



TECHVAGONMASH - comprehensive solutions for industrial engineering

TECHVAGONMASH
COMPREHENSIVE SOLUTIONS FOR INDUSTRIAL ENGINEERING



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 RPE TECHVAGONMASH LLC



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.



Rail car manufacturing

Special technological equipment for the production of railcars



Rail car repair

Special processing equipment for the repair of rail cars



Boiler construction

Special technological equipment for the production of tanks and vessels



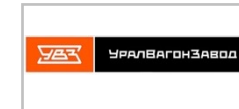
Automobile manufacturing

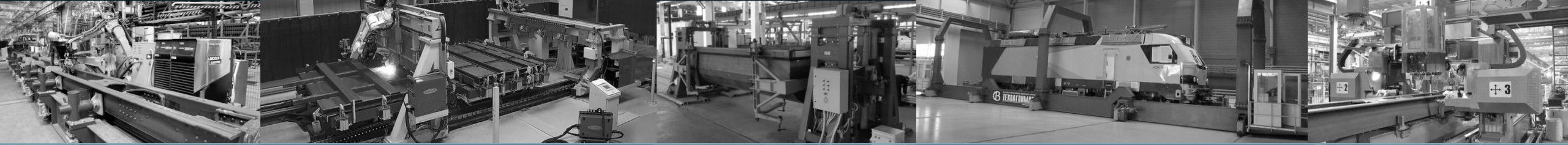
Machinery for the manufacturing of trailers and attachments for commercial vehicles



Metallurgy

Special technological equipment for pipe production





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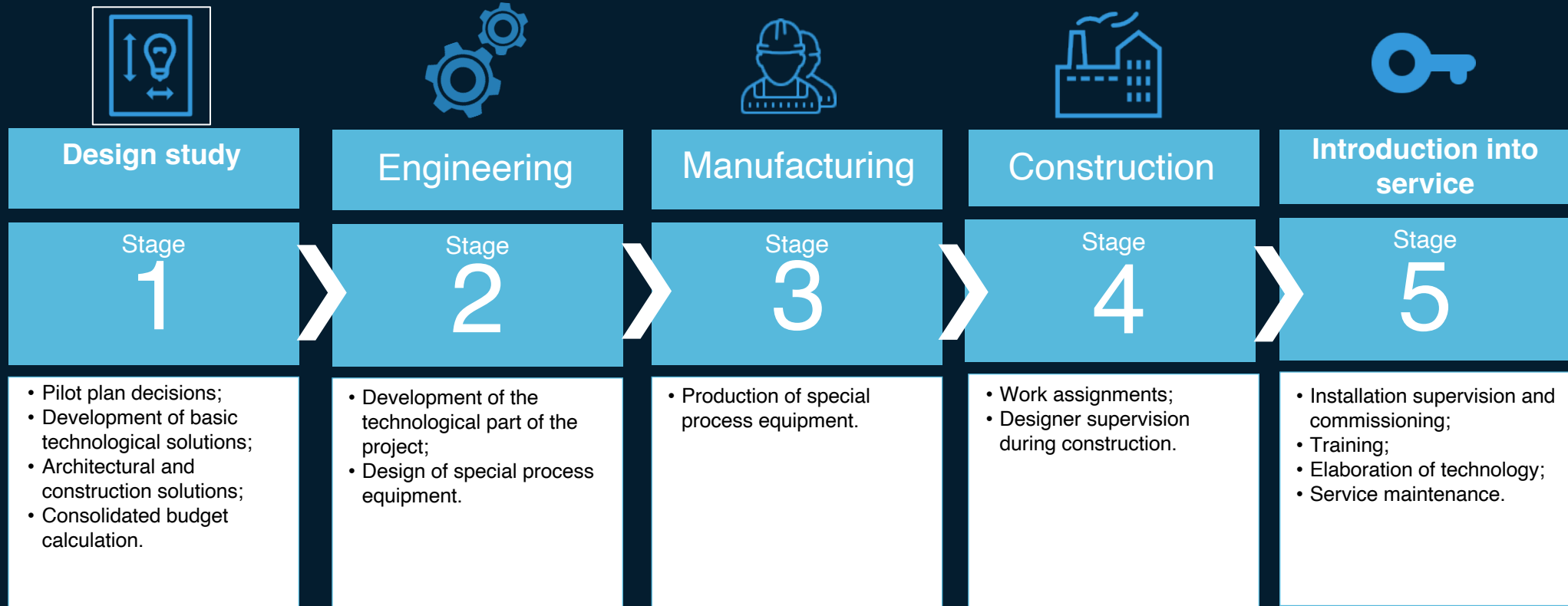
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TURN-KEY PROJECTS

One of our competitive advantages is the fact that the company provides a full range of services: from the design to the installation supervision and commissioning, including the production of special process equipment.





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

MANUFACTURING CAPABILITIES

The production capabilities of the enterprise allow working with both black and stainless steel, along the full cycle of metal products production: from task setting and design to mechanical assembly and painting of the final product.

