



**MAHADEV
FERRO
CAST**

Transforming Imagination into Reality

MAHADEV FERRO CAST

Legacy of 50 Yrs

The brand name 'Mahadev Ferro Cast' stands tall as one of the most recognised suppliers of Iron Casting producing Ductile and Grey Iron Castings. As a seasoned industry leader Mahadev celebrates its 50 years by commemorating the unique ingredient of its remarkable growth story.

Our many unique attributes project the mark of a stunning growth story with a perfect goal to offer our customers the latest technology and modern processes. Down the line of five decades, we have developed one-of-its-kind facilities for every individual process. There is no stopping in that which becomes incessant as we rise high everyday in becoming the leader in the world. Our journey continues with utmost perfection, day by day. Our thorough research and decades of innovating the molten metal industry has helped us to achieve an unparalleled growth in our quality of products.

We have set our foundation and roots so deep in developing a strong product portfolio that it gives us a distinct edge over the competition. This makes us a One-stop Solution. We have the Midas touch in the Casting Industry.





Our Vision

Our vision is to become the leading Ductile and Grey Iron foundry in the world. We aim to build a society which drives towards sustainable development and positively change in each community we serve. We stand by our core principles to provide total commitment to each project, develop a culture of trust within our team and deliver product excellence to customer satisfaction.



Our Mission

Our mission is to provide consistent and on time supply of cutting edge technology and enhanced product to our customer base. We generate employment through manufacturing, energy development and infrastructure. The diversity and commitment of our workforce has always been the force behind our success. Together, we provide solutions that help our customers build a better world. With utmost dedication to our clients, Mahadev Ferro cast, offers its customers a reliable and stable ground to support their business.

Our foundry is consistent in yielding the best results, with the strong support of updated technology, ever-growing infrastructure, constantly rising productivity and unmatched Quality.

Modern Day **FOUNDRY**



Furnace

We, as a prominent leader in the industry, have internationally acclaimed standard production facilities with a pure perception to achieve quality excellence and quantitative growth. Using medium frequency induction melting furnaces for optimal metal availability and power efficiency, we keep in mind to ensure everything is perfect. In addition to that, multiple furnaces with modern technology and control systems have been installed from time to time.

Moulding Process - No Bake

It is mandatory for any high-quality casting to begin with a best quality mould. This is always and undoubtedly seen in our investments in technology for producing moulds which result in castings which are best in dimensional accuracy & excellent surface finish.

No bake moulding process consists of 85% of our total capacity. We do casting for frames, end-shields, gear box, pump by using No-Bake process. This casting technique creates moulds with excellent dimensional stability. The casting surface finish is also enhanced and polished over other sand casting processes.

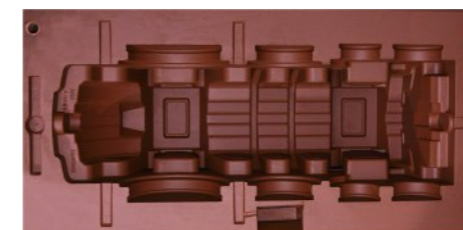
Moulding Line (Omega Sinto, U.K.)

This moulding Line is one-of-its-kind in India and in addition to that it is a fast Loop moving line. It consists of Automated Track for Pattern Change, Mould Transfer Car, Automated Flow Coater, Gas Fired Oven, and Track for Pouring, Transfer Car for Pouring Loop & Reclamation Plant. We do casting for Frame Size 160 to 315, End-Shield casting, Gearbox casting and Valve Body Casting in this plant.

Size of Each Box (mm)	1300L x 1100W x 450H
Capacity	Minimum:80kg
Casting Weight	Maximum:600Kg

Hand Moulding

In our Hand-Moulding department we make single piece casting weighing from 30kg to 3000kg for electric motors, end shields, valve component, gear boxes, foundation plates, machine tool casting etc...



We have the mammoth capacity to produce single piece casting weighing upto 3000 kg

Modern Day FOUNDRY



Green Sand Process

Green Sand process consists of 15% of our total capacity. We do casting for End-shields, Alternator parts, Valve Casting, Bearing Housing & Covers in this process. This process is ideal and exceptional for casting with less weight. For many metal applications, green sand processes are the most cost-effective of all metal forming operations. We utilise it as per the necessity of the product specification and client requisites.

We have a specially designed ARPA 450 Moulding Line for Green Sand process mould.

