

VVM|IPSO

Complex Mechanical Engineering Solutions

VVM
IPSO
FULNEK

VVM|IPSO

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44 000 m²

Total area of our two
production facilities

5000+

Tons of material
processed annually

15+

Countries where our
customers and partners
operate

25000+

Monthly production
capacity in man-hours

220+

Permanent employees

ABOUT VVM-IPSO

VVM-IPSO s.r.o. is an engineering company specialising in the manufacture of steel structures, welded assemblies, frames and complete technological units for industrial customers across Europe. Since our establishment in 1998, we have built a stable manufacturing base comprising two production facilities with a total area of 44,000 m² and a team of more than 220 employees. We maintain long-term partnerships with customers in more than 15 European countries.

At our own production facilities, we provide a complete manufacturing process – from laser cutting and CNC forming through robotic welding and precision machining to surface treatment and final assembly. The seamless integration of individual manufacturing operations enables us to effectively manage quality, lead times and the technical execution of customer projects.

We provide both series production and technologically demanding custom manufacturing. An experienced team of specialists, modern technologies and a strong focus on precision enable us to serve a wide range of industries with demanding requirements for quality and manufacturing reliability.

WHY WORK WITH US

01 Complete Manufacturing Under One Roof

We provide the entire manufacturing process, from material cutting to the final assembly of complete functional units. This provides customers with simplified project coordination, shorter lead times and enhanced quality control.

02 Solutions for Large-Scale Structures

Our technologies enable laser cutting of sheets up to $6,225 \times 2,500$ mm and fabrication of welded structures up to 15 metres in length and 12 tons in weight.

03 Precision CNC Machining of Heavy Components

We machine welded structures and functional surfaces on horizontal boring mills, processing components weighing up to 5 tons.

04 Certified Quality and Digital Inspection

Manufacturing processes are managed according to ISO 9001 and ISO 3834-2 standards. We use augmented reality-based digital inspection to verify geometry and compliance with 3D documentation.

05 Experienced In-House Team

Projects are carried out by our own team of skilled specialists and certified welders without the use of temporary agency workers.

06 Technical Partnership Throughout the Project

We work closely with customers during production planning, design optimisation and working with 3D documentation to ensure efficient manufacturing continuity.

QUALITY & CERTIFICATIONS

We ensure product quality through systematic process management, certified procedures and advanced measuring technologies. Quality control is integrated throughout the entire manufacturing process, from incoming material inspection to final dispatch.

Our manufacturing operations are managed in accordance with ISO 9001, ISO 3834-2 and ISO 14001 standards. To verify geometry and compliance with 3D documentation, we utilise augmented reality-based digital inspection systems. We also place strong emphasis on environmentally responsible and energy-efficient manufacturing.



Key Pillars of Quality Management

Environmental Responsibility

Efficient waste management
and energy-efficient technologies

ISO 3834-2

Certified welding processes
supervised by a welding
coordinator

ISO 9001:2015 and ISO 14001

Quality Management System
and Environmental Management
System

Digital Geometry Inspection

Verification of compliance with
3D CAD models using augmented
reality

NDT Testing

VT, PT and MT inspections performed
by Level 2 certified personnel



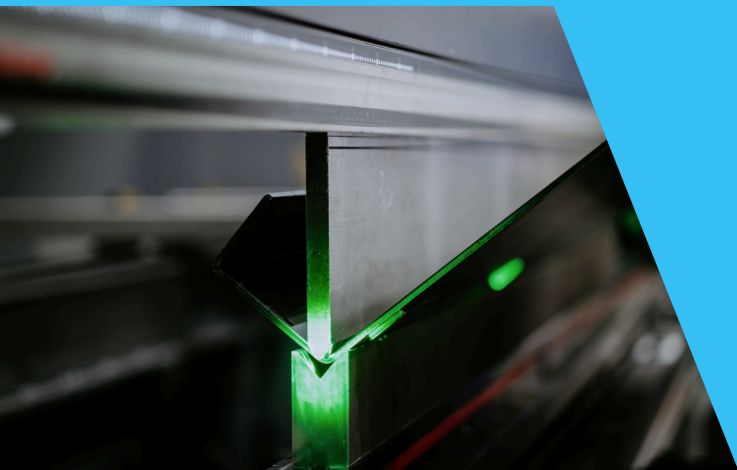
MATERIAL CUTTING

We perform precision material cutting on modern **BYSTRONIC** laser systems with output power up to **12 kW**. The technology enables efficient processing of large-format sheets while maintaining excellent cut quality and high dimensional accuracy for both series and custom production. Our 12 kW laser system incorporates oxygen-free cutting technology, providing clean, oxidation-free edges for optimal welding and surface treatment performance.

