



## PRODUCTION FACILITY

### CNC machining centres: 5 Achses:

	<b>Working dimensions=mm</b>
• Mori Seiki NMV 5000 DCG High-precision 5-achses vertical-machining centre 60 tools, Renishaw-calliper and IKZ (central-internal-cooling)	730 x 510 x 510
• Deckel-Maho 5-achses-maching centre DMU 70 Evolution, linear, 60 tools and IKZ (central-internal-cooling)	750 x 600 x 520
• Deckel-Maho 5-achses-maching centre DMU 70 Evolution, 60 tools and IKZ (central-internal-cooling)	710 x 520 x 520
• Deckel-Maho 5-achses-maching centre DMU 50 V, 24 tools	510 x 380 x 380

### 3 Achses:

• Deckel-Maho DMF-220, linear, 30 tools and IKZ (central-internal-cooling)	2.200 x 550 x 500
• Brother TC-S2A-0 CNC Tapping Center	700 x 400 x 300
• Matsuura MC-760-VX, 30 tools	760 x 440 x 485
• Maho MH-600 C	600 x 450 x 500
• Deckel FP4-NC	550 x 450 x 400
• Brother TC-229	420 x 300 x 200

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## CNC-turning centres:

- Mori Seiki NL 2500 Y /1250, tailstock, Turn-milling centre, driven tools, Y-Achsle (+/- 50mm)  
80 mm rod-admission  
D = 356  
L = 1.298
- Mori Seiki SL 20, tailstock  
D = 250  
L = 500
- Nakamura-Tome WT-250  
Turn-milling centre , opposed spindle and 2 revolver, one with Y-achsle +/- 40 mm  
8 achses , 65 mm rod-admission, machinable short-rod-loading (1 m )  
D = 220  
L = 600
- Nakamura-Tome WT-150  
Turn-milling centre opposed spindle and 2 revolver, one with Y-achsle +/- 35 mm  
8 achses, 51 mm rod-admission, machinable rod-loading (3 m)  
D = 190  
L = 400
- Nakamura-Tome WT-150  
Turn-milling centre opposed spindle and 2 revolver, one with Y-achsle +/- 35 mm  
8 achses, 51 mm rod-admission, machinable rod-loading spec. for profile and round rods (3 m)  
D = 190  
L = 400
- Nakamura-Tome TMC-20  
D = 250  
L = 300
- Gildemeister CTX 320-V4, tailstock, driven tools  
Y-Achse +/- 40mm  
machinable short-rod-loading (1 m )  
D = 260  
L = 400



**Conventional milling machines:**

- Thiel TH 140 300 x 350 x 200
- Hermle UWF-700 350 x 250 x 100
- Deckel FP-3 500 x 300 x 300

**Conventional turning machines:**

- Weiler Matador 500 mm
- Famot 1.000 mm
- VDF/Heidenreich & Harbeck 1.000 mm

**Eroding machine:**

- Drahterodieranlage(Wire-eroding-machine) Working dimensions: 500 x 300  
„MATRA Tape Cut W2 Cut/Height = 250

**Drillingmachines:**

- Säulenbohrmaschine (stand) D = 30
- Tischbohrmaschine (table) D = 15
- Reihenbohrmaschine 6-fach (ranks) D = 15
- Gewindebohrmaschine(thread) D = 24

**Broaching machine:**

- Räummaschine L = up to 1.200

**Sawing machines:**

- Behringer Bandsägeautomat HBP 263 A (band-saw)
- Eisele Kreissäge (circular)
- Flott Tischkreissäge (table, circular)



**Grinding machines:**

- Blohm Flächenschleifmaschine (surface) 500 x 300 x 250
- Castens Rundschleifmaschine (circular) L = 350  
D = 150
- Trowaliermaschine (vibratory)

**Glass bead blasting machine**

**Presses:**

- Exzenterpresse (eccentric) 25 Tons
- Pneumatische (pneumatic) Kniehebelpresse 6 Tons

**Lettering instrument:**

- Wolf Signiergerät, Leibinger Jet 2 SE auf Lackbasis  
Wolf Signiertinte, colour: white (changeable to other colours)

**Measuring instruments/machines:**

- CNC-Koordinaten-Messgerät mit Auswerterechner  
Fabrikat Carl Zeiss Typ CONTURA G 2  
program Calypso 4.2 (CNC-3D)
- CNC-Koordinaten-Messgerät mit Auswerterechner  
Fabrikat Carl Zeiss Typ C 700 (CNC-3D)
- Mitutoyo - Surface roughness test set "Surftest"
- Mitutoyo - profile-projector; screen D = 600
- Tesa Micro-Hite µP controlled vertical length measurement equipment

**Cleaning machine:**

- Dürr Ecoclean Typ: 81 W  
Universal 81W  
(waterbased cleaner)