



Special-purpose technological equipment for
companies in the transport engineering sector



Turnkey projects	3
Equipment for freight wagon production	
Equipment for cross beams production	5
Automatic welding stand for center sill and I-beam welding	7
Equipment for the wagon frames production	9
Equipment for the production of walls11	
Equipment for the production of roofs	12
Riveting equipment	13
Gondola wagon hatch production lines	14
Equipment for the production of wagon bodies	15
Lifting jacks	16
Automated drilling complexes	17
Equipment for the production of tanks	19
Equipment for public transport production	
Robotic complex for welding metro wagon roofs	21
Robotic complex for assembly and welding of sidewalls of metro wagon bodies	22
Multipurpose automated welding station for metro wagon roof panel sections	23
Multipurpose stand for metro wagon roof assembly	23
Jig for assembly and welding of passenger wagon side walls	24
Multipurpose stand for assembly and welding of passenger wagon underframes	24
Equipment for tram production	25
Positioners, rotators, canting machines	
Positioners	27
Positioners (special design)	28
Automated storage systems	
Automated storage systems for rolled metal	29
Automated storage systems (rack-type, lift-type)	31
Equipment for surface preparation and painting	
Shot blasting equipment	33
Shot blasting chambers	35
Painting and drying chambers	37
Integrated lines for surface preparation and painting	39
Technological transport	
Traversers	41
Technological transport	43
Elevated access platforms	45
Wagon repair equipment	47
About the enterprise	49
Fields of activity	50

TURNKEY PROJECTS

Extensive experience, technological and production capabilities allow us to implement turnkey projects in the following areas:

- tanks production;
- production of mounted and trailed equipment for commercial vehicles;
- production of rail-based public transport;
- production of freight wagons.



One of our key competitive advantages is the ability to deliver a comprehensive range of services — from design and engineering to supervision installation and commissioning — including the in-house production of specialized technological equipment.

01

PRE-PROJECT STUDIES

Pre-project studies allow the Customer to assess the feasibility of the planned work under specific conditions, to obtain a preliminary estimate of the project's cost and timeline, and to identify potential challenges and ways to address them.

02

DEVELOPMENT OF THE TECHNOLOGICAL PART OF THE PROJECT

During the development of the technological part of the project, the following issues are addressed: selection of main equipment, justification of technical solutions and technological processes, data on production organization, information on the labor intensity of manufacturing processes, basic diagrams of technological processes and production mechanization, material flow diagrams, and the functional and organizational structure scheme.

03

DESIGN OF SPECIALIZED TECHNOLOGICAL EQUIPMENT

All development and design of the manufactured equipment are carried out using automated methods with the application of state-of-the-art CAD systems.

04

MANUFACTURING OF SPECIALIZED TECHNOLOGICAL EQUIPMENT

The enterprise operates its own manufacturing base, which allows for the production of high-quality, technologically advanced equipment.

05

SUPERVISED INSTALLATION AND COMMISSIONING SERVICES

- installation and commissioning;
- construction supervision by the design team;
- training of the Customer's specialists;
- fine-tuning of technological processes and pilot production run.

06

PERSONNEL TRAINING

Customer personnel are trained in equipment operation, adjustment, diagnostics, and maintenance.

07

PROCESS VALIDATION

RPE «Techvagonmash», in collaboration with the Customer, fine-tunes technological processes and manufactures a pilot batch of products.

08

AFTER-SALES SERVICE

We offer comprehensive after-sales support, guarantee timely spare parts supply, and perform remote equipment diagnostics.

Equipment for the production of cross beams

Techvagonmash offers a full range of cutting-edge equipment, enabling efficient and high-quality manufacturing of cross beams for freight wagons.

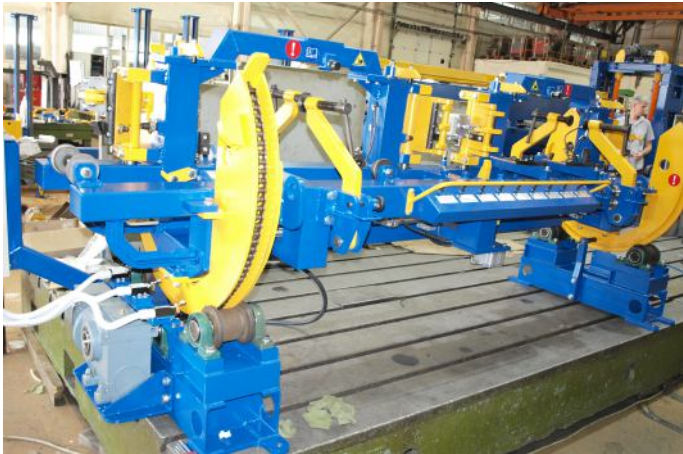
The fixtures are designed taking into account the following parameters:

- allowable geometric deviations of the structure;
- load characteristics of the fixation points;
- types of welding technologies used (manual, semi-automatic, robotic);

- ergonomics and safety of the work areas.
- Modular solutions with quick reconfiguration for different beam sizes are also available.



Robotic center for welding of freight wagons cross beams



Wagons cross beam welding fixture



Multipurpose stand for wagon underframes assembly and welding



Assembly stand for end beams of gondola wagons



Assembly and welding line for body bolster beams



Robotic center for welding of cross beams

Equipment for the production of center sills

Our equipment is engineered for the precise assembly, secure fixation, and high-quality welding of center sills for a wide range of freight wagon frame models. It guarantees exceptional geometric accuracy, superior weld integrity, and consistent, reliable production efficiency.

