

CAST YOUR IMAGINATIONS



SHIVALAY
ALLOY CAST PVT. LTD.

About Us :

Shivalay Alloy Cast is a modern foundry specifically designed for the manufacturing of sand castings using a semi-automated no- bake Alkaline Phenolic (Alpha Set) sand system, located at Rajkot (Biliyala) in western India.

The company is engaged in manufacturing and supply of Carbon steel, Manganese steel, Alloy steel, Stainless Steel, Duplex Stainless steel, Nickel based alloy steel castings in various size and weights up to 1400 kgs per piece to meet international standards like ASTM, DIN, EN, BS and customer requirements. The products serve to Valve/Pump industry, Chemical Processing Plant, Refinery, Mining, Oil exploration, Marine, Power generation, Earthmoving Equipment, Automobile and General Engineering Industries.

We are an ISO 9001:2015 certified company by TUV NORD and we are also under the process of receiving of our PED from TUV NORD



Infrastructure:

Our 60000-square feet plant is strategically laid out to maximize production capacity. We have installed capacity to produce 2400 metric tons of castings per year. We have all the necessary in-house facilities to speed up production. We are a modern foundry with world-class machinery and highly experienced staff. Our plant has several wire rope hoist cranes with lifting capacity of 10 tons to help us make heavy weight castings.

-Molding

Our molding department is outfitted with world-class machines and a sand plant to produce the most efficient no-bake alkaline phenolic (Alpha Set) molds.

Description	Make
Articulating belt mixer 20 tons per hour	OMEGA, UK
Articulating belt mixer 10 tons per hour	OMEGA, UK
Close loop pneumatic sand conveying system	OMEGA
Knock-Out and Sand reclamation plant	OMEGA



-Melting

Description	Specification
850 Kw Medium Frequency Induction Furnace	500 kg & 1500 kg
Crane Hanging Ladles	Bottom Pouring & Lip Pouring
Ladle Preheater	Auto Control Preheater

We also have the option of adding one more 3000 kg crucible in the future.

-Fettling

Description	Specification
Shot Blasting Machine	3-ton capacity with dedicated crane
Dedicated Booth for Grinding	Pneumatic, Shaft, Angle grinders
Dedicated Booth for Welding & Gauzing	Set of welding and gauzing machines
Grit Blasting	For Cleaning SS castings
Measurement Instruments	Set of different measuring instruments and surface table

-Heat Treatment

Description	Specification
Gas Fired Heat Treatment Furnace	<ul style="list-style-type: none"> - Extractor Based and Auto Quenching - 3.2-ton capacity with independent crane - Having computerized record of individual thermocouples
Quenching Tank	<ul style="list-style-type: none"> - Dedicated Quenching tank with capacity of 60,000ltrs - Installed with Heavy Duty Water Pumps for proper agitation



Testing Facilities

- Sand testing:

1. AFS Analysis
2. Compressive strength testing
3. Clay content test
4. Moisture testing

- Chemical Testing

1. Fe & Ni base Spectromaxx make spectrometer with 32 channels.

- Mechanical testing

1. UTM machine with capacity of 400 KN
2. Electronic extensometer for 0.2% proof stress
3. Impact testing
4. Poldi hardness tester
5. Portable hardness tester digital
6. Brinell hardness tester