The enterprise received certificates confirming the compliance of the production of welded metal structures with the requirements of the European standard EN 1090 and the international standard ISO 3834.





ABOUT THE COMPANY

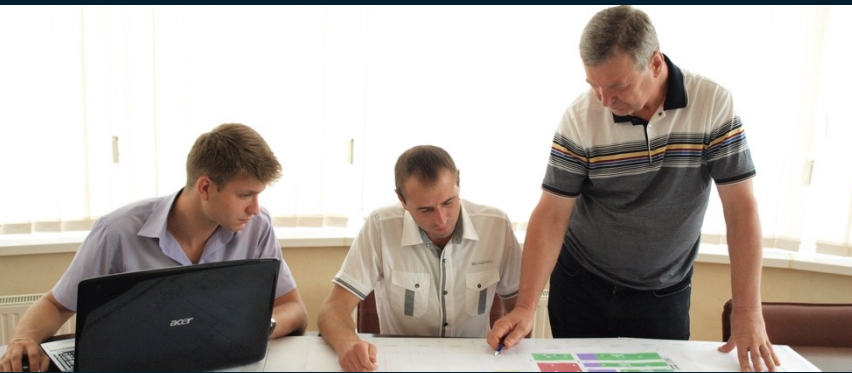
FULL CAPACITY



Design engineering department

All development and design works of the manufactured equipment are computer-based – with the use of the most up-to-date 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.



Process engineering department

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



THE MAIN AREAS OF THE COMPANY'S ACTIVITY



Special process equipment



Robotic welding centers



Utility vehicles



Mechanization of transport for pipe production



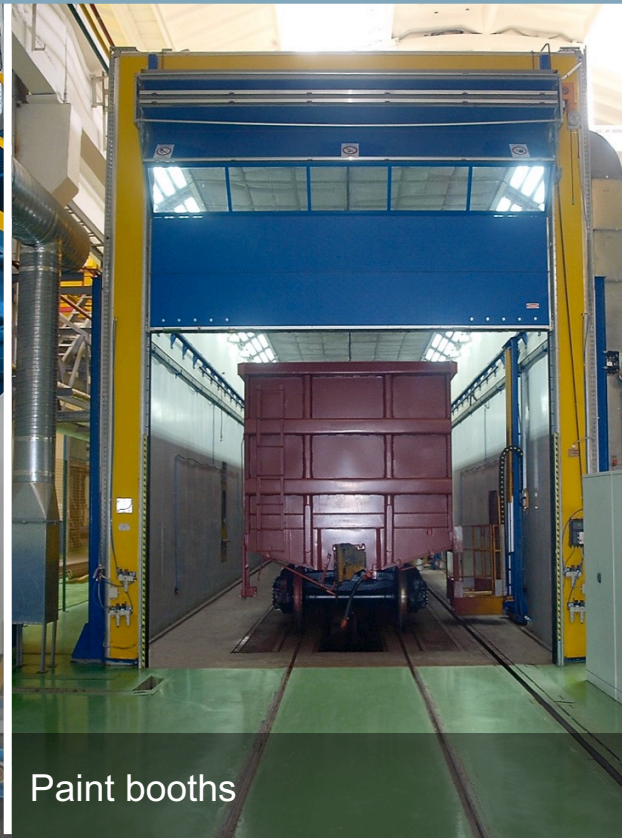
THE MAIN AREAS OF THE COMPANY'S ACTIVITY