Our solutions include:

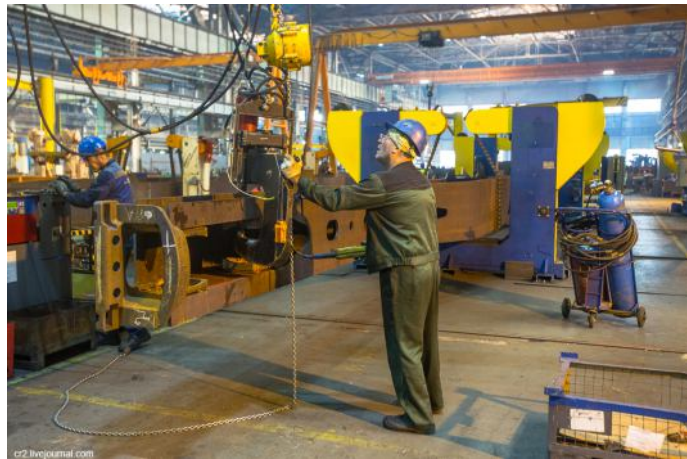
- automated and semi-automated lines for the assembly of profile components, ensuring high-precision positioning;
- welding modules utilizing MIG/MAG and submerged arc welding (SAW) technologies, including options for process robotic automation;
- fixation and centering systems that prevent deformation and deviations from specified geometry during welding;
- inspection and measurement equipment for prompt verification of finished product parameters;
- integration into existing production workflows, considering logistics, labor intensity, and the Customer's technical requirements.



Automated welding fixture for center sills of tank wagons



Assembly jig for center sills



Chain rotator



Assembly stand for center sills of tank wagons



Center sill assembly fixture



Automatic welding stand for center sill and I-beam welding



Automated robotic welding complex for center sills of freight wagons



Ring-type rotator



Automatic welding stand for center sill and I-beam welding



Automatic welding stand for variable cross-section I-beams

Equipment for the wagon frames production

Our company specializes in the design and production of custom assembly and welding stands for freight and passenger rail wagon frames, fully adapted to the customer’s technical specifications and design constraints.

Our solutions ensure high geometric accuracy, ease of operation, and maximum reliability under the demanding conditions of heavy-duty manufacturing environments. The fixtures are designed using advanced 3D modeling technologies, and manufacturing is carried out in full compliance with all quality and safety standards.

- Key advantages of our stands:
- high precision in component positioning;
 - robust and reliable structural design;
 - adaptability to different frame types;
 - easy maintenance and upgrade options.



Gondola wagons underframes assembly and welding stand



Drilling and riveting stand for underframes



Hopper car frame positioner



Hanging rotator



Headstock and tailstock positioners



Multipurpose stand for wagon underframes assembly and welding



Robotic complex for welding frames

Equipment for the production of walls

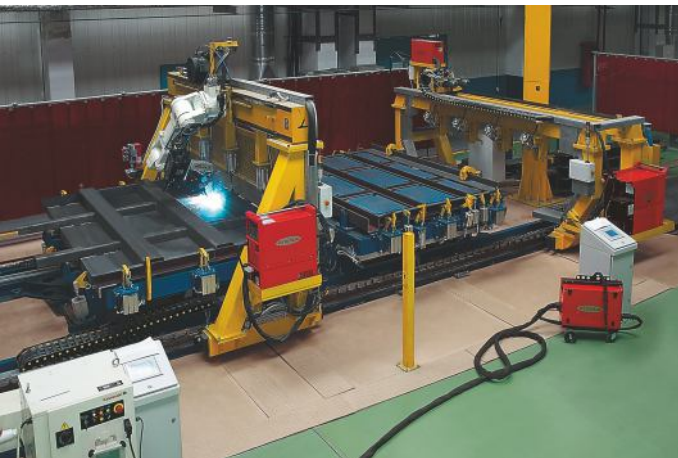
We offer specialized equipment for mechanized and automated assembly and welding of freight wagon sidewalls. Our solutions are focused on high productivity, assembly precision, and the long-term durability of welded joints.

Our product range includes:

- assembly stands for side and end wall structures;
- welding units;
- fixation and positioning systems for structural components;
- custom solutions for both standard and non-standard railcar platforms.

The equipment is designed for intensive operation in

serial and large-scale production environments. Customization is available to meet specific customer requirements, including dimensions, weight, assembly layout, and applicable welding standards.



Robot-aided stand for gondola wagon end walls assembly and welding



Robot-aided stand for gondola wagon end walls assembly and welding



Plant for assembly and automatic welding of gondola wagon side walls



Plant for assembly and automatic welding of gondola wagon side walls

Equipment for the production of roofs

Techvagonmash offers comprehensive solutions for the design and manufacturing of specialized equipment for the assembly and welding of freight wagon roofs of various types — including hopper wagons, boxcars, and baggage wagons.

Our technologies ensure:

- high precision of welding operations in full compliance with the stringent requirements of the railway industry;
- increased productivity of assembly lines through automation and ergonomic design;
- reliability and operational safety of the equipment;
- a tailored approach to each project — we develop solutions based on the specific needs of your

production process.

We offer both individual welding stations and fixtures, as well as fully integrated turnkey assembly lines. Our team has extensive experience in delivering projects for leading rolling stock manufacturers and provides a high level of technical support throughout all stages of cooperation.



Multipurpose stand for assembly of boxcar roofs



Multipurpose stand for hopper cars roof assembly and welding



Multipurpose bench for assembly and welding of baggage wagon roofs



Multipurpose stand for hopper cars roof assembly and welding

Riveting equipment

When it comes to manufacturing freight components where structural strength and longevity are paramount, reliable riveting is key. Our purpose-built riveting machines guarantee consistent joint quality and significantly boost production efficiency.



Center sill riveting plant



Riveting installation



Rivet heater



Hydraulic clamp

Gondola wagon hatch production lines

This production line is intended for the assembly and welding of hatch covers for freight wagons. The workflow is organized as a conveyor-based continuous assembly process.



Gondola wagon hatch production line



Gondola wagon hatch production line



Hatch cover welding positioner

Equipment for the production of wagon bodies

The company delivers a full-cycle solution — from design and manufacturing to implementation of specialized technological equipment, including:

- assembly jigs and fixtures for the construction of frames and body panels;
- welding systems offering automatic, semi-automatic, or manual welding capabilities, tailored to the dimensions and geometry of the products;

- transport and positioning systems for precise movement and fixation of components during assembly and welding processes;
- modular and robotic stations seamlessly integrated into existing production lines.



Stand for hopper cars bodies assembly



Assembly stand for gondola wagon body



Positioner for wagon body

Lifting jacks

Lifting jack systems are designed to perform technological operations involving the lifting of equipment during manufacturing, repair, and maintenance of rolling stock.

