



**MELTO**  
ALLOY CAST

[www.meltoalloycast.com](http://www.meltoalloycast.com)

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# COMPANY PROFILE

We feel to pleasure to introduce our new company as **MELTO ALLOY CAST**

situated at Survey No.284/P3, Suvidha Industrial Area – 2A, Plot No.1, Nr Ribda Petrol Pump,  
Gondal Road, At: Ribda, Tal :Gondal – 360024, Gujarat-India.

We are **Manufacturing of CI and SG Iron castings** in the segment of Automobiles, Tractor and Trailers, Earthmoving Equipments , Agriculture Equipments , Transmission Components and as per drawing or sample receive by us. At present we are also manufacturing CI and SG Iron casting under Hi Melt Technocast since 2015. To meet the requirement of market and new innovation in market we introduce our company as **MELTO ALLOY CAST** with more manufacturing capacity of CI and SG Iron castings. In our new company we are manufacturing castings in Auto Mouldind Sand Plant with required machining facailty and lab testing facility for castings. We have young and qualified staff to expand our business with our auto Moulding manufacturing facility.

Our Unit is situated in 5000 Sq Yard land area with installed capacity of 150MT per month and proposed capacity of 300MT per month. Our unit is equipped with necessary infrastructure and we are manufacturing castings with implementing quality systems in our factory. We also have machining facility of castings for ease of our valuable customers under one roof.





## VISION

To be the best manufacturer for casting and its machined components in the country



## MISSION

- Continuous improvement with innovative automation
- Diversify with latest technology in manufacturing sectors
- Minimizing the variance through total employees involvement and continual improvements.
- Provide one stop solution for casting and machining for customer.



## CORE VALUES

Transparency & honesty towards all stake holders

- Customers
- Employees
- Supplier
- Society
- Environment

**Furnace :**

To meet the production capacity we installed 350KW furnace with the capacity of 150KG and 300 KG crucible. We also make provision of 500Kg crucible in future to meet high production capacity.

**Sand Plant :**

To meet quality needs of customer we installed sand plant for auto making mould sand with better quality. This sand plant is totally PLC controlled for batch mixing and moisture addition, to control the quality and consistency of the sand require for moulding. We have arrangement to supply sand from the sand plant to all the moulding line that we have installed. We have a 100 tons storage capacity which receives return sand after the knockout phase. This plant continuously reclaim sand and making new sand in the batch of 300KG with automatic intensive mixer and later which is used in making mould.

**Moulding Machine**

To meet the quality of casting we installed auto jalt squeeze moulding machine of 300 KG load capacity. With auto making mould we control harness of mould in every batch continuously. So with the use of auto jalt squeeze moulding machine we control defects of castings which occur due to hardness of moulds .

**Core Facility**

To meet the requirement of different types of core in castings, we installed Two core shooter for making core upto 20KG. To meet the high volume of core use in day to day moulding of castings. We also making various types of core with the help of core oil, Co2 and also with the help of No back sand as depends upon castings.





### **Shot Blast Facility**

To meet the day to day requirements of cleaning of castings, we installed Shot Blast machine with the capacity of 250KG. With the help of Shot Blast machine we clean all castings in-house so it is possible to make fast delivery of goods.



### **Lab Testing Facility**

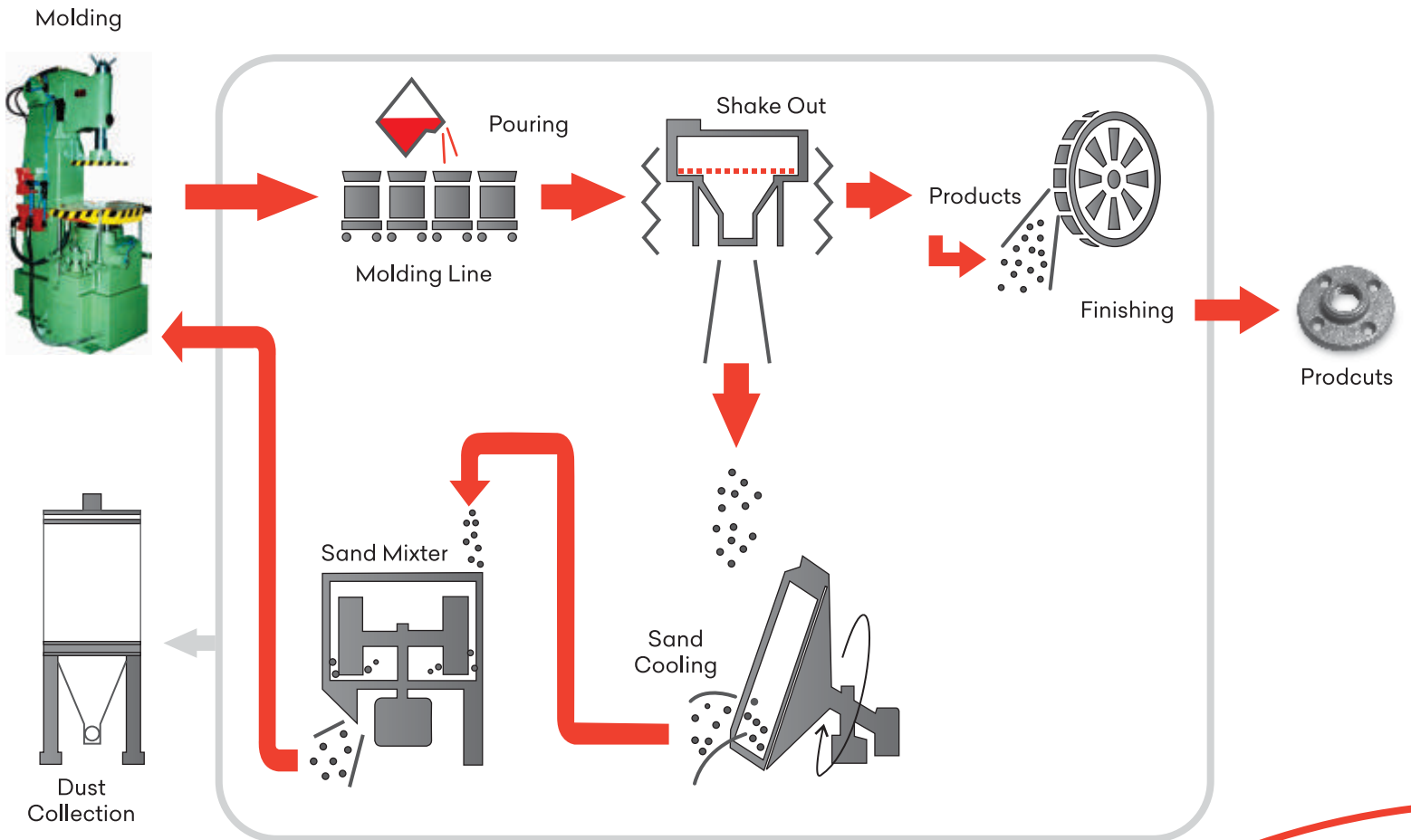
To meet the parameters of castings we have in-house lab testing facility. We have spectrometer to check chemical composition of casting in day to day production. we have hardness tester for checking hardness of castings at the end. Also we have sand siever testing machine, mold hardness tester, sand Moisture tester.

