

Research and Production Enterprise «Techvagonmash» – from design to turnkey





History of the enterprise

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



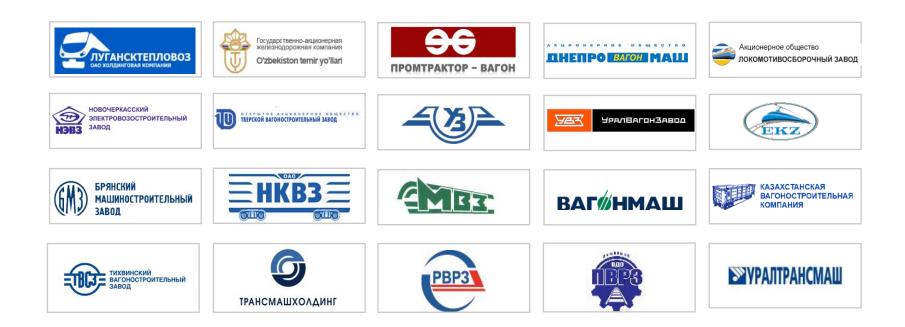
1965 – Establishment of a special design-engineering department of the equipment of the Ukrainian SSR State Planning Committee. 1972 – Establishment of the all-union scientific research and design technology institute of railway car building (VNIPTIvagon). 1982 - Putting into operation of a VNIPTIvagon pilot plant. 1988 – Establishment of a scientific and production association consisting of three institutes (VNIPTIvagon, VoroshilovgradPTIMASh, PTIMASH Kharkov and a pilot plant. 1972 - 1991 - VNIPTIvagon made designs as well as equipped almost all the railway car building enterprises of the USSR with special process equipment during this period of time. 1994 – Establishment of "Techtransmash" JSC 2003 - Establishment of "NPF "Techvagonmash" LLC 2005 - Putting into operation of its own production complex.



ABOUT THE COMPANY MAIN CUSTOMERS

Our customers are large-scale enterprises of transport engineering, metal ware manufacture plants, power engineering enterprises.

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





ABOUT THE COMPANY POLICY IN QUALITY SPHERE

Company's policy in the sphere of quality assurances aimed at meeting the highest requirements of the customers, and it is based on overall observation of national and international quality standards, on production certification and all product types certification.





ABOUT THE COMPANY PROCESS ENGINEERING DEPARTMENT

Process engineering department deals with design and research work. It performs engineering services on technology development and production organization, reconstruction, technical reequipment of transport and heavy engineering enterprises.





ABOUT THE COMPANY DESIGN-ENGINEERING DEPARTMENT

All development and design works of the manufactured equipment are computer-based – with the use of the most up-todate CAD-systems.

These systems allow to carry out the analysis of strain, loss of stability, optimization, frequency and thermal analyses, vibration and shock strengths calculations.





ABOUT THE COMPANY MANUFACTURING CAPABILITIES

Blank preparation department is fitted with up-to-date automated equipment for plasma and gas cutting, for metal bending. Cutting of profiled metal-roll is performed on the up-to-date band saw machines.

All the metal-roll going into production is descaled and derusted in the shot-blasting chamber.





ABOUT THE COMPANY MANUFACTURING CAPABILITIES

Assembly-welding department is completely fitted-up with up-todate welding equipment made by Fronius company. Welding specialists completed their training in Paton Electric Welding Institute and at present the company is undergoing certification on welding quality requirements according to ISO 3834.





ABOUT THE COMPANY MANUFACTURING CAPABILITIES

Machining department performs the whole range of machining works.

The department is fitted up with up-to-date multipurpose equipment, machining centers, equipment with CNC.





OUTPUT PRODUCTS



Special process equipment

Robotic welding centers

Utility vehicles



OUTPUT PRODUCTS



Mechanized storage systems for metal-roll

Shotblasting, shotpeening equipment

Paint booths



OUTPUT PRODUCTS: ROBOTIC WELDING CENTERS

The company is a system integrator of Fanuc and Kawasaki – the world leaders in robotics industry.





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RPE "Techvagonmash" performs comprehensive projects on robotization of welding production. We offer comprehensive solutions as well as robot-operated stations designed according to the technical assignment of the Customer and made to perform a certain task.





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OUTPUT PRODUCTS: INDUSTRIAL PAINT BOOTHS

RPE "Techvagonmash" manufactures paint booths for painting of a rolling stock, freight cars, large-size welded metalware.





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OUTPUT PRODUCTS: AUTOMATION IN WELDING

We have experience in making of automatic welding stations: for welding of stainless and carbon steel vessels 5 to 30 mm thick and with diameter from 300 to 4000 mm;





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We have experience in making of automatic welding stations: for welding of girder metalware with box section and Isection





OUTPUT PRODUCTS: MECHANIZED STORAGE SYSTEM

Mechanized storage systems for metal-roll are an up-to-date storage solution for a wide range of metal-roll, its control and identification.





OUTPUT PRODUCTS: UTILITY VEHICLES

Manufacture of transport for moving locomotives, freight and passenger cars.





OUTPUT PRODUCTS: SHOTBLASTING, SHOTPEENING EQUIPMENT

Equipment for blast cleaning of steel, welded steel, large castings.





TURNKEY PROJECTS IMPLEMENTATION: FREIGHT CARS





TURNKEY PROJECTS IMPLEMENTATION: PRODUCTION OF TANK CONTAINERS





TURNKEY PROJECTS IMPLEMENTATION:

PRODUCTION OF COMMERCIAL VEHICLES





TURNKEY PROJECTS IMPLEMENTATION: SOCIAL PURPOSE TRANSPORT





THANK YOU FOR YOUR ATTENTION!