



**CASTING
YOUR
DESIGNS
IN STEEL**



APEX ALLOY STEEL PVT. LTD.

AN ISO 9001:2008 CERTIFIED COMPANY

COMPANY PROFILE

Apex Alloy Steel Pvt. Ltd. was incorporated in 1991 by highly experienced Foundry Professionals. The Foundry is situated in the northern part of Vibrant city of **Ahmedabad** in **Gujarat** state, at a distance of 7 kms from Airport. The Foundry is spread over 9000 Sq. Meters area with Plant and Office area of 6000 Sq. Meters. Consistency of Quality is maintained by **well drawn quality plan and systems**, led by qualified and experienced people. We can supply the Cast Component in Fully / Partially machined condition. Our work force consists of 20 engineers, 50 skilled & around 100 semi skilled personnel, working in cohesion with each other in various departments.

We have qualified NDT Level- II personnel for quality inspection of castings in Radiography Test / Ultrasonic Test / Magnetic Particle Test / Dye Penetrant Test.

We can make single piece Steel Casting upto 1800 kgs for Valve & Pump Components and 2000 kgs single piece for Engineering Industries. Our installed capacity is 250 tons of castings per month.

OUR GROUP COMPANIES :

- **Flowchem Industries** : Manufacturers of Industrial Valves
- **Flowchem Industries (Forging Unit)** : Manufacturers of Closed Die Steel Forgings
- **Flowchem Process Equipments** : Fabrication of Pressure Vessels & Equipments
- **Apex industries** : Industrial Coatings / Plating / Anodizing

Material Grades / Specifications of Steels we regularly make :

- Carbon Steels – all grades as per ASTM A 216, European, DIN, and Indian Standards.
- Low Alloy Steels as per ASTM A 217, A487.
- Cryogenic Grades such as LCB, LCC, LC1, LC3 as per ASTM A 352.
- Stainless Steel as per ASTM A351, A743, A744, European and DIN Standards like : CF8, CF8M, CF3, CF3M, CN7M / Alloy 20, etc.
- Duplex & Super Duplex Steel as per ASTM A 890, A995.
- Inconel / Nickel based Alloys as per ASTM A 494 like : CU5MCuC, Hast Alloy C, Monel, etc.
- Nickel Aluminum Bronze ASTM B 148 C95800, etc.
- Manganese Steel as per Indian Standard 276.
- Heat Resistant Steel as per ASTM A 297 and IS 4522.
- High Chrome Steel.
- Relevant **WPS, PQR, & WPQ** are approved by **Third Party Inspection agencies**.



PRODUCT RANGE

VALVE CASTINGS



ASTM A 217 Gr WC9



ASTM A 494 Gr CU5MCuC



ASTM A 890 Gr 4A



G17CrMo 5 5

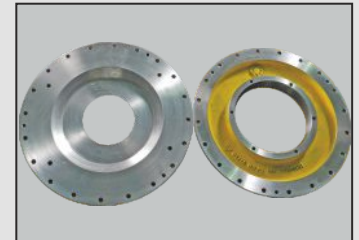


ASTM B 148 Gr C95800

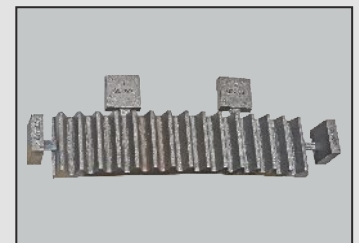


ASTM A 217 Gr CA15

PUMP CASTINGS



ENGINEERING CASTINGS



PRODUCT RANGE

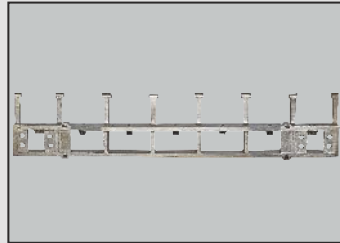
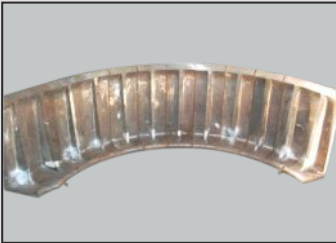
MACHINED STEEL CAST COMPONENTS



MANGANESE STEEL CAST COMPONENTS



HRCS CAST STEEL COMPONENTS



Some of Our Valued Patrons

- Flowchem Industries, Ahmedabad
- L & T Valves Ltd.
- Mascot Valves Pvt. Ltd.
- Steel Strong Valves (I) Pvt. Ltd., Mumbai.
- Niton Valves (I) Pvt. Ltd.
- Forbes Marshall Pvt. Ltd.
- Weir BDK Industrial & Power
- Bharat Heavy Electricals Ltd., India,
- Saurashtra Cement Ltd.
- Chandrapur Cement Works
- Thyssen Krupp Industries Ltd.
- Siemens Ltd.

