

A complex network of black dots connected by thin black lines, resembling a molecular or structural model, set against a light gray background. A solid red horizontal bar is overlaid on the middle of the image, containing the text 'METAL STRUCTURES'.

METAL STRUCTURES



TULA METAL ROLLING PLANT

ABOUT US



Tula Metal Rolling Plant has been providing a range of services for the design, manufacture and installation of metal structures since 2007. Currently, this plant has over a thousand of completed projects. The company pays great attention to the process development - production processes are continuously improved. Due to this, the products output is growing annually. TMPZ employees are highly professional and skilled and responsible specialists that is confirmed by the current Quality Management System Compliance Certificates as per ISO 9001:2015.

METAL STRUCTURES DESIGN AND ENGINEERING

For design and engineering, the company specialists apply special high-precision software that enables considering all the specific points and nuances of the future project, speeding up the design process and obtaining a 3D model including complete details on the materials volume and scheduling required for the future product construction and operation.

The Engineering and Design Department will be able to perform documents analysis and development within the shortest time possible:

- Project concept development;
- Project visualization in the form of a layout model;
- Works and materials costs calculation.



PRODUCTION AND INSTALLATION OF METAL STRUCTURES

All activities on metal structures production and installation are carried out as per GOST standards of the Russian Federation. State-of-the-art equipment: X-Ray inspection units and ultrasonic testing equipment that are capable to detect minor irregularities in the weld seams (which details are specified in the plant specifications and codes) is applied when checking the quality of welded parts. The cumulative experience and high technology equipment ensure reliable installation of metal structures of any level complexity.

Tula Metal Rolling Plant focuses on production and installation of metal structures of the following types:

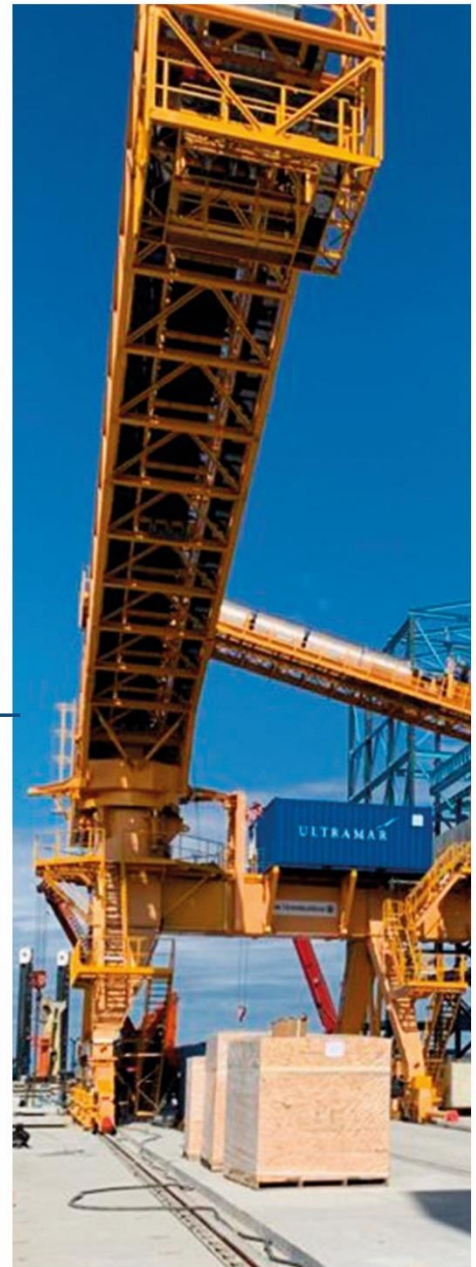
- Manufacturing buildings;
- Warehouse (storage) facilities;
- Sports structures and buildings;
- Bridgeworks;
- Transportation facilities;
- Trade and recreational centers;
- Agricultural works.

DISMANTLING OF BUILDINGS, CONSTRUCTIONS AND EQUIPMENT

The company provides a full range of services for dismantling of buildings and structures strictly according to the approved procedure and established regulations on this type of activities. Dismantling services include:

- Development of design and approval (authorization) documents;
- Mechanized and manual dismantling of buildings and structures;
- Recycling and disposal of construction wastes.