### **Grining & Paint**

To meet the sort of time of our customer We are grinding all castings and thoroughly check all types of castings individually and make sure its all defects free. Then we make paint if require and then dispatch at customer end with proper packaging facility.



## Process Layout



Machinery and Instruments	Qty.	Description	Machine Features
Furnace	1	Melting capacity 7MT per day with 300KG crucible.	IGBT Induction furnace
Moulding Machine	1	300 KG molding press (make Sree Sakthi Equipments) with the capacity of making 600 mold in a day. Also our mold box size is 560*610mm for every parts	Hydraulic and Pneumatic
Miller	1	Sand Miller with the capacity of making batch of 300KG sand in 120 second cycle time	Fully Automatic
Sand Plant	1	ARPA line with automatic knockout facility.	Semi Automatic Line
Dust Collector	1	Dust collected before making prepared sand	Fully Automatic
Cold Core Machine	2	Cold core machine with the capacity of making core upto 25KG	Fully Automatic
Shell Core Machine	2	Shell core machine with the capacity of making core upto 25KG	Fully Automatic
Shot Blast Machine	1	Shot blast machine for cleaning parts with capacity of 300KG material per in a cycle	Fully Automatic
Spectrometer	1	Optical Emission Spectrometer with Fe base (MS/CI/SIG)	Fully Automatic
Microscope	1	Microscope with finite corrected optical system with the objective of 5X, 10X, 20X, 50X, 100X	Automatic
Hardness Tester	1	BHN hardness tester for testing hardness of parts	Automatic Hardness Tester
Mold Hardness Tester	1	For testing mold hardness during production of mold	Digital
Core Hardness Tester	1	For testing core hardness during production of core	Digital
Grinder	4	For fettling of all types of casting	Manual

Melto Alloy Cast is built on a foundation of quality, and taking a walk around the shop you will see that every decision made is designed to support that foundation. Work tables are standardized, inspection equipment is kept segregated and protected at each work station. Inspection documentation is mandatory and every job that enters the shop generates an inspection criterion that is maintained throughout the process. At Melto Alloy Cast, quality initiatives comes from every layer of the company.



### **Inspection of Raw Material**

- Physical testing of every Raw Material according to control plan with reference to Raw Material Standard of every castings and other parts together.
- Dimensional assessment of manufacturing castings and other parts.



### **In Process Inspection**

- Set up endorsement of assembling process according to characterized control plan with reference to drawing arranged.
- In-process examination according to characterized control plan with reference to drawings arranged on premise
- Separate identification and traceability of non-conforming products at In-process stage.



### **Final Inspection**

- 100% Visual examination of every part created according to characterized plan with reference to visual imperfections like activity missing, rusts, blow holes, shrinkages, damages of parts, print marks and other required examination
- Testing dimensional assessment of every single basic measurement according to characterized control plan with reference to drawing arranged.
- 100% dimensional assessment of major basic components of little Resistance according to characterized control plan with reference to drawing arranged before dispatch
- Separate tag and Recognizability of non-adjusting items at conclusive stage.



### **Pre-Dispatch Inspection**

- Pre-dispatch examination before dispatching the items to client according to their necessities alongside review report and separate distinguishing proof of investigated tests with reference to client or internal drawings



Machinery	Qty.	Description	Machine Features
VMC	5	With the size of X-800mm, Y-550mm, Z-550mm	3 Axis
VMC	3	With the size of X-800mm, Y-550mm, Z-550mm with rotary table	4 Axis
CNC	2	With the size of turning diameter 250mm	2 Axis
Lathe	6	Convention turning machine	-
Drill	4	Convention drilling machine	-





Tractore  
Parts



Automobile  
Parts



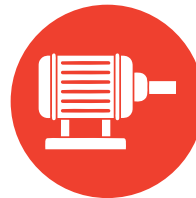
Electric  
Transmission Parts



Earthmoving  
Machinery Parts



Engine  
Components



Pump and  
Motor Body Castings



Compressor  
Parts


Main Material of Products  
**SG IRON CASTING**  
& **GRADED CI CASTING**





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