

Press Release

9/06/2026

The future of industry goes beyond standard:
lightweight, high-performance, without compromise

SUPER-technopolymer threaded parts

For over 80 years, **Elesa S.p.A. has established itself as an international leader in the design and manufacture of standard components** for machinery, industrial equipment and automation. This success is built on **continuous innovation, internationally recognised design excellence**, and a long-standing strategic focus on **material quality**.

Over the decades, Elesa has closely followed technological evolution and the development of **advanced engineering plastics**, which have now reached outstanding levels of **performance**. In a constantly evolving industrial landscape—where **efficiency, durability** and **cost optimisation** are essential requirements—the use of **high-performance polymer materials** has become a key factor. Advances in polymer science have enabled the development of technopolymers and advanced plastics that often represent the most effective solution for a wide range of applications.

The added value of SUPER-technopolymer

Thanks to **well-established expertise and a state-of-the-art in-house laboratory**, Elesa employs **next generation technopolymers** derived from the automotive, aerospace and electronics sectors. These materials offer **exceptional mechanical properties, thermal resistance, resistance to chemicals and corrosion, electrical insulation**. As a result, Elesa components achieve a unique combination of **lightness, mechanical strength** and **wear resistance**.

Elesa's SUPER-technopolymer components are, in many cases, the ideal solution for applications requiring high performance, reduced weight and long service life—from machine tools and industrial automation to packaging and food processing equipment.

The use of SUPER-technopolymers represents a significant step forward in industrial component engineering. Reinforced with glass fibres, these materials provide **high tensile, compressive** and **flexural strength** while maintaining consistent performance over time. Their **excellent chemical resistance** makes them particularly suitable for aggressive environments and high-intensity applications.

Their **lightweight** nature contributes to reducing the overall weight of machinery, improving energy efficiency and simplifying installation and maintenance operations. A **low coefficient of friction**, combined with a **smooth, non-porous surface**, minimises wear and enables operation without lubrication. In addition, their **electrical insulation** properties make them especially suitable for electrically sensitive environments.

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Economically, they also deliver tangible benefits: lower production costs, simplified processing and reduced energy consumption make SUPER-technopolymers a high value-added solution for next-generation industry.

A further key development is the application of this material to **threaded components**, including **threaded studs and stems, knurled knobs, levelling feet, positioning elements** and **cam levers**. The versatility of SUPER-technopolymers enables them to meet a wide range of requirements while consistently ensuring high performance.

Certified innovation and quality

The **Research & Development department** works in continuous synergy with the in-house testing laboratory, overseeing every stage of development—from structural simulation and prototyping using pilot moulds, through to the validation of each individual component. Every product undergoes rigorous mechanical, thermal, impact and chemical resistance testing.



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