

Press Release

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Tube connection clamps for modular structures: strength, cleanability and versatility

Elesa S.p.A., a global leader in the design and manufacture of standard components for the mechanical industry, presents its complete range of tube connection clamps, engineered to provide maximum flexibility in the creation of modular tubular structures.

The TCC system, awarded the *German Design Award 2024* with the “Winner” distinction in the Excellent Product Design category, enables the simple and safe construction of stable and reconfigurable structures, such as modular shelving, workbenches, machine guards, enclosures and solutions for industrial environments, as well as applications in technical and DIY contexts.

Manufactured from glass fibre reinforced polyamide-based technopolymer, with stainless steel fasteners, the clamps ensure high mechanical strength and excellent corrosion resistance, while also helping to reduce the overall weight of the structures.

The compact design, smooth surfaces and absence of sharp edges facilitate cleaning operations and enhance the aesthetic quality of the finished structures. Elesa clamps also guarantee dimensional accuracy and long-term reliability, with high resistance to tube pull-out and rotation (values tested in laboratory conditions at room temperature, with tightening at the recommended torque).

The range includes numerous types of standard elements, such as cross clamps, T-clamps, sleeves, articulated joints with fixing plate and many other solutions, designed to meet a wide variety of application requirements. The TCC-SJD version with double ball joint is also available, allowing for spatial angling and further increasing structural flexibility. Clamping kits available as accessories enable quick and frequent adjustments, even without the use of tools.

TCC series clamps are available in black and grey, matching the natural finish of aluminium, and in two main diameters (Ø 18 and 30 mm). Reducing bushes also allow use with tubes of different diameters, further enhancing system versatility.

For food industry applications, Elesa also offers a selection of clamps in “signal blue” technopolymer (RAL 5005), made from materials suitable for food contact (FDA CFR.21 and EU 10/2011) and easily detectable visually.

This feature helps to increase safety in production processes, in compliance with international regulations.

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In addition to technopolymer clamps, Elesa also provides a complete range of tube clamps in aluminium, steel and stainless steel, suitable for both round and square-section tubes, further expanding application possibilities.

To complete the offering, a wide range of accessories is available, including monitor mounts (GN 197 series) compliant with the VESA standard, which can be easily integrated into modular structures for the installation of panels, displays and on-board control systems.

With this comprehensive range of connection clamps, Elesa offers a reliable, versatile and easily configurable solution for the construction of modular structures across multiple industrial sectors.



Technopolymer connection clamp range

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Range of steel, stainless steel and aluminium connection clamps