

SASOVO FOUNDRY



**Established
in 2003**



Sasovo foundry is a cutting-edge modern cast house production site founded for providing machine building complex and other industries with high quality shaped castings made of various grades of steel and cast iron.

- Foundry is established in 2003;
- Rated capacity is 250000 kg of cast iron monthly;
- Capacity to produce castings weighting from 10 kg up to 6200 kg.

15 YEARS

The main advantage of our foundry is its technological flexibility and opportunity to produce different types of castings according to the integrated solution and stream which lets us competently produce orders in small quantity and perform serial production.

THE SITES OF THE FOUNDRY ARE EQUIPPED WITH MODERN MELTING EQUIPMENT:

- Induction melting units **INDUCOTERM**;
- **IMF forming equipment including the third-generation high-speed mixers and mechanical regeneration of the molding mixture;**
- **Automated line of moldless molding.**

Embedded technology on cold-hardening mixtures allows obtaining forms of high dimensional accuracy, which makes it possible to produce any castings with minimal allowances for mechanical machining. Finished casting has high surface quality without metallized and chemical fumes.

Big molds production site allows producing castings in box-forms with weight up to 6200 kg.

CASTING MATERIAL:

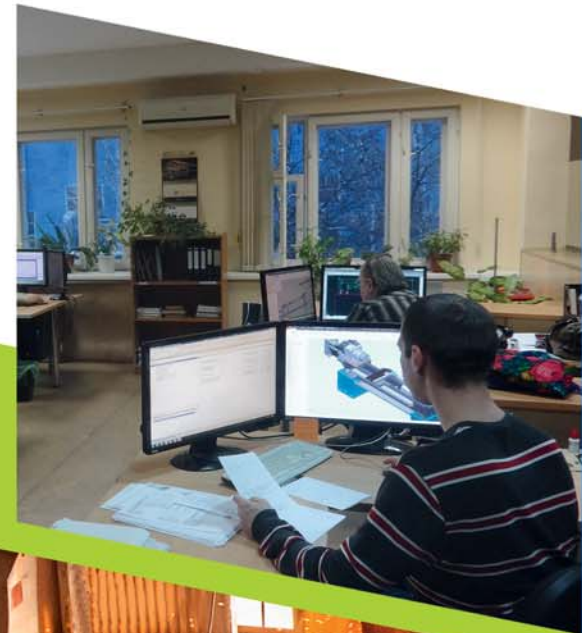
- **Cast iron with lamellar graphite:**
(engineering castings for general use)
graphite cast iron 10, graphite cast iron 15,
graphite cast iron 20, graphite cast iron 25,
graphite cast iron 30, graphite cast iron 35 (GOST 1412-85).
- **High-strength cast iron with nodular graphite:**
cast iron 50, cast iron 60, cast iron 70,
cast iron 80 (GOST 7293-85).
- **Bearing cast iron:**
(for castings used in friction units)
cast iron -1, cast iron -2 (GOST 1585-85).
- **High-silicon cast-iron:**
cast iron -15 (GOST 2233-85).
- **High-alloy cast iron:**
cast iron 16 (GOST 7769-82).
- **Carbon and low-alloy steels:**
(casting machine parts)
steel10L, steel 15L, steel 20L, steel 25L, steel 30L, steel 40L,
steel 45L, steel 50L, steel 60L (GOST 977-88).

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R&D DEPARTMENT

R&D department is in charge of technical documents development and production of medium complexity wooden patterns.

After order placement for the high complexity pattern production to another enterprise the Department provides technical support.



SASTA.RU

MACHINING WORKSHOP

«Sasta» performs machining of its own casting. The factory stock comprises more than 200 machines, including unique equipment:

- automatic line Toyoda includes workpiece feeding system consisting of 50 interchangeable pallets and automatic tool changing system for 330 tools;
- 5-way portal machining center Micromat, designed to handle large parts with very high accuracy;
- cylindrical grinding machine Studer;
- horizontal milling centers with CNC;
- double-column machining centers;
- surface grinding and internal grinding machining centers;
- gear milling and grinding machining centers;
- turning and milling machining centers.

FACTORY LAB

On the basis of Sasovo Foundry there is a local laboratory the key challenges of which include:

- Incoming control of materials;
- Quality control of molding compounds;
- Control of temperature and chemical composition of the prepared melts;
- Control of microstructure and mechanical properties of castings;
- Metrological Supervision.

The laboratory comprises the following units:

- **Spectral laboratory** – chemical make-up analysis of different types of cast and steel;
- **Mechanical laboratory** – static and dynamic tests for resistance, strain, hardness;
- **Metallographic laboratory** – research of cast and steels microstructure;
- **Land laboratory** – incoming control, tests and measurements of bulk materials;
- **Chemical laboratory** – chemical analysis of different types of cast and steel.

