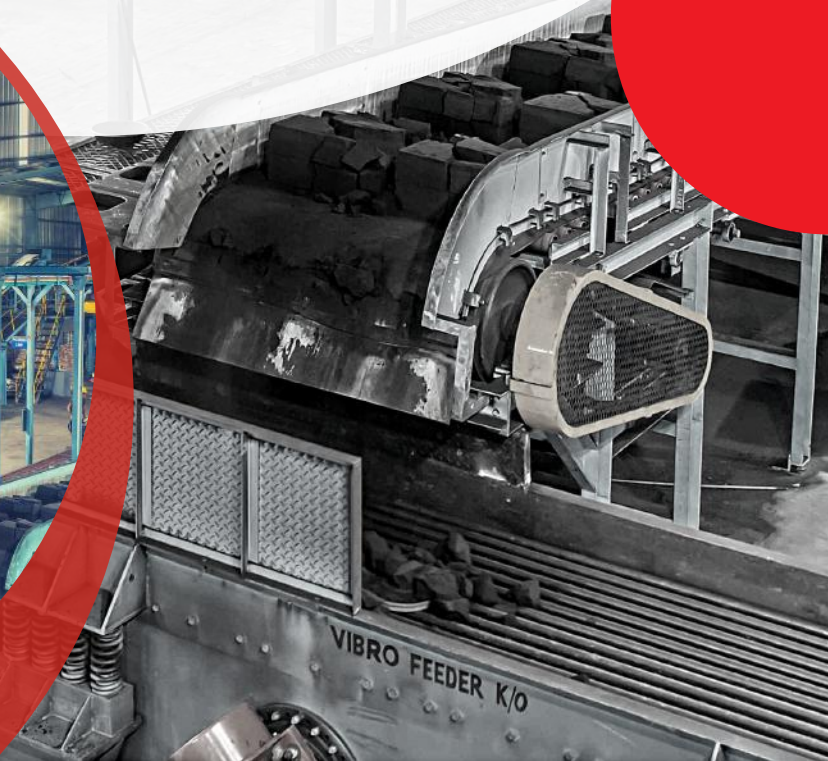




MANUFACTURER & EXPORTER OF GRADED C.I & S.G.IRON CASTING PRODUCTS

AN ISO 9001:2015 CERTIFIED COMPANY





INTRODUCTION

RM Technocast is manufacturer & exports of Four-Wheeler, Three-Wheeler, Trailer Parts, Truck Parts, Tractor Parts, Auto Parts and Engine Parts & Agriculture items in India.

RM Technocast has grown steadily to become a leading Casting components Supplier to OEMs & OESs operating in India. We have with design, development and manufacturing capability that matches global standards in quality and safety.

RM Technocast is manufacturers of Various Cast Iron Auto Components like Brake Disc, Brake Drum, Fly-wheel, Wheel Hub, Truck suspension Equilizer, Steering Nuckle, Hanger Sacal & Packer, Ball-Valve, Coupling, Bearing Housing & Pedestal, Alternator Brackets, Leaf Spring Pad, Flange, Motor Body and many others.

Total Plant Area- **75,000 Sq.Feet**





MISSION STATEMENT

Full fill the India's requirement with specific standard & quality,

Increasing production & constantly with improvement in quality level.

Believe in innovation, best quality & ensuring the best performance by providing additional features to the product & service.

Fulfilling responsibility towards Social Ethics.



VISION STATEMENT

To be the India's Leading manufacturer of Graded Casting Components.



