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CYLINDRICAL GRINDING
Production in highest precision

5-AXIS CYLINDRICAL GRINDING

We grind complex shapes on the outer contours of blank materials, in the centre or off-centre and produce, cutting tools, precision or form stamps or cores of matrices. In combination with our 5-axis precision milling centres, we are also able to manufacture highly complex forming tools made of carbide, hardened steel or ceramics.

Repeatability in production, increased productivity and reduced production costs are ubiquitous challenges that we have been optimizing for many years. With an integrated 3-axis loading and unloading robot, as well as the automatic measuring system of our 5-axis precision cylindrical grinding centers and the many years of expertise of our employees, we are able to overcome these problems.

We produce series of up to 1000 blanks, fully automated, maintaining a product repeatability of $\pm 0,5 \mu\text{m}$, without manual correction and produce surfaces at the highest level similar to those of a mirror.



Technical Specifications

- Grinding range $\varnothing 0,025 \text{ mm} - 25,0 \text{ mm}$ with a grinding length of max. 330 mm
- Machining of hard metal, hardened steel and ceramics
- Repeatability in production $\pm 0,5 \mu\text{m}$, without manual correction
- Concentricity accuracy within $1 \mu\text{m}$
- Surface roughness up to $Ra 0,05 \mu\text{m}$
- Homogeneous surfaces similar to those of a mirror
- Highly complex shapes on outer contours
- 5-axis skiving and plunge-cut grinding
- 3-axis loading and unloading robot for up to 1000 blanks
- Automatic measuring system
- Increased productivity and reduced production costs

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