

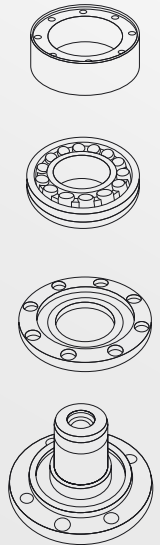
SPECIAL MECHANICAL ENGINEERING

Assemblies as required

Together with our customers we develop a suitable solution from the drawing to the production:

- Manufacturing of individual parts, including surface treatment
- Raw material procurement (common materials and sizes in stock)
- Completion of all components and accessories

We supply you with the complete solution from one source already from quantity one.



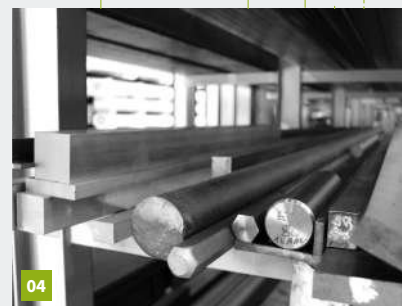
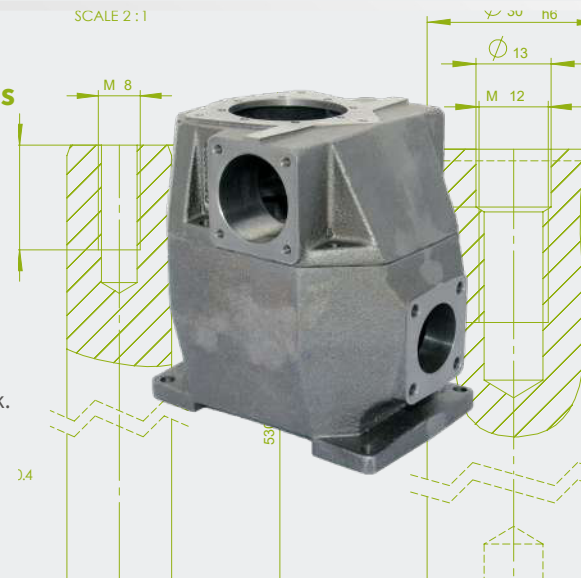
Processing of inductively hardened materials

Our tools are designed for machining both hardened and non-hardened materials.

Small batches from 1-150 pieces

From 1-piece quantity

It is possible to reproduce/manufacture almost every detail according to sample: for example repair parts of machines that are no longer manufactured or special solutions for special machine construction, such as this gear housing made from a blank.



01 Raw materials and manufacturing materials We stock raw materials in all common materials in lengths up to 6,000 mm. It is possible to run parts ranging from 4-100 mm in diameter. **02 High-bay storage** We store almost 17,000 articles in our fully automated high-bay storage. **03 Measuring systems** Height measuring device Thesa Micro-Hite 700, twist free measuring devices, surface roughness measuring device. **04 Special materials** Raw materials in special shapes or materials are often required for individual productions in the field of special machine construction. We maintain a stock of stainless steel, aluminum and titanium.

TURNING / SAWING / MILLING

- General turning and milling work, CNC turning
- Machining of common materials: plastics, light metals and common steel grades
- Follow-up machining of ball screws and shafts
- Machining of induction-hardened surfaces with high precision
- Machining of ball screw spindles according to specification
- Groove grooving

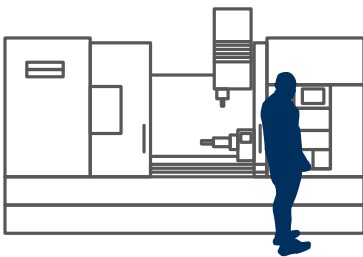
CUSTOMER REQUESTS

- Implementation of ideas from the drawing to the product
- Production according to sample
- New production of spare parts
- No programming costs for identical follow-up orders

SPECIAL SERVICES

- Further services on request (e.g. hardening, surface treatments such as burnishing, anodizing, cylindrical grinding etc.)
- Prototypes and small batches (1-500 pieces)

MASCHINENPARK



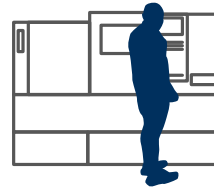
CNC-Machining Centers
MAZAK VTC 300 C-II

