

TURNING

from \varnothing 1mm - 1100mm (820)mm 3000mm length

- 6-axes CNC-Turning lathes with automatic charging and discharging of the components
- cycle-steered turning-lathes
- conventional lathes

CYLINDRICAL GRINDING

Outside diameter: 400 mm x 1.000 mm length

Onside diameter: 300 mm x 130 mm length

swing: 225 mm

SURFACE GRINDING

from 1 mm - 600 x 360 x 450 mm

- surface grinder
- universal grinder
- special grinder for drill-bit

DEEP DRILLING

from \varnothing 20 - 65 mm

passage : 3.200 mm

blind hole : 1.600 mm

from \varnothing 65 - 120 mm

passage : 2.900 mm

blind hole : 1.450 mm

PROGRAMMING

CAM-System (3-D solid-design)

We accept the following data formats:

- PRO/ E (*.PRT)
- STEP (*.STEP, *.STEP)
- SOLID WORKS (*.SLDPRT)
- PARASOLID (*.X_T, *.X_B)
- DXF (*.DXF)
- DWG (*.DWG)
- SOLID EDGE (*.PAR, *.PSM)
- IGES (*.IGS)
- ACIS (*.SAT)
- VDA (*.VDA)

All other formats on request

CNC-MILLING

from 1 mm - 2.600 x 1000 x 950 mm

- 5-axes simultan CNC machining centers with pallet-exchanger
- distances-controlled milling-machines
- conventional milling-machines

GEAR TOOTH FORMING

→ **gear-mill** straight line, tilted and worm-gear spacing, modul 0,3 - 1,5 gear-diameter 5 mm - 120 mm

→ **gear-bump** modul 0,3 - 0,6

→ **thread-mill** from 5 mm - 12 mm gradient 3 mm - 10 mm

ASSEMBLING

Assembling of special modules according to customer specifications

- **Mechanics:** Assembly units or complete systems
- **Electrics:** Electrical (or control) cabinet construction and equipment cabling
- **Software/visualization:** B&R, Siemens, ABB Robotic

OTHERS

1. Special-Tool-Making
2. Fixture Construction
3. Knurl-Shaper, straight line and tilted
4. Ultrasonic-Cleaning
5. Engraving, Round-Engraving
6. Flat-Engraving
7. Glass-Sphere-Ray
8. Matt-Puffing
9. Line-Polishing
10. Polishing
11. Slotting
12. Slot-Broaching (passage)
13. Welding
14. Brazing
15. Tightness test (air pressure 20bar)