

Press Release

05/10/2026

Beyond metal: Elesa introduces the new range of technopolymer fastening systems

In industrial design, even the smallest component can affect the performance, reliability and service life of an entire system. This is particularly true of fastening components which, in addition to **connecting** parts, are increasingly required to **withstand corrosive and chemical environments**, provide **electrical and thermal insulation**, **reduce overall structural weight** and **maintain the highest mechanical performance over time**.

To meet these requirements, Elesa is expanding its product range with a new family of **technopolymer fastening systems**, comprising of **22 new series and almost 500 codes**, including **screws, nuts, washers** and **spacers**. The new range provides designers and manufacturers with a reliable alternative to traditional metal fastening components for a wide variety of industrial applications.

Made from **polyamide-based technopolymer (PA)** in natural colour, the new components offer **high resistance to corrosion and chemical agents**, together with **electrical insulation properties** and a significant **weight reduction** compared with equivalent metal solutions. These inherent material properties make the components particularly suitable for applications across a wide range of sectors, including industrial automation, electronics, aerospace, rail, medical equipment, automotive, agricultural machinery, the chemical industry and technical furniture.

The new range has been developed in accordance with the **main DIN and ISO standards**, allowing designers to use technopolymer components without having to modify established design geometries. The range includes screws in different configurations – wing, countersunk, hexagonal socket, cylindrical and headless – as well as dome, safety and self-locking nuts. It also includes standard, anti-vibration, safety, captive and locking washers, together with cylindrical spacers.

Attention has been paid to the functional performance of the components. They have been designed to improve fastening stability; minimise loosening caused by vibration and simplify assembly operations.

The entire range undergoes dimensional and mechanical checks to ensure consistent and reliable performance. For the screws, the corresponding technical data sheets also specify the maximum tightening torque values, providing designers with precise information for correct component selection and use case.

PRESS BOX

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More than a simple catalogue extension, this new family represents a further step in the development of Elesa's range of standard technopolymer components. It provides designers with a comprehensive selection of reliable, lightweight and resistant fastening systems that can make a tangible contribution to the quality, durability and performance of industrial machinery.



1941 – 2026 Serving the industry for over 80 years

Founded in 1941, Elesa S.p.A. is today a global benchmark in the design and manufacture of standard components for machinery, industrial equipment and automation systems. The company offers the widest product range on the market, including knobs, handles, handwheels, position indicators, clamping elements, hinges, levelling feet, castors and wheels and vacuum components.

Headquartered in Monza, with a solid international sales network comprising 15 commercial subsidiaries, 7 direct subsidiaries in Canada, France, Mexico, the United Kingdom, the United States, Sweden and Switzerland, and 8 Elesa+Ganter joint ventures in Austria, China, India, Poland, the Czech Republic, Spain, Türkiye and the Netherlands. Elesa exports its products to over 60 countries worldwide, providing technical support, high stock availability and highly qualified customer service.

A constant focus on research and development, combined with distinctive industrial design and high-quality materials, makes Elesa the ideal partner for companies aiming to achieve efficiency, ergonomics and innovation in their industrial systems.

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