	Equipment	BYSTRONIC BYSTAR FIBER 3015 (12 kW) / BYSTAR FIBER 6225 (10 kW)
	Maximum Sheet Size	6,225 × 2,500 mm
	Cutting Accuracy	±0.10 mm
	Maximum Material Thickness	Carbon steel, stainless steel and aluminium up to 30 mm
	Non-Ferrous Metals	Brass and copper up to 15 mm
	Special Technology	Oxygen-free cutting up to 20 mm (12 kW laser)

Large-Format Laser Cutting Focused on Precision and Efficiency

Laser cutting is used for the precise and efficient production of components of various sizes and complexities. The technology offers excellent repeatability, clean cutting quality and seamless integration with subsequent manufacturing operations, particularly welding, machining and surface treatment. The ability to process large-format sheets allows us to optimise structural designs, reduce the number of welded joints and improve overall manufacturing efficiency.



MATERIAL FORMING

We provide CNC forming using modern Bystronic and Safan press brakes. The technology enables precise bending of technically demanding components while maintaining excellent dimensional accuracy and consistent production quality. With press capacities of up to 480 tons and bending lengths up to 4,300 mm, we process a wide range of sheet metal components for both series and custom manufacturing. Additional capabilities include CNC punching and forming of profiles and tubes.



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Equipment

6x CNC press brakes (Bystronic / Safan)



Maximum Bending Length

4,300 mm



Maximum Press Force

480 tons



Additional Technologies

CNC punching and profile and tube forming (Digibend)



Tooling

Wide range of punches and dies for complex geometries



Material Range

Structural and stainless steels

When Every Bend Matters

Thanks to our extensive tooling inventory and the ability to process a wide range of geometries, we can develop efficient bending solutions for both simple and technically demanding components. Optimised manufacturing processes help reduce the number of subsequent operations while ensuring seamless integration with welding, machining and assembly.

MACHINING



We perform precision CNC machining of large welded assemblies and engineering structures on horizontal boring mills. Thanks to the integration of welding and machining within our own facilities, we ensure high dimensional accuracy and efficient manufacturing continuity. In addition to heavy component machining, we also manufacture small and medium-sized parts for both custom and repeat series production.

	Horizontal Boring Mills	TOS WHN 110 Q / WH(Q) 105 CNC
	Working Envelope	X 3,000 mm / Y 1,600 mm / Z 1,250 mm / spindle travel 710 mm
	Maximum Workpiece Weight	Up to 5,000 kg
	CNC Milling & Turning	STYLE BT 2000 and SL 2000 BSY centres
	Operations	Milling, precision boring, drilling and threading
	Conventional Machining	Universal lathes, milling machines and drilling machines
	Production Type	Custom and repeat series production

Precision That Gives Structures Their Final Shape

Machining is a key step in producing components with demanding requirements for accuracy and functionality. We specialise in machining welded structures, fabricated assemblies and machine components, ensuring precise dimensions, surface flatness and accurate machining of functional features. The entire manufacturing process is carried out seamlessly within a single production facility, contributing to shorter lead times and higher overall product quality.

WELDING

Welding of steel structures and technological units is one of our core manufacturing competencies. Processes are performed in accordance with ISO 3834-2 under the supervision of a welding coordinator and cover everything from small components to large welded structures up to 15 metres in length and 12 tons in weight. Thanks to our stable team of certified welders and Panasonic robotic welding systems, we ensure excellent accuracy, production repeatability and consistent weld quality for both custom and series manufacturing.



