



# ROSSTROYTECH

welding machines & wire processing equipment

## Agenda

- Intro
- Keys to success
- Production assets and specialty
- Wire welding machines and equipment
- Analytics
- Clients & partners
- Partnership benefits



# ROSSTROYTECH

welding machines & wire processing equipment



- ▶ Rosstroytech company is an expert of resistance welding and leading Russian manufacturer of equipment for precast industry, welded mesh machines, automatic and manual machines for multi-point welding and high-tech equipment for processing of wire.

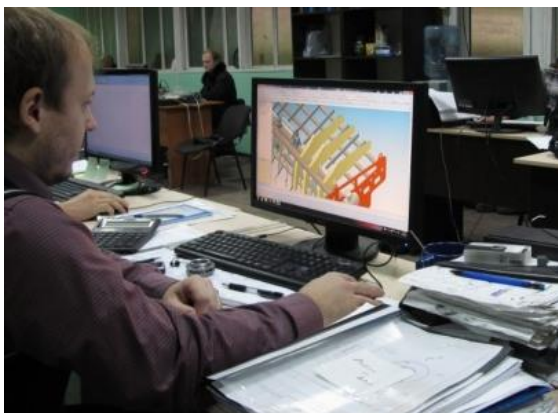




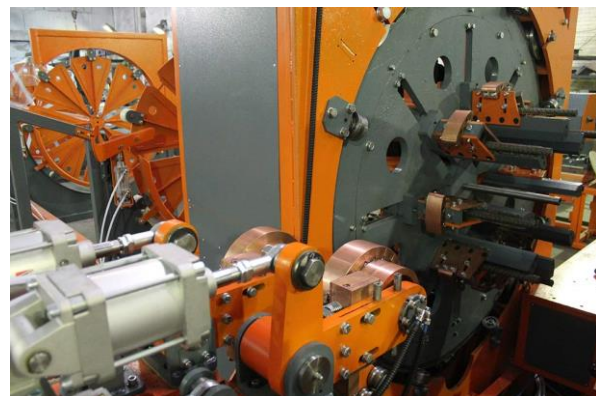
# Keys to success

- Low-cost machines and high production output
- Qualified equipment assembly
- World branded components
- Worldwide shipping
- Aftersales qualified support

