

MACHINERY

MOL

LASER CUTTING MACHINES

1 CNC LASER TRUMPFL6050

- Automatic pallet changer
- Maximum thickness (steel) : 25 mm
- Maximum thickness (inox) : 20 mm
- Maximum thickness (aluminium) : 15 mm
- Accuracy : $\pm 0,2$ mm
- Laser capacity : 6000 W
- Maximum dimensions : 6000 x 2000 mm
- Fullautomatic storage for plates STOPA FLEX, with 34 drawers; max load 3000kg / drawer, dimension 3000 x 1500

1 CNC LASER TRUMPF TRULASER 3030

- Automatic pallet changer
- Maximum thickness
 - a) steel : 20 mm
 - b) stainless steel : 20 mm
 - c) aluminium : 15 mm
- Accuracy : $\pm 0,2$ mm
- Laser capacity : 6000 W
- Maximum dimensions : 3000 x 1500 mm
- Fullautomatic storage for plates STOPA FLEX, with 34 drawers; max load 3000kg / drawer, dimension 3000 x 1500

CUTTING TABLE (CNC)

1 CUTTING TABLE CNC SAFX TOME 60

- Number of jaws	:	6
- Maximum dimensions	:	5800 x 20000
- Maximum thickness	:	150 mm

1 CUTTING TABLE CNC MESSER GRIESHEIM

- Number of jaws	:	4
- Maximum dimensions	:	5000 x 8000
- Maximum thickness	:	150 mm
- Equipped with 2 chamfering jaws		

BENDING MACHINES (CNC)

2 BENDING MACHINES CNC LVD PPNMZ600/60

- Maximum capacity	:	600 tons
- Maximum length	:	6000 mm
- Possibility of tandem coupling - total length	:	12000 mm

1 BENDING MACHINE LVD PPEB 320/30 CAD CNC

- Maximum capacity	:	320 tons
- Maximum length	:	3000 mm

1 BENDING MACHINE CNC LVD PPEB/EFL 100/3050

- Maximum capacity	:	110 tons
- Maximum length	:	3050 mm
- Easy form measuring system		

SAWING MACHINES (CNC)**1 SAWINGMACHINE WITH DRILL KALTENBACH**

- Drill diameter : 8 – 50 mm
- Revolutions : 225 – 900 rev/min
- Saw capacity : round dia. 440 mm
square 400 mm
rectangular 800 x 290 mm
profile 1000 x 300 mm

CHAMFER**1 CHAMFERING MACHINE BERTHIEZ**

- Dimensions of work space : Y 1800 mm
X 6000 mm
- Displacements : Y 2100 mm
X 5500 mm
Z 1400 mm

WELDING

1 WELDING ROBOT CLOOS QRC-E-410

- Displacement along X-axis : 20000 mm
- 10-Axles welding robot with seam detection, follow-up facility, tandem equipped
- Maximum diameter : ca. 4700 mm
- Maximum height : ca. 5100 mm
- Welding machine capacity : 600 A
- Movable positioning tables (20 ton and 6 ton)

1 WELDING ROBOT CLOOS ROMAT 310 (tandem)

- Displacement along X-axis : 5000 mm
- 9-Axles welding robot with seam detection, follow-up facility, tandem equipped
- Maximum diameter : ca. 3600 mm
- Maximum height : ca. 2600 mm
- Welding machine capacity : 2 x 500 A
- Movable positioning tables (programmable)

1 WELDING ROBOT (CELL) CLOOS 320

- Type Z6
- Welding machine capacity : 500 A
- 9-Axles programmable welding robot with seam detection and follow-up facility
- Movable positioning tables (programmable)

WELDING ROBOT CLOOS 410

- Displacement along X-axis : 10000 mm
- 7-Axles welding robot with seam detection and follow-up facility
- Maximum diameter : ca. 3600 mm
- Maximum height : ca. 2600 mm
- Welding machine capacity : 500 A
- Movable positioning tables

WELDING ROBOT CLOOS QIROX QRC 320

- Displacement along X-axis : 16000 mm
- 9-Axles welding robot with seam detection, follow-up facility, tandem equipped
- Maximum diameter : ca. 6000 mm
- Maximum height : ca. 4000 mm
- Welding machine capacity : 2 x 500 A
- Movable positioning tables (programmable)

HEAVY DUTY PRESSES**1 DOUBLE EFFECT DEEP DRAWING HYDRAULIC PRESS**

- Capacity : 750 tons
- Free Height : 1500 mm
- Workspace : 1920 x 1500

MEASURING EQUIPMENT

1 3D MEASURING MACHINE MORA 3 TYPE 0199

X 3300 mm
Y 1385 mm
Z 1600 mm

CUTTING

4 PLATE SHEARS LVD

- Capacity : sheet metal 12 mm in mild steel : max. 6000 mm
- Capacity : sheet metal 20 mm in mild steel : max. 3000 mm
- Larger cutting lengths possible

1 PLATE SHEAR HACO TS3012

- Maximum length of the cutter : 3000 mm
- Cutting capacity : 12 mm

SURFACE TREATMENT - FINISHING

SHOT BLASTING

- Shot blasting of plates and profiles : max. width 2,5 m
- Possibility of automatic corrosion-treatment with weldingprimer or other primer

PAINTING LINE

- Maximum dimensions : 3000 x 1700 x 1000 mm
- Maximum load/carriage : 400 kg
- 2 work spaces
 - a) Pre-treatment zone (degreasing, fosfating, rinsing, drying)
 - b) Spray paint zone (different possibilities)
- Dryingzone till $\pm 140^{\circ}\text{C}$ possible after every zone, depending on demands

SPRAYING BOOTHS WITH DRYING OVEN TILL 80°C

- 4 cabins - dimensions : 18 x 6 x 5 m (L-W-H)
- 2 cabins - dimensions : 10 x 5 x 5 m (L-W-H)
- Synthetic - 2 components

ABT

WELDING

- Various semi-automatic welding machines, with full of filled thread
- Various movable positioning tables

RECTIFYING

- Press to rectify welded pieces

DIVERS

- Appropriate transport
- Different welding constructions
- Parts for railroute equipment