

KÖNIG-MTM EXPANDS ITS PRODUCT RANGE

König-mtm has been one of the leading producers of high-precision clamping devices for modern machine tools for decades. The wide production program of the Königsdorn® brand includes workpiece clamping devices such as mandrels and chucks in hydraulic, mechanical or hydro-mechanical design.

New development for short clamping lengths

In order to be able to realize the requirements for shorter clamping lengths, König-mtm has developed a Königsdorn® to compliment their single taper mandrel with collet (type M1). The mechanically expanding clamping tool is particularly suitable for machining bevel gears and has a expansion range of 0,3 – 0,6 mm, depending on the size. Actuation can be via hydraulic pressure, tie rod or internal spring assembly.

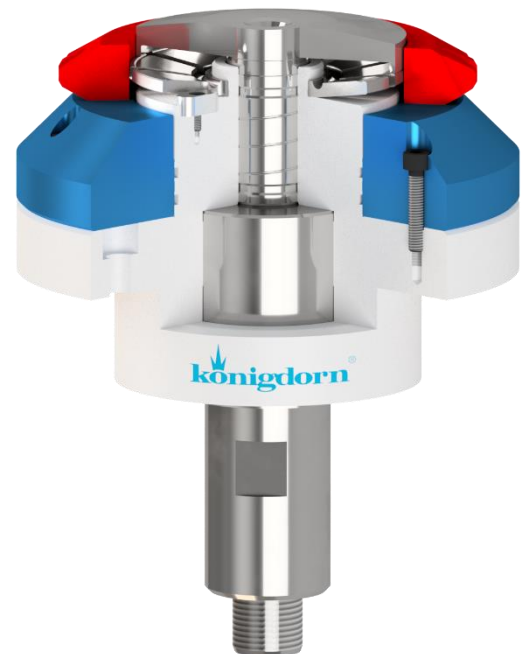


Illustration 1: Design of the clamping device

Special element clamping system

The new clamping system consists of a basic mandrel, a clamping disk and a pull rod. The clamping disk, however, is made of slotted, high quality tool steel in which the slots are siliconized with high-tech elastomer.

Clamping principle

The clamping disk sits on the fixture with the concave side facing upward, with the pull rod acting as pre-centering and lying flat. For clamping, the clamping disk is elastically deformed by the axial force of the pull rod, thereby pressing the centered workpiece against the workpiece fixture.

Product advantages

- Pull-down for force-fitting workpiece support
- High wear resistance
- High permanent elasticity and accuracy
- High concentricity
- High variant flexibility
- High clamping force at short clamping lengths
- Pre-centering by pull rod
- Compatible with automatic loading device
- Very short design possible
- Large expansion

Special design

As usual, the Königdoms are developed and produced tailor-made according to individual customer requirements and can be fitted to almost every machine connection of modern precision machine tools. Our special designs enable us to respond directly to the needs of our customers, which is why further options such as workpiece support control, quick-change capability, etc. are also possible for this type of clamping device. The customer benefits from high precision, high variant flexibility and short lead times.

Our application engineers are available for you and will be happy to advise you.



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