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## **MACHINE FLEET**

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## Milling

- 1 Console milling machine, UNION, KF 5.2  
Working range 330 x 970
- 1 Console milling machine, Reckermann, KOMBI 1300  
Working range 1200 x 500
- 1 Universal milling machine, Deckel, FP 4 A  
Working range 580 x 900 x 480  
3D continuous path control Dialog 11
- 1 High-speed machining centre, Deckel-Maho, type DMC-70V, working range 700 x 550  
30x tool changer, 3D continuous path control Dialog 112
- 1 CNC universal milling machine, Hermle, type U630T, working range 630 x 500, 16x  
tool changer, control TNC 426
- 2 High-speed machining centres, Deckel-Maho, type DMC-100V hi-dyn, working range  
1000 x 800  
30x tool changer, 3D continuous path control iTNC 530
- 2 5-axis milling machine, Deckel-Maho, type DMU-100T, working range 1070 x 710 x  
710, max. tool size with 5-axis machining:  $\varnothing$  630 x 400 high, 30x tool changer, 5-axis  
continuous path control iTNC 530
- 1 5-axis high-speed machining centre, Deckel-Maho, type DMC 105 V linear, working  
range 1050 x 800 x 560, max. tool size with 5-axis simultaneous machining:  $\varnothing$  850 x  
500, all axes with linear drives, axis acceleration 2g, 30x tool changer, continuous path  
control iTNC530
- 1 Machining centre, Hedijs, type C60 Magnum, working range 2500 x 600, 56x tool  
changer, CNC continuous path control iTNC 530, shuttle table machining
- 1 Machining cell consisting of a 5-axis machining centre Hermle C42 U, working range  
800 x 800 x 550, 232x tool changer, CNC controller iTNC 640 and robot cell RS2, 60  
pallet spaces, load-bearing capacity 250 kg

### **Lathes:**

- 1 CNC cycle controlled lathe, centre height 200, turning length 950, Weiler, type E35, control Sinumerik 810 D
- 1 CNC lathe, Gildemeister, type CTX 410, max. tool size  $\varnothing$  400 x 550, powered tools
- 1 Centre lathe, centre height 160, turning length 650, Weiler Praktikant VC
- 1 CNC cycle controlled lathe, centre height 650, turning length 1500, DMT-Kern CD650, controller: Heidenhain MANUAL Plus 620 12x revolver, Weiler
- 1 CNC lathe Gildemeister CTX 800 Beta, max. tool size  $\varnothing$ 400 x 500, powered tools and Y axis

### **Eroding Machines:**

- 1 Die-sinking EDM, Charmilles, ROBOFORM 200  
Working range 220 x 320, generator power 64 A electrode changer, 4-axis continuous path control
- 1 Die-sinking EDM, Mitsubishi, EA 28V  
Working range 650 x 450, work basin 1010 x 750 x 350  
Generator power 128 A, electrode changer, 4-axis continuous path control
- 1 High-precision wire EDM, Charmilles, ROBOFIL 4020  
Working range 420 x 315, repeat accuracy  $\pm 1.7 \mu\text{m}$   
Reachable surface Ra 0.15
- 1 Wire EDM, AGIE, type Challenge 3, working range 500 x 350
- 1 Wire EDM, Charmilles, type Robofil 690, working range 800 x 600, max tool size 1300 x 1000 x 400, max. tool weight: 2000 kg
- 1 Wire EDM, AGIE, type Challenge V3, working range 500 x 350
- 1 Wire EDM, AGIE, type Progress 4, working range 800 x 550, tool height 550, tool weight 3000 kg
- 1 Start hole drilling system, AGIE, type Drill 11, electrode diameter 0.5 – 3mm, machining depth up to 200 mm  
X, Y, Z traverse paths 300 x 200 x 300 mm, tool weight: 300 kg

