

## Machinery Nägele Mechanik GmbH

### Turning

- 4 x CNC-lathe Mazak QT8 / 10** with bar feeding system (3m)  
max. turning-Ø/ bar capacity: 41 mm  
max. speed: 5000 rpm  
turret with 12 tool stations  
max. Turning length according to the material diameter and stability



- 3 x CNC-lathe with jaw chuck Mazak QT8 / 10**  
max. turning-Ø: 250 mm  
max. turning length: 200 mm  
max. speed: 3000 U/min  
turret with 8 tool stations



- 1 x CNC-lathe Mazak Quick-Turn 15**  
max. turning-Ø: 300 mm  
max. turning length: 410 mm mit Reitstock  
max. speed: 4800 U/min  
turret with 8 tool stations  
max. bar capacity: 51,5 mm



- 2 x CNC-lathe Mazak QT Nexus 250M**  
**with jaw chuck**  
driven tools, with tailstock  
max. turning-Ø: 320 mm  
max. bar capacity: 78 mm  
turret with 12 tool stations  
mm between centres: 1000



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- 2 x CNC-lathe Mazak SMART 200 ML**  
driven tools, tailstock  
speed: <5000 rpm  
max. bar capacity: 65 mm  
mm between centres: 1000  
turret with 12 tool stations



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- 3 x CNC-lathe Mazak Quick Turn Nexus 250 MSY**  
turning with 2 spindles (collet chuck / Jaw chuck)  
speed: 4000 / 6000 rpm  
bar capacity: 72 mm  
turret with 12 tool stations  
double driven tools  
bar feeding system (1,5 m bars),



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- 1 x turning-/milling- centre Mazak Integrex 200 III**  
processing from 2 sides possible (2 spindles)  
speed: 5000 rpm  
bar capacity: 65mm  
speed: 12.000 rpm  
bar feeding system (1,5 m bares)  
Additional: Integrated milling spindle



## Milling

- 2 x Mazak VTC 200 B**  
vertical processing  
CNC- rotary indexing table (4 axis)  
max. processing area: 1600 x 500 mm -  
working height: 460 mm  
tool holder: 24



- 3 x Mazak VTC 300 C- II**  
vertical processing  
CNC- rotary indexing table (4 axis)  
max. processing area: 1740 x 760 mm  
working height: 660 mm  
tool holder: 2 x 48  
1 x 30



- 1 x Cincinnati CFV 1300 i**  
3 axis milling  
X: 1300 mm  
Y: 600 mm  
Z: 720 mm



- 1 x Deckel Maho DMU 50 eco**  
5 axis milling (3+2)  
max. processing area: 400x400 mm  
working height: 400mm  
tool holder: 16



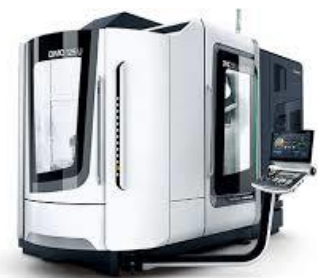
- 1 x MT Cut U102-5A**  
5 axis milling  
X: 1100 mm  
Y: 610 mm  
Z: 700 mm



- 1 x Deckel Maho DMU 80P hi-dyn**  
simultaneous 5 axis milling  
max. processing area: 800x800 mm  
working height: 600mm  
tool holder: 60



- 1 x Deckel Maho DMC 125 U**  
simultaneous 5 axis milling  
processing area 1250x1250 mm  
pallet changing system



## Grinding

- 2 x Estarta 322** - centreless grinding  
grinding diameter: 3 mm - 70 mm  
working length: 10 mm - 700 mm
  - 1 x Estarta 301** - centreless grinding  
grinding diameter: 3 mm - 50 mm  
working length: 5 mm - 125 mm
  - 2 x Ribon Module 1 Aut** - grinding between centres  
grinding diameter: 5mm - 220 mm  
working length: 200 mm - 700 mm
  - 1 x Elb HK-Orion** surface grinding machine  
type: Orion 635 ND  
worktable width: 650x350mm  
max grinding height: 280 mm
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- 1 x Studer S40 CNC**  
centre height 225mm, distance between centres: 1000mm  
sliding headstock  
1x internal grinding spindle, 2x external grinding spindle  
high resolution b-axis  
C-axis for grinding of form and thread  
clamping with magnetic disk or chuck  
displaceable worktable



- 1 x Kehren RI 6/4 CNC**  
external and internal grinding up to Ø 750mm  
work table diameter: 600mm  
3 grinding spindle  
machine weight: 17 t  
clamping with magnetic disk or chuc



## Measuring and test equipment:

- 1 x hardness testing (Brinell and Vickers)
- 1 x profile projector
- 1 x roughness tester
- 1 x 3-D coordinate measuring system **Tesa**,  
Measuring range 300x400 mm
- 1 x 3-D coordinate measuring system **Zeiss WMM 850**  
measuring range 850 x 1200 mm



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## Lettering instruments:

- 1 x laser marking **Baublys BL 3000**
- 1 x needle marker **Markator**