Automated storage systems



Shotblasting, shotpeening equipment



Paint booths



Painting lines

Automated storage systems



Automated storage systems



TECHVAGONMASH | Products

Automated rack-type storage systems



Automated rack-type storage systems



Shotblasting equipment



Shotblasting equipment



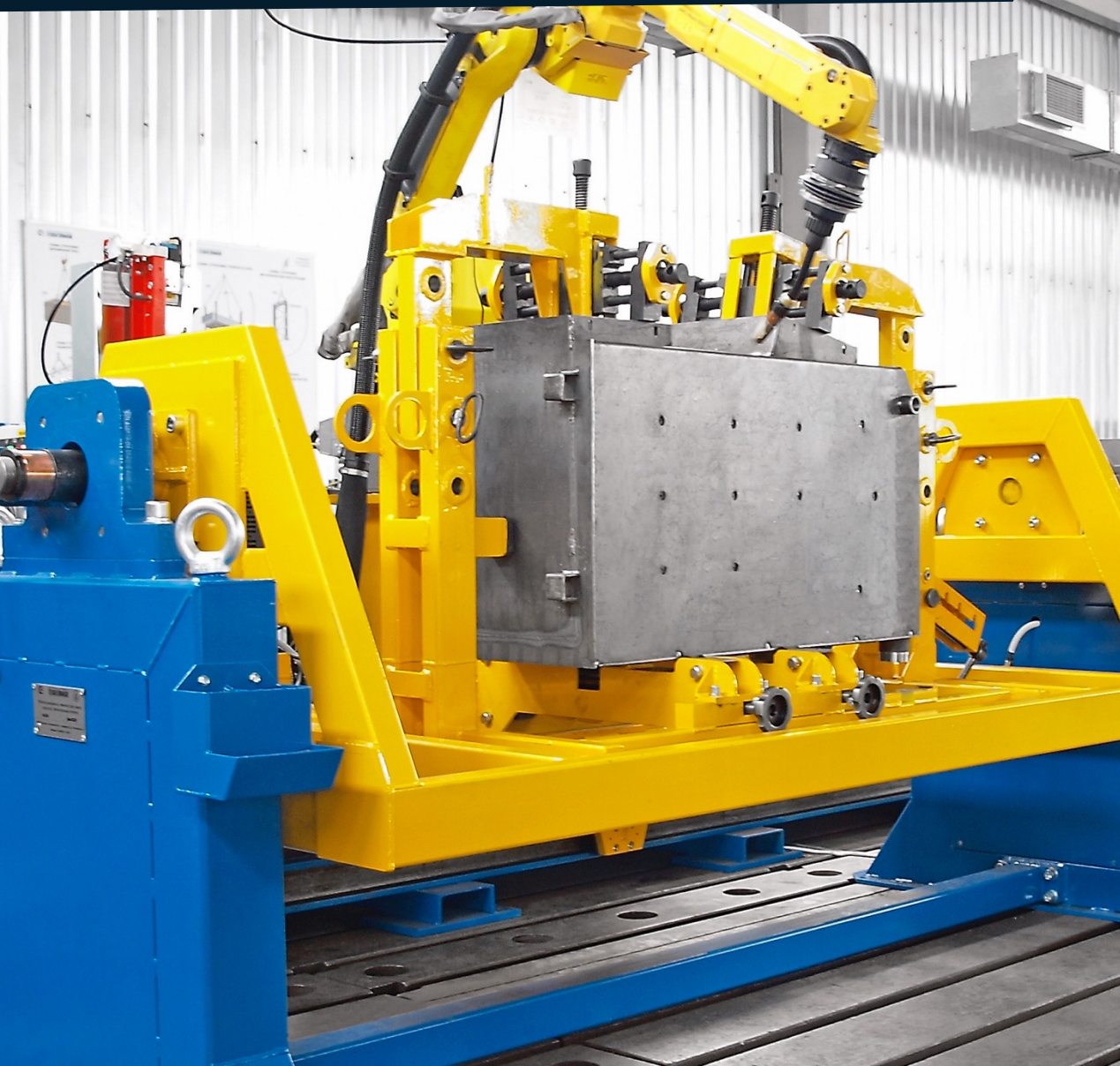
Painting lines



Industrial paint booths



Robotic welding systems



OUR PRODUCTS

Equipment for freight wagons
manufacturing

Products | Equipment for freight wagons manufacturing

Horizontal welding rotators



15 t welding rotator



4 t welding rotator



Welding rotator for gondola car body



10 t welding rotator

Horizontal welding rotators



Products | Equipment for freight wagons manufacturing

Welding rotators



Welding rotators



Products | Equipment for freight wagons manufacturing

Riveting equipment



Products | Equipment for freight wagons manufacturing

Assembly and welding stands



Products | Equipment for freight wagons manufacturing

Assembly and welding stands



Products | Equipment for freight wagons manufacturing



Multipurpose stand for car underframes assembly and welding



Assembly and welding stands



Products | Equipment for freight wagons manufacturing



Assembly and welding stands



Line for vessels assembly and automatic welding



Products | Equipment for freight wagons manufacturing



Robot-aided stand for end walls assembly and welding



Robotic center for welding of freight cars cross bearers

Products | Equipment for freight wagons manufacturing



Robotic and automatic center for freight car center sills assembly and welding

Products | Equipment for freight wagons manufacturing



Automatic welding stand for center sill and I beam welding

Products | Equipment for freight wagons manufacturing



Plant for assembly and automatic welding of gondola car side walls

Products | Equipment for freight wagons manufacturing



Automated drilling center for freight cars center sills

Products | Equipment for freight wagons manufacturing



Automated drilling center for freight cars center sills

OUR PRODUCTS

Equipment for passenger rolling stock manufacturing

Products | Equipment for passenger rolling stock manufacturing

Horizontal welding rotators



Multipurpose positioner for metro cars frames welding



Positioner for bogie frame



Positioner for frames of double-deck carriages



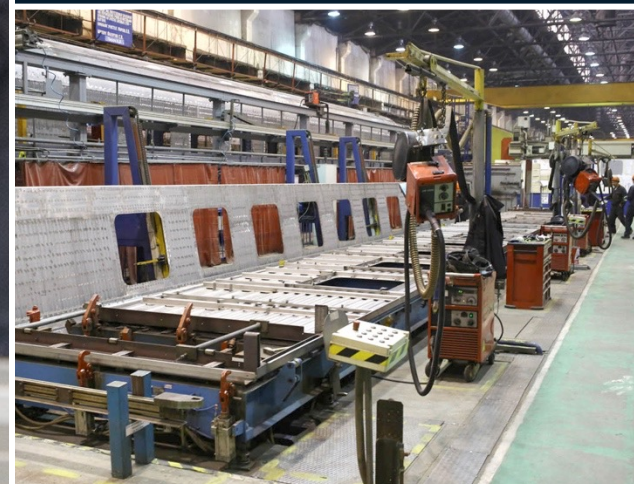
Positioner for frames of double-deck carriages



