

Akademik Beckov Slovakia Ltd



Metal products

JIT



About company

Akademik Beckov Slovakia Ltd company was established in **2005** for the purpose of processing quality precision engineering and manufacturing components for its customers.

The aim of the company is to increase the quality and efficiency of mechanical engineering in its own premises to market requirements. The introduction of technology in optimizing logistics processes we offer our customers short lead times, attractive competition and capable prices. **Akademik Beckov Slovakia Ltd** is provided with the most modern CNC-technological equipment for processing of different materials, of various size and complexity.

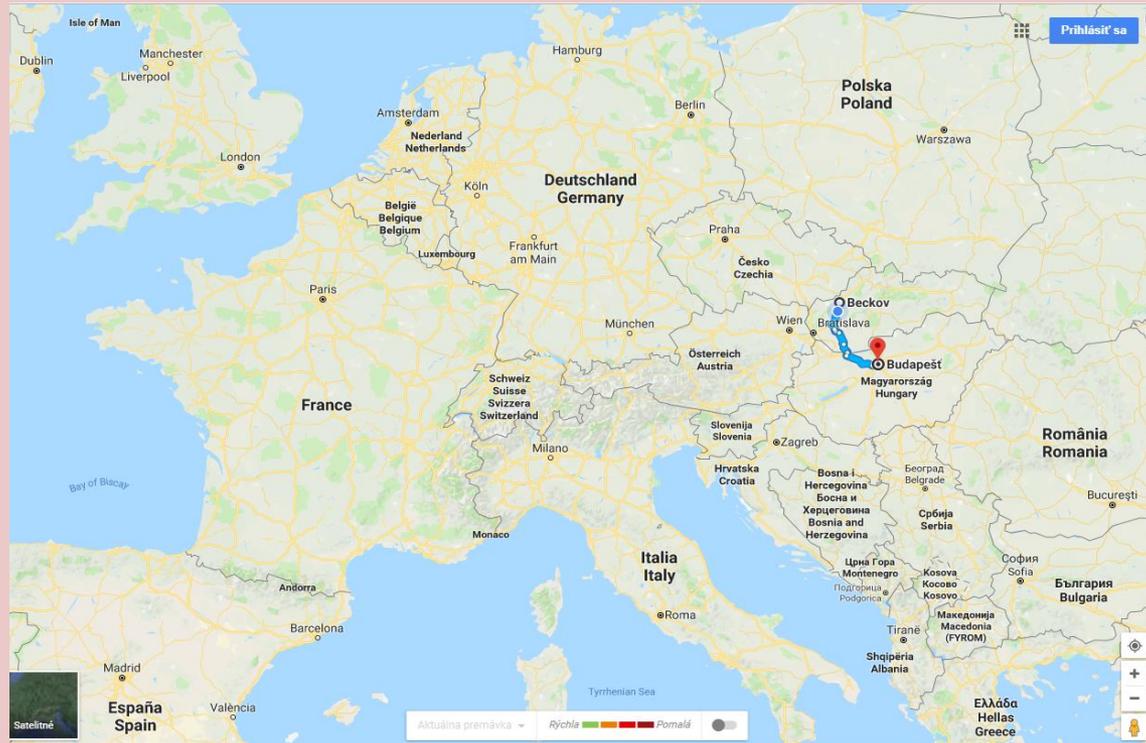
We offer the following services:

- laser cutting (burning)
- CNC bending
- welding TIG, MIG, MAG
- drilling, threading
- locksmith works
- powder coating
- availability of strong engineering staff (drawing development)
- preparation of documentation
- elaboration of price offer

Organization of production by methodology Just-in-Time (JIT)

The company has a certificate ISO 9001:2015

A Slovak company **Akademik Beckov Slovakia Ltd** manufactures steel structures and locksmith products from stainless steel, aluminum, galvanized and carbon materials, powder coating, due to the expansion, offers production capacities, outsourcing or subcontracting to EU engineering companies.



The company is situated in Beckov, nearly 100 km from Bratislava, nearly 220 km from Budapest.

Akademik Beckov Slovakia Ltd

- Readiness to make low series (for example 1-10 pcs per type - prototype like).
- Company size / annual turnover: up to 4M €.
- Long-term cooperation with the transport company - reliable delivery to the countries of Europe.

