

Plant & machinery

Dated July 2009

Our mechanical production for a wide range of parts

Vertical turret lathe-milling machine with driven tool

1 No. with face plate Ø 6 000 mm max. workpiece weight 150 t, max. machining diameter 8 500 mm, max. machining height 6 000 mm

CNC machining centre

1 No. with rotary table 2 500 x 2 500 mm Load capacity 50 t, Spindle Ø 150 mm X= 4 000 mm Y=3 000 mm Z=1 000 mm W=1 500 mm

CNC floor-plate-type horizontal boring mills

1 No. with rotary table 2 500 x 2 500 mm Load capacity 20 t, Spindle Ø 205 mm X=10 000 mm Y=2 500 mm Z=1 250 mm W=500 mm

1 No. with 450 x 450 mm carrying sleeve Spindle Ø 160 mm X= 8 000 mm Y=4 000 mm Z=1 600 mm

1 No. with 520 x 520 mm carrying sleeve Spindle Ø 200 mm X= 8 000 mm Y=5 000 mm Z=2 000 mm

1 No. with 520 x 520 mm carrying sleeve Spindle Ø 200 mm X=12 500 mm Y=5 000 mm Z=2 000 mm

1 No. with 520 x 520 mm carrying sleeve Spindle Ø 200 mm X=10 500 mm Y=5 800 mm Z=2 000 mm

1 No. with 520 x 520 mm carrying sleeve Spindle Ø 200 mm X= 8 000 mm Y=4 150 mm Z=2 000 mm

- with NC rotary table 6 000 x 4 000 mm Load capacity 120 t

1 No. with 520 x 520 mm carrying sleeve Spindle Ø 200 mm X=20 500 mm Y=5 800 mm Z=3 000 mm

- with NC rotary table 6 000 x 4 000 mm Load capacity 120 t

Gantry milling machines

1 No. 100 kW Drive power Quills Ø 500 mm X=12 000 mm Y=4 000 mm Z=3 700 mm

1 No. 110 kW Drive power Quills Ø 420 mm X=18 000 mm Y=5 340 mm Z=5 000 mm

Miscellaneous

Erosion drill mobile with 7 kVA up to Ø 46 mm

Radial drill Radial arm up to 2 500 mm Overall height 2 000 mm, up to Ø 70 mm

Fixed table 2 100 x 8 000 mm

Radial drill, traverse distance 8 000 mm Radial arm up to 2 500 mm Overall height 2 000 mm, up to Ø 70 mm

Fixed table 4 000 x 5 200 mm

Mobile radial drill Radial arm up to 980 mm Overall height 1 950 mm, up to Ø 70 mm

Engineering office

CAD systems AutoCAD, Megacad Operating system: MS Windows XP

CAD programming system Exapt Operating system: MS Windows XP

CAD plotter A0+ colour

Laser printer A4 / A3 / A0, colour laser printers A4 / A3

Communication File formats: DWG, DXF, PLT, PDF E-Mail, FTP server on request

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Well equipped, even in welding operation for welded joints according to DIN EN 729-2, »Major welding qualification certificate« according to DIN 18800 Part 7 and »welding qualification for welding rail vehicles and vehicle parts« to DIN 6700-2

Welders

Diverse microprocessor-controlled impulse welding power sources up to 550 A / 44.5 V with welding parameter documentation

1 No. gantry 2 power sources, 600 A 30 m x 4.5 m x 3 m

1 No. Rotating, tilting table, tilt angle 48/35° Table load 60 t with UP system Face plates Ø 6 000 mm

4 No. Rotating, tilting table, tilt angle 90° Table load 1 t / 3 t / 5 t / 7 t Face plates Ø 1 000 mm up to 1 500 mm

1 No. Rotating, tilting table, tilt angle 90° Table load 30 t Face plates Ø 3 000 mm

1 No. Rotating, tilting table, tilt angle 90° Table load 150 t vertical 100 t horizontal Face plates Ø 3 600 mm up to 6 500 mm

UP systems

1 No. orbital system Orbital tractor for welding in bearing rings.

2 No. CNC two wire narrow gap tractor Welding current 1 000 A Wire Ø 1.6 - 5 mm

1 No. NC rotating welding arm Welding current 1 100 A Vertical stroke 4 500, horizontal 4 000 mm

1 No. NC rotating welding arm Welding current 1 000 A Vertical stroke 2 000, horizontal 2 000 mm

CNC flame cutting machine

1 No. with chamfer burning equipment with 2 integrated 3-burner units 5 000 x 8 000 mm, Sheet steel thickness max. 200 mm

1 No. with chamfer burning equipment with 2 integrated 3-burner units 8 000 x 20 000 mm, Sheet steel thickness max. 300 mm

1 No. with chamfer burning equipment with 2 integrated 2-burner units 2 000 x 4 000 mm, Sheet steel thickness max. 200 mm

1 No. chamfer burner with 1 integrated 2-burner unit 1 400 x 1 100 mm

Heat treatment with annealing furnace

Temperature up to 640 °C 20 300 x 7 500 x 5 000 mm

Sandblasting plant 18 000 x 7 500 x 7 500 mm

Painting plant 18 000 x 7 500 x 7 500 mm

Cranes

1 No. up to max. 9 300 mm hook height 2 crane trolleys 180 t / 50 t

4 No. up to max. 8 130 mm Hook height two each synchronously controllable 70 t / 20 t (Gesamtlast: 140 t pro Kranpaar)

1 No. up to max. 7 320 mm Hook height with magnetic system 10 t

2 No. up to max. 3 670 mm Hook height Magnetic system @ 16 t, synchronously controllable, 32 t total load

Load turner

1 No. Rotomax Load capacity 50 t

Miscellaneous

Folding/edging press up to 3 000 mm x 10 mm, 160 t

Jar up to 3 000 mm x 16 mm

Cold circular saw up to Ø 130 mm

Pipe bender, hydraulic with Ø 250 mm saw blade from Ø 6-42 x 4 mm, bending angle up to 180°

3 roller sheet metal bending roll up to 3 600 mm x 35 mm

Single column press, hydraulic 200 t pressing force Table /Clamping/chucking area 1 500 mm x 700 mm

Installation of complete machines, plant and systems