Rotator for car roof covering sections

Products | Equipment for passenger rolling stock manufacturing

Assembly and welding stands



Products | Equipment for passenger rolling stock manufacturing



Elevating access platforms

Products | Equipment for passenger rolling stock manufacturing



Multipurpose stand for metro coach roof assembly

Products | Equipment for passenger rolling stock manufacturing



Universal welding machine for automatic welding of metal section on the car roof

Products | Equipment for passenger rolling stock manufacturing



Robotic center for metro car roof welding

Products | Equipment for passenger rolling stock manufacturing



Robotic complex for assembly and welding of sidewalls of metro carriage body

Products | Equipment for passenger rolling stock manufacturing



Multipurpose positioner for welding the frames of double-deck passenger carriages

OUR PRODUCTS

Equipment for locomotives
manufacturing





Horizontal welding rotator

Products | Equipment for locomotives manufacturing



Horizontal welding rotator

Products | Equipment for locomotives manufacturing



Transfer table for electric locomotives



Turn-table for electric locomotives

Products | Equipment for locomotives manufacturing



Shotblasting chamber

Products | Equipment for locomotives manufacturing



Elevating access platforms

OUR PRODUCTS

Equipment for the rail cars repair



Products | Equipment for the repair of rail cars

Axle-box unit and bearings dismantling and washing system



Our products

Equipment for the manufacturing of
trailed and attached machinery for
commercial vehicles

