Globmetal

10th anniversary of Globmetal

# Breathing life into the steel...

# About us

**We offer a wide range of metalworking services. Our priority is the highest quality of the product but above all, full Customer satisfaction.**

In order to achieve this, you need both, many years of experience in the field of metalworking as well as ambition and the desire to develop. We will take on any challenge in the area of metalworking. Systematically increased qualifications of the employees and our experience, combined with a cutting edge and developed machinery, guarantee the highest quality of our services, and allow us to execute even the most complex orders.

The dynamic and flexibility in action make us stand out from the competition. We use every experience gained to the satisfaction of our Customers.
Laser cutting, bending, welding and machining are our passion.

**PN-EN ISO 9001:2015**

The high level of our services and business ethics is confirmed by permanent cooperation with international companies in the metal industry, which has been proven by the ISO 9001 certificate. After numerous audits and inspections of certification bodies, in March 2015 we managed to obtain this certificate.

# Scope of services:

Laser cutting

Bending

Turning

Milling

Cutting with a band saw

Welding

Locksmith services

Quality department

Design

Cooperation

# Laser cutting

The laser cutting service is performed with the use of the internationally renowned Trumpf machines. They are characterised by high productivity and quality of the edge, they enable accuracy of up to 0.05 mm and 100% repeatability of cut-out elements.

Laser technology is very fast and precise and allows you to optimise the use of raw materials and gives you the opportunity to obtain ready-made elements which do not require additional treatment. Hence the possibility of executing orders within 24 hours.

We also offer laser cutting of round, square, rectangular as well as irregular cross-section profiles. Laser technology also allows for engraving and cutting of plastics, wood and wood-like materials.

Machine type

# TRUMPF
# TruLaser 5030 FIBER

**Technical data:**

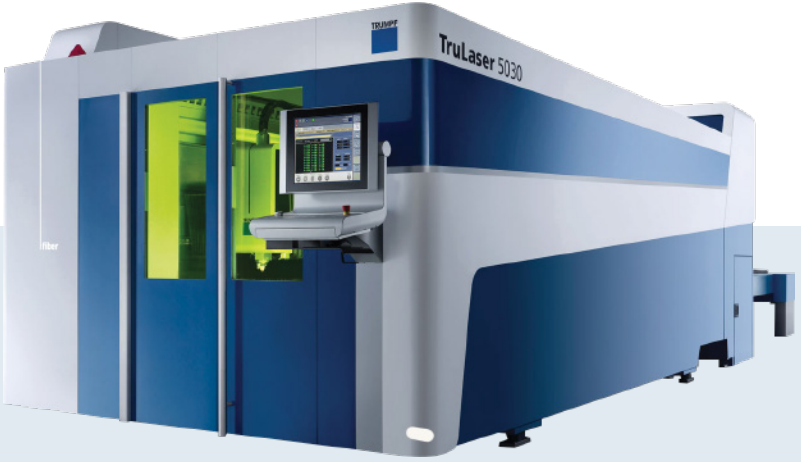
- two cutting heads for cutting thick sheets and quick cutting of thin sheets,
- capability of cutting all kinds of metal,
- capability of cutting titanium,
- accuracy up to ± 0.05 mm.

**Work zone:**

- X-axis: 3000 mm,
- Y-axis : 1500 mm,
- Z-axis : 115 mm.

**Maximum thickness of material:**

- construction steel 25 mm,
- stainless steel 20 mm,
- aluminium 20 mm,
- copper 10 mm,
- brass 10 mm.



Machine type

# TRUMPF
# TruLaser 3030 L20

**Technical data:**

- greater capability of processing a wider range of materials,
- surface accuracy of ± 0.05 mm,
- CO2 technology is characterised by high quality of the workpiece edges (depending on the type and thickness of the material).

**Work zone:**

- X-axis: 3000 mm,
- Y-axis: 1500 mm,
- Z-axis: 115 mm

**Maximum thickness of material:**

- constructional steel 25 mm,
- stainless steel 20 mm,
- aluminium 12.7 mm.

**Did you know...?**

Our laser cutting department processes nearly

**3 000 000 workpieces per year**

# Bending

We offer a service of workpiece bending using two Trumpf press brakes. Our machines include three models of press brakes.

Trumpf TruBend 3100 is a machine characterised by high precision and repeatability.

TruBend 3120 machine is characterised by high processing speed which translates into a low unit cost of a workpiece. In addition, thanks to this machine, we are capable of performing segmental and radial bends as well as folds.

