



BLISK CASTING

Perfection. That matters!

Corporate Brochure

A large orange industrial robotic arm dominates the right side of the frame. In the background, a worker in an orange shirt and dark overalls stands near a control panel. The setting is a factory with various metal components and machinery visible.

**ENTER THE WORLD OF HIGH-PRESSURE
ALUMINIUM DIE-CASTING**



Blisk Casting was founded in 1985 by Mr. Valentin Bašelj in Slovenia, Kranj, which is 20 km from the country's capital Ljubljana. Since then, Mr. Valentin Bašelj passed his passion of die casting to his son, Boštjan Bašelj, who took over the company in 2009 and grew and expanded it to the level it is today. We are proud to announce that we are one of the largest family-owned aluminium die casting foundries in Slovenia.

"My ambition is to continuously grow, organically and technologically, and to become one of the important players on the European market!"

Boštjan Bašelj, CEO





BLISK ADVANTAGES

- ✓ Having an **efficient integration** of knowledge and experiences.
- ✓ All of our employees are committed to supplying the highest **quality of services**.
- ✓ Customer **satisfaction** is our premise for success and growth.
- ✓ Permanent investments into **modernisation** and **new technologies** give us competitive edge on the European market.
- ✓ **Flexibility** and short response time.
- ✓ Financial **stability**.
- ✓ The ability to offer **complete services**.
- ✓ **A passionate team** that likes what we do and strives for perfection!

PRODUCTS & SERVICES

You can enjoy a complete portfolio of services:

