

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

Note: Welding operation data: Please turn over!

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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
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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		

Note: mechanical production: Please turn over!