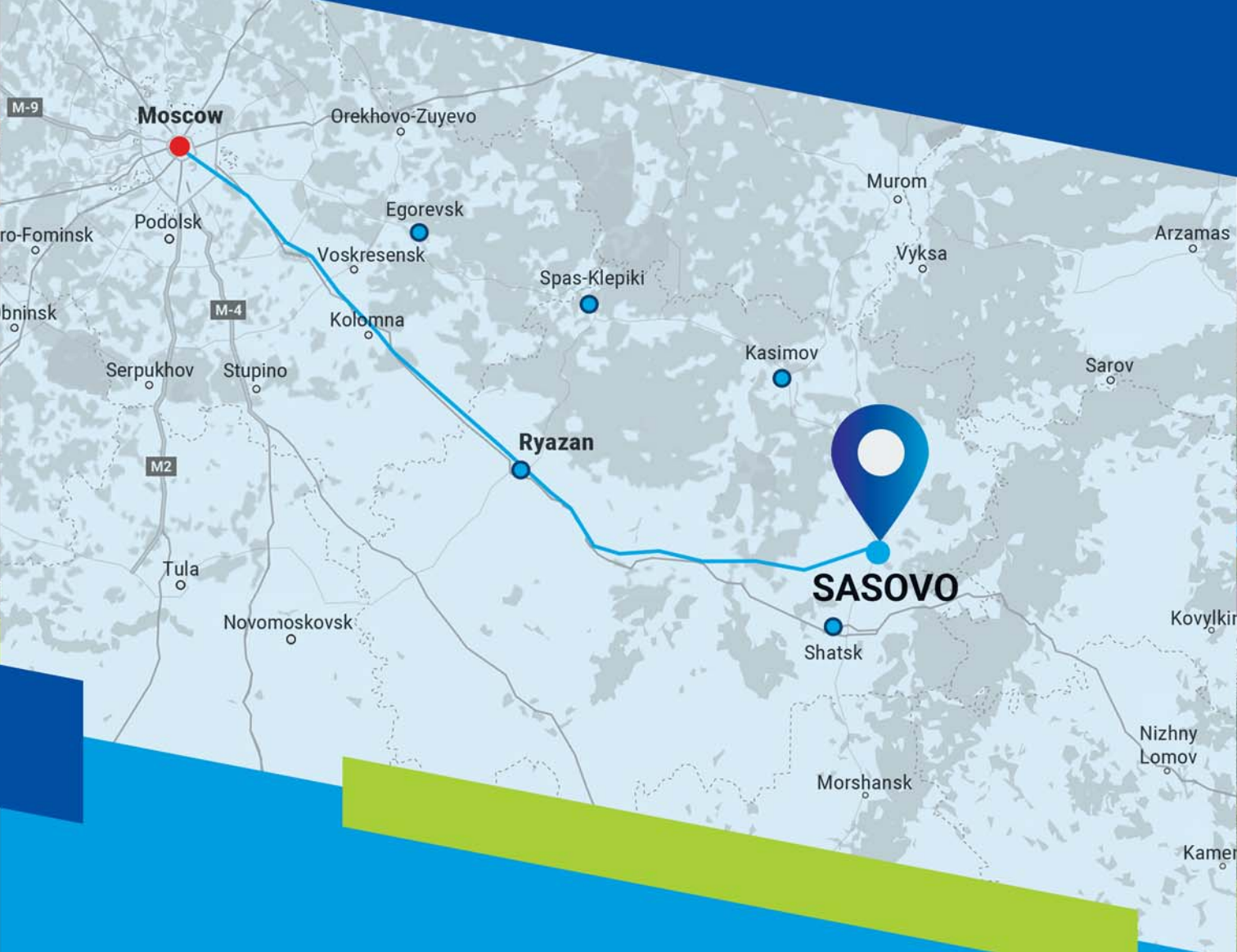
Qualified personnel perform control of castings at different production stages, including test works and metrological supervision.





**AMONG THE KEY CUSTOMERS
OF SASOVO FOUNDRY THERE ARE MACHINE TOOL
FACTORIES AND MACHINE-BUILDING ENTERPRISES
OF RUSSIA AND CIS COUNTRIES:**

- **OJSC «Sasta»**
(lathes, vertical lathes and pipe threading machines)
- **OJSC «Gomelskii zavod stanochnyh uzlov»**
(lathes, turning lathe equipment)
- **LLC «Vladimirsky machine-building factory «Technika»**
(lathes, milling, grinding machines, special purpose equipment)
- **LLC «Srednevolzhskii stankostroitel'nyi zavod»**
(lathe machines)
- **LLC «DVT»**
(universal metal cutting machines)
- **AO «STP-Lipetskoe stankostroitel'noe predpriyatie»**
(grinding, drilling machines, lathes and milling machines)
- **OJSC «Astrakhanskii stankostroitel'nyi zavod»**
(metal-cutting press-forging equipment, abrasive equipment, woodworking equipment)
- **LLC «Scientific and production innovation company «SPLAV»**
(development and improvement of the design of ferrosilicate subsurface and deep earthing leads)
- **OJSC «Stankostroitel»**
(special purpose equipment)
- **CJSC «Becema»**
(special purpose vehicles)
- **OJSC «ZVI»**
(common industrial asynchronous electric motors)
- **LLC «KOM»**
(mechanical transmissions)
- **LLC «ZMT»**
(mechanical transmissions)
- **LLC «Ruselprom-Resource»**
(electrical machines and drivers)
- **OJSC «Litmashpribor»**
(foundry production)
- **CJSC «Ruven»**
(ventilation and draft equipment)



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