



GAZMODEL

Tula Casting and Mechanical Factory LLC



Andrey Shpynev, CEO

ABOUT THE FACTORY

Our company is a reliable partner

Currently, Gazmodel Tula Casting and Mechanical Factory is a successful and dynamically developing company with extensive experience in metallurgy and metalworking.

The company's main activities are:

- Manufacturing casts of various grades of steel, cast iron, and aluminium according to drawings provided by customers;
- Manufacturing spare parts for centrifugal multistage ring-section pumps
- Manufacturing casts of movable operating element parts of electrical submersible oil pumps.



Factory departments

Foundry – two foundry complexes on the area of 1,200 m².

Pattern shop – 350 m².
Metalworking shop.



Model store

With large stock



QC Department

With state-of-the-art instrumentation for high-quality casting and processing



Liquid-foam casting (LFC) and hardening tar-sand (HTS) technologies

ABOUT THE FACTORY

Thanks to the innovative lost-foam casting technologies and our experience, we manage to manufacture casts requiring minimum subsequent machining and having smaller weight as compared to parts cast using the hardening tar-sand technology.

We always welcome new partners regardless of the complexity of the task we face.

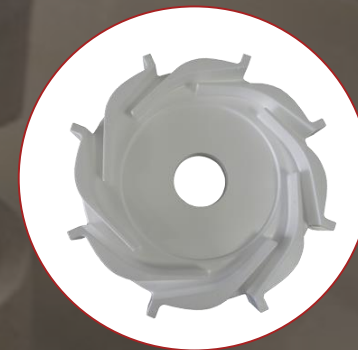
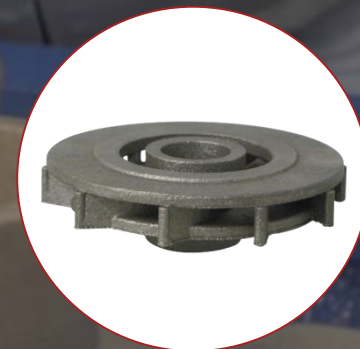
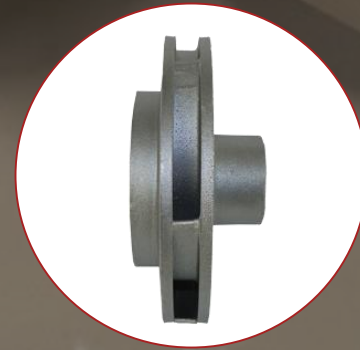
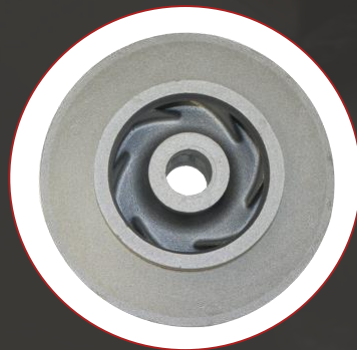
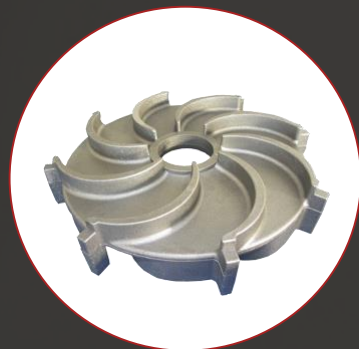
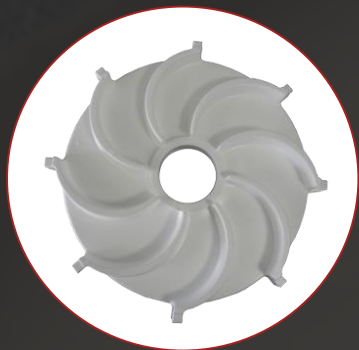


Incoming inspection of feedstock
and materials



Our manufacturing processes
meet all the environmental
standards

production
VOLUMES



100 tons

of quality casting per month

TECHNOLOGIES

Lost-foam casting (LFC)



The LFC technology has certain advantages as compared to traditional casting methods.

It produces casts weighing 50 g to 300 kg, with the surface smoothness of at least Rz 40, and precision starting with class 7

(GOST 26645-85)

TECHNOLOGIES. LFC PROCESS



Polystyrene foaming

1

Manufacturing a polystyrene foam pattern of the future cast

2



3

Gluing the pattern cluster made of polystyrene foam patterns and the sprue system

4



Baking the polystyrene foam pattern



Continued on the next page

TECHNOLOGIES. LFC PROCESS

Applying the nonstick coating to the cluster

5



6

Molding the cluster in the flask



Pouring metal



7



8

Casting finishing



ADVANTAGES

of the lost-foam
casting technology

No. 1

Minimum casting
allowances

No. 2

Decreasing the number of
subsequent cast machining
operations

No. 3

Minimum roughness of
unfinished surfaces

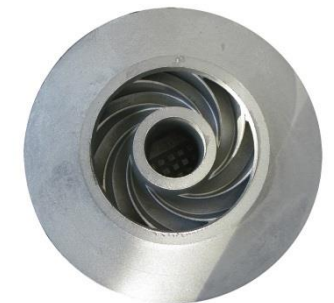
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Reduction of subsequent
machining waste

HARDENING TAR-SAND TECHNOLOGY

Hardening tar-sand process

1. Preparing the mixture (mixing sand with tar and hardener)
2. Filling the molding tools with the mixture and manufacturing bars and half-molds
3. Applying nonstick coating to the hardened molds
4. Assembling half-molds and bars
5. Pouring metal
6. Curing and cooling
7. Knocking out and cleaning parts
8. Cutting the sprue



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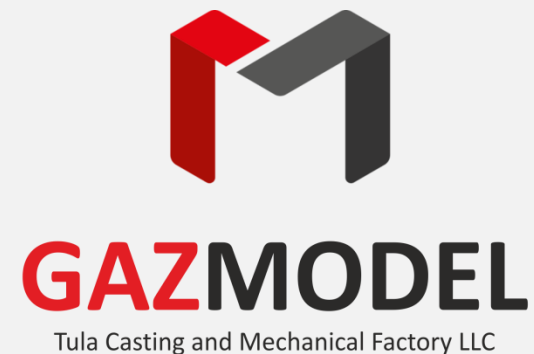
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