## Full cycle of manufacture



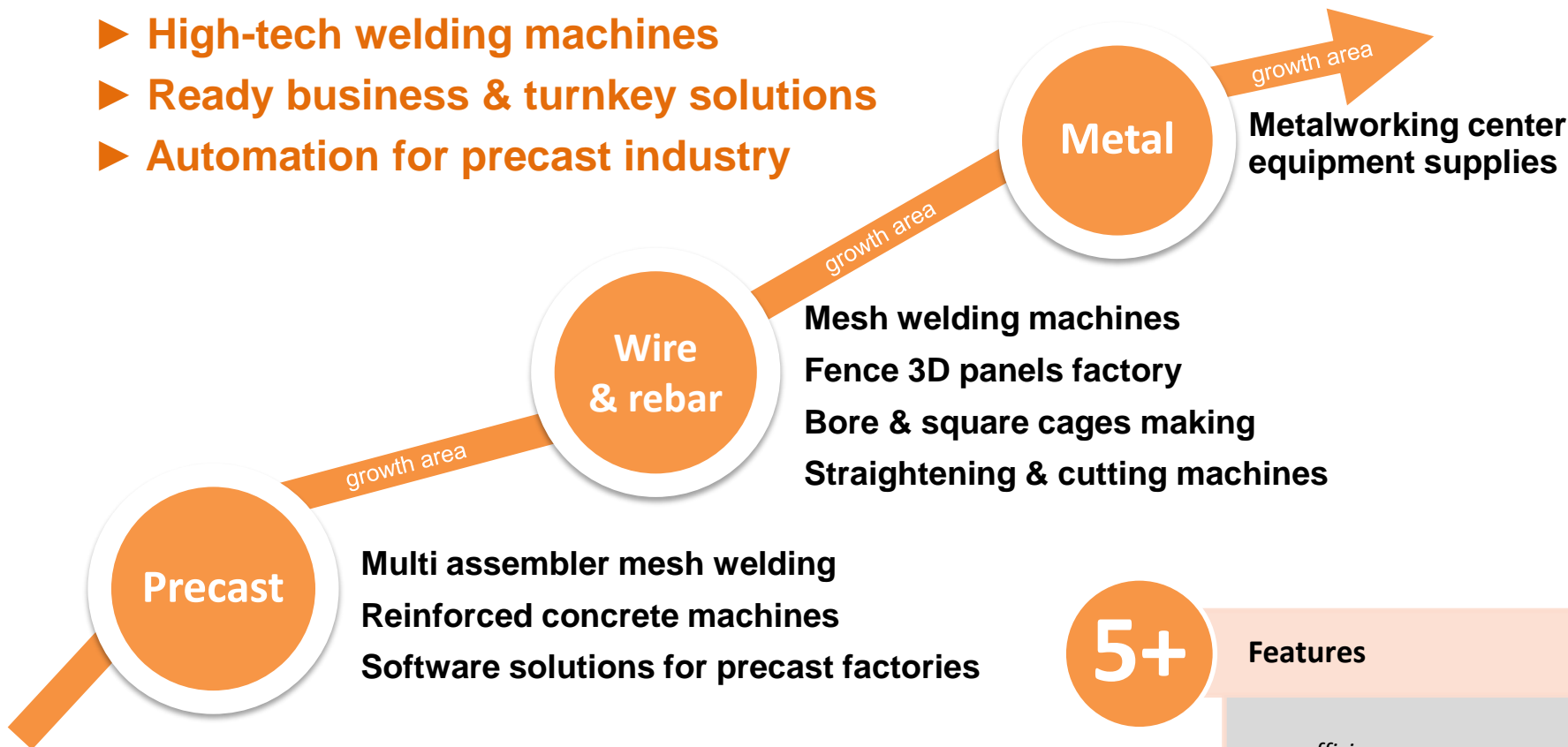
## Advanced technology





# Production assets and specialty

- ▶ High-tech welding machines
- ▶ Ready business & turnkey solutions
- ▶ Automation for precast industry

**5+**

## Features

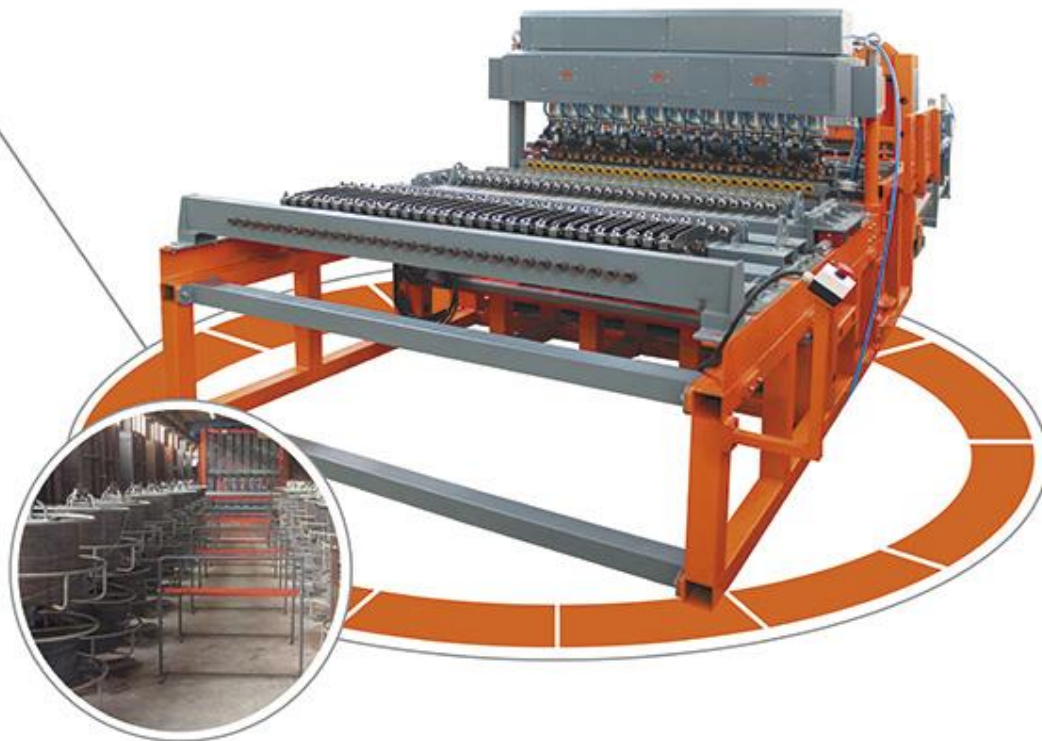
- *efficiency*
- *rationality*
- *fabricability*
- *velocity*
- *multiplicity*

