

ABOUT THE COMPANY





qualityaustria

SYSTEMZERTIFIZIERT

ISO 9001:2008 NR.17868/0
NR.00040/0
NR.00040/0

Independent audit, performed by the representatives of Quality Austria — a world leader in the sphere of quality management systems certification confirmed the compliance of the Research and Production Enterprise «Techvagonmash» quality management system to the requirements of international standard ISO 9001:2008.

Research and production enterprise «Techvagonmash» has a forty-year experience of design and manufacturing of special process equipment for enterprises of transport machine building.

Our company is a legal successor of VNIPTIvagon (All-union scientific research design-technological institute of rail-waycar building) — head technological organization on design of transport machine building enterprises.

The main areas of the company's activity are:

- comprehensive design and equipping of transport machine building enterprises;
- design and manufacturing of special process equipment for railroad cars manufacture;
- process equipment for railroad cars repair;
- ▶ robot-operated welding units;
- shotblasting equipment;
- paint booths;
- ▶ filter-ventilating equipment.

Research and Production Enterprise Techvagonmash is certified for compliance to the following requirements of international standards:



- EN 1090-1:2009+A1:2011 - «Execution of steel structures and aluminium structures. Requirements for conformity assessment of structural components».













TURNKEY PROJECTS

Vast experience, technological and manufacturing abilities allow us implementing turnkey projects in the following areas:

- Vessels manufacturing;
- Manufacturing of towed vehicles and attached implements for commercial transport;
- Rail social transport manufacturing;
- Freight cars manufacturing.





Our competitive advantage is that the company renders a full package of services: from designing stage to supervised installation and commissioning stage including manufacturing of special process equipment.

PRE-DESIGN WORKS

Pre-design works allow to assess the feasibility of the project in certain conditions, evaluate the cost and the terms of the work performance, and discover the problems which may occur in the process of project implementation.

PROCESS ENGINEERING PART OF THE DESIGN
When developing the process design, the issues of main equipment choice are determined as well as process engineering, labor intensity calculation, flow process chart, functional and organizational structures development.

EQUIPMENT DESIGN
All the developments and designing of the output products are carried in automated way using up-to-date CAD-systems.

PROCESS EQUIPMENT MANUFACTURING
The company has its own production facilities which allows manufacturing high-quality, high-tech equipment.

SUPERVISED INSTALLATION AND COMMISSIONING

- installation and commissioning;
- designer supervision;

SFRVICING

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- training of the Customer's specialists;
- adjusting of engineering processes and output of a product trial lot.

PERSONNEL TRAINING
Customer's personnel are trained to operate the equipment, carry out its setting, diagnostics and servicing.

PROVING OUT OF TECHNOLOGY

Techvagonmash in cooperation with the Customer carries out the technology proving out and trial consignment production.

We provide the full range of aftersales services, immediate delivery of spare parts, and remote diagnostics of equipment (through data set).



PRODUCT RANGE

SHOT BLASTING AND PRESERVATION LINES FOR METAL-ROLL





Shotblasting chamber for cleaning of metal-roll



Spray chamber

SHOT BLASTING EQUIPMENT





AUTOMATED STORAGE SYSTEMS FOR METAL-ROLL





Automated storage system for section material

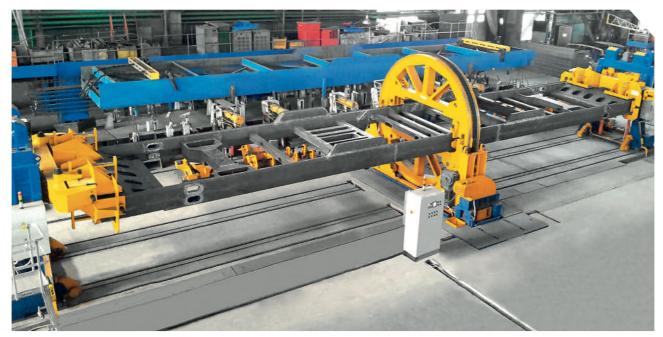


Automated storage system for sheet products

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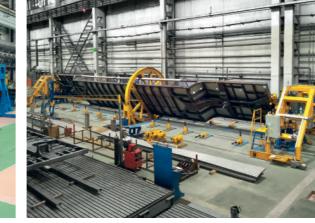
ROTATORS WITH VERTICAL LIFT



Rotator with vertical lift for electric locomotive underframes welding, load carrying capacity 40 t



Rotator with vertical lift, load carrying capacity 15 t



Rotator stand for double-deck passenger cars underframes welding, load carrying capacity 10 t