TMPZ uses all the required specialized machinery and heavy equipment including excavators with various attached implements, graders, crushing and screening plants (crushers), and dump trucks and loading tractors when performing dismantling works.



PRODUCTION EQUIPMENT

BRIEF DESCRIPTION OF THE ESSENTIAL MECHANICAL EQUIPMENT

Assembly line for Sci 2000/11 CNC-controlled welded girder

Basic parameters:

- Type of the unit: portal;
- Maximum part dimensions, mm: 15000x800x1500 (LxWxT);
- Girder flange thickness: 8-40 mm.



Plasma cutting machine Kristall-GP

Basic parameters:

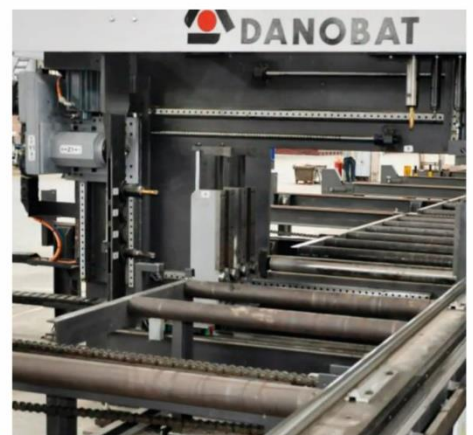
- Type of the machine: portal;
- Maximum part dimensions, mm: 10500x2200x16 (LxWxT);
- Cutting method: plasma.



Sawing line Danobat CPI 130.60DI

Basic parameters:

- Cutting angle: +45°/+60°;
- Maximum part dimensions, mm: 600x1240x12000 (LxWxT);
- Cutting method: band saw.



Tula Metal Rolling Plant is equipped with the most advanced equipment that is characterized by high precision as related to processed parts. Company specialists have industry-specific education, proper qualifications and extensive experience in operating CNC-controlled units. Due to the constant improvement of the qualifications of operators and timely maintenance of machines, all manufactured metal structures have precise dimensions.

Combined press-shears Geka Hydracrop 165

Basic parameters:

- Cutting angle: 90°;
- Maximum part dimensions, mm: 205x205x18 (HxWxT);
- Cutting method: chopping/punching.



Bandsaw machine Siloma W340/630gth

Basic parameters:

- Cutting angle: +45°/-60°;
- Maximum part dimensions, mm: 340x630x12000 (LxWxT);
- Cutting method: band saw.



Gas cutting machine Satronik D-5000

Basic parameters:

- Type of the machine: portal;
- Maximum part dimensions, mm: 24000x3600x200 (LxWxT);
- Cutting method: gas.





SURFACE CLEANING



ASSEMBLY AND WELDING



PAINING AND MARKING



QUALITY CONTROL



FINISHED PRODUCTS STORAGE

Pass-through shot blasting machine ROSLER (Germany)

Shot blasting is carried out for both plates and bars. Simultaneous operation of six turbines provides for the second cleaning degree as per GOST 9.302.

Shot feeding is performed simultaneously from four nozzles located in such a way that the shot fed at different angles could ensure cleaning of the entire surface of the metal structures charged into the machine.

Maximum dimensions of materials to be blasted: 12000 x 2000 x 500 mm.

Assembly and Welding Area of the workshop allows for general assembly of buildings and structures elements and components such as supporting girders, columns and trusses. Assembly is carried out using high-precision tools; welding operations are executed by the qualified personnel certified as per NACWP for the equipment of leading manufacturers such as Lincoln and SINERGIC.

Welding is performed in Ar+CO₂ shielding gases using benches that allow for welding in all welding positions thus ensuring the required penetration.

In order to ensure accuracy of erection works at site, finished metal structures are fit-up assembly tested at production site.

Painting of metal structures is carried out by airless spraying method using Graco units. Metal structures manufactured at the plant are subject to de-greasing prior to painting.

The Painting Area is equipped with microprocessor-based thickness gauges that allow monitoring applied painting materials thickness. Upon painting, all metal structures elements and components are marked in accordance with the requirements of GOST using marking guns that essentially facilitate erection directly at facilities.