Rosstroytech has one the largest industrial base, experienced R&D department for design and construction of equipment by advanced production technology.  
**Total production areas exceed 3,000 square meters.**

# Wire welding machines

## AUTOMATIC WELDING MACHINES **WL SERIES**

*Full automatic multi spot welding machine WL series has a line and cross wire coils, high-speed performance about 6000 sq.m per shift and WL Plus up to 11000 sq.m per shift. WL series machine is designed for mass regular mesh production, and oriented for large mesh manufacturers. WL series require a feedstock for continuous production output. Fast changeover to any cell and diameter of the wire, processing of medium-sized batches of variable mesh.*



A new generation of high-speed automatic WL Plus machines provide up to 120 welds per minute at the output! Key factors in the acceleration can be considered as follows as the increased capacity of the servo for the side feeder (up to 15 KW) and line feeder (up to 11 KW), a new wire loop cumulative unit for the longitudinal wire, while the machine is connected via sensors to control the synchronization of the equipment units.





# Wire welding machines



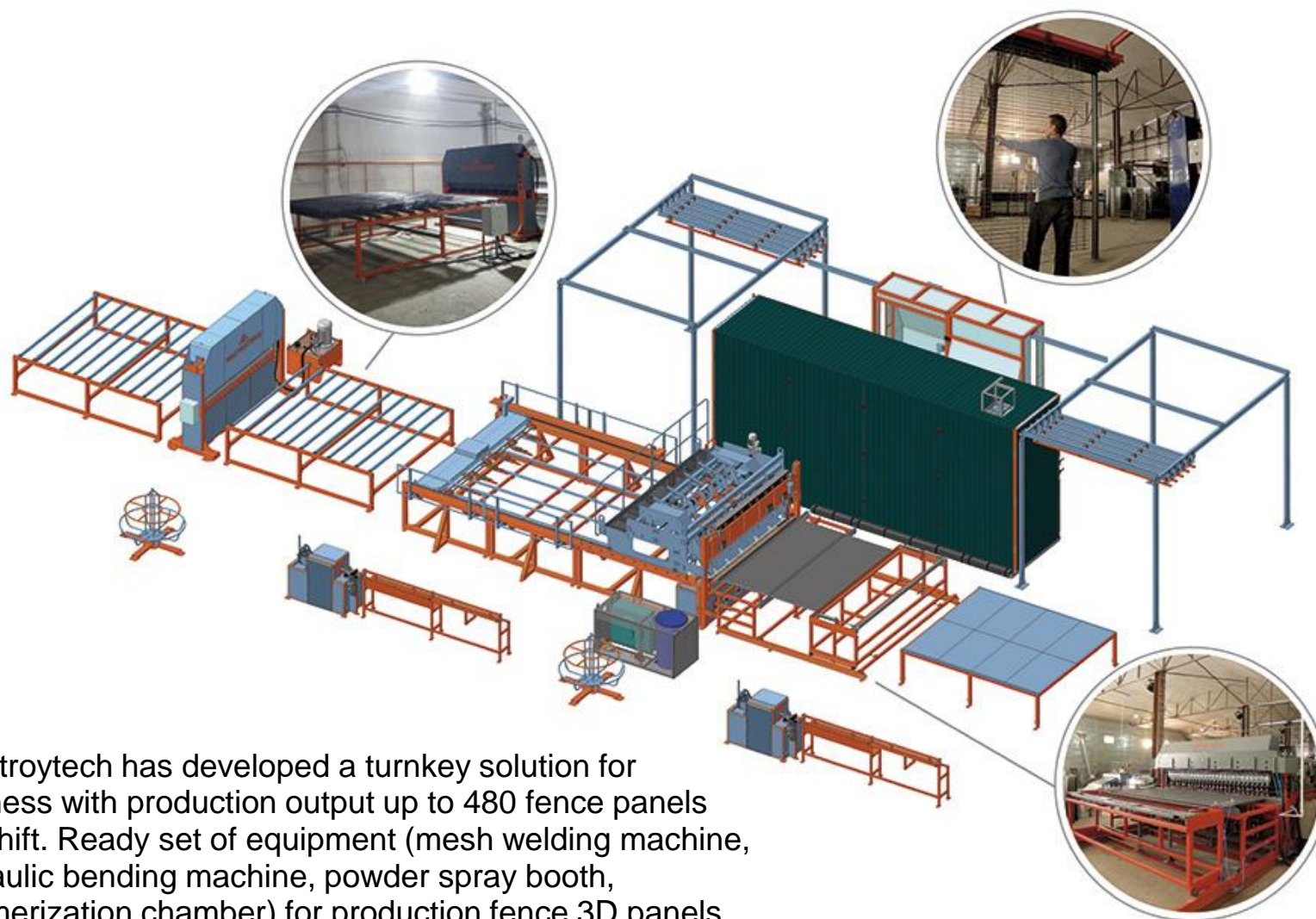
## SEMI-AUTOMATIC WELDING MACHINES **WP** SERIES

