



ASTRON
STEELCAST PVT. LTD.



**Crafting
Excellence,
Defining Scale**

Since
2020

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About Us

Astron Steelcast Pvt. Ltd. is a leading manufacturer of ferrous investment castings produced through the lost wax process. Established in 2020, the company has built a strong reputation for precision, reliability, and quality excellence in the investment casting industry.

Backed by state-of-the-art technology, modern equipment, and in-house technical know-how, the company develops and manufactures a wide range of high-quality investment casting components that ensure superior performance, functionality & cost-effectiveness.

Why Us?

- International quality products at a competitive price.
- Lean, Flat and Focused Organization.
- Maintains full Lot Traceability through the Job card system.
- In-house Tool-room facility.



Our Mission

At Astron Steelcast Pvt. Ltd., our mission is not just a statement; it's a pledge to uphold excellence in every facet of our operations. We are dedicated to the seamless supply of quality products, adhering rigorously to timelines. Our commitment resonates through every process, ensuring that our clients receive not just products but a testament to precision and reliability.



Our Vision

"If you aim for nothing, you'll hit it everywhere. Don't leave anything in your business to chance." We believe in simple not the complex. We believe in deep collaboration and cross-pollination of our group which allow us to grow and develop in a way that others can't shine like us. We shall strive vigorously to delight our extensive network of clients- who are our very purpose.

Quality Objectives

We at Astron Steelcast Pvt. Ltd. are committed to meet customer's requirements through continual improvement of our quality management systems. We shall sustain organizational excellence through visionary leadership and innovative efforts.

- ▶ To achieve customer satisfaction
- ▶ Provide in time delivery
- ▶ To control rejection / rework
- ▶ To control cost of poor quality
- ▶ To achieve '0' defect in supplied product at customer end

Receiving Inspection of Purchased Products

The goal of our receiving inspection is to ensure only defect-free, specification compliant materials are used in the lost wax process, delivering high-quality precision castings.

- Verification of Supplier Documents
- Chemical and Physical Testing
- Visual and Dimensional Inspection
- Non-Conformance Control

Final Inspection

100% Visual inspection of each lot produced as per defined plan with reference to visual defects like operation missing, rusts, blow holes, rough finishing, dent marks, tool marks and input material defects.



In-Process Inspection

Set up approval of manufacturing process as per defined control plan with reference to drawing prepared.

In-process inspection as per defined control plan with reference to drawings prepared on hourly basis.

Separate identification & traceability of non conforming products at In-process stage.

Pre-Dispatch Inspection

Pre-dispatch inspection before deliver the products to customer as per their requirements along with inspection report & separate identification of inspected samples with reference to customer or internal drawing.

Pumps



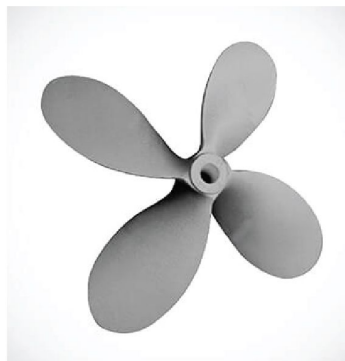
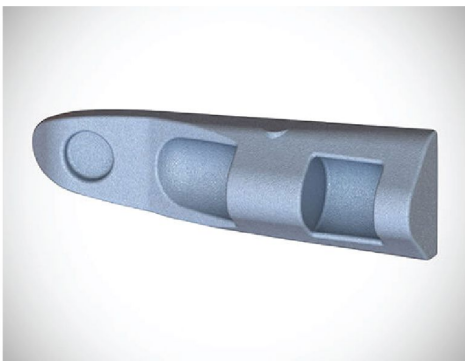
Machined Parts



Valves



Marine



Industrial Parts



Hardware Parts



Automobile



General Engineering



Process



01

Wax Injection Moulding

The melting shop is equipped with medium frequency Induction furnaces of 275 KW, with carrying crucibles of 250 kg & 350 kg.



02

Ceramic Coating

We are using fused silica, Zircon sand, and colloidal silica (water-based) binders for different applications.



03

Melting

The melting shop is equipped with medium frequency Induction furnaces of 275 KW, with carrying crucibles of 250 kg & 350 kg...



04

Fettling

Our fettling department is equipped with Machines for Shot Blasting, Abrasive cutting, Belt Grinding, Welding, and other machinery.



05

Heat Treatment

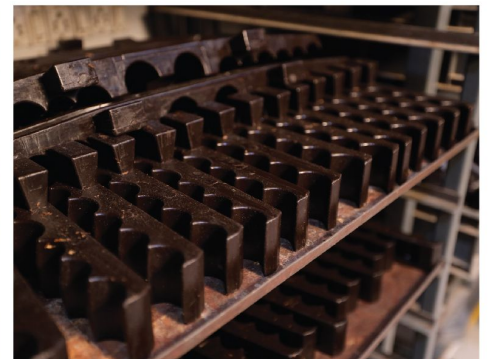
Heat treatments are used to control hardness, mechanical properties, corrosion resistance, and surface treatments. Heat treatment processes are being done as per the Customer's requirements.



06

Final Inspection

We are doing a full visual inspection followed by a dimensional inspection. If the customer requirement for Radiography and other NDT then we can provide them.



Testing Facilities

Mechanical Testing :

Universal Testing Machine 40 KN capacity with electronic extensometer.

Impact Testing :

Impact Testing Machine up to 300 J.

Test temp range - Ambient to -196°C.

Microscope: Microstructure Examination.

Hardness Testing: Brinell & Rockwell Hardness Tester

Inter Granular Corrosion Test: Unit for IGCT practice A, B, E, C & F.



Chemical Analysis:

Spectrometer: Fe, Ni, Al, Cu, CO base Spectrometer up to 45 elements with Nitrogen analysis.

Other Testing:

Other testing facility like, Special Microstructure, Ferrite Content, Pitting Corrosion Test and any other tests are carried out at NABL approved third party laboratory.

Non-Destructive Testing:

Dye (Liquid) Penetrate Test.

Magnetic Particle Testing.

Radiography Testing.

Ultrasonic Testing

Air Test

Hydro Test

Dimensional Tolerance

Those tolerance apply as general.

Up to 25mm	- ± 0.12 mm
25 to 50mm	- ± 0.25 mm
50 to 75mm	- ± 0.38 mm
75 to 100mm	- ± 0.50 mm
100 to 125mm	- ± 0.62 mm
125 to 150mm	- ± 0.76 mm



Factory Address:

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