Performance overview

Toolmaking

1. Consulting, development, design and production of injection moulds
   - 1.1 CAD construction
     3D CAD system Unigraphics NX 12
   - 1.2 Filling simulation with Simcon Cadmould
   - 1.3 Manufacturing of plastic injection moulds,
     max size 800 x 500 mm
   - 1.4 Manufacturing of individual devices
   - 1.5 Development of plastic prototypes in 3D printing

2. Services and contract work on modern CNC-controlled machine tools for single parts and small batches:
   - 2.1 CNC turning
     max. diameter 200 mm
   - 2.2 5 axis CNC milling
     Working range x y x 700 x 800 x 550 mm
   - 2.3 3 axis CNC milling
     Working range x y x 800 x 500 x 600 mm
   - 2.4 CNC sinking EDM
     Working range x y z 600 x 500 x 400 mm
   - 2.5 CNC wire-cut EDM
     Working range x y z 800 x 600 x 400 mm
   - 2.6 Surface grinding
     Working range x y z 800 x 500 x 450 mm

3. For measuring tasks or for quality assurance, a 3-D coordinate measuring machine is used.

4. Repair and overhaul of injection moulds

Injection moulding

- Machine park consisting of Arburg, DEMAG, Ferromatik Milacron, Zhafir
- Holding force currently 350 kN to max. 2,500 kN
- Injection weight from currently 0.4 g to max.1.000 g (hp)
- Injection moulded thermoplastic parts
- Processing of all common types of plastic except of PVC
- Use of metal substitutes
- Boring tools
- 2-K technology
- Encapsulation of inserts

Other services

- 3-D printing
- Pressing in inserts
- Laser marking
- Screen and tampon print
- Metallization
- Lacquering
- Hot foil stamping
- Ultrasonic welding
- Assembly of structural components
- Assembling
- Post processing