Rotator with vertical lift, load carrying capacity 4,5 t



Rotator with vertical lift for passenger cars roofs welding

EQUIPMENT FOR CAR UNDERFRAME ASSEMBLY AND WELDING



Overhead rotator



Rotator for underframe welding



Gondola car underframes assembly and welding stand



Locomotive frames assembly



Multipurpose jig for assembly and welding of passenger car underframes



STAND FOR AUTOMATIC WELDING OF CENTER SILL WITH I-BEAM







ROBOTIC CENTER FOR CENTER SILL LONGITUDINAL SEAM WELDING





CENTER SILL ASSEMBLY STAND





LINE FOR BODY SIDE FRAMES MANUFACTURING





CAR UNDERFRAMES DRILLING AND RIVETING LINE







AUTOMATED LINE FOR CENTER SILL DRILLING

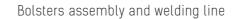






STANDS FOR ASSEMBLY AND WELDING OF CAR CROSSBEARERS







Front beams assembly stand



Intermediate beams assembly and welding line

LINE FOR ROBOTIC WELDING OF CAR CROSSBEARERS



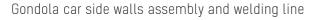






EQUIPMENT FOR ASSEMBLY AND WELDING OF SIDE WALLS







Jig-rotator for passenger car side walls assembly and welding

EQUIPMENT FOR BODY ASSEMBLY AND WELDING



Gondola car body assembly and welding stand



Rotator for body welding



Multipurpose stand for hopper cars bodies assembly

EQUIPMENT FOR ASSEMBLY AND ROBOTIC WELDING OF END WALLS







EQUIPMENT FOR CAR ROOF ASSEMBLY AND WELDING



Assembly and welding stand for passenger car roof sheathing



Boxcar roof assembly and welding stand



Multipurpose stand for metro coach roof assembly



JACKS





Mobile jacks for locomotives

Mobile jacks

TRAMS MANUFACTURING EQUIPMENT



Robotic center for tram roof welding

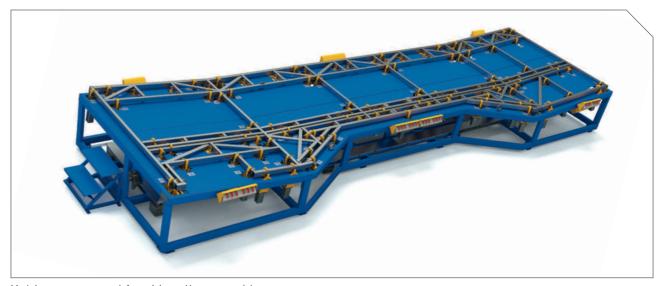
TRAMS MANUFACTURING EQUIPMENT



Tram sections joint frames welding and drilling stand



Multipurpose stand for assembly of front and rear frames



Multipurpose stand for sidewalls assembly



AUTOMATED LINE FOR CENTER SILL I-BEAM AND BOTTOM CORD MANUFACTURE







EQUIPMENT FOR GONDOLA CAR HATCH COVERS MANUFACTURE





Integrated mechanized line for assembly and welding of gondola car hatch covers

EQUIPMENT FOR TANKS AND VESSELS MANUFACTURE





Tank assembly and welding line

Head-to-shell assembly stand







Heads measuring and selection stand



Sheet assembly and welding line



Tank head assembly and welding, edges trimming stand



EQUIPMENT FOR TANKS AND VESSELS MANUFACTURE



Hydrotest stand

EQUIPMENT FOR TANKS AND VESSELS MANUFACTURE







Carrying rollers with different load capacity

WHEELS PAINTING LINE









AXLES PAINTING LINE

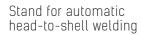




EQUIPMENT FOR RAILROAD CARS BRAKE SYSTEM MANUFACTURE









Car brake system test stand



Head-to-shell assembly stand



Shotblasting plant for cleaning of pipes inner surface



Pipes magnetic particle inspection stand



Bath for pipes testing

UTILITY VEHICLES



MOT KOTEBCKING BAF DHOCT POW TEALHING SAROQ

(S) FELLENMIN

Transfer table



Transfer table

Transporting carriage



Transfer table



Turn-table



EQUIPMENT FOR SURFACE PREPARATION AND PAINTING



Spray and drying cabinet



Lifting platforms for operators



Spray and drying cabinet



Shotblasting chamber for cars



Shotblasting chamber for car underframes

ELEVATING SCAFFOLD





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QUALITY SYSTEM

COMPANY'S POLICY IN THE SPHERE OF QUALITY ASSURANCE IS AIMED AT MEETING THE HIGHEST REQUIREMENTS OF THE CUSTOMERS, AND IT IS BASED ON OVERALL OBSEVATION OF NATIONAL AND INTERNATIONAL QUALITY STANDARDS, ON PRODUCTION CERTIFICATION AND ALL PRODUCT TYPES CERTIFICATION.

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PATENTS

Research and Production Enterprise «Techvagonmash» owns a great number o knowhow, patents and engineering solutions related to constructive decisions of output and developed products.

REFERENCE LIST

Our customers are large-scale enterprises of transport machine-building, metal structures manufacture plants, power machine building enterprises.

During the last years our enterprise has developed a number of projects and has taken part in equipping of all railroad car building plants which are under construction.

























































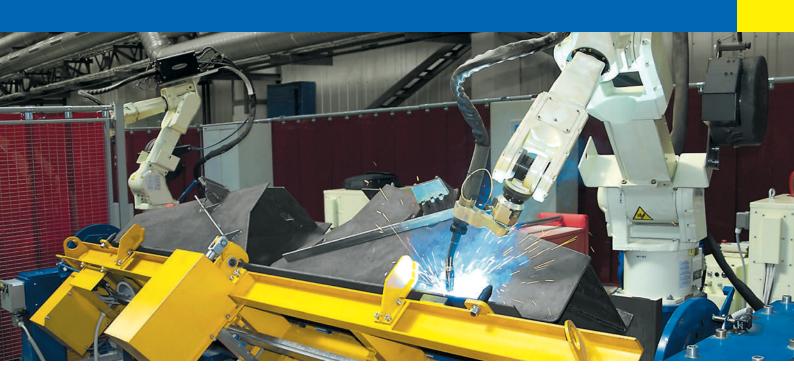












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Our Youtube channel:

www.youtube.com/user/Techvagonmash