- Lift control is operated via one of four control panels, selectable by the operator;
- full synchronization of lifting drive units ensures smooth and balanced operation;
- the control and signaling system's component base includes automatic circuit breakers, contactors, and overload relays from Moeller and Siemens (Germany);
- lifting jack systems are suitable for both outdoor (specialized weatherproof design) and indoor use;
- equipped with visual and audible alert systems and sensor arrays to guarantee uniform lifting performance.



Stationary jacking unit — 60 ton capacity



Stationary jacking unit — 160 ton capacity



Mobile jacking unit — 28 ton capacity



Mobile jacking unit — 28 ton capacity

Automated drilling complexes

Techvagonmash offers advanced automated drilling complexes specially designed to meet the needs of rolling stock manufacturing enterprises. Our equipment incorporates cutting-edge technologies, delivering high productivity, precision, and reliability in component processing.

Advantages of Automated Drilling Complexes from Techvagonmash:

High Productivity

Our drilling complexes efficiently process large batches of components at high speed with minimal downtime. Automation eliminates equipment idle time, significantly increasing overall production output.

Maximum Precision

Equipped with advanced CNC systems and high-quality components, our complexes ensure precise drilling accuracy — critical for rolling stock manufacturing where every millimeter counts.

Resource Efficiency

Automation reduces energy and material consumption, optimizing production costs. Additionally, automatic process control minimizes errors and defective products.

Flexibility and Adaptability

Our complexes easily adapt to specific production needs. You can configure the equipment to drill components of various sizes and shapes, meeting any customer requirements.

Reliability and Durability

Constructed from high-strength materials, the equipment offers a long service life with minimal maintenance expenses.

Seamless Integration into Production Lines

Our drilling complexes integrate smoothly into existing automated lines and can be part of comprehensive production modernization solutions.



Automated complex for drilling of freight wagon centre sills (2 drilling gantries)



Automated complex for drilling of freight wagon centre sills (drilling gantry)



Automated complex for drilling of freight wagon frames



Automated complex for drilling of freight wagon centre sills



Line for center sill I-beam and bottom chord manufacturing

Equipment for the production of tanks

Techvagonmash has many years of experience in manufacturing specialized technological equipment for tank shell production.

We provide integrated solutions for tank shell manufacturing automation projects, including conveyor systems for the transportation of workpieces and finished products, automated welding lines for sheet panel assemblies, assembly equipment for welding shells to end caps, fully automated tank shell welding lines. All equipment is engineered in accordance with the customer's production program and specific facility conditions.



Tank shell assembly and welding line



Tank shell assembly and welding line



Sheet welding jig



Stand for hydraulic and pneumatic tests of tanks



Plant for making drains in the bottom of tank shells



Tank shell-to-end cap assembly station



Roller beds



Stand for welding tank shells



Stand for assembly, welding and trimming of tank container heads

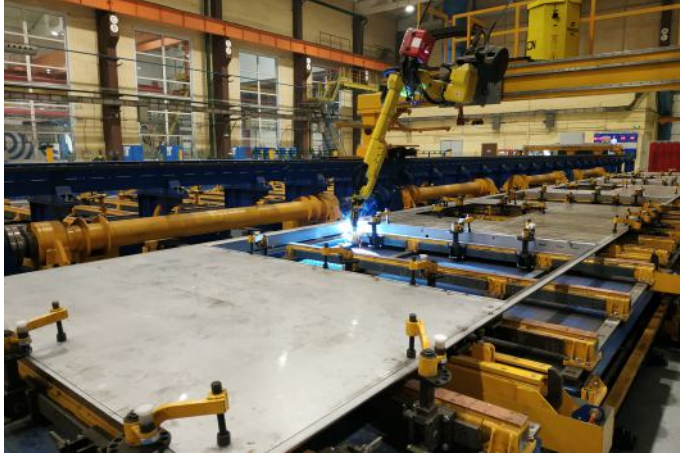
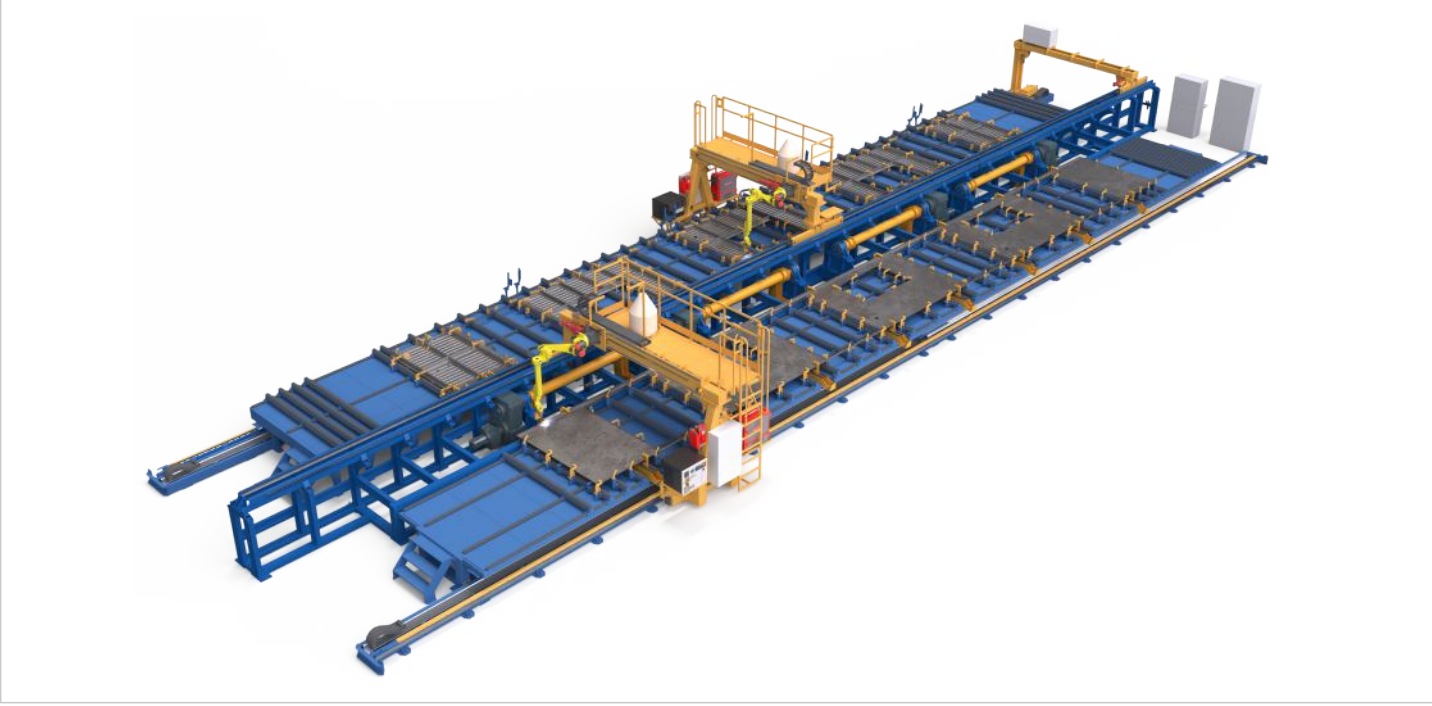
Robotic complex for welding metro car roofs