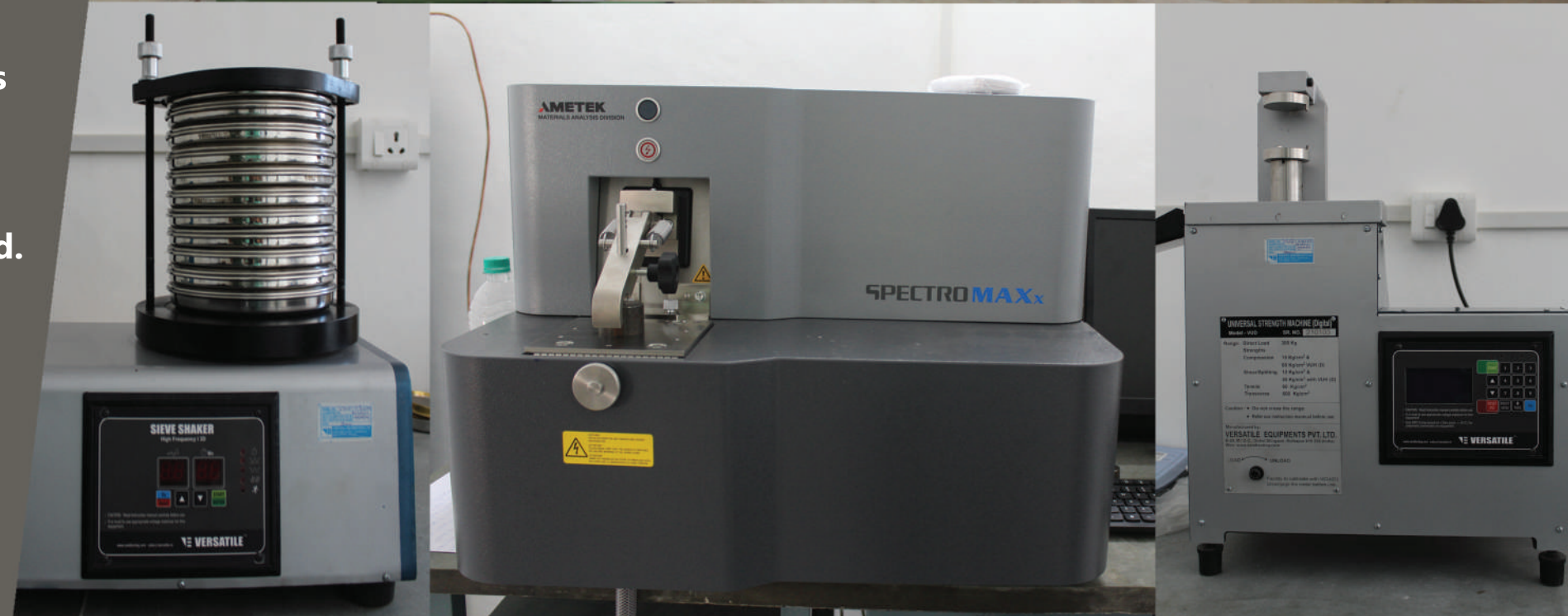
- Micro structure examination

1. Ferrite testing as per ASTM E 562 etc.
2. Micro structure examination as per ASTM A 923 etc.

- Muffle furnace with temperature range upto 1200* celcius

- Non-destructive testing

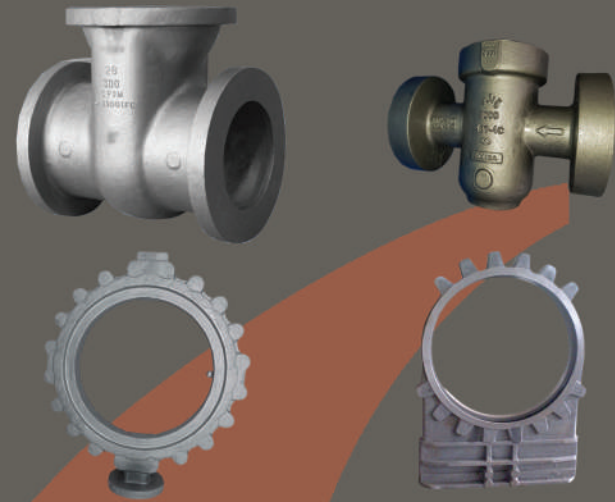
1. Liquid penetrant testing: Solvent removal
 2. Magnetic particle testing: Dry & Wet fluorescent method. Prod type technique
 3. Radiography testing: Ir 192 & Co 60
 4. Ultrasonic testing
- {Personnel qualification as per ASNT NDT Level II in all NDT Test}
- {NDT procedure for RT, UT, MPT, LPT and VT (As per MSS-SP-55) are approved by EN & ASNT Level III personnel }



Product Range :

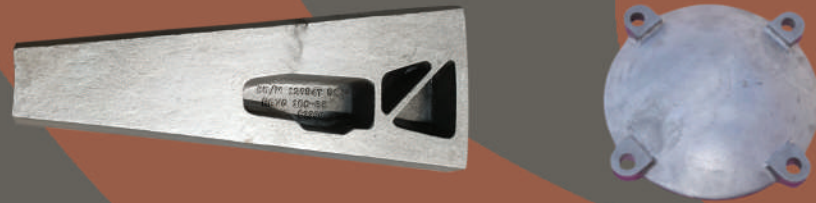
- Valves :

- Butterfly Valve
- Plug Valve
- Bayonet Valve
- Knife Gate Valve
- Check Valve
- Gate Valve
- Globe Valve
- Ball Valve
- Safety Valve



- Lifting/Earthmoving Equipment Components :

- Brackets
- Nose
- Bucket Tooth



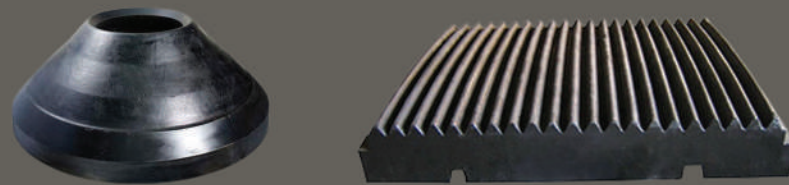
- Auto parts-

- Gear Box Cover
- Axel cover
- Axel Mount Brackets



- Pump :

- Pump Casing
- Bearing Housing
- Impeller



- Mining Equipments :

- Crusher Teeth
- Jaw Plate
- Cone Crusher

- Heavy Engineering Castings

Material Range :

Group	Standards	Grades
Carbon Steel	ASTM A216	WCB, WCC
Low Alloy Martensitic Steel	ASTM A217	WC1, WC6, WC9, C5
	ASTM A352	LCB, LCC, LC1, LC2, LC3, LC4
Martensitic steel	ASTM A217	C12, C12A, CA15
	ASTM A352	CA6NM
	ASTM A743	CA15M, CA40, CA6NM
	ASTM A148	90-60, 105-85
	ASTM A487	4-A, 4-B, 4-C
	ASTM A747	CB7Cu-1, CB7Cu-2
Austenitic stainless steel	ASTM A351	CF3, CF3A, CF8, CF8A, CF8M, CF8C, CF3MN, CG3M, CG8M, CK20, CT15C, CH20, CK3MCuN, CN7M, CN8MS, CN3MN
	ASTM A743	CF20
Duplex and super duplex stainless steel	ASTM A890	1A, 1B, 1C, 2A, 3A, 4A, 5A, 6A
	ASTM A995	2A, 3A, 4A, 5A, 6A
Nickle base alloy steel	ASTM A494	Cu5MCuC, CZ100, M35-1, M35-2, M30-H, M25-S, CY-40, CW-6MC, CW-2M, CW-12MW, CX-2MW, N-7M, N-12MW, CX2M



Shivalay Alloy Cast Pvt.Ltd.

**Revenue Survey no.21/3 Paiki Plot no. 68-72 & 89-93,
Avadh Industrial Hub, Gondal road, Near Semla Bus stop, Biliyala,
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