



**VIJAY**

**SPHEROIDALS**

- CENTRIFUGAL CASTINGS
- GRAY & S.G. IRON FOUNDRY
- 300 TONS PER MONTH
- ISO 9001:2000 CERTIFIED

## SPINNING INNOVATION

Plot No. 17 – B, 2nd Phase, Peenya Industrial Area,  
Bangalore – 560058. INDIA

Office : 91–80–28394621 / 28372961 Fax: 91–80–41170947  
Website: [www.vijayspheroidals.com](http://www.vijayspheroidals.com)

In Vijay Spheroidals we believe in meeting the customer's requirement to the utmost satisfaction. We strive hard to stay abreast with the market requirements and are always enthusiastic to make new developments.

Vijay Spheroidals is an ISO 9001:2001 certified company, that provides consistent quality product through continual improvement of Quality Management System by involving all employees of the organization and enhancing customer satisfaction.

Vijay Spheroidals, situated in Peenya Industrial Area Bangalore, one of the biggest industrial areas in this part of the country, has an installed capacity of 300 tonnes of castings per month and has plans to expand its vertical and horizontal centrifugal casting activities to meet the increasing demands of the market.

Under the able leadership of Mr. B.S.Vijayendra, a postgraduate in Foundry Engineering from IISc Bangalore and an experience of over thirty five years, thrust is given to have the best equipped and most efficient centrifugal casting foundry which would address every customer's individual needs.

The Foundry has a total installed capacity of 300 tons of production per month and is situated on one acre plot (at 17-B, 2nd phase, Peenya Industrial Area, Bangalore, India) having a cover area of 8,000 sft, with a connected load of 500 KVA, with the following facilities.

**Melting**

Grey iron & spheroidal or nodular graphite iron as per Indian & International standards

- Induction Melting Furnace, with a spare shell: 120 kva - 400kgs Bath capacity (2 nos)
- Duraline Induction Melting Furnace: 175 kva – 300 kgs Bath Capacity

**GREEN SAND MOULDING**

Batch type mix. muller, 150kgs batch capacity

- Moulding Machine: WHPL –1 (Box size 400 X 500mm)

**LABORATORY**

- Fully equipped Chemical Laboratory
- Inverted Metallurgical Microscope
- Brinell Hardness Tester
- Spectroscopic Analysis & Heat treatment outsourced

**OTHER FACILITIES**

- Fettling Shop
- Stand by power supply 250 KVA Diesel Generator
- Fully equipped machine shop
- Digital Carbon equivalent, Carbon, Silicon & Molten metal temperature equipment
- All Castings are proof machined to party's requirement and drawings
- Grades Covered: As per Indian and International Standard. (SG & CAST IRON)
- Range (Weight) 3Kg Min to 300Kg Max.

**CENTRIFUGAL CASTING MACHINES**

- Horizontal:
  - Max. 400mm F x 500mm long
  - Min: 50mm F x 400mm long
  - Bore min. of 30-mm F
  - Wall thickness min. of 20mm
- Vertical:
  - Max. 500mm F X 400mm long
  - Min: 50 F X 400 long
  - Bore Solid
  - Specialized: 400mm F 25mm thick
  - Maximum Wt, of a single casting 350kgs, Min 3kgs.



Centrifugal casting process is specifically adapted to the production of cylindrical parts. In the centrifugal casting process, molten metal is poured into a hollow cylindrical mold spinning about a horizontal or vertical axis.

The Advantages of Centrifugal Casting:

- Improved physical properties
- Longer Life
- Competitive Product Pricing
- Faster Delivery
- Minimum Developmental Lead-time and Expense
- Reduced Rejects
- Production Flexibility

We offer Gray Iron and SG Iron castings (Min:Wt-3Kg. & Max:350 Kg) through both horizontal and vertical centrifugal casting process. While centrifugally cast products generally have a bore, we at Vijay Spheroidals, can produce solid castings using our vertical centrifugal machines.

These centrifugally cast products which are formed under pressure along with directional solidification, have the following beneficial characteristics:

- very dense & close grained structure
- absolutely no porosity
- high structural uniformity
- improved mechanical properties of tensile strength & elongation
- absence of inclusion and shrinkage defects

Due to the above mentioned characteristics, centrifugally cast products are put to high pressure applications in:

- hydraulic industry
- automobile industry
- machine tools industry
- heavy engineering industry



**Pulleys**

**Material:**  
Cast Iron. FG 260 IS 210  
**Weight:** 10.50 Kg  
**Application:**  
On Engine Crank Shaft

**Damper Housings**

**Material:**  
S.G. Iron. 500/7 Is1865  
**Weight:** 7 Kg  
**Application:**  
Earth Moving Equipment



**Bearing Housings**

**Material:**  
S.G. Iron. 500/7 IS 1865  
**Weight:** 26 Kg  
**Application:**  
Earth Moving Equipment

**Head-end Covers**

**Material:**  
S.G. Iron  
**Weight:** 7 - 13.5 Kgs  
**Application:**  
Hydraulic cylinders  
& tipper applications



**Valve Guides**

**Material:**  
F.G. 260  
High Chromium Alloy - A154  
High Phosphorous Alloy - A155  
**Weight:** 18 Kgs  
**Application:**  
For Marine Engines

**Rectangular Valve Housing Blocks**

**Material:**  
S.G. Iron 500/7  
**Weight:** 50 Kgs  
**Application:**  
For Power Packs





## Clients

Wipro Infrastructure Engineering Ltd

Speed Val Industries

Bharat Fritz Werner Limited

Lincoln Helios (India) Ltd

British Engines (India) Pvt. Ltd

D.C.Auto Parts Pvt. Ltd

Ferro Foundries Private Limited

Ashwin Precision Products Pvt. Ltd

MASP Funktioning

Dynaspede Integrated Systems (P) Ltd

Canara Hydraulic Pvt. Ltd

Bosch Rexorth (India) Ltd

Techvac Engineering

Hindhivac Private limited

Kalki Fluid Power

Track Mates

Hydraulics India Pvt. Ltd

Triton Valves

ACE Designers

National Aeronautics Limited

India

Tel:

91-80-28394621

91-80-28372961

Fax:

91-80-41170947

US

Tel:

1-61432 39047

Email:

mail@vijayspheroidals.com