*Semi-automatic multi spot welding machine WP series has a great performance about 3000 sq.m output per shift and WP Plus up to 5000 sq.m output per shift, and inspired competitive characteristics. WP series machines provide average production volumes of various diameters wire mesh, intended for own use and sale. Full-scale production in limited spaces.*

WP Plus machine has a significant redesign of the bunker for cross wire, which allows to increase up to 30% of feed speed of transverse rods. Increased capacity of servo pulling mechanism for the dynamics growth and high speed moving out a ready mesh. Enhanced design of the main frame of the welding machine has at the same time increased resistance to vibration, allowing to work in conditions of high intensity with the growth of ready mesh output in 1.5 times.



# Fence 3D welding machines

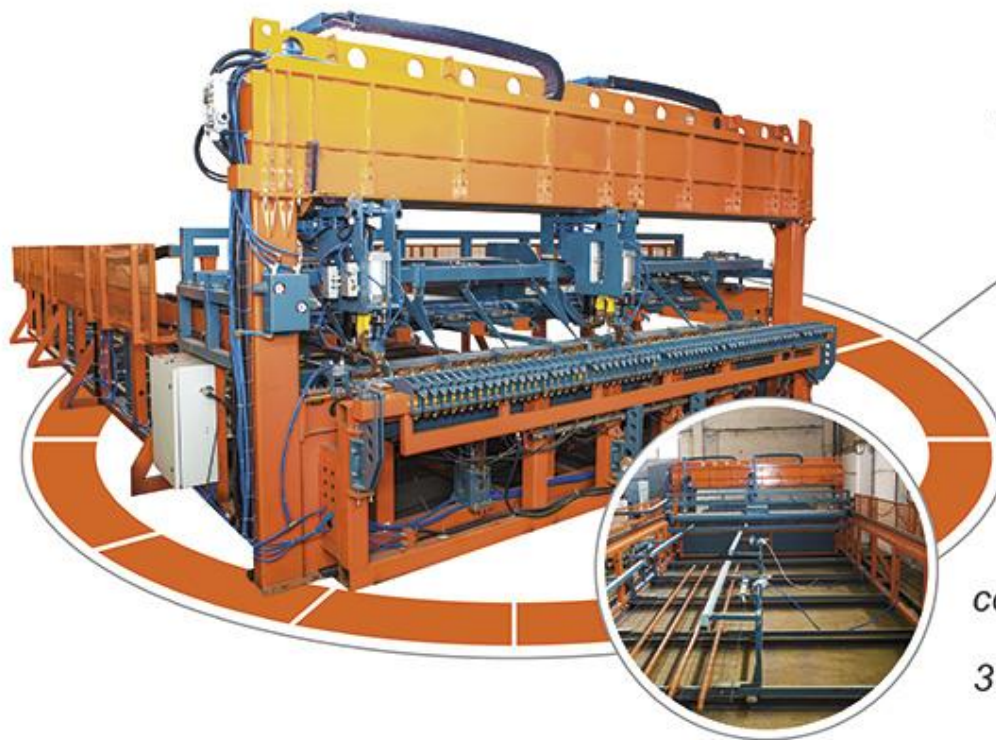


Rosstroytech has developed a turnkey solution for business with production output up to 480 fence panels per shift. Ready set of equipment (mesh welding machine, hydraulic bending machine, powder spray booth, polymerization chamber) for production fence 3D panels.





# Wire welding machines



## AUTOMATIC MACHINE WITH MOVABLE WELDING HEADS **WFE**

*Multi assembler machine is equipped with movable heads with welding electrodes which are moved along the upper beam according to the program of weld mesh grid. The machine is designed for solving