The third TruBend 7036 machine, due to high speed and acceleration of the pressure beam and the backgauge, is one of the fastest press brakes in the world. It owes its speed to electric gearless axle drive. It has a multi-functional bumper fingers set independently of each other and the line laser which marks the bend lines on the surface of the workpiece. With these improvements, we are capable of serially and repeatedly diagonally bend elements of various shapes. We guarantee the highest quality elements in any number of units.

Machine type

# TRUMPF
# TruBend 3120

**Technical data:**

- pressure of 122 tons,
- bending edge length 3110 mm,
- bending of sheets with a thickness of 0.5 up to 12 mm,
- automatic compensation of deflection of the lower beam.

Machine type

# TRUMPF
# TruBend 3100

**Technical data:**

- pressure of 102 tons,
- bending edge length 3060 mm,
- dhigh feed speed 200 mm/s,
- maximum working speed 15 mm/s.

Machine type

# TRUMPF
# TruBend 7036

**Technical data:**

- pressure of 36 tons,
- bending edge length 1020 mm,
- high feed speed 220 mm/s,
- maximum working speed 10-25 mm/s.

# Turning

When it comes to turning services with the use of numerically-controlled technology, we offer our Customers the use of DMG MORI machine tools. The use of these machines allows you to process both individual elements as well as more complex series, and thus to adapt to individual Customer needs. Thanks to specialised tools, we are able to perform a complete machining of complex elements, including full side surface treatment. Additionally, by using improvements such as the bar feeder, we can significantly increase productivity by automating the entire process.

Machine type

# DMG MORI CTX 510

**Technical data:**

- turning diameter Ø465 mm,
- passage in the spindle up to Ø90 mm, ensuring flexibility during machining of workpieces,
- Y-axis ensures efficient turning and milling in one mounting,
- 12-position VDI tool head.

Machine type

# DMG MORI CTX 450

**Technical data:**

- maximum turning diameter Ø400 mm,
- passage in the spindle up to Ø75 mm,
- maximum length of the workpiece 1050 mm,
- maximum speed 4000 rpm,
- 12-position VDI tool head.

Machine type

# DMG MORI
# CLX 450

**Technical data:**

- maximum turning diameter Ø400 mm,
- maximum length of a workpiece with the tailstock (with machining possibility) 800 mm,
- maximum handle size 315 mm,
- maximum spindle speed 4000 rpm,
- maximum internal diameter of the clamping pipe Ø80 mm.

# Milling

Machining services are carried out with the use of DMG MORI vertical milling machine, offering the highest-end milling technology, equipped with modern cooling systems and efficient spindle systems which allow you to expand the range of processed items.

Additionally, developed tool mechanisms incorporating a fast changer significantly affect the accuracy of the workpieces. CMX V series roller guides provide high stability as well as high rigidity and durability.

When making the decision to introduce this model into our machinery, we adhered primarily to the needs of our Customers in order to achieve the highest level of precision in machining elements and give them shapes in accordance with the specifications.

Machine type

# DMG MORI
# CMX 1100 V

**Technical data:**

- maximum axis-X feed 1100 mm,
- maximum axis-Y fedd 560 mm,
- maximum axis-Z feed 510 mm,
- maximum table load 1000 kg.

# Band saw cutting

We offer cutting with band saw which prove them self in practice when cutting profiles, sections, pipes and shafts, and are a relatively cheap solution. It is used in individual and serial production, and due to its robust design it allow for cutting of a wide range of materials (solid materials and profiles).

BEKA-MAK 540 CGH cutter has a hydraulic vice with automatic feed for feeding material, which significantly speeds up the whole process. With an optical sensor of the automatic height adjustment, the arm reaches the material faster and the hydraulic cutting control causes the arm to be raised after cutting. The band guidance jaws have carbide inserts and bearings in the band guides, which additionally stiffens its entry into the material and prevents vibrations, significantly improving the quality of the service.

Machine type

# Band saw
# BEKA - MAK 540 CGH

**Technical data:**

- cutting range of round elements 540 mm,
- cutting range of rectangular elements 720x540 mm at 90°,
- rotation of the arm from 90° up to +30°.

# Welding

We offer you welding services using the following methods: TIG, MIG, MAG - manual and automated, which guarantee the highest quality. We perform welding of structural and alloy steel as well as aluminium and its alloys. A strong team of engineers, experienced welders and available equipment allows us to execute even the most demanding projects. Our offer is addressed both to companies as well as individuals.