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles

Horizontal welding rotators

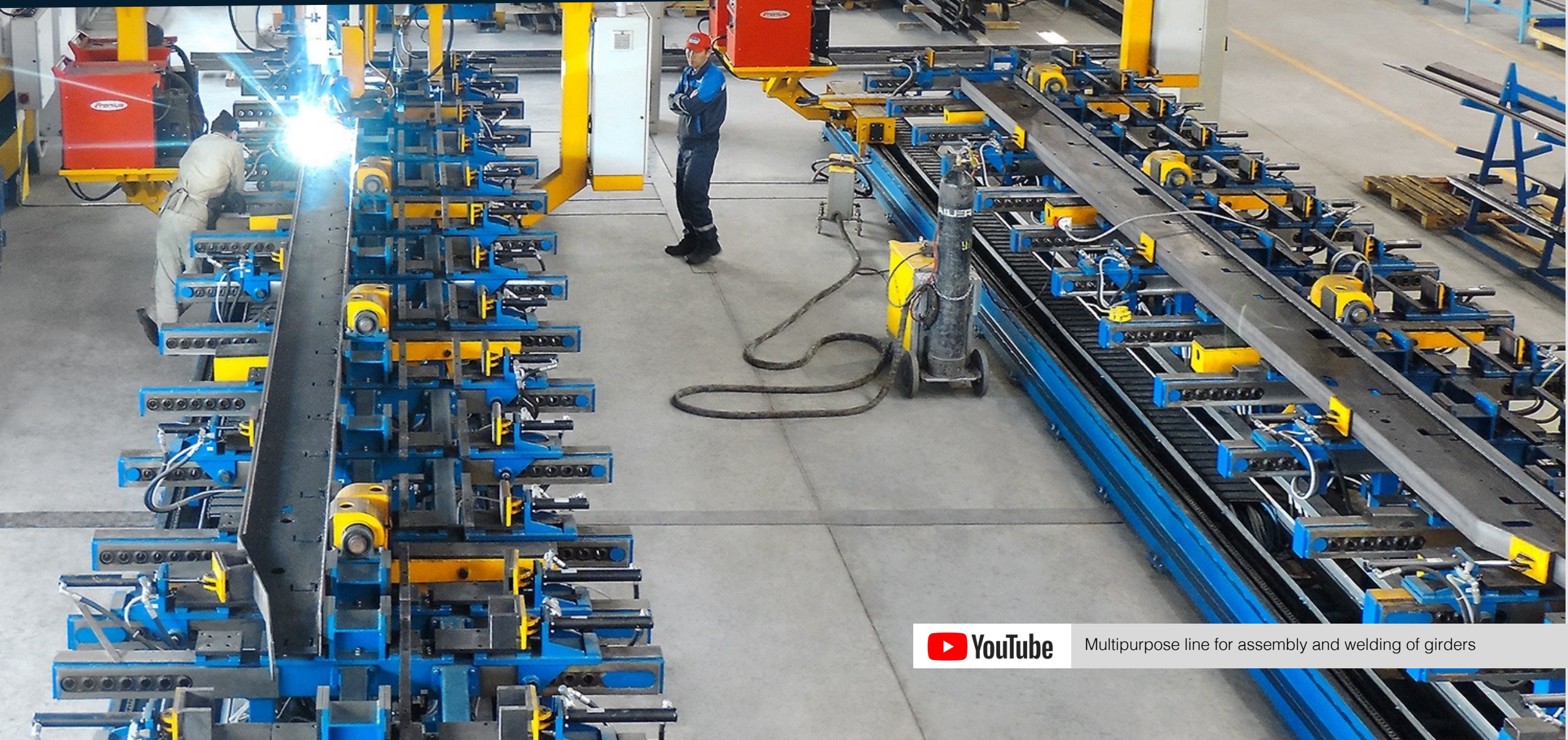


Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



Stand for insulated bodies assembly

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



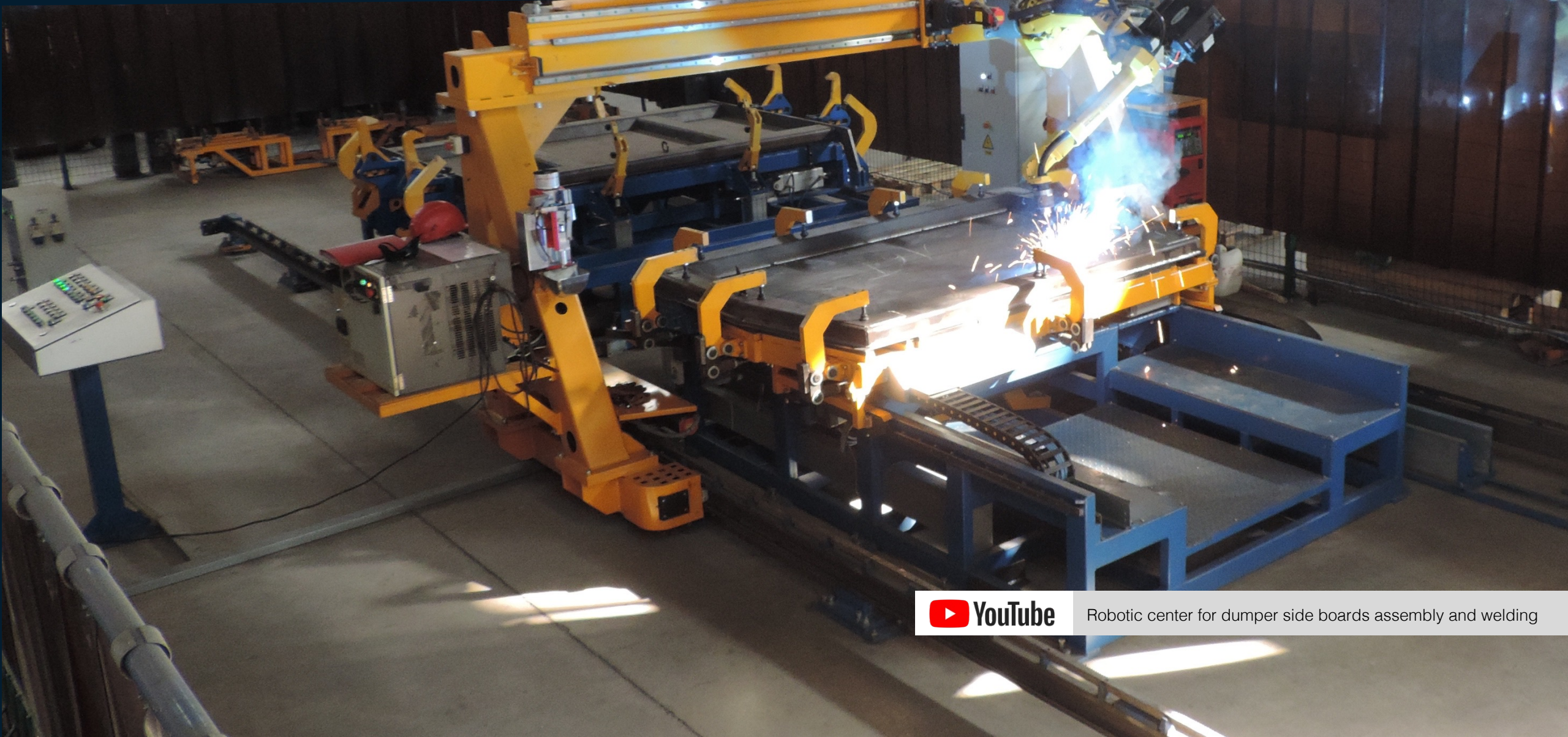
Multipurpose line for assembly and welding of girders

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



Robotic center for assembly and welding of a dump truck back door

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



Robotic center for dumper side boards assembly and welding

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



Paint booth

Products | Equipment for the manufacturing of trailed and attached machinery for commercial vehicles



Multipurpose stand for dump trucks assembly

OUR PRODUCTS

Equipment for metallurgy

Products | Equipment for metallurgy



Integrated automated line for weighing, length measuring, stamping and marking of pipes