This flexible robotic system is engineered for high-precision assembly and welding of metro car roofs. With rapid retooling functionality, it seamlessly adapts to produce two distinct roof models. Interchangeable fixtures enable efficient and accurate assembly of both roof frame types, ensuring optimized throughput and production versatility.



Robotic complex for assembly and welding of sidewalls of metro car bodies

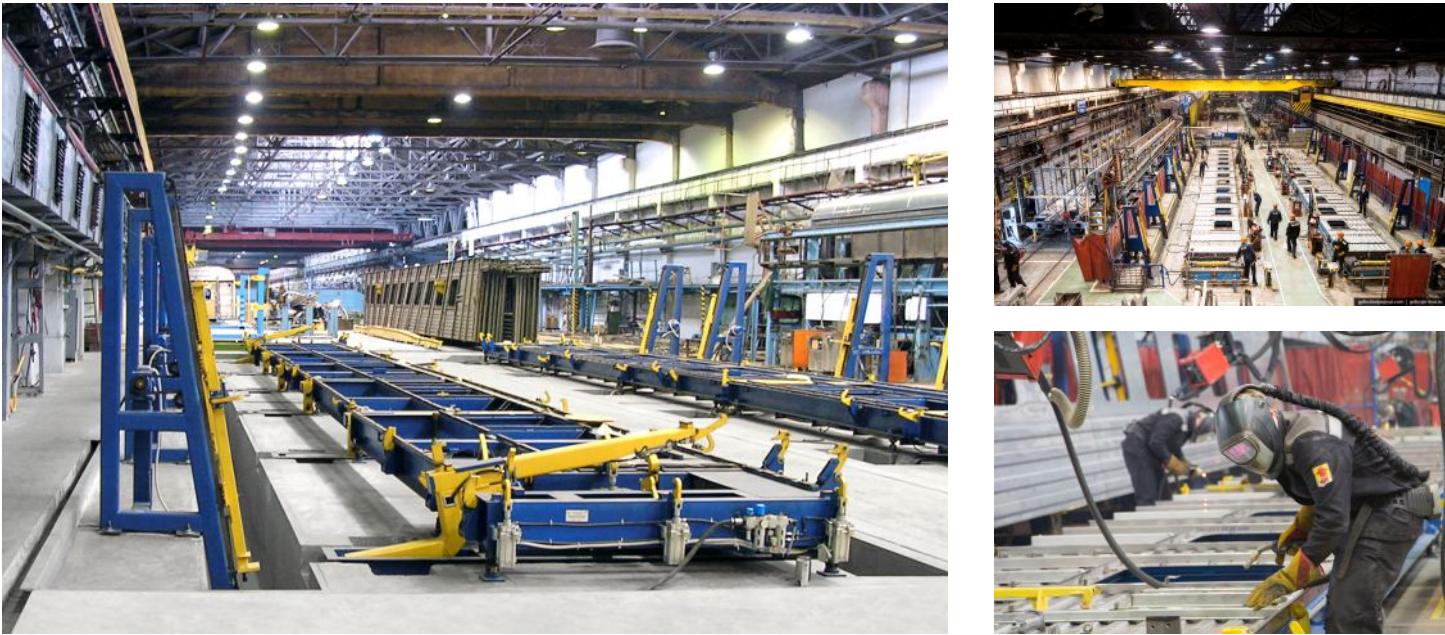
The robotic system is designed for automated assembly and welding of metrowagon body sidewalls, delivering high precision, repeatability, and production efficiency. This solution provides full integration of clamping, positioning, welding, and quality control processes within a unified production cycle.