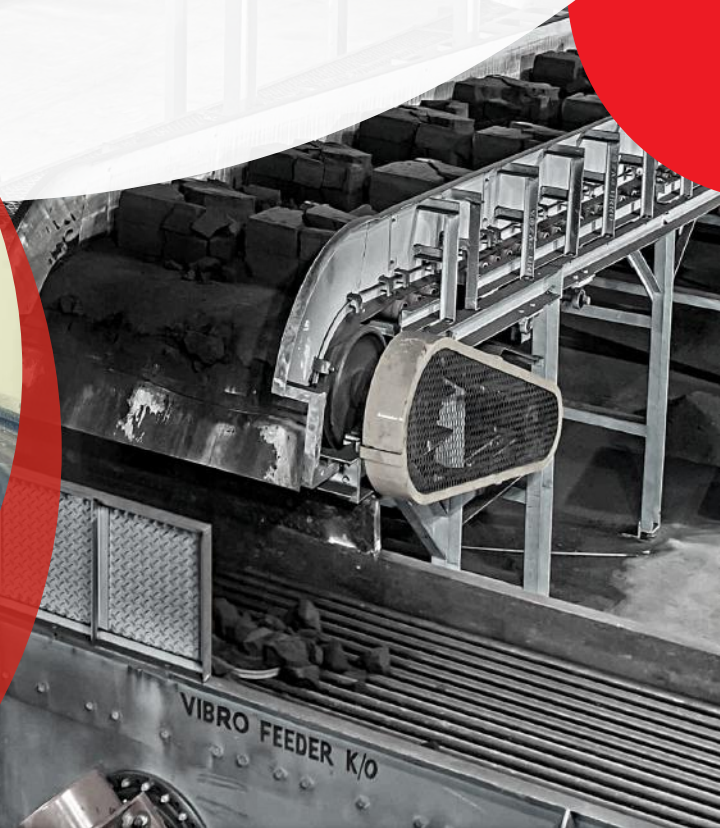
PLANT CAPACITY

- Total Good Casting Per Month: 1500 MT
- Total Liquid Metal per Month: 2000 MT
- Current Production per Month: 800 MT
- Current Spare Capacity per Month: 700 MT

IN HOUSE DEVELOPMENT

In our R&D division a team of top casting experts and highly qualified production engineers work closely through in-house cooperation.

They focus on technical details, contribute their extensive know-how, expertise and valuable experience, and strive for continuous innovation, in all aspects of the entire industrial process from metallurgy to machining. And the team R&D is engaged in continuous development of new product and design.





CORE SHOP

- Fully Automized Sand transfer & Sand preparation Plant.
- No. of Cold Box Core Shooters: 10 Nos.
- Single Switch operate Sand Preparation device.
- Core Capacity upto 30 Kg Core.
- Core Sand Storage- 60 MT
- HMI controlled dosing system for Chemical addition.
- Customized production data storage facilities in all machines.

Sand Plant Make: Shree Sakthi

Machine Make: CFM Engineers





FOUNDRY DIVISION

In the foundry mechanical lines represent the excellence of casting program, including sand-mixing, core-making, molding, melting and pouring. We are providing Ductile & Grey Cast Iron in accordance with various required material specification.

A cross the whole process of casting production, a complete measurement is adopted for quality control, encompassing spectrum analysis, metallographic examination, hardness and tensile strength test, thus the inner quality of every casting part is strictly monitored and guaranteed.



MELTING CAPACITY

MEDIUM FREQUENCY TRI-TRACK INDUCTION FURNACES.

Induction Furnace- 2000KW/ 750 KG Tri-Trak.

Melting Capacity - 3300 Kg Of Molten Metal Per Hour.

Make: Inductotherm (India) Ltd.





INDIA'S FIRST TWO STATION MOLDING MACHINE

- Make- Tokyu - Japan.
- Capacity- 200 Molds/hour.
- Box Size- 508 mm x 610 mm.
- Mold Cycle time- 18 Sec.
- Core Setting time- 09 Sec.



HIGH PRESSURE MOLDING LINE

- No. of Mold in Line- 45 Molds
- Cooling Time- 55 Mins.
- Box Size- 508 mm x 610 mm.
- Mold Cycle time- 18 Sec.

Its complete with Match Plate with guide pins, Hydraulic Cylinders, Guides, Hydraulic Piping. Completely assembled on one frame, Safety Guards & Machine Covers, Electrical PLC Fabricated Heavy Duty Body , HMI, Operator Station.





FULLY AUTOMIZED SAND PLANT

Sand Plant Capacity- 40 MT prepared sand/hour.

Mixture Capacity- 500 Kg

No. of Mixture- 02 Nos.

Total Sand Storage- 180 MT

Fully Automatized addition of New Sand, Bentonite, Lustrous Coal, and water.



SOFTWARE BASED SAND TESTING LAB

Our Sand Lab consists of below equipments...

- A. Digital Compactibility Tester
- B. Digital Moisture tester
- C. Digital Compressive Tester
- D. Digital Permeability Tester
- E. Wet Tensile Tester
- F. Sieve Shaker



DETAILED SAND TESTING LAB

- To check detailed parameter of sand, Our inhouse lab consists measuring equipment's as per below.
- Muffle Furnace
- Heat wave Oven
- Rapid Dryer
- Methylene Blue Value Tester



METAL TESTING FACILITIES

UNIVERSAL TESTING MACHINE

A universal testing machine (UTM), also known as a universal tester, materials testing machine or materials test frame, is used to test the tensile strength, elongation and compressive strength of materials.

M.P.I TEST MACHINE

Magnetic particle Inspection (MPI) is a non-destructive testing (NDT) process for detecting surface and slightly subsurface discontinuities in ferromagnetic materials such as iron, nickel, cobalt, and some of their alloys. The process puts a magnetic field into the part.