tasks in precast panel construction: welding wire mesh with different cell sizes and openings combined with different diameter and length of rods of rebar. Working width of the machine 3600 mm length of finished mesh to 8500 mm. The longitudinal bars are loaded manually.*

Capabilities of the WFE machine allow to position up to 9 welding heads for increased performance and speed of welding mesh. Depending on the configuration of the WFE machine is equipped with a graphical control panel with visual control of the welding process the current mesh, a touch pad panel for selecting the list of grids needed for production.

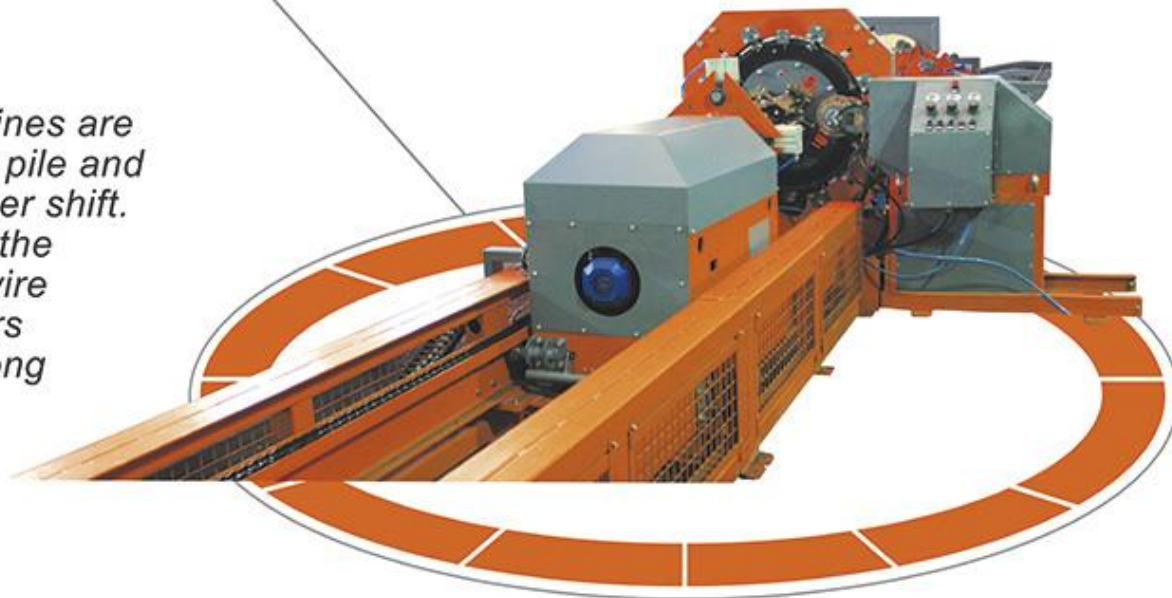




# Bore & square cages making

## PILE CAGE WELDING MACHINE WS SERIES

*WS series pile cage welding machines are designed for reinforcement square pile and cage production up to 100 cages per shift. WS series technology is based on the winding of a continuous uncoiled wire spiral around the longitudinal rebars while the welding heads moves along the wire.*



New universal cage making machine UWS is designed to produce cage of bore piles with diameter up to 2000 mm. The machine allows to operate with longitudinal reinforcing bars with a diameter of 40 mm and a winding of wire up to 10 mm, cages reach a length of 12 meters. High performance and automation significantly reduce the cost of products, allow to quickly increase the volume, minimizing the human factor.