Main Customers:

- Steinemann Technology AG (St.Gallen, Switzerland) – manufacture of machinery.



steinemann



- Manz AG (Reutlingen, Germany) – a high-tech equipment manufacturer, develops and produces in Germany, Slovakia, Hungary, Italy. Concentrates on the development, design, and assembly of components and machines.



manz
passion for efficiency



Laser Cutting CO2

AMADA LC-2415 ALPHA IV

We offer laser cutting

from small to large size, from thin to thick sheets. ALPHA IV includes CNC control with half or full free optics. This guarantees the opportunity to choose optimal solutions untypical for single and batch production. Concept Laser offers surprising power - short beam path always provides stable and excellent results. The products are of high purity and accuracy of cut.

Type	LC-2415 ALPHA IV
Power (W)	2500-W-Laser
Range (mm)	(X) 2520 x (Y) 1550 x 12 mm
Max. Range (mm)	(X) 5040 x (Y) 1550 x 12 mm



Laser Cutting CO2

AMADA LC-2415 ALPHA IV

The fourth generation of laser cutting

As a fast, compact laser cutting machine with semi-flying optics, the LC-ALPHA series not only compels with extremely short piercing times but also with its high travel and cutting speeds. The machine achieves travel speeds of up to 113 meters per minute.



CNC Bending

Amada HFT 50-20

Precision CNC bending – edging

Our company has a precision CNC technology for bending and folding steel blanks, burnouts.

Machines are characterized by high precision achieved constant angular programming backstop. The advantage is the high accuracy emphasis in sheets and long bending parts.

Maximum bending length - 2090 mm

High precision machinery, together with a wide range of tools available allows to solve simple or very complicated bend shapes.

Subcontracting: Max. bending length – 4470 mm



Welding

Precise processing and proper control of the finished product are commonplace throughout the production chain.

Welding semi-automatic transfers by our staff with state tests. We offer welding of structures and frames.



Welding:

- TIG
- MIG
- MAG



Powder coating

Our company offers powder coating steel, galvanized and aluminum products.

We have a powder line that allows:

1. Pre-preparation in three stages:
 - degreasing by ferrous phosphating,
 - rinsing with commercial water,
 - rinsing with demineralized water.
2. Drying.
3. Powder coating - electrostatic, tribostatic charge.
4. Firing.

Chemical pretreatment - improves corrosion resistance.
It guarantees perfect protection of parts.

The maximum dimensions of the painted parts are:

- length - 4500 mm, height - 2400 mm, width - 1500 mm

The maximum weight of painted parts is:

- 500 kg.

Productivity:

- 100-150 m² in shift.



Powder coating

A wide selection of colors that conforms to the RAL sampler.

Colors for indoor, outdoor use.

Colors of various surfaces - smooth, coarse or finely textured.

Colors of different degrees of gloss - shiny, semi-glossy, matte.





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A wide range of auxiliary machine-building equipment,
including:

Gravitational Band Saw

The saw is designed to cut the material in both vertical and angular cuts, angular cuts are continuously adjustable from 0 to +60 degrees. It allows the division of a wide range of materials such as stainless steel, tool steels, both profiles and full blanks.



Electric tapping arm machine

Thread cutting up from M2 to M16.



Drilling machine

Drilling to a diameter of 32 mm.
Guaranteed spindle accuracy ≤ 0.02 mm.
Quality ball bearings for high accuracy spindle operation.



In cooperation we will provide:

- surface treatment:
 - galvanic and galvanizing
 - blacking
 - anodizing
 - galvanic zinc coating (blue, yellow, olive, black)
 - galvanic chromating
 - galvanic nickeling
 - hard anodized aluminum and natural aluminum elox
 - chemical nickel
- machining center (horizontal boring)
- milling work
- turning work



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The presence of a free area of about 500 square meters

Ability to use under:

- installation
- installation of new machines
- storage



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Availability of strong engineering staff:

- design Engineer (IGES, STEP, STP, ACIS, DXF, DWG),
- production engineer,
- experienced professionals



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Organization of production by methodology Just-in-Time (JIT)

JIT	Traditional
1. Pull system	1. Push system
2. Insignificant or zero inventories	2. Significant inventories
3. Manufacturing cells (work centres)	3. Process structure
4. Multifunction labour	4. Specialised labour
5. Total quality management (TQM)	5. Acceptable quality level (AQL)
6. Simple cost accounting	6. Complex cost accounting

JIT –“Just-In-Time” Manufacturing - three main objectives:



1. Increasing the organization's ability to compete with others and remain competitive over the long run. The competitiveness of the firm is increased by the use of JIT manufacturing process can be developed a more optimal process for the company.
2. Increasing efficiency within the production process. Efficiency is obtained through the increase of productivity and decrease of cost.
3. Reducing wasted materials, time and effort. It helps to reduce the costs.

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