**It is worth adding that as far as welding is concerned, we have certificates in accordance with applicable ISO standards:**

- PN-EN ISO 3834-2,
- PN-EN 1090.

# Welding equipment:


- **ABB IRB 1600 robot:**
  - thanks to innovative solutions, there is a capability of arc welding
    - all wiring and utilities culverted inside the arm,
  - repeatability of positions up to 0.02 mm,
  - track repeatability up to 0.48 mm,
  - simplified robot software.

- Siegmund S28 welding table:
  - X-axis: 2400 mm,
  - Y-axis: 1200 mm,
  - Z-axis: 200 mm,
- LIZARD welding carriage,
- welding machines:
  - Migatronic Sigma Galaxy,
  - Kemppi FastMig,
  - Kemppi Kempact,
  - Kemppi Minarc,
  - Kemppi MasterTig.

# Locksmith services

We provide various types of metalworking services for regular Customers and for individual Customer orders.

We have an extended machinery stock thanks to which we are capable of processing various types of orders.

We offer:

- riveting,
- spot welding,
- capacitor discharge welding,
- chamfering,
- threading,
- drilling,
- studding, bushing, PEM fasteners,
- rivet nutting,
- as well as band-cutting up to the width of 520 mm.

**Did you know...?**

For 10 years, every month,

**200 tons of steel**

passes through the hands of our specialised employees.

# Quality Department

Accuracy is important in every aspect of production, and the condition for its assurance is 3D measurement technology. Precise FARO® laser mechanics and measurements do not allow errors in applications such as setting machining devices or aligning clamping fixtures, part inspection, surface analysis, 3D modelling or as-built documentation of the factory layout.

The measuring arm is characterised by:
- new, ergonomic construction and general weight optimisation,
- new features,
- kinematic intelligent measuring probes which allow for fast replacment of the measuring probe without having to recalibrate the arm.

In the aerospace and automotive industries, in the metal industry, as well as in the production of tools and dies, the FaroArm and ScanArm arms are used for dimensional analysis and quality control in many different applications, such as precise machine setting, rapid prototyping, first series control, part verification and reverse engineering

# Design

Our design office provides support when doing projects using AutoCad and Solid Edge 3D design software. We operate on the basis of technical documentation provided by the Customer as well as make designs based on sketches and significant assumptions provided by the Customer.

Every day, our team makes every effort to ensure that Customers receive offers in the shortest possible time. Technologists approach projects individually, carefully analysing them and adapting to the needs of Customers. This is one of the most important stage and the success of further process of production of workpieces depend on it. Time and time again, we have provided support to our Customers in the field of design, both in terms of modifications and co-creation of new projects.

**Software:**

AutoCAD

Solid Edge

# Cooperation

As regards comprehensive customer service, we offer a wide range of services in cooperation with partner companies.

**Scope of cooperation:**

- water cutting,
- plasma cutting,
- laser cutting and bending of workpieces with a length of more than 3 m,
- cutting and bending of pipes and profiles,
- powder painting of small-, medium- and high-volume production,
- shot blasting,
- heat treatment,
- hot dip galvanising and electroplating,
- machining,
- rolling,
- electropolishing,
- and many other metalworking processes.

# Historia firmy

**2009**

- **Company founded**
- First laser machine by Trumpf

**2010**

- First bending machines also by Trumpf

**2011**

- Second CO2 laser by Trumpf

**2012**

- **Opening of the welding department**

**2013**

- **Expansion of the production floor**
- Second press brake by Trumpf
- New machine - FIBER laser by Trumpf

**2014**

- **Foundation of GLOBMETAL TRADE**

**2014**

- First turning machine by DMG Mori

**2015**

- **Certification ISO 9001**
- Second DMG Mori turning machine

**2016**

- **Certification ISO 1090 and 3834**
- **New location for the machining department**
- Third bending machines by Trumpf

**2017**

- First welding robot - ABB IRB 1600

**2018**

- **Expansion of the welding department to the new location**

**2019**

- First milling machine and next turning machine by DMG Mori
- **We are here! – 10th anniversary of our Company**

Globmetal


ul. Dworcowa 56,
76-004 Sianów

tel. +48 600 200 979
tel. +48 94 318 55 99

biuro@globmetal.pl

globmetal.pl