

# Long-lasting, Strong, Universal



**Trapezoidal lead screws convert rotational movements into linear movements. They are able to transmit high positioning forces and are indispensable in a wide range of applications.**

When it comes to moving parts linearly, holding workpieces in place or making position adjustments in mechanisms, trapezoidal lead screws and nuts are almost always involved. Lead screws are ideally suited for rapid positioning movements, can transmit high forces and torques and are exceptionally resistant to wear. The latter aspect is entirely true of Elesa+Ganter's implementation of the standard, GN 103, which is available in a variety of dimensions. A rolling process is used in manufacturing, which results in enormous compression of the material and yields excellent surface quality. Elesa+Ganter maintains stocks of lead screws made from case-hardened steel C15 and stainless steel AISI 304 in the most common sizes from Tr8x1.5 to Tr50x8 and in both single- and multi-start versions. Trapezoidal lead screws in the lengths of 500 or 1000 mm can be shipped promptly from stock even when ordering just a single part.

As usual, Elesa+Ganter goes beyond merely offering the standard part itself by sharing expertise and assisting with correct design principles. The technical instructions explain important aspects such as flank pressure, self-locking and backlash on reversal as well as critical buckling forces and rotational speeds depending on the diameter and the unsupported lead screw length.

Translating rotational movements into linear movements requires a matching lead nut in addition to the trapezoidal lead screw. The Elesa+Ganter part GN 103.1 made from gunmetal offers very good gliding properties, robustness and long service life. It is mounted centrally via the radial mounting flange. The same configuration can be ordered in a plastic version in polyamide (PA) or polyacetal (POM).

Hex-shaped nuts are also available in steel or stainless steel as well as cylindrical nuts in steel, stainless steel, gunmetal and POM. These are ideally suited for specific solutions as they are easy to modify for integration into custom applications.

More information on Elesa+Ganter standard parts can be found in the internet at: [elesa-ganter.com](https://www.elesa-ganter.com)

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