



We shape your products

Company profile:

We have been engaged in the manufacture of composite materials and thermoplastic products since 1991. Our purchasers include both small and large manufacturers of rail vehicles, buses, and cars. We also have customers in the construction industry, and among manufacturers of agricultural, sanitation, and healthcare technology throughout the European Union. The current foreign markets we are active in include Slovakia, France, the Netherlands, and Germany.

We offer our customers comprehensive services, from cooperation in the development of new products to the manufacture of models, moulds, and prototype parts to the manufacture it self of products with quality surface treatments.

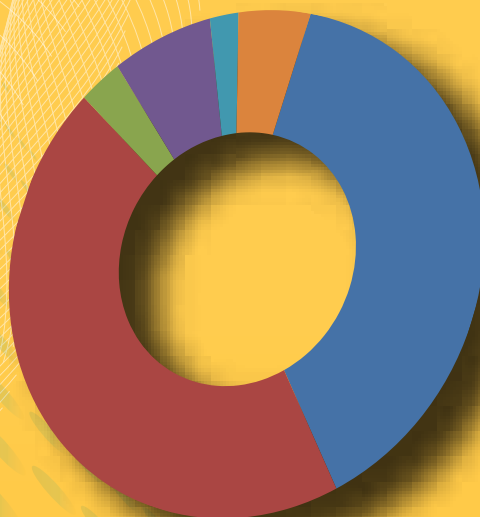
Number of employees: 85

Total production floor area: 4,538 m²

We supply various branches of industry:

Railway vehicles	38%
Automotive industry	45%
Agricultural technology	3%
Health technology	7%
Sanitary technics	2%
Building industry	5%

Branches:



Components for the production of:

- Railway vehicles
- Automotive industry
- Agricultural technology
- Health technology
- Sanitary technics
- Building industry



Main technologies:

Composites

Vacuum film lamination

- This method is intended for parts with larger dimensions and more stringent strength criteria.
- The benefit is higher-quality reverse sides of products.

Prepreg technology

- This technology makes use of prepregs, that is, fabrics pre-impregnated by machine.
- The use of prepregs results in high-quality products with very low densities and suitable mechanical properties.

Manufacture of sandwich panels

- Products manufactured in this way are characterised by high rigidity and strength, while requirements for low density continue to be met.
- Due to their unique properties, these products are used in the automotive, aviation, and railway industries.

Manufacture of composites–glass-fibre laminates

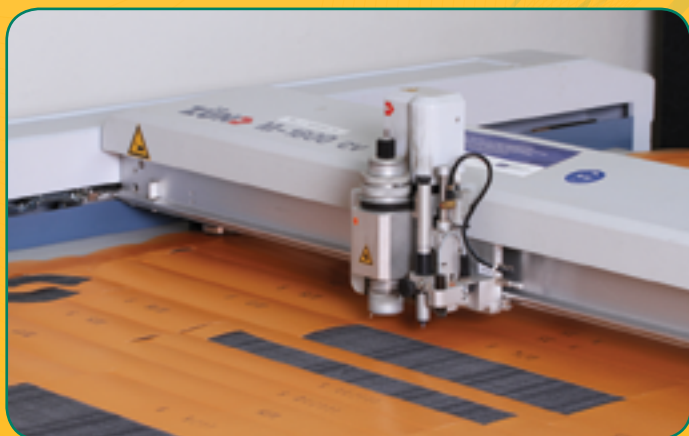
- The advantageous properties of glass-fibre laminate are, for example, low weight, excellent formability, non-corrosiveness, and favourable FST (fire, smoke, and toxicity) characteristics, particularly their self-extinguishing abilities.
- Used mainly in the transport industry (cars, trains, transport equipment).

Production of models and moulds

- We are able to secure production tools, models, and moulds for all types of technology we offer through our own production capacities or, if necessary, in cooperation with specialty producers.

