EJOT TORQtec® Worm Drives

Completely cold-formed worm shafts, combined with accurately fitting worm gears (preferably made of plastics) and defined gear qualities according to DIN 1328 characterise the EJOT® worm drives.

A computer-assisted gear design is the technical basis for the development of the components.

Due to the fact that development and production of the spindle-nut-systems are done by one supplier, pairings with almost ideal thread pair clearance are produced. Adjustment problems between the worm shaft and the worm gear can thus be eliminated to the greatest possible extent.

Single- or multi-start worm shafts made of through-hardened steel or stainless steel A2 are the basis for the EJOT® worm drives.

Advantages of the EJOT® precision motion threads

- „From the idea to the concept“
- Short development times for new projects
- Usage of well-tested standardised components
- Quick sample production

Application areas

Worm drives:

- Actuators in automotive and non-automotive applications

Characteristics at a glance

- Customer-specific solutions
- High precision and repeat accuracy
- Low notch sensitivity due to cold-formed production of the worm shaft
- Defined gear quality
- Multi-start pitch possible
- Worm shaft and worm gear from one supplier
- Increase in strength due to strain hardening in the worm thread

Materials

Worm shaft:

- Through-hardened steel
- Stainless steel A2

Injection molding of the worm shaft:

- All thermoplastic materials

Worm gear:

- All thermoplastic materials

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