Products quality control is performed by the qualified personnel using state-of-the-art devices and measuring tools at all the key stages of metal structures production:

- Quality incoming inspection of rolled metal products and applied materials;
 - Operating control of consumables and painting materials storage;
 - Visual and dimensional inspection of metal structures elements and components including UT of weld seams;
 - Instrumental control of products surface cleanliness degree;
 - Control of painting coating application process and coating thickness;
 - Inspection of products packing in accordance with Customer`s requirements or reference documents;
 - Inspection of loading and transportation activities until products are delivered to the site.
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Finished products are stored in the closed type heated warehouse that ensures integrity of the painting, especially during the winter season.

The qualified personnel perform packing and shipping of the finished products using both trucks and railway transport.

COMPLETED PROJECTS

BUILDINGS AND STRUCTURES

Distribution Center of Magnit market chain

● Region: Moscow region

● Manufactured and installed: 1320 tn



Perinatal Center named after Academician V.I. Kulakov

● Region: Moscow

● Manufactured and installed: 2400 tn

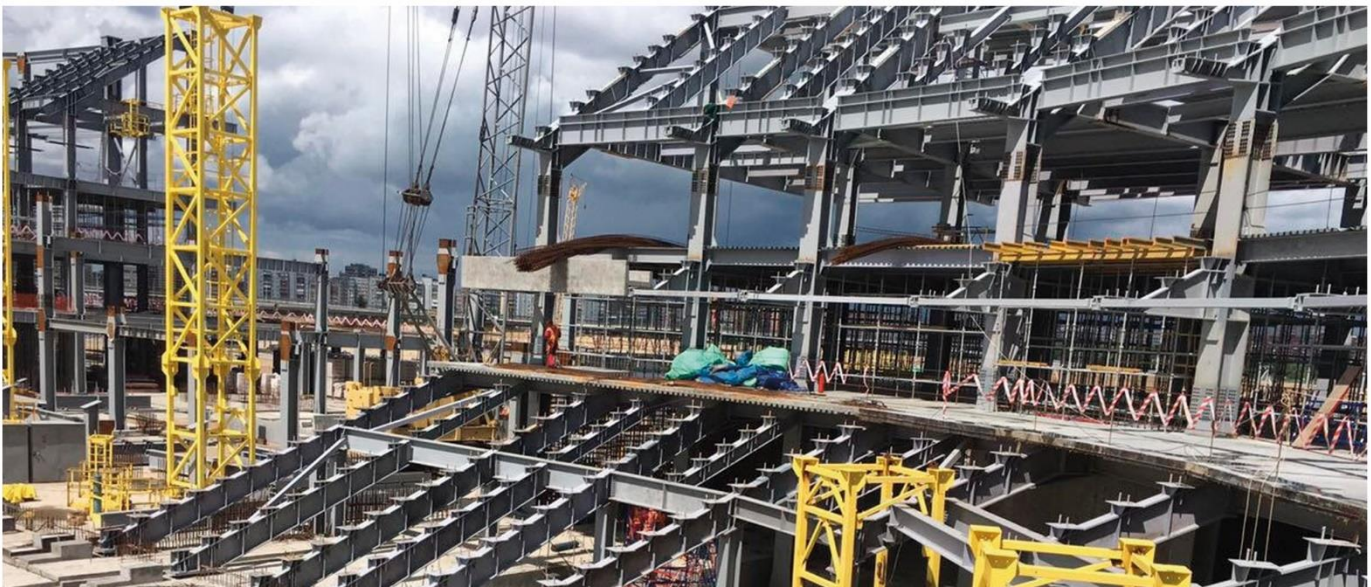


Buildings erected based on metal structures can easily withstand temperature extremes, do not shrink and can be used in earthquake generating regions. Buildings assembly can be performed at any season under any weather conditions.