Inspection rack for inspection and acceptance of pipes

Products | Equipment for metallurgy

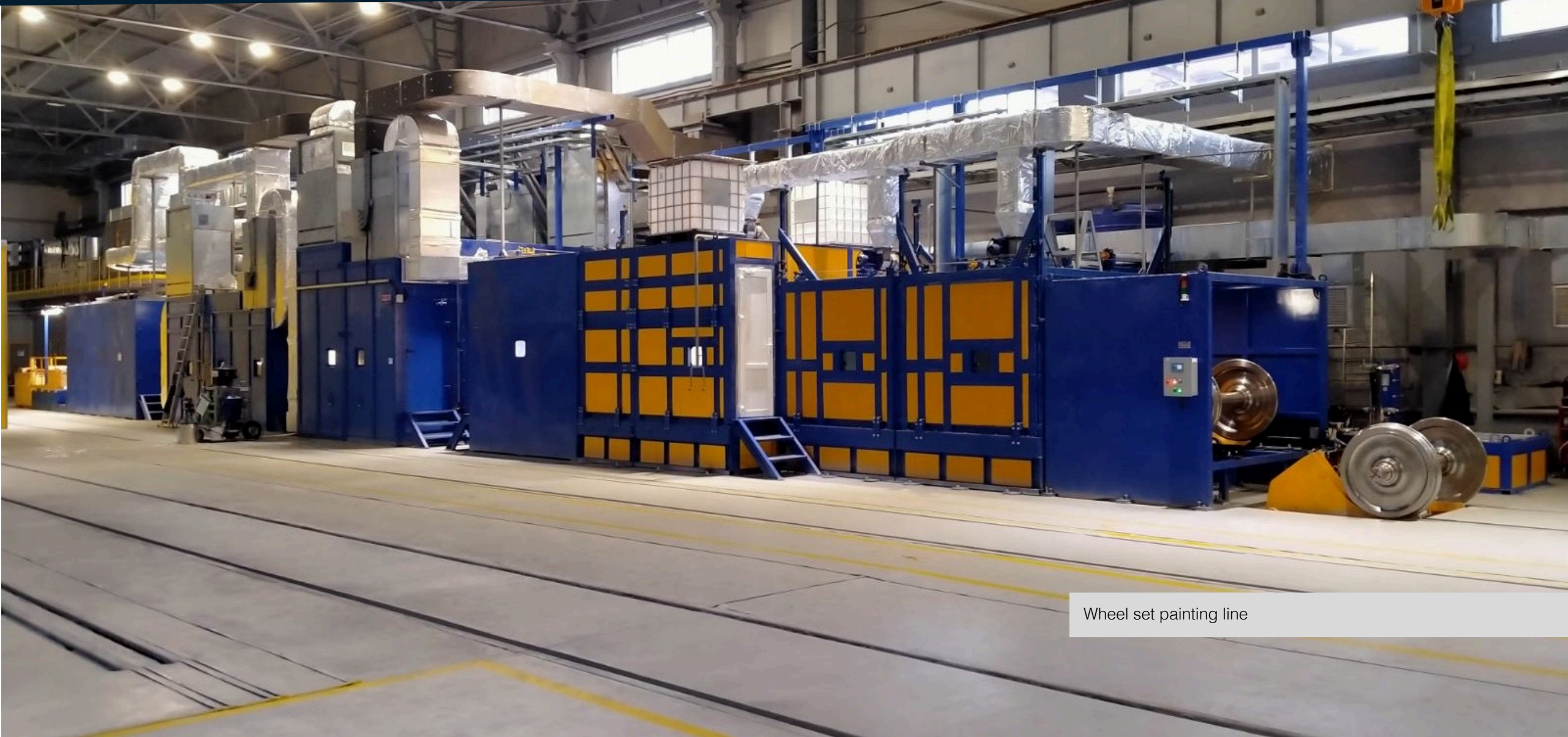


Railway wheels painting line



Railway axles coating line

Completed projects |



Wheel set painting line

COMPLETED PROJECTS

- LLC LTG Cargo - arrangement of production of freight cars.
- Alstom (Germany) – a set of equipment for the production of tram bogie frames.
- LLC UzAutotrailer - arrangement of production of trailers and attachments for commercial vehicles.
- JSC Tikhvin Freight Car Building Plant - a set of equipment for the production of center girders and frames for freight gondola cars.
- ALC Popasna Railway Car Repair Works - arrangement of production of freight cars.
- LLP Kazakhstan Carriage Building Company - arrangement of production of freight cars.
- CJSC Mogilev Carriage Works - arrangement of production of freight cars.
- CJSC Osipovichi Transport Engineering Plant - arrangement of production of freight cars and tank containers.

Completed projects | Freight wagons manufacturing

Organizing the freight wagons manufacturing

Customer: LTG Cargo, Vilnius, Lithuania

Competences of TECHVAGONMASH:

- Development of design and working documentation for a new plant.
- Development of technology for products planned for manufacturing.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation, commissioning, training of the Customer's personnel how to operate the equipment.
- Adjusting technology and the release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2020-2021.