Multipurpose automated welding station for metro wagon roof panel sections



Jig for assembly and welding of passenger wagon side walls



Multipurpose stand for metro wagon roof assembly



Multipurpose stand for assembly and welding of passenger wagon underframes



Equipment for tram production



Assembly stand for railway bogie frames



Assembly stand for railway bogie frames



Assembly stand for railway bogie frames



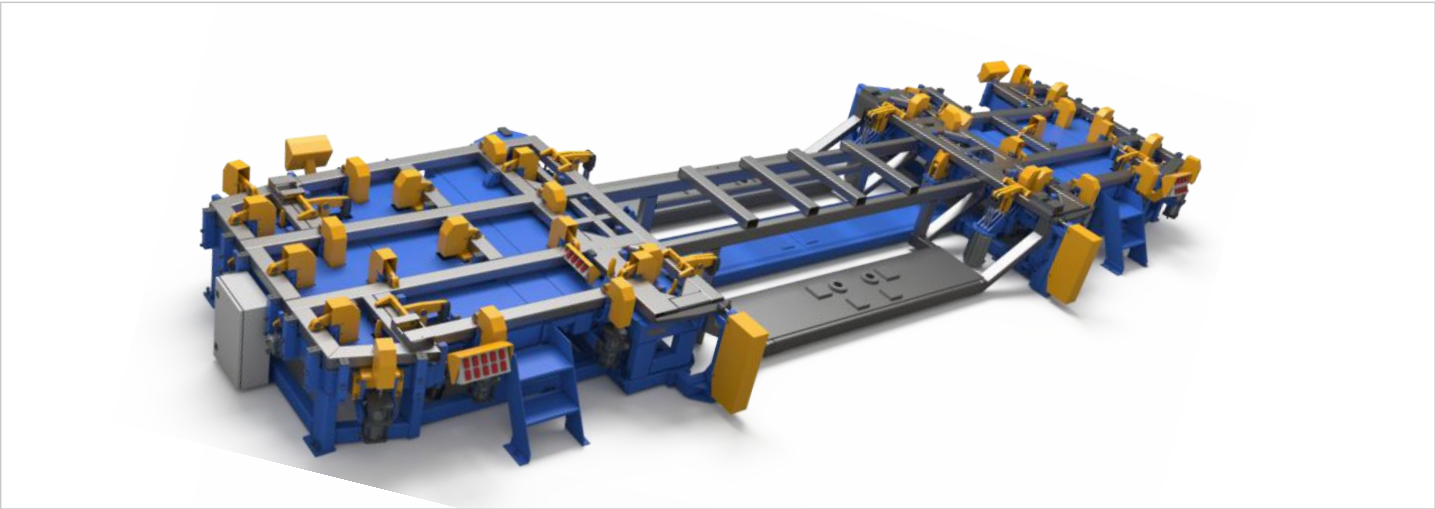
Assembly station for railway bogie frame beams



Robotic center for tram roof welding



Welding and drilling stand for tram sections coupling frames



Multipurpose assembly stand for front and rear tram frame structures



Multipurpose assembly stand for side walls

Positioners

Welding positioners are designed to securely lift, rotate, and position metal structures for optimal access during welding operations.

Welding positioners provide optimal workpiece orientation, allowing welders to operate in a comfortable position — significantly improving both weld quality and overall productivity. The positioner is equipped with visual and audible warning signals for enhanced operational safety. A ball screw lift mechanism with a safety nut

ensures smooth and secure vertical movement. The control system synchronizes the lifting drives for precise and stable positioning. To accommodate frames of varying lengths, one of the positioner support columns is equipped with a motorized travel mechanism.



Headstock and tailstock positioners, load capacity 4 tons



Headstock and tailstock positioners, load capacity 30 tons



Headstock and tailstock positioners, load capacity 10 tons



Headstock and tailstock positioners, load capacity 15 tons

Positioners (special design)

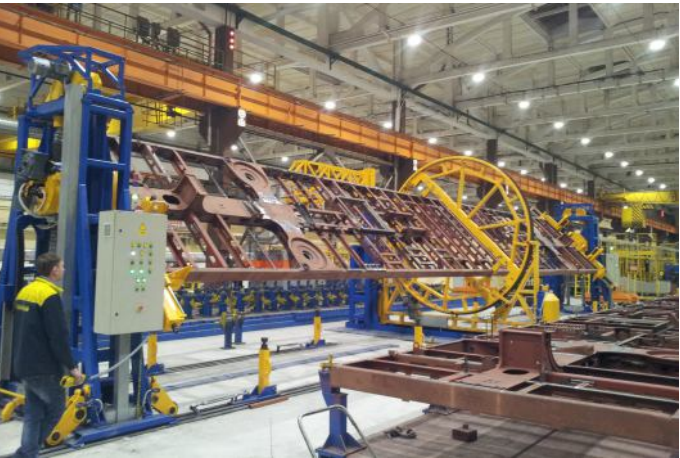
We offer both standard, serially produced equipment and customized solutions — designed and manufactured taking into account the specific structural features of the product and the customer's production conditions.



40-Ton frame positioner for electric locomotives



Positioner stand for floor deck welding and under-carriage equipment assembly



Multipurpose positioner for metro wagons frames welding



Positioner for passenger wagon roof

Automated storage systems for metal products

Automated metal storage systems are an advanced solution for organized, high-capacity storage and real-time control of diverse metal stock.

In automated storage systems, metal products are stored in dedicated trays that, once loaded, are automatically transferred to designated storage locations. This innovative storage method enables the creation of substantial raw material reserves directly adjacent to processing equipment, significantly streamlining production workflows.

Key advantages of implementing an automated metal storage system include:

- optimization of in-plant logistics;
- simplification of the production flow;
- reduced lead time for delivering metal stock to the production line;
- automated inventory control and monitoring;
- significant reduction in required storage space;
- decreased demand for manual labour and warehouse personnel.



Automated storage systems



Automated sheet metal storage system



Automated storage system for structural steel profiles



Automated sheet metal storage system



Automated sheet metal storage system

Automated storage systems

Automated storage systems are an innovative solution for modern businesses, significantly simplifying and accelerating the processes of storing and handling goods. These systems ensure optimal use of warehouse space, boost productivity, and minimize the risk of human error.

Advantages of automated storage systems:

- Maximum capacity.**
Rack-based systems utilize vertical space to its fullest, significantly increasing usable storage area.
- Speed and precision.**
Robotic mechanisms and automated conveyors ensure fast and accurate handling of goods.
- Resource efficiency.**
Reduced manual labour lowers staffing costs and minimizes handling errors.
- Integration with IT Systems.**
Seamless connection with ERP and WMS platforms enables full real-time control and monitoring of inventory movement.
- Safety.**
Minimizing manual operations reduces the risk of workplace injuries and improves employee safety.

Where automated storage systems are used:

- Logistics centers
- Manufacturing facilities

- Retail chains and distribution hubs
 - E-commerce businesses
- Why choose us:**
- Tailor-made solutions to meet your specific business needs.
 - Cutting-edge technologies and reliable systems from leading global manufacturers.
 - Guaranteed quality and support at every stage — from design to maintenance

Automated racking storage systems are your path to reducing operational costs, accelerating order processing, and boosting your competitiveness on the market!



Automated rack-type storage system



Automated lift-type storage system

Shot blasting equipment

Our enretrise specializes in the design and manufacture of shot blasting machines for various applications.The equipment is intended for abrasive treatment of metal surfaces, including removal of scale, rust, and burrs, as well as surface strengthening and preparation for coating.