1 Production of high-pressure aluminium die-casting parts

2 Mechanical treatment and machining of casting

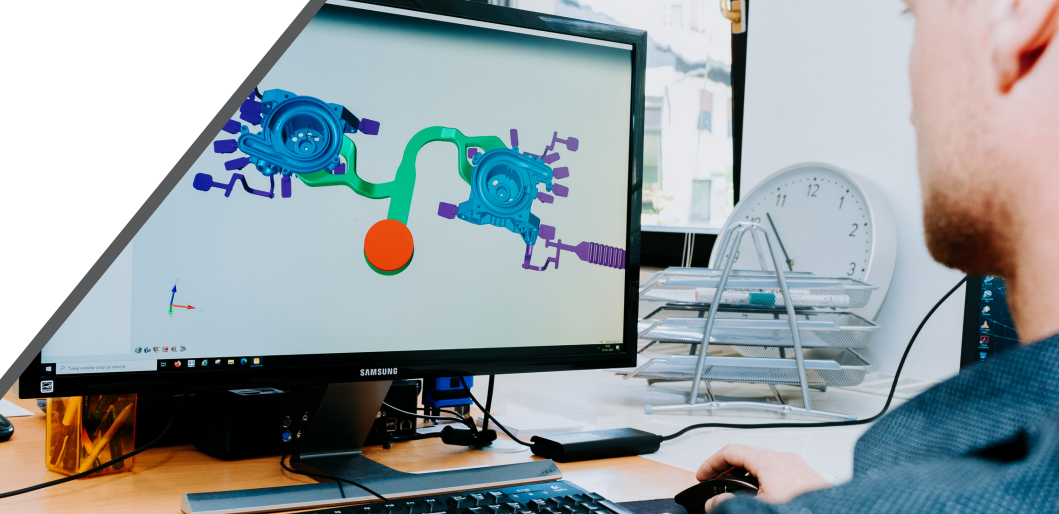
3 Design and production of tooling

4 Surface treatment and transport

5 Technical support

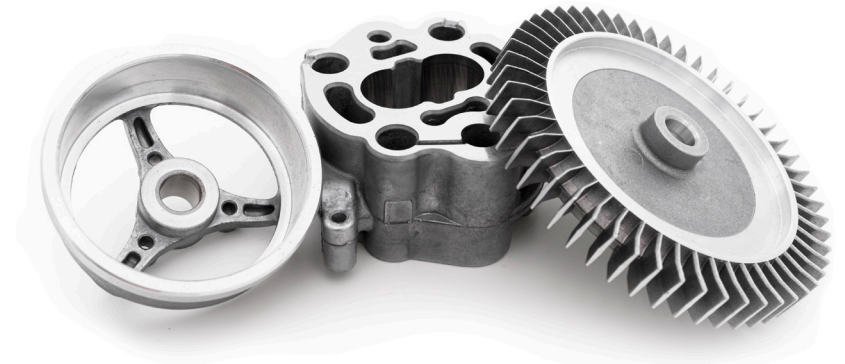
6 Prototyping

7 Tooling



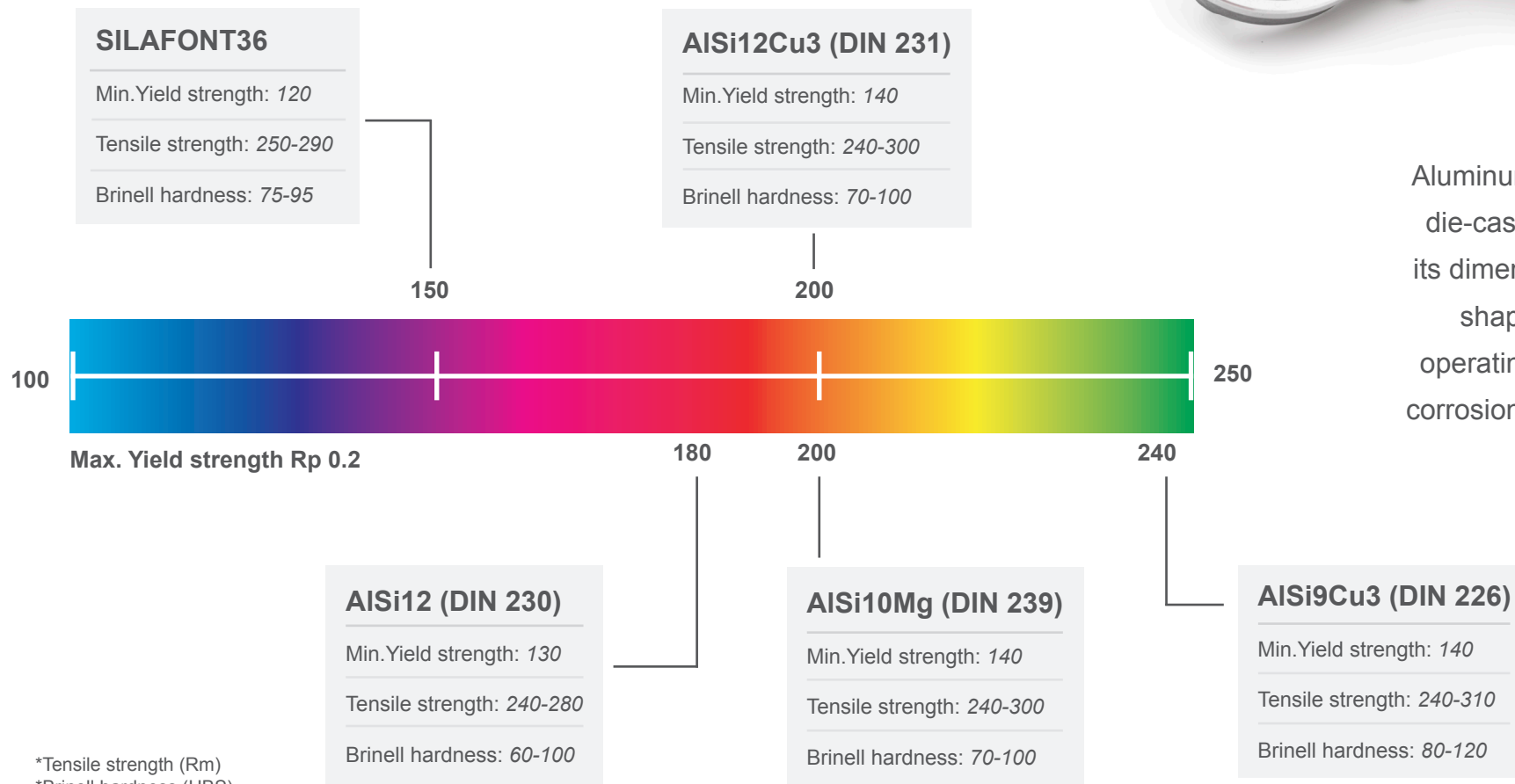
ALUMINIUM DIE-CASTING PROCESS

The Aluminum die casting process uses the cold chamber casting machine where the molten metal from the **melting furnace** (Bota/55) is landed from the holding pot for each casting.



