying the component and assembly process reduces time on the production line.

Significant cost reduction: Essentra's new solution delivers substantial savings compared with previous solutions.

Streamlining of suppliers: By choosing Essentra as a preferred partner, Grolleau was able to reduce the number of suppliers and simplify procurement management.

Stock security: Essentra ensures sufficient stock availability to support Grolleau's annual production requirements.

International support: Essentra is also able to support the various entities of the Grolleau group internationally, notably in Italy and China.



ONGOING SUPPORT

Essentra Components remains committed to Grolleau and continues to supply high-quality components quickly. We also provide support in other areas, notably by working with design teams during the prototyping phase to identify the best solutions and the most suitable components for their applications. Essentra Components provides critical technical support on an ongoing basis where none existed before.

To find out how Essentra Components can help you with your projects, contact us on **0345 528 0474** or by email at **sales@essentracomponents.co.uk**