Key areas of expertise:

- designing shot blasting systems tailored to customer requirements, product specifications, and operating conditions;
- manufacturing equipment of various types: suspended, roller conveyor, and chamber systems;
- developing customized solutions for specialized cleaning, strengthening, or surface preparation tasks;
- integrating equipment into production lines, automating processes, and selecting and configuring abrasive feed and recycling systems;
- providing comprehensive technical support including commissioning, staff training, and maintenance services.



Shot blasting machine for cleaning sheet and profiled metal products



Shot blasting and preservation line



Shotblasting chamber with a turntable



Shot blasting chamber with hanging workpiece



Shot blasting chamber for blast cleaning of welded metalwares

Blast rooms

Blast rooms provide efficient and reliable abrasive treatment of metal surfaces — ideal for removing rust, scale, old paint, and preparing components for high-quality coating.

Key features:

- chamber dimensions are customized to project specifications
- integrated ventilation and air purification systems
- abrasive recycling and separation units
- lighting, noise reduction, and operator safety systems
- optional automation and integration with material handling lines

Applications:

Mechanical engineering, shipbuilding, steel structures, railcar refurbishment, aerospace industry, and more.

Available options:

- floor conveyors, carts, and roller conveyors
- rotary tables and manipulators
- dust collection systems (cartridge or bag filters)



Blast rooms



Blast rooms with lifting platforms



Shot blasting machines



Filter ventilation unit



Wagon frame transfer trolley

Painting and drying chambers

One of the core areas of Techvagonmash is the design and manufacture of painting and drying chambers. Our clients include major transportation engineering enterprises, metal structure manufacturing plants, and energy engineering companies. The chambers are custom-designed and built to meet the specific requirements of each customer, tailored to their product range and production conditions.

Efficient filtration system

The chamber’s filtration system is designed for use with both water-based and solvent-based paints. To remove solvent vapors from the air, the chamber is equipped with activated carbon filters.

High thermal capacity

The heat generators are rated for operation in harsh climatic conditions with air temperatures as low as -40°C.

Reliability

The chamber electric motors are resistant to unstable power supply. Chambers feature roller-type doors with electromechanical drives.

Effective ventilation system

The ventilation system is designed to maintain an airflow velocity of 0.2–0.3 m/s, ensuring high-quality coating application and efficient removal of paint overspray.

User-friendly operation

Equipped with roller-type doors powered by electromechanical drives, these chambers avoid the

misalignment issues common with traditional swing doors during operation.

Advanced materials

The chamber body is a load-bearing structure made from aluminum tubing and double-layer galvanized steel panels insulated with polyurethane foam. Panels are assembled using a tongue-and-groove system, which significantly reduces installation time.



Painting and drying booth for wagons



Painting and drying booth (with degreasing feature)



Transfer trolley

Integrated lines for surface preparation and painting

Techvagonmash is a leading manufacturer of innovative integrated lines for surface preparation and painting of industrial products. Our solutions ensure high-quality treatment, durable coatings, and optimized production processes.

Our lines include:

- automated surface preparation, which covers cleaning, degreasing, phosphating, and other pretreatment stages;
- advanced painting systems that ensure coatings with superior adhesion, uniformity, and resistance to environmental factors;
- energy-efficient and environmentally friendly technologies aimed at reducing material consumption and minimizing emissions;
- flexibility adapted to your needs through designing and manufacturing lines based on

the specific features of your production.
Techvagonmash has successfully completed projects manufacturing painting lines for:

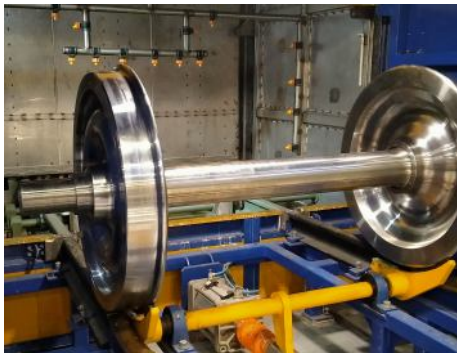
- railway wheels;
- wheelsets;
- railway axles.



Railway wheels painting line



Wheelset painting line



Rail transport transfer systems

Traversers are modern high-tech devices designed to transfer railway trains between tracks at industrial facilities, depots, and repair workshops. They serve as an indispensable tool for enhancing flexibility and optimizing logistics operations within railway infrastructure.

Key advantages of traversers:

Space efficiency

Traversers enable the optimal use of railway tracks and facility space by eliminating the need for multiple maneuvering tracks. One traverser can replace complex rail junction systems.

High performance and speed

Equipped with automated control systems, our traversers ensure fast and precise movement of railcars and locomotives. This significantly reduces downtime, which is crucial under intensive operation conditions.

Robust construction and reliability

Manufactured from high-quality materials, traversers withstand heavy loads and harsh climatic conditions. They are designed for long service life with minimal maintenance costs.

Safety and precision

Modern safety systems guarantee reliable traverser operation, preventing accidents. Accurate railcar positioning helps avoid damage to rolling stock and infrastructure.

Automation and integration

Our traversers feature advanced automated control systems that allow seamless integration into the overall railway network management system of your facility, simplifying transport flow control and management.

We offer customized solutions tailored to the specific requirements of your facility. Our traversers are adapted to operate under any conditions — from standard sites to complex logistics hubs with high traffic intensity.



Traverser for electric locomotive transfer with a load capacity of 150 tons



Traverser for freight car transfer with a load capacity of 60 tons



Traverser for electric locomotive transfer with a load capacity of 120 tons



Traverser for freight car transfer with a load capacity of 60 tons



Traverser for freight car transfer with a load capacity of 60 tons

Turntables, conveyors, transfer trolleys

Modern transportation engineering enterprises demand highly efficient and reliable solutions for organizing transport processes. We offer next-generation technological transport equipment specifically designed for railcar manufacturing, including turntables, conveyors, and transfer trolleys. Our equipment helps optimize production workflows, enhance logistics, and improve safety at every stage of railcar assembly and transportation.

Turntables

Our rotary tables are high-precision systems designed for maneuvering railcar structures within confined spaces. Their capabilities ensure smooth 360-degree rotation of heavy loads, simplifying assembly and movement processes.