Alloys in use

Aluminum is used in high-pressure die-casting processes because of its dimensional stability in complex shapes. It also withstands high operating temperatures and offers corrosion resistance and versatility.



CASTING MACHINES

The ejector system pushes the casting out of the die half, before the casting is removed by a worker or a robotic arm. CNC machines process the casting using **milling** and **drilling** operations.

Because of the high pressure, our machines by the Italian manufacturer Idra use next **closing forces**:

1x 250 T

1x 420 T

1x 450 T

1x 560 T

1x 600 T

1x 750 T

1x 1150 T

1x 1550 T

CNC MACHINING

HAAS VM2HE

762 x 508 x 508 mm

30-hp (22.4kW)

12,000 rpm

HAAS VF2 SSHE

762 x 406 x 508 mm

30-hp (22.4kW)

12,000 rpm

HAAS Super MiniMill 2

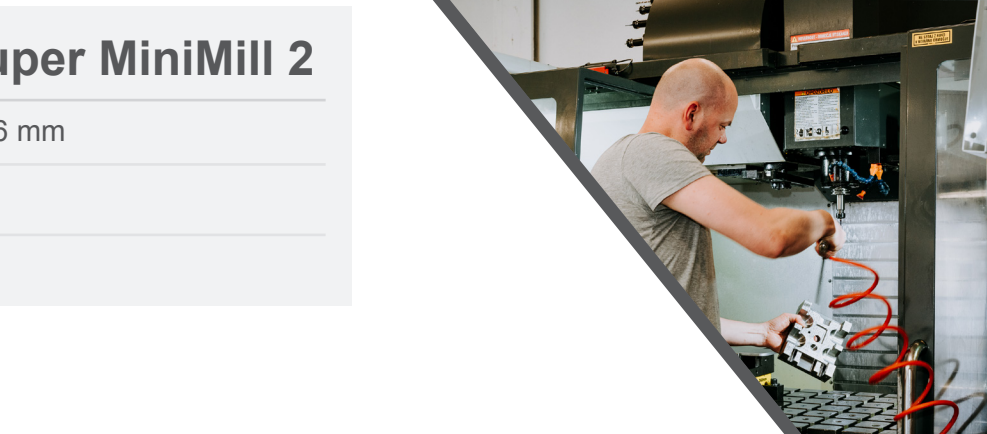
508 x 406 x 356 mm

15-hp (11.2kW)

10,000 rpm



Raw castings
maximum weight



RESEARCH AND DEVELOPMENT

We develop new products and make process improvements using modern technologies. The following areas are researched and developed with the RRI project:

Protection of hard coatings

Increases the durability of foundry tool components

Automotive industry (e-vehicles)

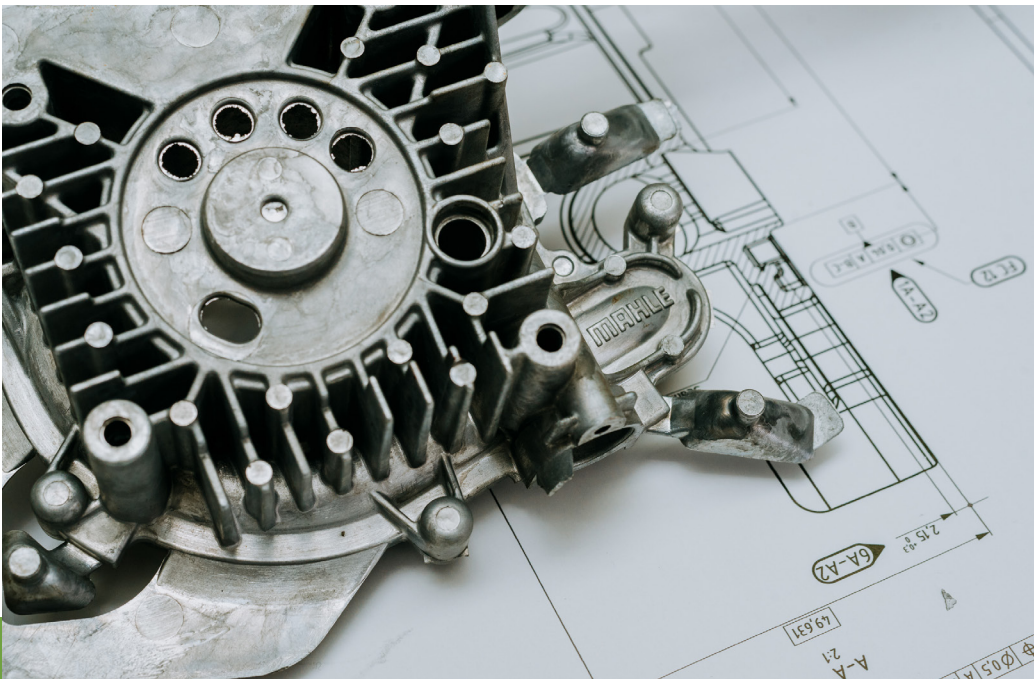
Result in more demanding Al-alloy castings