OVERSEAS CLIENTS :

- Allightsykes, Australia
- Allightprimax FZCO, Dubai
- Sud Robinetterie Industrie, France
- Rigau, Belgium
- Alloy Spares, Kenya, for Cement plant parts

Types of Castings we make:

- **Industrial Valves:**
All types of Valve Castings such as Gate / Globe / Check / Ball / Butterfly / Strainers / Safety, etc.
- **Pump Castings :** Volutes, Impellers, Wear Plates
- **Cement Plants:** HRCS & Abrasion Resistance Castings for Grate plate / TIP / Sector / Grate Bars / Kiln.
- **Power Plant & Engineering Industries :** Turbine parts, etc.
- **Oil, Gas & Chemical Industries:** Stainless Steel, Duplex & Super Duplex Steel Castings
- **Mining, Earth Moving and Construction equipment (Abrasion Resistant):** Manganese Steel Castings like Jaw Plate, Roll Shell, Crushing Rings, Liners, Tooth Point, Hammer, etc.
- All of the above castings are available in **fully / partially machined condition.**



CREDENTIALS & THIRD PARTY APPROVALS :

- ISO 9001: 2008
- PED & ADW0 Approval
- Foundry Approval by Engineers India Ltd. (EIL)
- Certificate of Approval for WELL-KNOWN Foundry by CENTRAL BOILERS BOARD (IBR)
- Foundry Approval - EIL's Pre-Qualification for material grade ASTM A 890/995 Gr. 6A under TPI witness by DNV.
- Foundry Approval-NACE Pre-qualification for NACE Mr0175 & NACE MR0103 Under TPI witness by BVIS.

Our foundry is regularly visited by various Third Party Inspection Agencies for verification / witness in making Radiography Quality Castings. The agencies includes but not limited to:

LLOYDS, DNV, BVIS, TUV, NPCIL, IOCL, ONGC, GSFC, Germanischer Llyods, Velosi, etc.

ALLIGHTSYKES



SIEMENS

Foundry Details and Facilities

- **Medium Frequency Induction Melting Furnace - 2 nos.**
 - 550 KW Power pack with 2000 kgs. and 1000 kgs. Crucibles
 - 175 KW Power pack with 300 kgs. and 150 kgs. Crucibles
- **Sand Plant - 2 types:**
 - Continuous Mixer - 10 Tons capacity for chemically bonded (Alpha set) Sand Moulding System with Compaction Table and Roller Conveyor System.
 - Semi-Automated Silicate / CO₂ Moulding Sand Plant with Core making facilities in materials like Alpha set, Phenolic-Ester cured, Phenolic-CO₂ cured, etc.
- **Heat Treatment Furnaces - Calibrated (Thermal survey) yearly under TPI witness:**
 - Gas Fired, Trolley Type, single batch load of 5 tons. - 1 no.
 - Oil Fired, Trolley Type, single batch load of 3 tons - 1 no.
- **Shot Blasting Machines:**
 - Hanger Type, with single load upto 2 Tons.
 - Two Table Type, Tables of Diameter 6' used alternatively.
- **Material Handling Facilities:**
 - EOT Cranes - 8 nos., (7.5 tons, 5 tons, 3 tons, 2 tons.)
 - Jib Cranes installed at various locations as required.
- **Chemical Analysis Facilities:**
 - Spectrometer - Vacuum Emission Type, Made in Germany, Fe & Ni based, 25 Channels & 17 elements with N₂ & Se analysis facility.
 - CRMs - Certified Reference Material - 20 nos., to calibrate / verify spectrometer performance, before analysis.
 - Wet Analysis Laboratory for analysis of Ferro alloys, also used for cross checking of spectrometer analysis results.
- **Mechanical Testing Facilities:**
 - 'FIE' make Universal Testing Machine with Electronic Extensometer connected to computer, Capacity - 20 Tons
 - Impact Testing Machine 'Fine Testing Machine make', Range : 300 Joules.
 - Hardness Tester-2 nos. Rockwell and Dynamic types.
- **Non-Destructive Testing Facilities available In-House:**
 - **Radiography Test:**
 - Radiography enclosure capable to handle 50 Curie of Cobalt - 60 source and Iridium source, can test Casting upto 200 mm thickness.
 - Dark Room for film development
 - Densitometer
 - **Magnetic Particle Test (MPI) :**
 - Capable to perform Dry & Wet type and Wet Fluorescent Test methods.
 - Prod Type machine - 2 Nos.
 - 'Sims' make Yoke Type Machine - 1 No.
 - **Dye Penetrant Testing Facilities (DPT/LPT) - with Wet Fluorescent method.**
 - **Ultrasonic Flaw Detector (UT)**
- **Measuring & Process Equipment** are calibrated under NABL accredited laboratory.
- **Mechanical Testing Equipment** are calibrated under NABL Lab. & TPI witness.
- We verify & ensure that the castings we supply are **free from Radioactive contaminations.**
- **Machined Steel Casting:**
Capacity to supply castings in **Fully / Partially machined condition**, available machines ranges from the conventional lathes to sophisticated **CNC, VMC, HMC Machines.**



APEX ALLOY STEEL PVT. LTD.

Regd. Office & Works : Plot # 413/2, Phase IV, G.I.D.C. Estate, Naroda, Ahmedabad - 382 330 (Gujarat) India.

Phone : +91 - 79 - 2282 0598, 2282 0721, +91 99798 82116, 98250 32796

E-mail : marketing@apexalloy.com • planning@apexalloy.com

Website : www.apexalloy.com