- High load capacity: up to 100 tons and above
- Easy operation and seamless integration into existing production lines
- Reliable safety systems that guarantee protection of personnel and equipment

Conveyors

Our conveyor systems help automate the transport of components and finished railcars across assembly workshops, reducing transit time and minimizing manual labor. Conveyors are engineered to handle heavy and oversized loads.

- High speed and throughput
- Modular design allowing easy customization to suit your production needs
- Low operating costs thanks to energy-efficient solutions

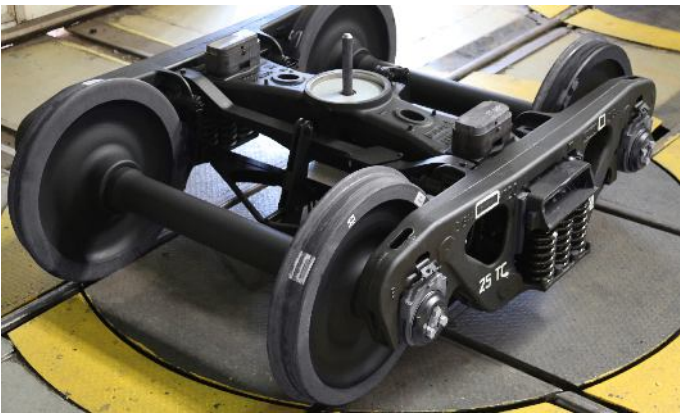
Transfer trolleys

Transfer trolleys are indispensable tools for moving railcar parts and finished products around the facility. Our trolleys deliver reliable performance even under the most demanding conditions.

- High maneuverability and precise movement.
- Available in electric and manual drive models.
- Customized solutions for any dimensions and load capacities



Railway turntable



Turntable for bogies



Transfer platform



Suspended conveyor system



Conveyor for moving wagons

Elevated access platforms

Elevated access platforms are designed to lift and move personnel vertically while performing assembly, filling, and sanding operations on railway wagon bodies. They provide safe and convenient working conditions at height.

The platforms are equipped with two control panels, — one located directly on the platforms and the other installed on the main control cabinet. The control system is designed to ensure safe operation, preventing the platforms from being raised when safety gates are open or transition ladders to the roof are lowered. The lifting platforms feature both audible and visual alarms to signal upward or downward movement. Additionally, a warning indicator alerts personnel when the platforms are elevated and work is in progress, preventing accidental entry or the presence of objects in the lowering zone. Emergency stop buttons are installed on the lifting columns and the platforms themselves. The cabinet-mounted control panel offers secure access via a coded key tag, allowing the operator to raise or lower the platforms from the ground in the event of an emergency or irregular

situation. To prevent accidents, the platform structure is specifically designed to eliminate any gaps that could allow foreign objects or personnel to become trapped between adjacent platforms or between the platforms and side/end walkways. Pneumatic connectors are integrated into the platforms, enabling quick and convenient connection of hand-held pneumatic tools.



Elevated access platforms



Elevated access platforms



Explosion-proof elevated access platforms



Elevated access platforms with side extension mechanism



Elevated access platforms with end walkways

Axle-box unit and bearings dismantling and washing system

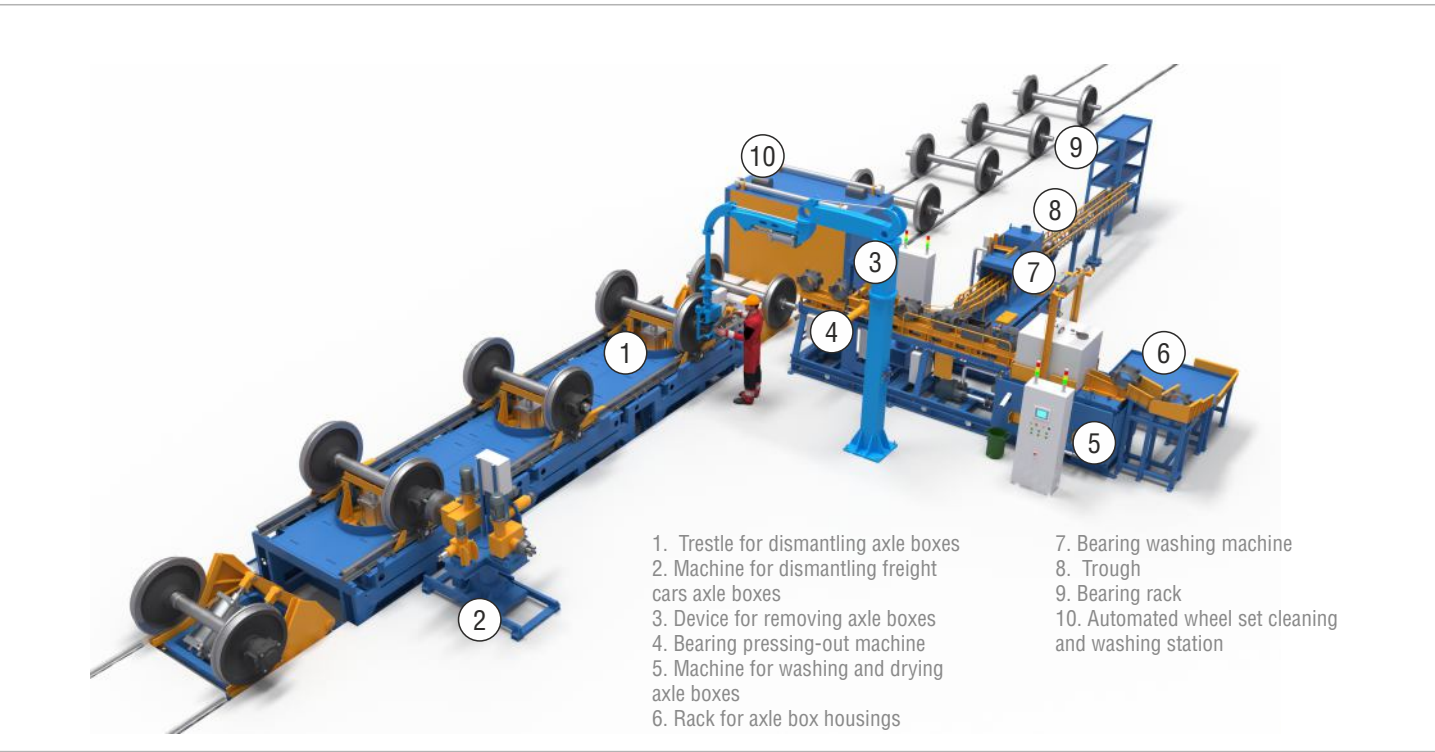
This system is designed for use at railcar maintenance facilities, including wagon depots and wheelset repair shops. It provides efficient dismantling and cleaning of axle-box assemblies and bearings, supporting high-quality overhaul processes.

