

About SPM Castings

We are a ISO 9001-2008 Non ferrous Foundry specialized in making Aluminium and Zink base Alloy Castings by Gravity Die Castings process'.

Gravity Die Casting Process' also known as 'Permanent Mould Process' is suitable for medium to large size batch production. It is superior in 'geometrical accuracies' and 'aesthetic appearance' to 'Sand Casting Process'. GDC process can handle more variety of Aluminium alloys (heat treatable), than Pressure Die Casting (PDC). Sometimes even 'sand cores required for complex shapes' can be used in this process, which is not possible in PDC. Cost of the dies for GDC can be 25-30% of PDC. Medium size castings (weighing 10-15 Kg.) can be cast easily. SPM Castings intends to give complete solution to industries in requirement of Aluminium alloy castings.

Our Gravity Die Casting foundry is located in a prime location at old Mumbai- Pune highway near Chinchwad Station well connected by Road and Railway with Mumbai The Commercial Capital of India.

Development of Castings

We offer designing and manufacturing of required Dies, producing castings and machining them as per requirement. All development activities will be carried out under one roof. We can reduced weights by 25-30% by converting Sand Cast components to GDC castings. This was achieved by re-engineering the component design, by reducing wall thickness, eliminating or reducing machining allowances. Castings produced by GDC process are 30-40% stronger (tensile /elongation) than Sand cast Components.. To produce castings we have electric melting cum holding furnace to melt 1000 kg. aluminium per day.

Castings Presently Developed for Various Industries

- PMDC Motor Bodies / Flanges and Foots.
- Enclosures(Junction and shrouded Boxes).
- Flexible Jaw Couplings.
- Zink alloy GDC Castings.
- Brass GDC Castings.
- As replacement of extruded parts.
- Electric Power transmission hardwares.
- Pneumatic solenoid valves, bodies and covers.
- Hoists and cranes castings.
- Special alloy defense equipment castings.
- Finned cylinder blocks cylinder heads and gear boxes.
- Bowl feeder top castings.
- Gear box housing castings.
- Proto type castings.

Manufacturing of Gravity Dies

We have in house well equipped CNC and VMC tool room and machine shop to manufacture intricate gravity dies and machining castings as per requirement . As the die and castings are made at the same place proving of the dies becomes our responsibility and cost of the die can be amortized over fixed supply of castings. We will supply fully machined castings.

Advantages Over Sand Castings

- Less wall thickness (3 to 3.5 mm)
- Reduce weight (Upto 35% in some cases)
- Eliminate open tolerance machining.
- Reduced machining allowance 1 to 2 mm at tool point.
- Better mechanical properties.
- Better dimensional consistency.
- Better as cast surface finish.
- Can Cast with sand cores Steel or Brass Inserts.
- Small batch size can cast economically .
- Weight range can cast 25 gm to 15 kg.

Advantages of using Aluminium Alloy for Casting Process

Aluminium a popular choice for electrical and mechanical engineering castings aluminium has –

- Light Weight .
- Good Strength.
- Good Castability.
- Good Corrosion resistance.
- Good Thermal and electrical conductivity.
- Non-magnetic properties.
- Good machineability and dimensional stability.
- Good as cast surface finish .
- Good appearance.
- Easily available.
- Suitable for all process.
- Recycle Is possible.



Some of our Satisfied Customers

- 1) Schrader Duncan Ltd – Pneumatic pilot housing poppet valves and base castings.
- 2) Ajay Syscon Pvt Ltd – Temp Measuring equipment Bodies.
- 3) Pethe Brake Motors- Friction Discs..
- 4) Sai Control System – Junction/ Shrouded Box and Cover Castings.
- 5) Polybond India Pvt Ltd - Conical Mount.
- 6) Hitech Motors - PMDC Motor Bodies, Flanges and Motor foots.
- 7) Kulkarni Transpower Pvt Ltd – Flexible Jaw Couplings.
- 8) Adinarayan Engg Pvt Ltd – Aluminum 'U' Clamps.
- 9) Anant Industries – Defense Castings.
- 10) Drive Gear Power Transmission – Gear Box Housings.
- 11) Dharia Engineers – Aluminum Power transmission Hardwares.
- 12) J.B. Advani – Portable Welding machine part.
- 13) PMG Polymers Pvt Ltd – Aluminum Inserts for rubber parts..
- 14) Shree Pressings – Aluminum Castings suitable for Plating.
- 15) Vintech Industries – Compressor Castings, Connecting rod, Cylinder.
- 16) Kimaya Enterprises – Zink Alloy Castings.
- 17) Rishabh Impex Packaging Solutions – Packajing Industry Casting.
- 18) Kirpekar Engineering Pvt Ltd - Zink Anodes.
- 19) Shremik Feeding Systems.Bowlfeeder Top Castings.
- 20) Three Tech Automation.
- 21) Poona Bearings Pvt Ltd.Aluminium Pullies.
- 22) The Parshivnath Metals Pvt Ltd.
- 23) Hindustan Automation Pvt Ltd.
- 24) Hind Industries.



Aluminium Gravity Die Castings
Gravity Dies
CNC & VMC Machining



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