Painting

- Paint is the final treatment of the surface of composite products
- We paint parts using the required prescribed painting systems or, if necessary, we will recommend and secure an appropriate provider for you.
- The yearly capacity of our paint shop is approximately 10,000 m² of painted product surfaces.



Thermoplastics:

Vacuum forming of thermoplastics

- A technology dealing with the thermal treatment of thermoplastics.
- It consists of clamping a pre-cut board or film into the frame of a vacuum press, heating it, and forming a part by means of a vacuum.



Associated technologies

CNC machining of composite materials

- We offer perfectly precise 5-axis machining of parts made of glass-fibre laminate, sandwich panels, and other composite materials on modern CNC machines equipped with a flexible machining head featuring variable cutting speeds.

Water - jet cutting

- Water-jet cutting is performed on a WJ 3020-2Z-UJ-PJ machine with a high-pressure pump.



Welding - metal products

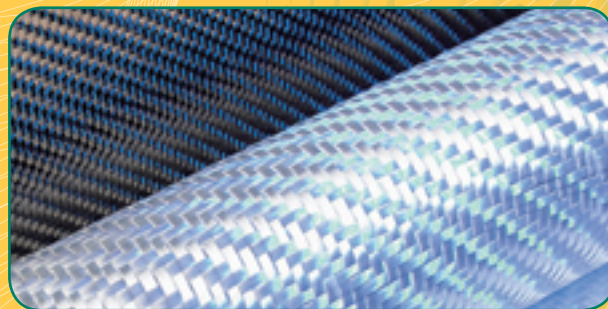
- We offer welding in a protective atmosphere (MAG, MIG, TIG, CO₂) pursuant to ČSN ISO 15085 and we can manufacture various metal elements, transport pallets, and production jigs, namely for bonding and drilling.
- We use conventional methods of machining, turning, and milling.



Materials and specific characteristics

We use high-quality materials for manufacture. Thanks to our experience and long-standing tradition, we can fulfil demanding criteria arising from a customers' special requirements:

- Self-extinguishing ability
- Special mechanical properties
- High gloss and surface hardness
- Low density
- Abrasion resistance and colour fastness
- Mechanical strength thanks to the sandwich structure
- Easy handling and installation
- Minor adjustments can be performed via machining
- Surface can be polished using common polishing pastes
- Thermal non-conductivity



Materials used for the manufacture of composite products:

Resins

- Polyester
- Vinyl ester
- Epoxy

Reinforcement

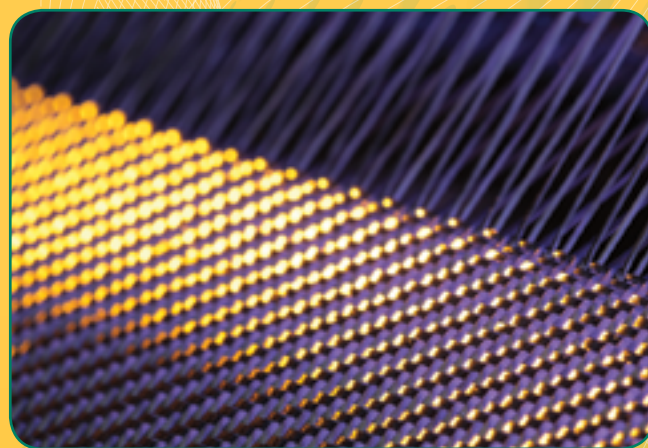
- Glass fibres
- Carbon fibres
- Aramid fibres

Sandwich core

- Foam (PET, PUR)
- Honeycomb (paper, aluminium)

Prepregs

- Epoxy
- Phenolic



Materials used for the manufacture of thermoplastic products:

- ABS
- PE
- PP
- HPS

Certificates:

IATF 16949: 2016
ISO 9001: 2015

Welding certificate: EN ISO 3834-2
EN 15085-2, CL2

Bonding certificate: DIN 6701-2:2015, A2





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