Certification
ISO 3834-2 / ISO 9606



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Personnel Capacity

85+ certified welders and operators



Welding Processes

MIG / MAG / TIG



Fabrication Capacity

Welded structures up to 15 m / 12 t



Robotic Welding

Panasonic TL-2000 (reach 7,000 mm / payload 2,000 kg), Panasonic TL-1800 (reach 3,000 mm / payload 500 kg) + Migatronic collaborative robot (cobot)



Material Range

Structural, fine-grained, high-strength and stainless steels



Quality Control

NDT inspections (VT, PT, MT) and digital 3D inspection

Combining Precision, Experience and Modern Technology

Welding is one of our core manufacturing operations, seamlessly connected to machining, surface treatment and assembly processes. By combining an experienced team of certified welders, Panasonic robotic welding systems and ISO 3834-2 controlled processes, we ensure high weld quality, manufacturing accuracy and consistent results. We deliver projects ranging from small components to large welded structures and complete technological units.

SURFACE TREATMENT

We provide a complete range of surface treatment solutions to achieve the required corrosion protection and final appearance of products. Surface treatment systems are selected according to coating specifications and corrosion resistance requirements in categories C1-C5 for industrial and technologically demanding applications.



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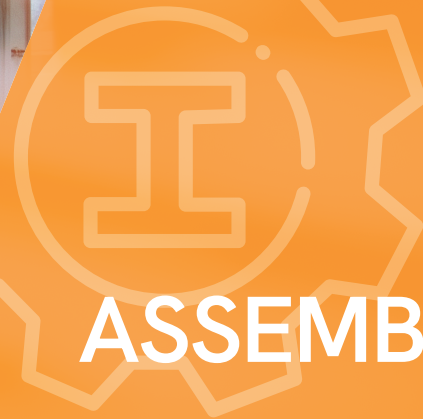
	Wet Painting	Single-coat and multi-coat paint systems in RAL colours
	Powder Coating	High mechanical and corrosion resistance
	Galvanising	Hot-dip galvanising and zinc electroplating
	Surface Pre-Treatment	Steel grit blasting, glass bead blasting, degreasing and phosphating
	Special Treatments	Pickling, passivation, black oxide treatment and anodising
	Corrosion Resistance	Categories C1-C5
	Quality Control	DFT measurement, adhesion testing and visual inspection
	Production Type	Custom and repeat series production

Protection That Extends Product Lifetime

Surface treatment is an integral part of our manufacturing process, with a focus on long-term protection, functionality and the final appearance of the product. By combining blasting, painting, galvanising and other specialised technologies, we develop the optimal solution based on the required corrosion resistance, operating conditions and specific customer requirements. All processes are seamlessly integrated within a single manufacturing workflow, contributing to consistent quality and efficient project execution.



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ASSEMBLY

Assembly represents the final stage of production, where individual parts and subassemblies are integrated into complete functional systems according to customer documentation. We provide the integration of mechanical, hydraulic, pneumatic and electrical systems, including component installation and basic functional verification. Thanks to seamless continuity with previous manufacturing operations, we deliver complete assemblies ready for installation or commissioning.



Assembly Types

Mechanical, hydraulic, pneumatic and electrical assemblies



Assembly Weight Capacity

Assemblies up to 10 tons



Component Installation

Bearings, seals, guide systems and purchased components according to specification



