Press Release

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Noiseless and lightweight:
the new ELESA transmission elements

The brand-new transmission elements are now online together with Elesa machine elements.

Glass-fibre reinforced polyamide-based technopolymer and grey colour. Transmission elements count two families: cylindrical spur gears (pressure angle 20°) with straight teeth (ZCL) and racks (pressure angle 20°) with straight teeth (ZCR).

Spur gears modules are from 0.5 to 3.0 and racks from 0.5 to 4.0. Racks are available in square section, with or without metal core, with mounting bracket or "T" shaped.

Main function of transmission elements is the transfer of a speed and torque in a mechanical system. Over the last few decades, the evolution in engineering plastics and technopolymers has led to the availability of spur gears in plastic material featuring high mechanical strengths in addition to providing all the advantages of plastics:

- corrosion and chemical agents resistance
- high resistance to torsion and tensile strength;
- noise reduction;
- low friction coefficient, which allows the use of gears even in sectors where lubrication is not recommended or even prohibited.

A further advantage of these elements, but no less important, is the low specific weight, offering a saving over metal gears, making them ideal where a general weight reduction is required.

Elesa transmission elements can be coupled to both technopolymer and metal gears. This is an excellent solution for all those applications where it is necessary to obtain a faster dissipation of the heat accumulated during the operation.

Product technical data sheets, along with drawings and tables with codes and dimensions are available on our website **elesa.com**.

ZCL Spur gears
Technopolymer, pressure angle 20°

ZCR Racks
Technopolymer, pressure angle 20°

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