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all production areas with crane systems between 5 t and 16 t

milling

- **FPT moving-column milling machine**
CNC 5 axis
movement range: X8000, Y1500, Z2500
- **Soraluce TR**
CNC 5 axis
movement range: X4500, Y1300, Z1600
- **Parpas Bettfräsmaschine**
CNC 6 axis (rotatable table)
movement range: X2500, Y2000, Z1500
- **2x DMU 200**
CNC 5 axis MC
movement range: X1800, Y2000, Z1100
- **Reiden BRF-22**
CNC 5 axis MC
movement range: X2000, Y1200, Z1500
- **2x DMU 80 P hi-dyn / DMU 80 P**
CNC 5 axis MC
Verfahrweg: X800, Y750, Z700
- **DMU 60 evo with pallet changer**
movement range: X600, Y500, Z500
- **Hedelius RS60**
5 axis MC with pendulum mode
movement range: X775, Y600, Z540
- **DMF 260**
3 axis machining center
movement range: X2600, Y700, Z700
- **DMC 64 V**
3 axis machining center
movement range: X640, Y600, Z500
- **5x 3 axis milling machine**
movement range up to X1000, Y600, Z500

turning

- **Gildemeister CTX 620**
chuck work up to \varnothing 600
max. 2000 mm length
- **CTX beta 1250**
chuck work up to \varnothing 410
max. 1300 mm length
- **Mazak Integrex**
turning and milling operation up to \varnothing 200
Bar loader up to \varnothing 65
- **CTX 310/210**
chuck work up to \varnothing 210 mm
bar diameter 52 mm
- **Dörries vertical turret lathe**
maximum turning diameter 1650 mm
max. 1500 mm length
- **VDF 630 DUS**
maximum turning diameter 640mm
max. 20000 mm length

starthole eroding

- **Charmilles Drill 300**
diameter 0,1 bis 6 mm
depth movment up to 350 mm

wire eroding

- **6x Charmilles Robofil**
movement range: max. X550, Y400, Z400
- **4x Mitsubishi FA10/FA20/FX20**
movement range: X500, Y350, Z300

sink eroding

- **2x Charmilles Roboform**
Tank size 1000*700*500
electrode changer with 40 electrodes

welding

areas: steel, stainless steel, aluminium
MAG and WIG
constructor's qualification for welding DIN EN 1090
extra testing if required

- **welding robot Motoman**
part size 3000x1600
- **welding robot Cloos**
part size 2800 x 1400
- **straightening press 160 t**

messuring

- **Wenzel LH1210**
X1200, Y2000, Z1000
- **Wenzel LH108 Revo**
X1000, Y2000, Z800
- **Wenzel LH65/Wenzel LH87**
X600, Y800, Z500
Gear measurement
- **Faro Quantum**
Work area diameter 2400 mm
- **messuring microscopes**

testing

- **hardness testing**
- **Visual Testing Level 2 (VT2) DIN EN 473**
- **Magnetic Particle Testing Level 2 (PT2) DIN EN 4179 and NAS 410**

laser marking

- **Trumpf marking laser**
120mm x 120mm

surface processing

- **Lapping machine**
- **3x vibratory grinding machine**