### **Grinding Machines:**

- 1 Universal cylindrical grinder, Kellenberger, URF 320, centre height 320, grinding length 800
- 1 Universal cylindrical grinder, Kellenberger, U1000/175, centre height 175, grinding length 1000  
Machine with special precision: Runout <0.0002 mm
- 1 CNC surface grinder, G+H, type FS 1260 GT-SL  
Working range 1200 x 600, grinding height 700  
Siemens CNC controller, creep feed grinding system
- 2 Surface grinder, JUNG, JF 520 E  
Working range 200 x 600
- 1 CNC surface and profile grinder, G+H, type FS 635 Z CNC  
Working range 600 x 350, 3D continuous path control Siemens 840 D creep feed grinding system
- 1 CNC surface grinder, G+H, type FS 650 GT-SL  
Working range 600 x 500, grinding height 470  
Siemens CNC controller, creep feed grinding system

### **Water Jet Cutting:**

- 1 Water jet cutting machine, OMAX, model 55100, working range 3200 x 1650 mm, X, Y, Z traverse paths 2500 x 1395 x 200 mm, tool weight: 1200 kg/m<sup>2</sup>

### **Other Machines:**

- 1 Laser labelling machine, Electrox Scorpion Rapide2
- 1 Band saw, Meba Eco 410, working range 450 x 710
- 1 Band saw, Behringer, working range 330 x 500
- 1 Honing machine, Sunnen, MBB 1690 G
- 1 Rapid radial drilling machine, HKS 40 F
- 1 Rapid radial drilling machine, Gillardon GSR 32,
- 1 Plate shear, H & M, cutting power 2000 x 3

### **Presses:**

- 1 Hydraulic synchronous try-out press, Ageo, type GHP125, pressing force: 125 tons, table size 1000 x 700, stroke 500, die cushion
- 1 Hydraulic drawing press, Dunkes, type HZ 63, pressing force 63 tons, table size 620 x 520, stroke 400, die cushion
- 1 Hydraulic frame press, Dunkes, type HD 400  
Pressing force 400 tons, table size 2100 x 1000 resp. 2500 x 700, stroke 600, cutting impact dampening, parallel support  
Band unit: Band width 50 – 530, band thickness 1 – 6, max. coil weight 5 tons
- 1 Hydraulic try-out press, Schuler-Hydrap, type SH1500, pressing force 1500 tons, table size 5500 x 2000, stroke 1100  
Parallel control, simulation option for mechanical presses  
Band unit: Band width 150 – 1300, band thickness 0.75 – 6, coil weight 16 tons, retrofitted with transfer unit in 2012

### **Measuring Equipment:**

- 2 1-axis measuring instrument, TESA, MICRO-HITE 600
- 1 Measuring and pre-setting surface, EROWA, with measuring microscope
- 1 3D measuring machine, ZEISS, type Eclipse 2840-18, measuring range 1000 x 700 x 500, CNC controller  
3D measuring software HOLOS, U-Soft-Ultra
- 1 3D measuring machine, make: Zeiss Contura G2, measuring range 2100 x 1000 x 600, CNC controller, 5-axis head with measuring sensor system, 3D measuring software HOLOS, U-Soft-Ultra
- 1 Optical 3D scanning  
COMET L3D D 5M by Steinbichler Optotechnik, 3D digitiser with compact and efficient 3D sensor and BLUE LED illumination technology for efficient 3D data recording
- 1 Universal measuring instrument FARO GAGE PLUS

### **CAD/CAM Systems:**

- 1 Deep-draw simulation workplace Pam Stamp 2G
- 2 3D CAD workplaces Siemens NX
- 14 3D CAD workplaces CATIA V5
- 1 3D CAD workplace Pro/ENGINEER, version Wildfire 2.0
- 10 2D CAD workplaces HP ME10
- 2 2D CAM workplaces Mecasoft MECANIC
- 3 3D CAM workplaces Work NC

### **Data Interfaces:**

IGES 2D und 3D  
DXF 2D  
VDAFS 3D  
STEP

### **Data Transmission:**

ODETTE protocol  
FTP server