Completed projects | Passenger rolling stock

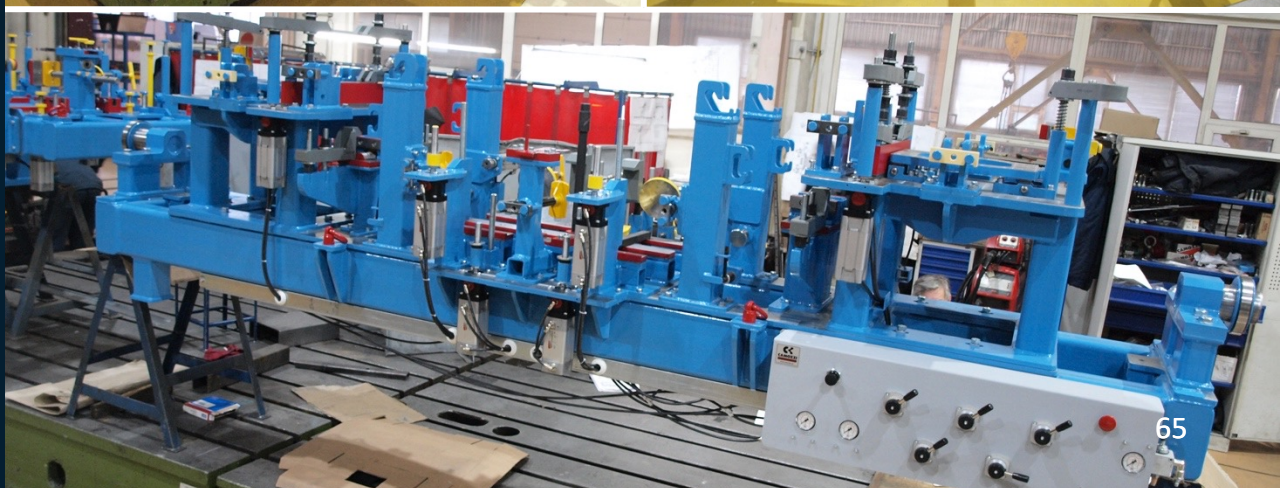
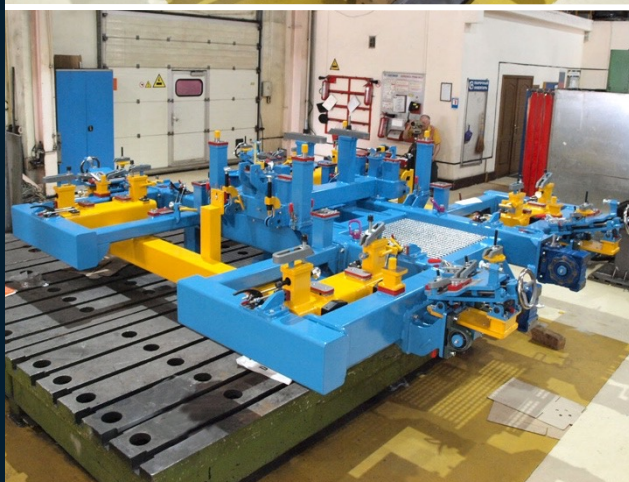
Set of equipment for the production of tram bogie frames

Customer:: Alstom, Germany

Competences of TECHVAGONMASH:

- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation, commissioning, training of the Customer's personnel how to operate the equipment.
- Adjusting technology and the release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2020-2021.



Completed projects | Wagons manufacturing

A complex of equipment for the manufacturing of passenger and freight wagons

Customer: Semaf railway factory, Egypt

Competences of TECHVAGONMASH:

- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation, commissioning, training of the Customer's personnel how to operate the equipment.
- Adjusting technology and the release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2020-2021.



Demonstration of the operation of the transborder to the Prime Minister of Egypt, Mr. Mustafa Madbouly



Completed projects | Automobile manufacturing

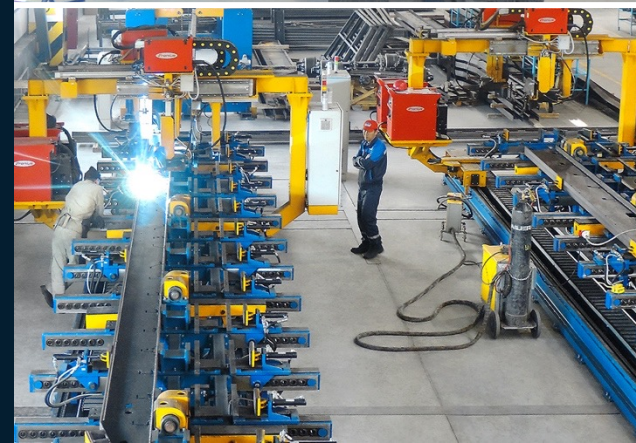
Arrangement of manufacture of trailers and attachments for commercial vehicles

Customer: LLC Uzautotrailer

Competences of TECHVAGONMASH:

- Development of design and working documentation for a new plant.
- Development of manufacturing technology for products planned for release.
- Supply of standard equipment.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Construction support.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Adjusting technology and the release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2013-2015.