Football stadium for Football World Championship in 2018

● Region: Kaliningrad region

● Manufactured and installed: 2780 tn



Russian Surgery Research Center named after Acad. B.V. Petrovsky

● Region: Moscow

● Manufactured and installed: 3392 tn



COMPLETED PROJECTS

INDUSTRIAL FACILITIES

Metal Works Tulachermet-Stal

● Region: Tula region

● Manufactured and installed: 4600 tn



Oskolsky electrometallurgical works named after A.A. Ugarov

● Region: Belgorod region

● Manufactured and installed: 3380 tn



A special type of metal structures for industrial facilities is manufactured in accordance with requirements for high mechanical strength, ductility and elasticity. Structures are both resistant to static and dynamic loads.

Cement Plant Tulacement (Heidelberg Group)

● Region: Tula region

● Manufactured and installed: 1200 tn



Cherepovets Iron and Steel Works Severstal

● Region: Vologda region

● Manufactured and installed: 1000 tn



COMPLETED PROJECTS

TRANSPORTATION FACILITIES

Multipurpose marine transloading terminal **ULTRAMAR**

● Region: Leningrad region

● Manufactured and installed: 3500 tn



Electric engine house for Moscow metro Mitino

● Region: Moscow

● Manufactured and installed: 500 tn



Metal structures are widely used in the construction of transport facilities due to the speed of erection. Some elements are connected directly at the factory at the manufacturing stage.