# Wire processing machines

## STRAIGHTENING AND CUTTING MACHINES **SPO SERIES**

*High-speed automatic straightening and cutting machine with automatic uncoiler included. Automatic straightening and cutting machines cover a wide range of wire (steel drawn wires ranging from mild to high tensile and galvanized) diameters from 3 to 6 mm and 6 to 12 mm with speeds reaching 110m/min and more. Wire straightening is executed by processing coil wire through a rotating spinner with tungsten-cobalt dies installed.*



High performance comparable to Vitari machines, bars cutting with high precision even at high speed. The kinematic scheme of the machine provides of high-quality straightening of galvanized wire cover. The design of the rotor with flat dies and the coolant supply will help to minimize a spiral defect of galvanized wire cover. Increased life time of wire feed rollers is provided by their high hardness (HRC > 65 units), that is ensured by the technology of vacuum quenching. Synchronized drive of uncoiler ensures a precise cut and with no jerks at high speed. Also provides the ability to pay-out the coils with pattern or damaged winding.



# Analytics

Comparative analysis of a typical set of equipment required for reinforced concrete production workshop of the precast plant for large-panel housing, designed for the production of 100 thousand cubic meters of concrete per year. The following equipment should be installed:

- Universal automatic welding machine for flat cages with openings, width 3600mm, wire diameters from 4 to 12mm.
- Universal welding machine operating with coils for step weld & flat frames, width up to 600mm.
- Straightening and cutting machines for wire diameter from 3 to 6mm and 6 to 12mm, 2 pcs.
- Automatic 3D bending machine for reinforcement up to 12 mm.
- Bore piles cage making machine.
- Automatic cutting station for reinforcement diameters up to 40mm.

Company brand	Price of equipment, USD \$	Cost of commissioning works, USD \$	Cost of spare parts and technical maintenance per year, USD \$	Aftersales technical support
<b>Rosstroytech (Russia)</b>	1,2 – 1,3 mln. dollars	50K – 60K dollars	6K – 10K dollars a year	Multilingual (English, German, Russian) aftersales service, online technical support 24/7. Supervision installation and start-up works, technical consulting.
<b>Ebawe, Progress Group (Germany)</b>	3,3 – 3,5 mln. dollars	130K – 150K dollars	50K – 55K dollars a year	Remote technical support. Supervision installation and start-up works.
<b>EVG (Austria)</b>	3,7 – 3,8 mln. dollars	135K – 140K dollars	50K – 55K dollars a year	Remote technical support. Supervision installation and start-up works.
<b>Eurobend (Greece)</b>	2,1 – 2,2 mln. dollars	120K – 125K dollars	40K – 45K dollars a year	Remote technical support. Supervision installation and start-up works.
<b>Schnell group (Italy)</b>	2,4 – 2,5 mln. dollars	135K – 140K dollars	40K – 45K dollars a year	Remote technical support. Supervision installation and start-up works.
<b>TJK (China)</b>	1,3 – 1,4 mln. dollars	65K – 70K dollars	20K – 25K dollars a year	No technical support.





# Clients & partners



Our satisfied customers enjoy all available advantages of being permanent partners, who are always ready to recommend and demonstrate Rosstroytech's equipment in the work process.

# Partnership benefits

## ► Price benefits

- Convenient and flexible system of payments for all products supplied
- Good discount on bulk orders
- Marginal benefit for dealers

## ► Technical & Training support

- Availability of all manuals (installation, operational and maintenance manual)
- Staff training and consulting
- Aftersales technical support & spare parts supply

## ► Marketing support

- Guidelines for product line choice & combination
- Technical product's benefits consulting

## ► Research & Development

- Updated manuals
- Latest technology notification
- Competitive strategy development





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## Welcome!