JAKOB
Antriebstechnik

PRODUCT RANGE

CLAMPING TECHNOLOGY

The JAKOB clamping sortiment

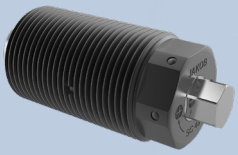
JAKOB‘s mechanical clamping elements with various force amplification systems, as well as its hydromechanical spring clamping systems, meet the increasing demands for shorter setup and production times. They represent an alternative to both simple mechanical clamping devices (clamping jaws, clamps, etc.) and semi- and fully automatic clamping systems, which often require complex power supplies and controls. Whether for initial installation or retro-fitting, JAKOB power clamping elements keep tools and workpieces securely in position at all times.

The JAKOB clamping element program is divided into:

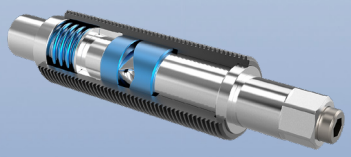
- Mechanical clamping elements
- Power clamping spindles
- Hydromechanical spring clamping systems
- Force measurement
- Clamping elements for custom solutions

Mechanical clamping elements

- Power clamping screws and nuts
- Highest clamping forces
- High operational reliability
- Simple manual operation
- Compact, flexible manufacturing

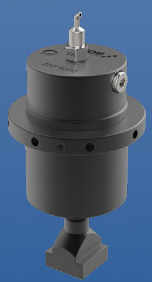


Mechanical and hydromechanical power clamping spindles



- Mechanical power clamping spindle for external or external/internal clamping directions
- Hydromechanical power clamping spindle for external clamping directions
- For installation in faceplates and mounting plates, as well as in jaw housings on lathes, grinding machines, and special-purpose machines
- Very high clamping forces with low tightening torques
- Maximum operational reliability and high rigidity
- Large power clamping stroke and high alignment accuracy
- Easy operation and installation, low maintenance
- Clamping forces up to 750 kN

Hydromechanical spring tensioning systems



- Two types of spring-loaded cylinders: spring tensioning or spring pressure cylinders
- Mechanical tensioning - hydraulic release
- Maximum operational reliability - leak-proof and robust
- The tensioning force is applied mechanically by a pre-tensioned disc spring assembly
- Temperature range: -30°C to +100°C, any installation position
- Tensioning forces up to 350 kN

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