Multipurpose complex of the electric engine house Brateevo

● Region: Moscow

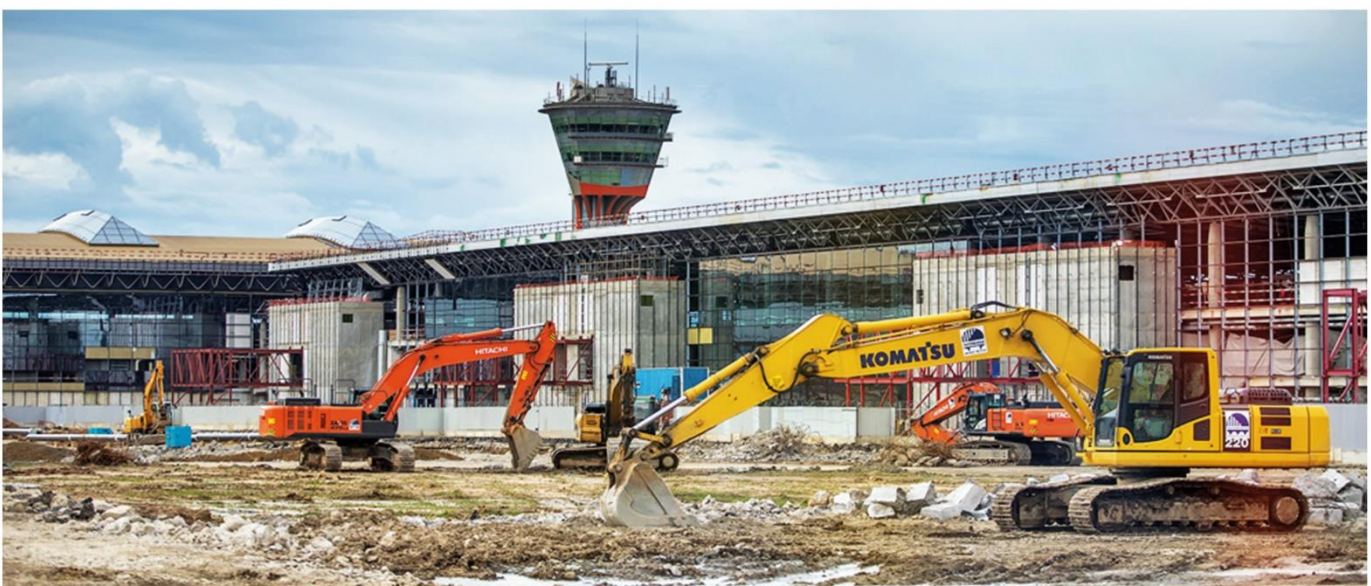
● Manufactured and installed: 920 tn



International Airport Sheremetyevo, terminal C

● Region: Moscow region

● Manufactured and installed: 542 tn



COMPLETED PROJECTS

TRANSPORTATION FACILITIES

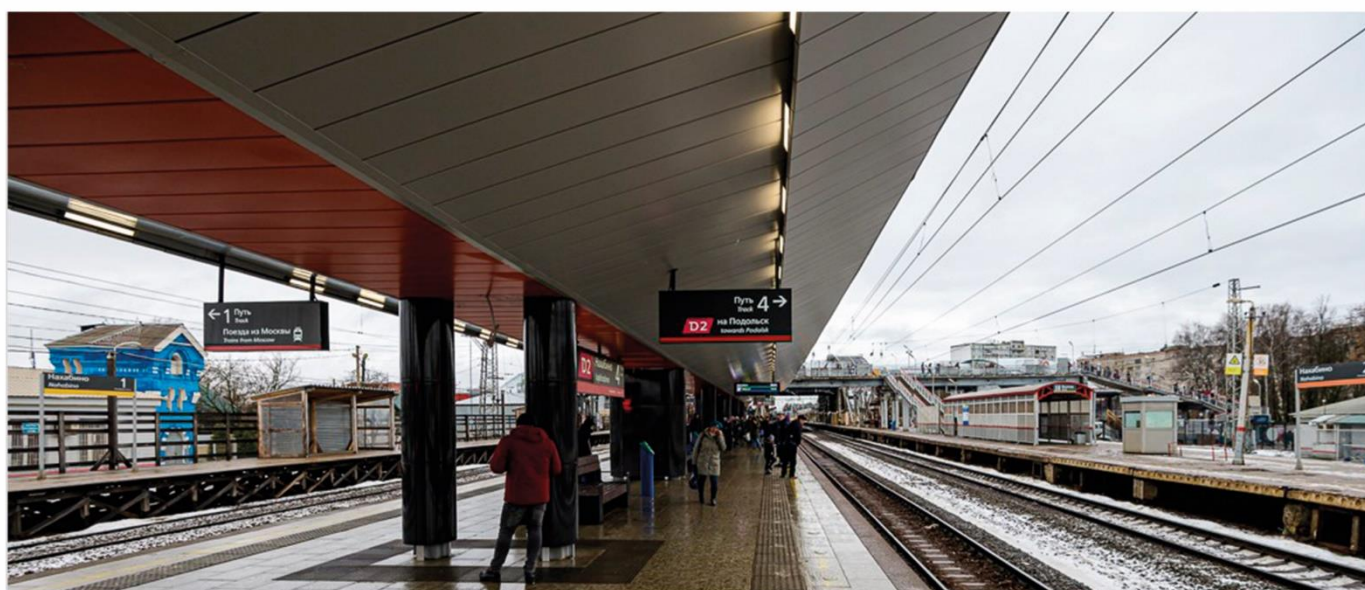
Railway Station Novodachnaya (MTSD 1)

- Region: Moscow region
- Manufactured and installed: 400 tn



Railway Station Nakhabino (MTSD 2)

- Region: Moscow region
- Manufactured and installed: 500 tn



All metal structures for transportation facilities are manufactured strictly in accordance with GOST of the Russian Federation, are highly resistant to climatic and mechanical factors. Light and mobile metal structures ensure high rate of erection activities.

