



LASER CUTTING

CNC BENDING

WELDING

LOCKSMITH WORK

TECHNOLOGICKÉ CENTRUM, a.s.

We have been operating on the market since 1995 and since then laser cutting has been our domain in which we continue maintaining high level of performance. We are financially stable company with a strong backup in form of an affiliated company in Belgium.

PRICE

We can update prices regularly, thus achieving the lowest prices for the products. Our development team is prepared to professionally advise and consider various design options to achieve best possible price.



SHORT DELIVERY TERMS

We are able to satisfy even customers demanding quick and just-in-time deliveries. We usually stock standard material sizes and grades (i.e. common thicknesses of DC01, S235, AISI304, etc.) for which we are able to offer extremely short delivery times. We are also used to work with just-in-time production and delivery systems, such as Kanban.

HIGH QUALITY

We use state-of-the-art TRUMPF and BYSTRONIC machinery and employ an experienced team of programming engineers and operators for who is the achievement of high cutting quality standard a natural objective of their work. We are well aware that the resulting outcome of the cutting finish is directly proportional to the skills and experiences of both the programming engineers and operators. Our personnel are regularly trained by our machinery suppliers, so that they are in touch with the latest development in laser cutting.

WE RECOMMEND

Specific technical option of our latest laser machine allow us to highlight the possibility of High speed cutting method, which in combination with air as a cutting gas enables the customer to save as much as 50% of its costs (depending on thickness and shape of cut piece). This method is very suitable for parts made from carbon steel with a material thickness ≤ 1.5 mm for which additional surface finishing is considered.

However, we recommend the conventional method of cutting with O₂ for parts requiring no additional finishing or if high-quality cutting is required.

LASER CUTTING

We can cut wide variety of materials and thicknesses covering most of capabilities of current laser technology. With 4 state-of-the-art lasers, the capacity for laser cutting is not an issue.

We have 1 laser specifically designed for cutting effectively thin plates (under 4mm).

BENDING

As for bending, we offer high precision and quality of bending as well as design solutions for complicated parts with multiple bends which often result in savings in production and better price for our customers.

TECHNICAL PARAMETERS:

Maximal bending force 170 t

Maximal length of the bend 3 m

Maximal thickness of the material for the bend 12 mm

A broad range of tools enables us to respond flexibly to requirements with short delivery dates. A 5-axial backstop facilitates bending of the arms which are not parallel with the axis of movement.

COMPLICATED MULTIPLE BENDS

We have extensive experience with bending complicated shapes with high precision individual bends and we are

able to reduce production costs by correctly selecting the procedure in the bending process.

Through the application of structural binders we are able to stick to the

required reliability performance and shape of the product without the necessity of further operations (e.g. welding) not parallel with the axis of movement.

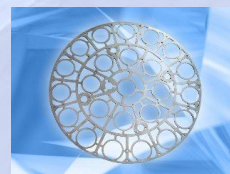
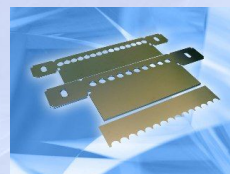
OTHER OPERATIONS

In cooperation with our partners we also offer following:

- milling, lathe turning, precise drilling
- hot dip galvanizing
- zinc coating
- powder coating, painting
- sandblasting
- passivation, etc.



CUT MATERIAL	MAX. THICKNESS
Carbon steel	20mm*
Stainless steel	20mm
Aluminium alloys	10mm
Zinc coated plates	3mm
Maximum sheet size is 3000x1500.	
* It is possible to cut steel up to 25mm – the cutting parameters must be tuned, a sample must be submitted for approval and LASER material grade must be used.	



WELDING

We provide welding as a complementary service to the laser cutting and bending of sheet metal products.

Standard welding methods we use are:

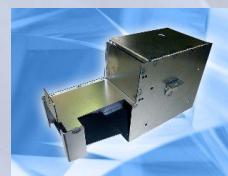
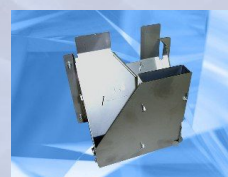
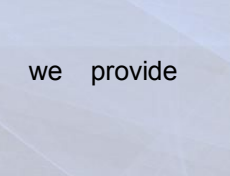
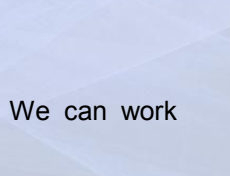
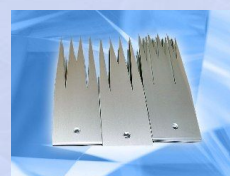
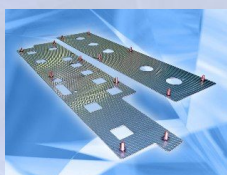
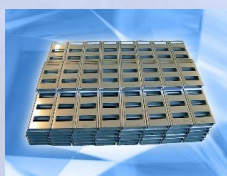
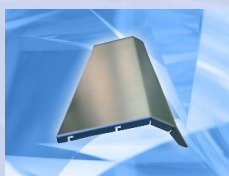
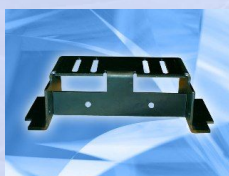
- MIG/MAG
- TIG welding – face/visual welding of stainless steel
- Point welding

In order to meet accuracy we use jigs designed in 3D CAD/CAM Solid Works. We can work with work pieces up-to 500 Kg heavy.

MACHINING OPERATIONS

To offer higher level of completion we provide complementary machining operations as:

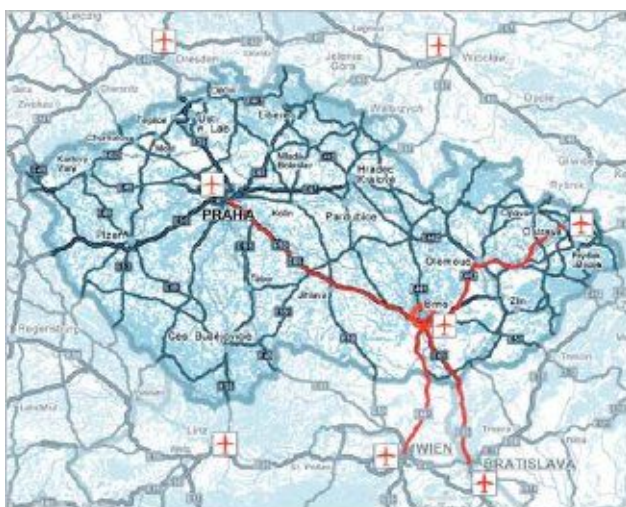
- drilling
- countersinking and threading
- riveting
- tumbling/rounding of edges
- resistance welding of small parts such as nails, screws etc.
- subassembling





TECHNOLOGICKÉ CENTRUM

- complex works with sheet metal products
- high flexibility and short delivery terms
- high quality of our services
- we are experts in laser cutting technology
- high bending precision and quality of bends



TECHNOLOGICKÉ CENTRUM a. s.

Kulkova 14, Brno
 CZ- 61400
 Czech Republic
 Phone: +420 545 429 711
 Fax: +420 545 578 233
 E-mail: sales@tech-centrum.cz
 Web: www.tech-centrum.cz