VACUUM EMISSION SPECTROMETER

Optical emission spectrometry involves applying electrical energy in the form of spark generated between an electrode and a metal sample, whereby the vaporized atoms are brought to a high energy state within a so-called "discharge plasma". For chemical testing (21 elements).

ROCKWELL HARDNESS TESTER

The Rockwell scale is a hardness scale based on indentation hardness of a material. The Rockwell test determines the hardness by measuring the depth of penetration of an indenter under a large load compared to the penetration made by a preload.

CE METER

Principal of Operation:

Thermal Analysis is the interpretation of cooling curve of liquid iron sample. First arrest point, the liquidus is a temperature level is directly related to Carbon Equivalent. (online chemical testing for liquid metal) $CE = \%C + \%Si/3$.

MICROSCOPE WITH IMAGE ANALYZER

Fully Automatic Structure analysis of castings like type-A structure in C.I. and nodularity, nodule counts in SG. Iron castings.





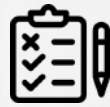
QUALITY CONTROL

All Products are produced in its won foundry and manufacturing bases, under active and operative quality management system certified by ISO 9001 : 2015.

In acknowledgement of one stop lean production from casting to finishing. We have a modern technology and also strict technical specification and complete quality control procedure.

In our company every single product is completely qualified by a standard instrument and equipment.





TESTING DETAILS

INCOMING RAW MATERIALS TESTING

- PIG IRON- C, SI, MN., S, P, CU.
- LUSTER COAL – VM, ASH, FC-TESTING BY MUFFEL FURNACE
- SCRAP – C, SI, MN., S, P, CU...
- BENTONITE POWDER- SWELLING CAPACITY, MB
- VALUE, GCS, WTS ...
- CARBON, SULPHUR TESTING BY USE OF CARBON- SULPHUR APPRATUS.
- SI., MN, IS TESTING USING CHEMICAL SOLUTIONS.

MANUFACTURING PROCESS TESTING

- FULLY EQUIPED INHOUSE SAND TESTING LAB WHICH HAS MOISTURE TESTER, GCS, WTS, PERMEABILITY TESTER AND MANY MORE.
- MOISTURE TESTER- TO TEST MOISTURE OF SAND.
- GCS-TO CHECK GREEN SHEAR STRENGTH OF MOLDIN SAND.
- VM, LOI TESTING BY MUFFEL FURNACE AND OVEN.
- ACTIVE CLAY SAND TEST BY MB TEST.

CASTING INSPECTION

- ROCKWELL HARDNESS TESTER TO CHECK HARDNESS OF CASTING.
- VERNICIER CALIPER, HEIGHT GUAGE, MICROMETER TO CHECK DIMENTIONS OF CASTINGS.
- MPI (CRACK DETECTION)
- UTM(TO CHECK TENSILE, ELONGATION)
- FULLY AUTOMISED MICROSCOPE WITH IMAGE ANALYSER.

MELTING

- PYROMETER- TO CHECK TEMPRATURE OF MOLTEN METAL
- AMETEC LASER GUN TO CHECK INSTANT TEMPRATURE RESULT.
- CEMETER-TOCHECKC, SI., OF MOLTEN METAL.
- SPECTROMETER TO TEST 28 ELEMENTS IN METAL.





MACHINING FACILITIES

- CNC : 350X250 MM to 430X500 MM
- VTL : 500x500 mm
- VMC : 710X510X510 mm
- VMC : 510X510X510 mm
- VMC : 400X500X500 mm
- LATHE : 1450X650 mm
- LASER MARKING MACHINE : 400X160 mm



CERTIFICATION



ISO 9001:2015 Quality Management System by TUV Rhineland Registration
Number – 85 100 001 22012



D & B Certified



Power Grid Approval For Insulator Casting Component



Lean Certified





DUST COLLECTOR & FUME EXTRACTOR SYSTEM

- 11 points of suction for collection of dust in sand plant.
- 3 Points of Fume collection over all three crucibles.
- Dust Collector capacity- 42000 m³/hr.
- Fume Extractor Capacity- 15000 m³/hr.
- Make- Techflow



