



# CATALOGUE OF PRODUCTION POSSIBILITIES

## About us

MAPALU has been on the market since 2013. We deal with comprehensive production of structures made of steel and other raw materials - we design, manufacture, paint. We make interior fittings, balustrades, fences, gates, heavy steel structures for industry, civil engineering, shipbuilding construction and many others. We work with individual clients and companies. During this time, we have made many interesting, unconventional projects in cooperation with various design offices. We value an individual approach to each client and the implementation of tasks with the highest quality. We are able to provide a high standard of our services thanks to the professional staff and the highest quality of our equipment.

The history of our company has been associated with the shipbuilding industry from the very beginning. In 2018, we introduced a Research and Development department in our company. Intensive work of experienced engineers in this department resulted in two innovative patent applications on an international scale. We are starting the implementation of these patents in cooperation with the Gdańsk University of Technology, Polish shipyards and design offices on the Gdansk coast.

Our company has modern production facilities. We have CNC machines and a Fiber laser.



## FIBER LASER CUTTING

Fiber Laser CNC Baykal fiber BLE-PRO 1530

We offer laser cutting services in fiber technology. We have a laser with a working area 3000 x 1500 mm. The use of our machine allows you to reduce production costs and ensure the highest quality final effect. The techniques and cutting technology we use allows you to avoid additional edge processing, thanks to which the production process is faster and does not generate additional costs.

Maximum cutting range: 3000 x 1500 mm

- Black Steel: up to 20 mm
- Stainless Steel: up to 12 mm
- Aluminum: up to 12 mm
- Copper, Brass: up to 6mm



## CNC SHEET BENDING

Sheet bending press CNC Baykal APHS

We offer sheet bending services CNC. We have a numerically controlled sheet bending press with a maximum length angle measuring system 3100 mm and pressure 150 tons. Thanks to the use of advanced control systems in our machines, we obtain high accuracy and repeatability of the bends made and maintaining a constant angle along the entire length of the bend.

Maximum bending range: 3100 mm and pressure 150 tons

The thickness of the bent element depends on the thickness of the sheet



## CNC MILLING

CNC Milling Machine Doosan DNM 4500

We offer numerical machining. We perform work related to CNC milling with the use of modern equipment and the experienced of the crew. Thanks to advanced machines and the knowledge of operators, we ensure precision, speed of processing and repeatability of details.

Maximum dimension of the workpiece: 800 x 450 x 510 mm (X/Y/Z)



## CNC TURNING

CNC Turning Machine Doosan PUMA GT2100

We offer numerical machining. We perform work related to CNC turning with the use of modern equipment and the experienced of the crew. Thanks to advanced machines and the knowledge of operators, we ensure precision, speed of processing and repeatability of details.

Maximum dimension of the workpiece: 360 x 550 mm (diameter / length)



## CNC BAND SAW CUTTING

CNC Band saw cutting machine Pegas 360 x 500 A-CNC-R

We offer cutting with a numerically controlled band saw. The working range of the device that we use for cutting allows for cutting elements with a maximum height of 340 mm and a width of 500 mm.

Maximum dimensions of the workpiece: 340 x 500 mm (height / width)



## POWDER PAINTING

Our factory is equipped with a professional powder paint shop. We paint various elements made of aluminum, steel, as well as cast iron or galvanized materials. A wide range of painted elements, high qualifications of our employees, as well as equipping the paint shop with the most modern equipment are our undoubted advantages. Thanks to this, we can undertake the implementation of even the most complex orders, as well as offer you painting of various elements, made of a wide range of materials. We make professional coatings using the best epoxy, polyester epoxy, polyester, polyurethane and silicone paints. We paint elements with the maximum dimensions of 1m x 1.8m x 2.9m.

Maximum dimensions of the painted element: 1000 x 1800 x 2900 mm





## BLASTING

Another service that is available from us is the element shot blasting service. Such an operation allows to obtain a surface much better prepared for painting than traditional grinding. For cleaning, we use sharp-edged steel shot, which does not damage the surface, ensures very good adhesion of the paint coating and thoroughly removes layers of old paint.

Maximum dimensions of the painted element: 1000 x 1800 x 2900 mm



## WELDING OF COMPONENTS

We also provide welding services in the field of welding such materials as: carbon steel, stainless steel, aluminum.

We use equipment for welding with MIG / MAG and TIG methods. Our staff is experienced and has appropriate qualifications, thanks to which you will receive elements of the highest quality.

The scope of our projects is very wide. We will make for you not only simple steel structures, but also structures with much more complex shapes, which must be of the highest quality.

Maximum weight of one element 2 tons.

### We weld materials::

- carbon steel
- stainless steel
- aluminum

### We weld using methods:

- MIG/MAG
- TIG



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