Mechanical and heat treatment of new highly thermally conductive tool steels

Increases in productivity and lower ejection

Measuring the temperature of tool components during the die casting process

Helps develop a model for a better and more timely understanding of the situation and consequent actions



PROTOTYPING

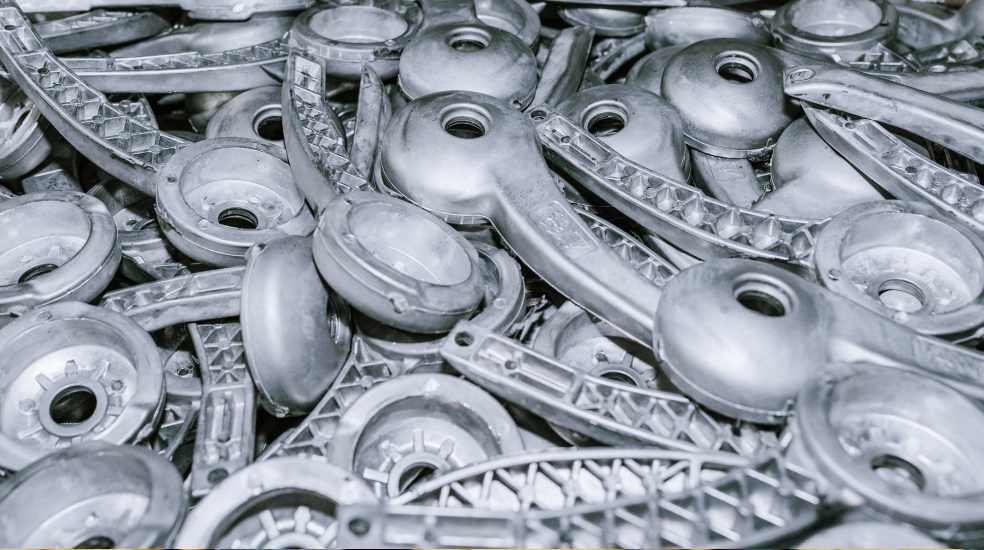
Depending on customer requirements and wishes, we also produce prototypes that can be used for early testing. After the test period, some changes/adjustments can be made and tooling prepared.

QUALITY ASSURANCE

- ✓ Customer requirements and specifications are crucial.
- ✓ Procedures are in accordance with APQP.
- ✓ Regular training of employees.
- ✓ A control plan introduced for each process step.
- ✓ Auto-control principle: knowledge & responsibility.
- ✓ Spectrum analysis of material
- ✓ The quality of castings is checked by X-ray.



The **quality of service** is one of the main concerns of our employees, and a **satisfied customer** is the only **guarantee** for the successful growth of our company.



INDUSTRIES

Blisk is active in many different industries:

- ✓ Automotive
- ✓ Electronics
- ✓ Electrical
- ✓ Health & Cooling
- ✓ Interior industry
- ✓ Lightning industry
- ✓ Mechanical engineering

and many more ...

Aluminium die casting products are widely used in the automotive industry thanks to their light weight, corrosion resistance and extreme durability. Blisk specialises in producing various types of aluminium parts for the automotive industry under all required certificates and specifications.





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BLISK
CASTING

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