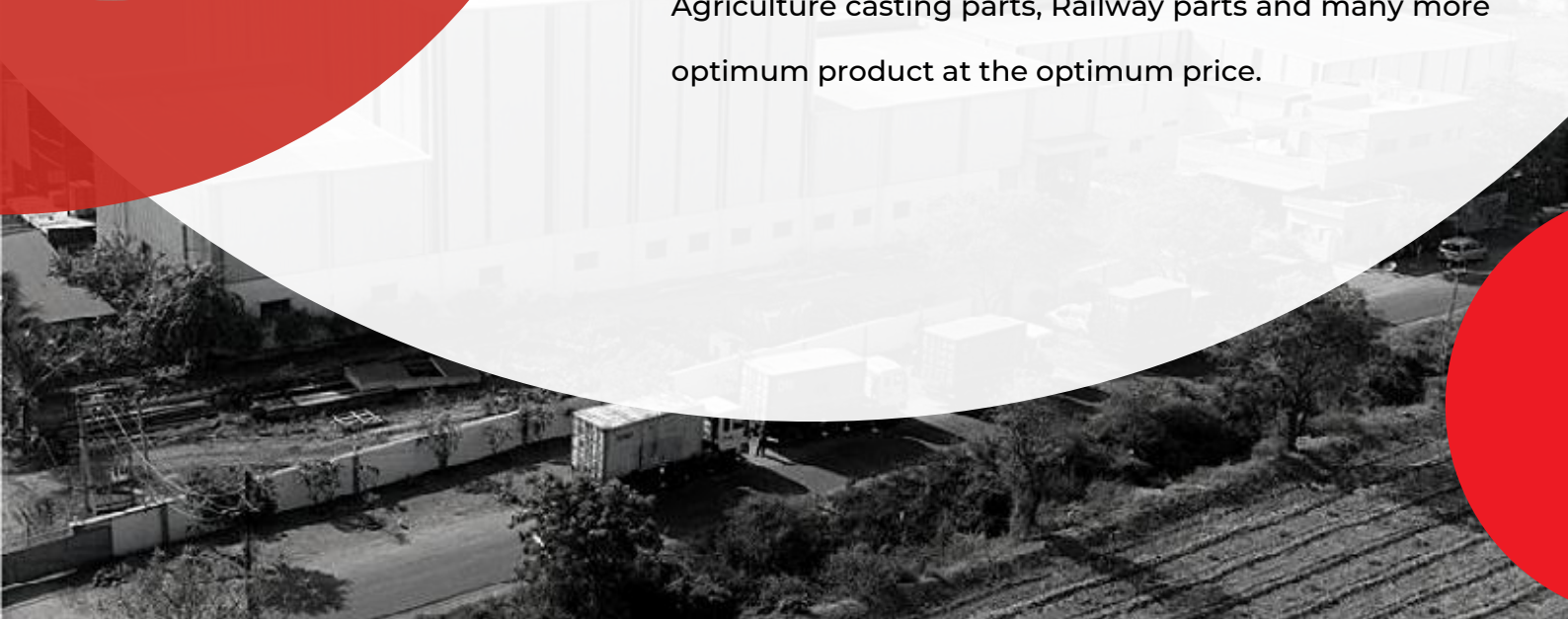
OVERVIEW

Quality System ISO 9001 and modern machinery stock guarantee parameters repeatability.

In order to make our casting quality more sophisticated different kind of research and works are being done especially in the area of testing for metal & microstructure. Fast development of export in our company allows to believe that our products of high quality and standard which confirms the activeness of our offer. It especially refers to Indian automotive market which is pretty demanding.

Total control of our product, from castings to machining, guarantees the highest quality standards. In addition a single in-group source allows the company to offer its customers flexibility and reliability of supply.

Organization is one of the different types of graded castings manufacturers in the automotive industry, Construction equipment, Hydraulic application parts, Agriculture casting parts, Railway parts and many more optimum product at the optimum price.





PRODUCTS

AUTOMOBILE INDUSTRIES

- Brake Caliper,
- Slack Adjuster,
- Flywheel,
- Pressure Plate,
- Face Plates,
- Case Transmission



VALVE INDUSTRIES

- Butterfly Valve,
- Valve Body,
- Handwheel,
- Steam trap Valve



AGRICULTURE PARTS

- Roller Rings,
- Light Counter weights,
- Link housing



TRACTOR PARTS

- Differential Case,
- Cover Housing,
- Brake Plate,
- Brake Cover,
- Brake cum bearing housing,
- Flywheel Housing

HYDRAULIC CYLINDER PARTS

- Piston,
- Gland,
- Cushion Ring

CUSTOMIZED CASTING PARTS

- Post Tensioning Guide,
- Bearing Housing,
- Counter weight,
- Dead Weight,
- Bell Housing & Much More...



THANK YOU

ADDRESS

Survey No . 201, Village : Bhunava,
Taluka : Gondal, Dist : Rajkot, Gujarat

PHONE

+(91) 9825290668

E-MAIL

info@rmtechnocast.com