X-axis 1,740 mm
Y-axis 760 mm
Z-axis 660 mm
Tool places: 30
Spindle speed 10,000 U/min



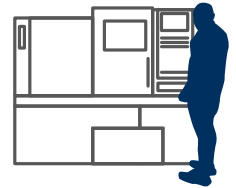
CNC-Machining Centers
MAZAK VTC 200 B-II

X-axis 1,660 mm
Y-axis 510 mm
Z-axis 510 mm
Tool places: 30
Spindle speed 12,000 U/min



CNC-Lathes
MAZAK QT 200 MA X 500

Ø 380 mm
Z-625 mm
Spindle Ø 65 mm
Revolver: 12 tools,
2 of them driven



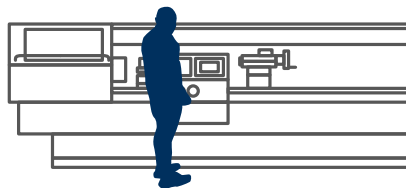
CNC-Lathes
MAZAK QT Smart

Ø 280 mm
Z-280 mm
Spindle Ø 52 mm
Revolver: 12 tools



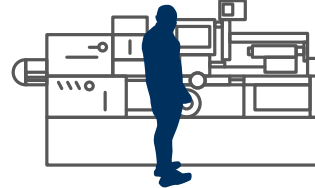
Shaping machine
CABB 200

max. joint length 190 mm
Groove with max. 16 mm



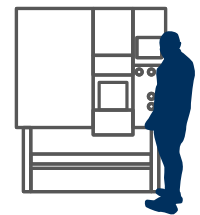
NC lathes
Harrison Alpha

Ø 420 mm
Z-3,000 mm
Spindle Ø 75 mm



Conventional lathe
Böhringer VDF 500

Ø 420 mm
Z-1,800 mm
Spindle Ø 60 mm

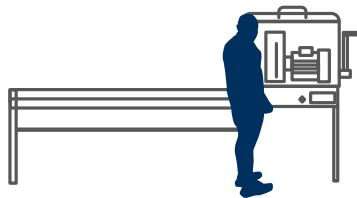


Automatic band saw
Kasto SSB A2

Sawing area Ø 260 mm
Vk 260x260 mm

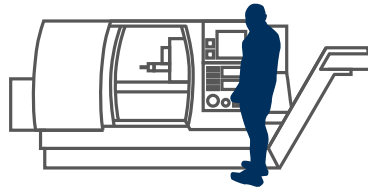
Column drilling machine
Alzmetall AC 32

Shaft Ø 80 mm
Length to 6,000 mm
Drill Ø M16



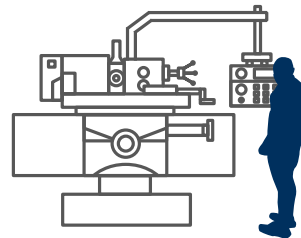
Cut-off machine
Metacut 302

Cutting power kW (S1): 3
Cutting power kW (S3): 4,6
Cut-off wheels Ø 250 or 300



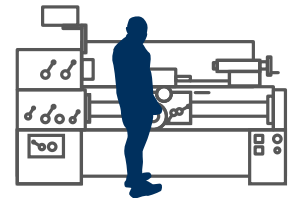
CNC lathe
Gildemeister CTX400

Spindle speed: 20 - 5000 rpm
Spindle bore: 72 mm
Number of tools: 12



CNC universal milling machine
MAHO MH 800P

Axes: 3
Z-500 mm
Speed: 40 - 2000 rpm



LVS lathe
WEILER Condor-VS 1

SH / SW: 155 / 800 mm
Speed: 24 - 2800 rpm
Spindle bore: Ø 38 mm



Wet cylindrical grinding machine
Tyro TSA 410-420-LAB

Grinder Ø 406 mm
Bore: 25,4 mm
Peripheral speed: 30 - 80 m/s



3D printer
Flashforge Guider 2S

Printing accuracy: ±0.2mm
Filament-Ø: 1.75 mm
Printing speed: 30-100 mm/s