The system performs the following technological operations:

- lifting and transferring the wheelset along the overpass;
- unbolting all fasteners of the axle-box assembly and unscrewing the M110 nut using a dedicated dismantling stand;
- removing both axle-boxes from the wheelset axle and transferring them, via a manipulator, to the station for automated bearing dismounting and washing;

washing;

- removing both axle-boxes from the wheelset axle and transferring them, via a manipulator, to the station for automated bearing dismounting and washing;
- pressing out the bearings from the axle-box housing;
- washing the axle-box housings;
- washing the bearings.



Axle box unit and bearings dismantling and washing system



Trestle



Bearing cleaning machine



Automated wheelset cleaning system



Axle box removal manipulator

About the enterprise



With four decades of expertise, Research-and-production enterprise «Techvagonmash» specializes in the design and manufacture of cutting-edge equipment tailored for the transport engineering sector. As the proud successor of VNIPTivagon —the prestigious All-Union Scientific Research Institute of Railcar Engineering —Techvagonmash continues to lead innovation and set industry standards in the development of transport engineering enterprises.

Our core areas of expertise include:

- comprehensive design and outfitting of transport engineering enterprises;
- design and manufacture of specialized technological equipment for railcar production;
- technological equipment for railcar repair;
- robotic welding complexes;
- shot blasting and abrasive blasting equipment;
- paint spraying and drying booths;
- filtration and ventilation systems.

Fields of activity

Painting and drying booths

Design and manufacture of paint spraying and drying booths for coating rolling stock, heavy-duty trucks, and large welded metal structures.



Shot blasting and abrasive blasting equipment

Equipment for cleaning sheet and profile metal, pipes, welded metal structures, and large-scale castings.



Automated drilling complexes

Equipment designed for high-efficiency coordinate machining of parts without the need for preliminary marking or the use of jigs.

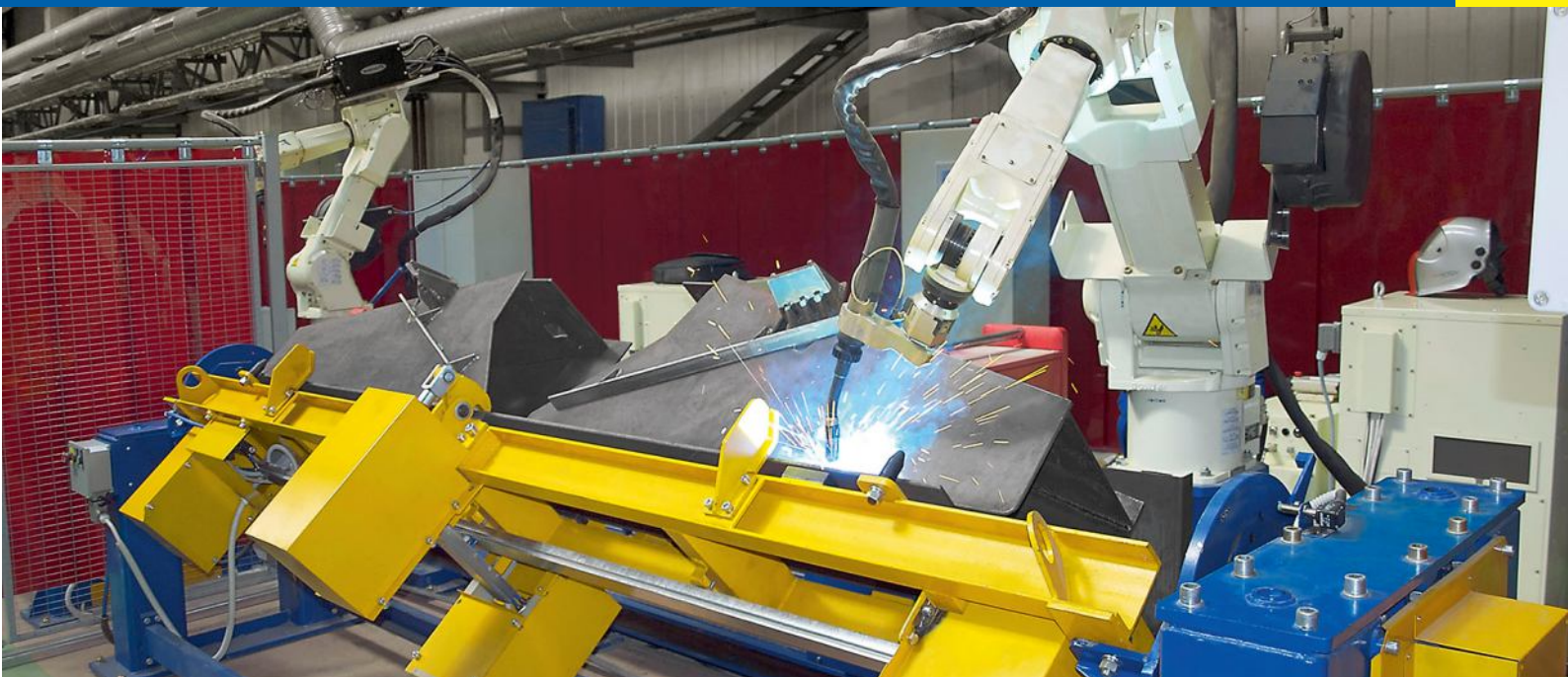
Operations performed include drilling, reaming, countersinking, and threading.



Robotics and automation of welding production

Design and manufacture of specialized technological equipment for the automation and robotic integration of welding processes.





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