Electric engine house Nizhegorodskoe of Moscow metro

● Region: Moscow

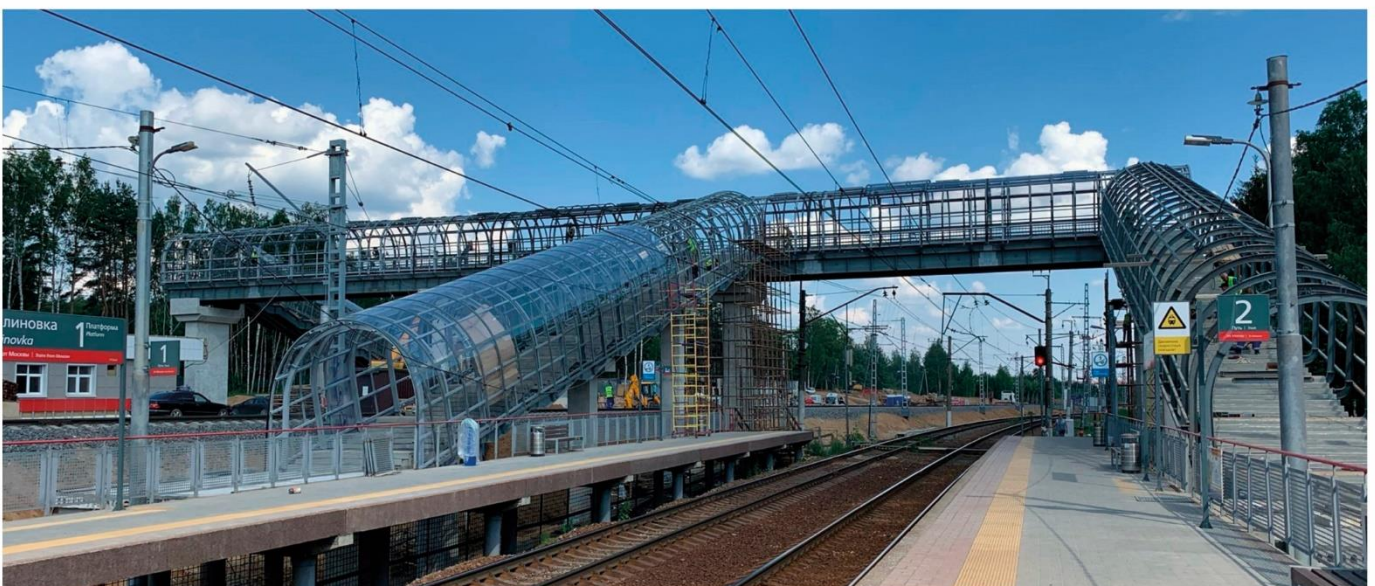
● Manufactured and installed: 410 tn



Railway Station Malinovka of Moscow Railway Riga direction

● Region: Moscow region

● Manufactured and installed: 450 tn



COMPLETED PROJECTS

BRIDGEWORKS

Bridge of the river Mocha, Central Ring Road Area

● Region: Moscow region

● Manufactured and erected: 1762 tn



Base line of South-East Chord

● Region: Moscow

● Manufactured: 800 tn



All bridge metal structures are manufactured strictly in accordance with the requirements set forth for this type of structures. The following types of metal are used for structures manufacture: 10XCHД, 15XCHД, 14Г2АФ, and 09Г2С

Bridge crossing over the river Maly Anyuy at 502 km

- Region: Chukotka Autonomous Region
- Manufactured: 1020 tn



Road interchange at Third Ring Road near ZIL plant

- Region: Moscow
- Manufactured: 1500 tn



CERTIFICATES AND PARTNERS

CERTIFICATES

Quality Management Compliance Certificate as per ISO 9001:2015



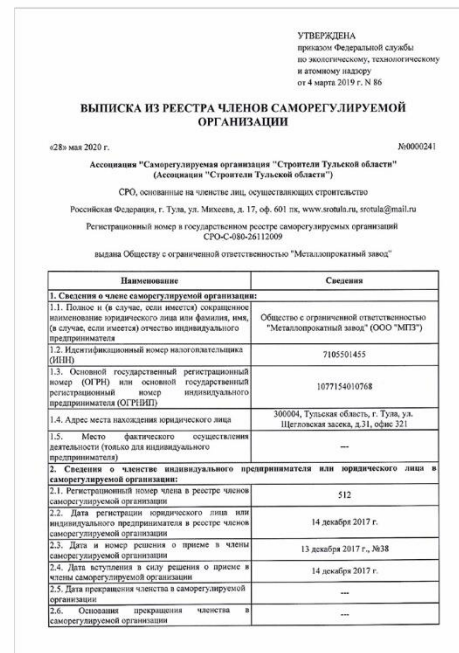
Welding Process Qualification Certificate



Welding Process Qualification Certificate

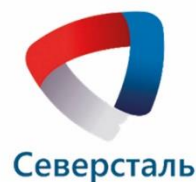


Extract from the Self-Regulated Companies Register



PARTNERS OF TULA METAL ROLLING PLANT

Over the long years of persistent work, Tula Metal Rolling Plant has established itself as a reliable supplier of metal structures for absolutely any industry. This experience is confirmed by many years of cooperation with the largest companies in the Russian Federation.





METAL STRUCTURES

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