Testing & Verification

Mechanical functionality and system integration verification



Technical Documentation

Manufacturing according to 3D models and engineering drawings



Output

Complete functional assembly ready for installation

From Individual Components to a Complete Functional Assembly

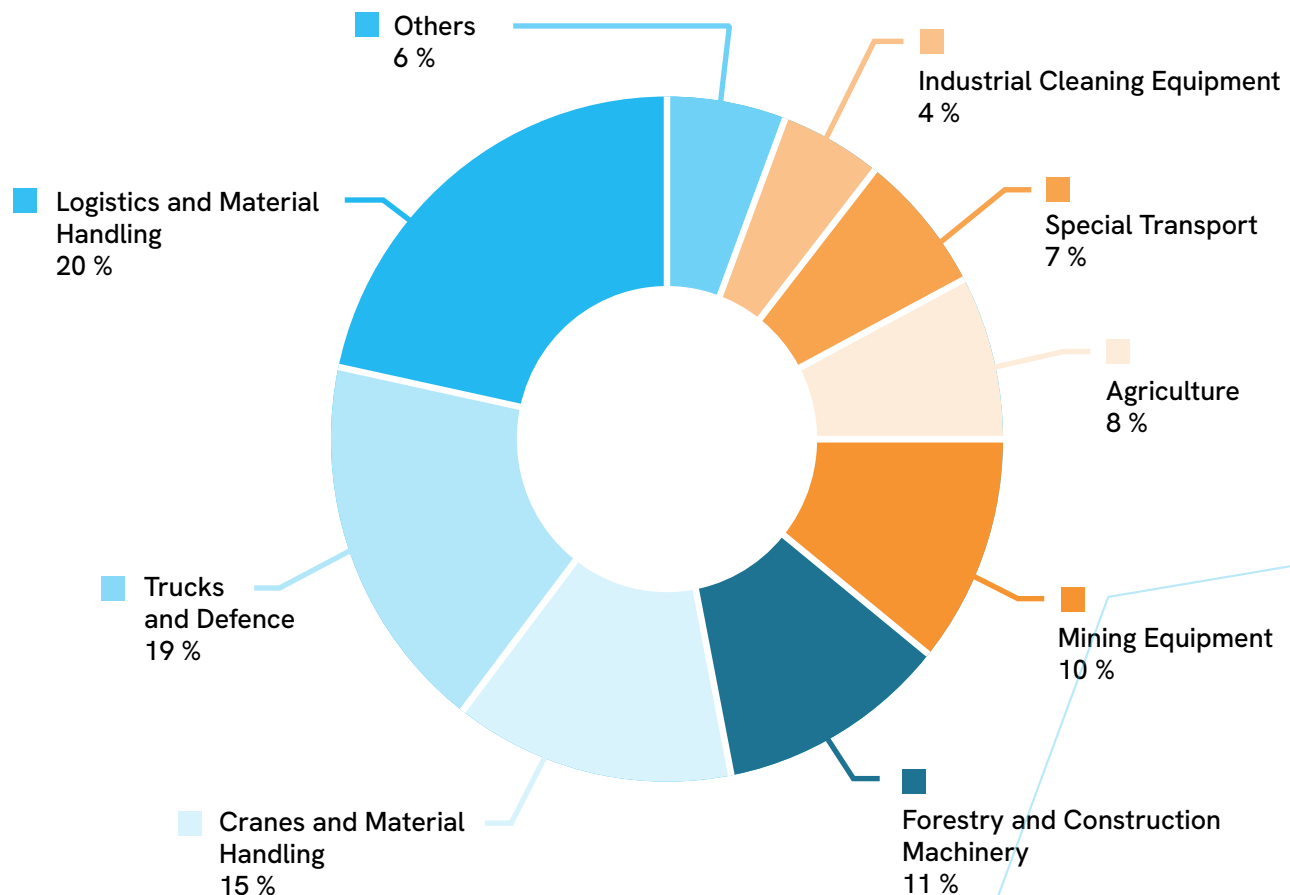
Assembly is carried out as a seamless continuation of previous manufacturing operations, with a strong focus on assembly accuracy, proper integration of individual components and the functionality of complete systems. Our controlled assembly environment enables the efficient integration of mechanical, hydraulic and pneumatic systems, ensuring that the final assembly meets customer technical requirements and is ready for shipment, installation or subsequent operations.

INDUSTRIES WE SERVE & REFERENCES

We operate as a manufacturing partner for European companies in engineering, transportation equipment and industrial technology sectors. Thanks to our integrated manufacturing process, from material cutting through final assembly, we deliver complex welded assemblies, frames and technological units ready for integration into customers' production lines.

We maintain long-term partnerships with customers in more than 15 European countries, primarily in Western and Northern Europe.

The map of European markets and the regional distribution of our customers demonstrate the company's export focus and strong position within the European industrial market.



Our Cooperation Typically Follows These Steps:

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|---|---|---|---|
| 1 | Initial meeting and project requirement definition | 2 | Receipt of enquiry and manufacturing documentation |
| 3 | Technical evaluation and quotation preparation | 4 | Order placement and production of sample parts |
| 5 | Sample verification, including inspection reports and customer approval | 6 | Definition of the inspection plan and critical parameters |
| 7 | Pre-series production and customer approval | 8 | Start of series production |

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