

PRODUCTION RANGE

MABO The power of quality



State-of-the-art machinery

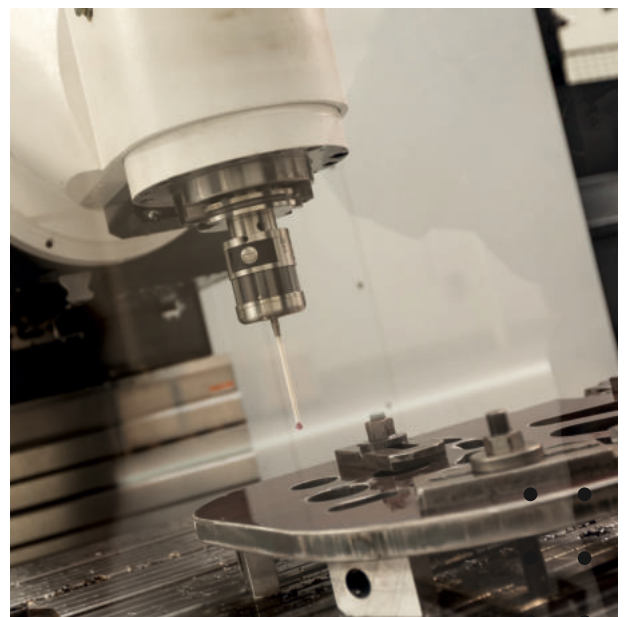
We currently have production halls with a total area of more than 50,500 m² and 6 departments, where we are able to carry out orders comprehensively and to the highest quality, including packaging, transport organisation and dispatch, according to customer requirements.

The production and technical facilities primarily consist of a modern and well-developed machine park and a qualified team. On the other hand, an important part of our business is the production of steel components in small, medium and large production runs - from a few dozen pieces to several thousand series products. We specialise in the manufacture of components whose production consists of laser cutting, bending, welding and corrosion protection processes.

Comprehensive production

In our work we use, among other things:

- Professional CNC machines (machine tools, cutting machines, bending machines)
- Professional welding stations
- CNC controlled hydraulic press brake
- Modern laser cutting machine (2D, 3D laser)
- Fully automatic powder coating line
- Hot dip galvanizing line
- Professional machining machines



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2D laser cutting

We perform our laser cutting service on Trumpf machines, which have an international reputation. They are characterised by high productivity and quality of the cut edge, enabling 100% accuracy in the case of reproducibility of cut parts to meet the EN ISO 9013 standard.

Oxygen cutting for so-called "black" sheets with a carbon content of up to 0.25% is carried out using an Eckert Jantar II machine, which provides:

- working area 6000mm x 3000mm
- large cutting material thickness range up to 100 mm
- ability to cut with 2 torches simultaneously

TRUMPF TruLaser 3060 L81 Fiber 6000W Cutting Machine

- working area 6000mm x 2500mm
- 25mm structural steel
- stainless steel 25mm
- aluminium alloys 25
- miedź 10mm

Cutting machine TRUMPF Tru Laser 3040 Co2

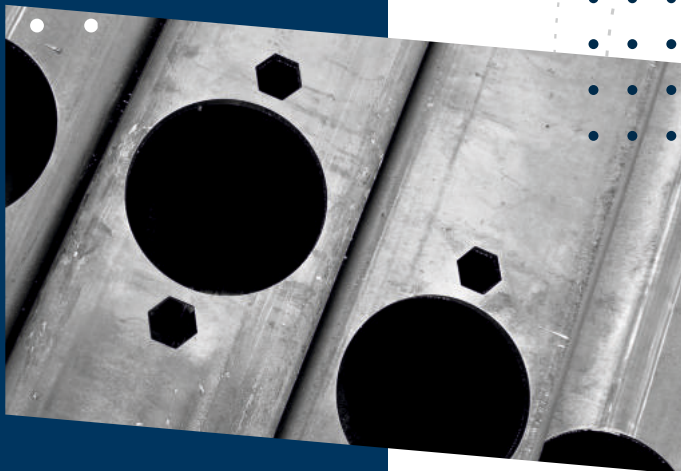
- working area 4000mm x 2000mm
- 20 mm structural steel
- 15 mm stainless steel
- 10 mm aluminium alloys
- 10 mm stopy aluminium





3D laser cutting

We carry out professional laser cutting of tubes, hollow sections, channels and angles. Our machine cuts in stainless steel and carbon steel. For this purpose, we use a 3D laser from MAZAK, whose cutting head operates in five axes, which allows 100% cutting of even very complex shapes and gives us the ability to process tubes and profiles with high accuracy and precision. This maintains the guarantee of smooth edges and a clean surface without scratches or chipping. The unit is also equipped with a touch probe to measure the workpiece, giving very precise shapes and dimensions.



Laser - Mazak 3D Fabri GEAR150

Material length - 8000 mm

Max. material weight - 42 kg/m.

Material dimensions: pipe from Fi 20 to Fi 150, profile 150x150

CNC edge machine - Bending

We have 6 press brakes with press forces from 600kN to 5000kN and machine working lengths from 800mm to 5000mm.

Our latest acquisition is the edgebandera **LVDPEB-5 400/40**

- thrust force - 4000kN

- working length of the bend - 4000mm

- working height - 970mm

- working speed - 11mm/s

- the thickness of bent plates depends on the length of the component and the type of die.



Machining

We provide professional metal machining services on CNC as well as conventional machines.

We process metal components, both in unit and series production, from our own or supplied material.

Turning is one of the most well-known and widespread methods of mechanical machining, i.e. machining. They are mainly used to obtain cylindrical, conical or spherical surfaces..

Our lathes:

DMG MORI ECOLINE ecoTurn 510

DMG MORI CLX 450

Milling is used to machine flat and shaped surfaces. This type of machining is used for: machine and equipment parts, complex-shaped workpieces, tooling, jigs, automotive parts.

Our milling machines:

DMG MORI ECOLINE ecoMill

NICOLAS CORREAXPERTA 35

You will also find a CNC gantry milling machine here **MULTINORMA Gantry type milling machine** for large-scale machining.

Technical capabilities:

X-axis travel:	9940 millimeters
Y-axis travel:	3180 millimeters
Z-axis passage:	1050 millimeters
Work table dimensions:	9.000x2.800 mm