Completed projects | Freight wagons manufacturing

Arrangement of manufacture of gondola cars

Customer: Popasna Railway Car Repair Works

Competences of TECHVAGONMASH:

- Development of design and working documentation for a new plant.
- Development of manufacturing technology for products planned for release.
- Supply of standard equipment.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Adjusting of technology and release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2010-2011.



Completed projects | Freight wagons manufacturing

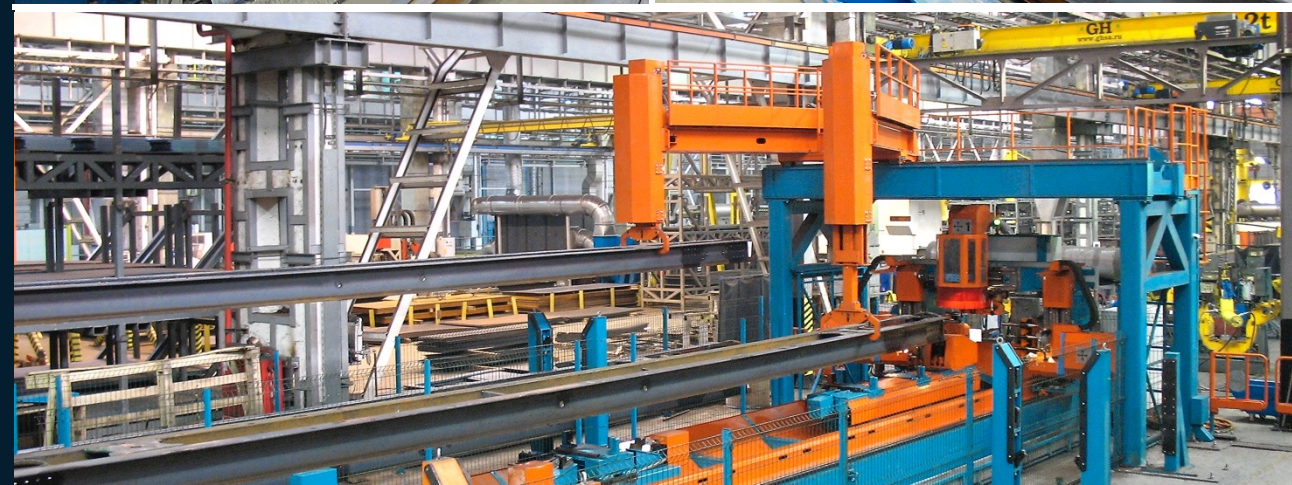
A complex of equipment for the manufacturing of center beams and frames for open top wagons

Customer: Tikhvin Freight Car Building Plant

Competences of RPE TECHVAGONMASH:

- Development of design and working documentation for a new plant.
- Development of manufacturing technology for products planned for release.
- Supply of standard equipment.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Adjusting of technology and release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2013-2014.



Completed projects | Freight wagons manufacturing

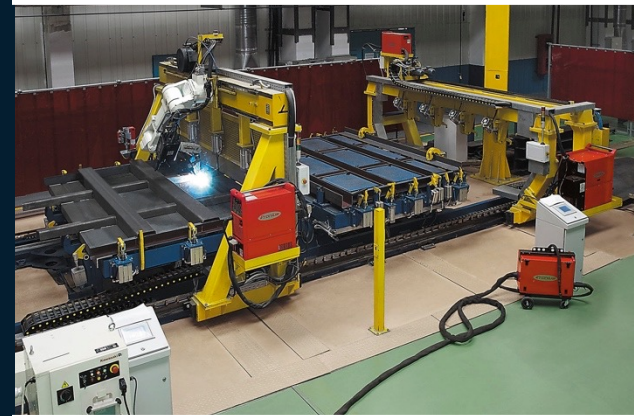
Arrangement of gondola cars manufacture

Customer: Kazakhstan Carriage Building Company

Competences of RPE TECHVAGONMASH:

- Development of design and working documentation for a new plant.
- Development of manufacturing technology for products planned for release.
- Supply of standard equipment.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Adjusting of technology and release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2010-2011.



Completed projects | Freight wagons manufacturing

Arrangement of manufacture of freight cars

Customer: Mogilev Carriage Works

Competences of RPE TECHVAGONMASH:

- Development of manufacturing technology for products planned for release.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2008-2010.



Completed projects | Freight wagons manufacturing

Arrangement of manufacture of freight wagons
and tank containers

Customer: Osipovichi Transport Engineering Plant

Competences of RPE TECHVAGONMASH:

- Development of manufacturing technology for products planned for release.
- Development of design documentation, manufacture and supply of special process equipment and tooling.
- Installation supervision, commissioning, training of the Client's personnel how to operate the equipment.
- Adjusting of technology and release of the first batch of products.
- Warranty and post-warranty maintenance of equipment.

Performance period: 2008-2010.



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YouTube

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