Flask Size (mm)	700 x 700 x 250
Bunch Weight	10-80 Kgs

Core Shop

Utilising our expertise for making cores of various types, we enable the best equilibrium of economy and perfection in regards to using the perfect type of core for each product with the help of our industry experts.

Shell Moulding Process, Cold Box and Furan no bake process produces new cores in different sizes and shapes.

- Cold Box Shooters
- Shell core Shooters
- No Bake Core Making Facilities

Shot Blasting and Fettling

Fettling is a process of removing excess material from castings often formed by the die's parting lines during the casting process when molten metal is injected into the mould. For Surface cleaning we use Hanger type and Tumblast type shot blasting machines. We use the latest grinding machines and grinding technology in order to ensure that each and every casting is well finished. These are precisely and carefully executed as the margin of error is really less in this.

Type	Size	Quantity
Hanger Type	1200L x 1800W	1
	1000L x 1200W	3
Tumblast	900L x 900W	1



Paint Shop

Castings can be finished with a range of painted finishes to meet client specifications. Castings are painted using Flow coating, Spray coating or Dipping Process which strictly adhere to C3 & C5 Painting Process. Painted Castings undergo rigorous paint quality checks which further increases the casting aesthetics.

- DFT checking by Paint Thickness Gauge
- Cross cut Test Meter
- Calibration Method with Master Piece & Thickness Film



World class machining facilities comparable to the best in the industry

Integrated MACHINE SHOP



40+ State of the art Machining Stations

In quest to deliver the best and satisfy our customers demand for finished components, we utilise various CNC VTLs, Horizontal Machining Centres and HBM Milling Machines to deliberately produce finished and fine components that meet the tolerances at its peak. We have a well-equipped machine shop which provides all forms of machining necessities to our customers.

Our state of the art machining facility in largest of its kind for a foundry. The facility is supported by well equipped standard room, metallurgical lab. Added to these are our inspection checks and testing facilities that take machining standards to level of excellence.



VTL



CNC-VTL



HMC



CNC TURNING CENTER

Machining Facilities

VTL

Sr No.	Make	Quantity
1	Berthiez	2
2	TOS Make	4
3	Schiess Service	2
4	Jugenthal	1
5	Cooper	1

C.N.C. VTL

Sr No.	Make	Quantity
1	DEFUM	1
2	TOS Hulin	3
3	Hardinge	7
4	TOS Varnsdorf	2
5	Jyoti CNC	1

C.N.C. Turning Center

Sr No.	Make	Quantity
1	Jyoti CNC	3

HBM Milling Machine

Sr No.	Make	Quantity
1	Sporting Nissan	1
2	TOS Make	2

HMC Machine

Sr No.	Make	Quantity
1	Makino	2
2	Doosan	2
3	Bridgeport	3

Milling Machine

Sr No.	Make	Quantity
1	WMW (Textorn)	3
2	Union BFKF (WMW)	1

A wide product profile ranging from 30 Kg to 3000Kg

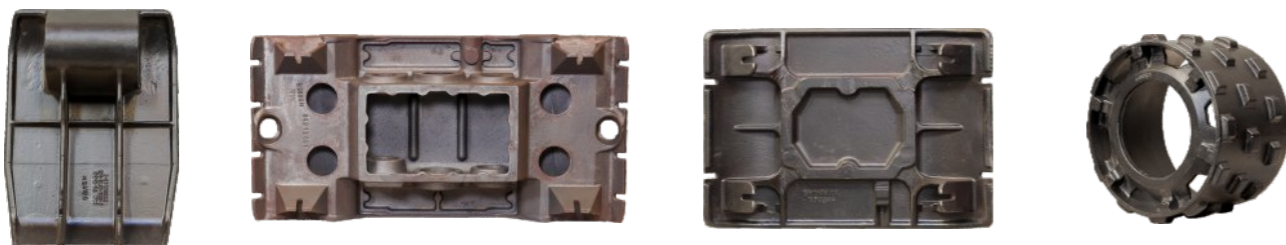


PRODUCTS

Electric Motor Housing Castings (>1 ton)



Road Making Equipment Castings



Electric Motor Housing Castings (<1 ton)



Pump and Valve Castings



Vibro Motor Castings



Manufacturing pillars of our customer's flagship product

PRODUCTS



Gear Box Castings



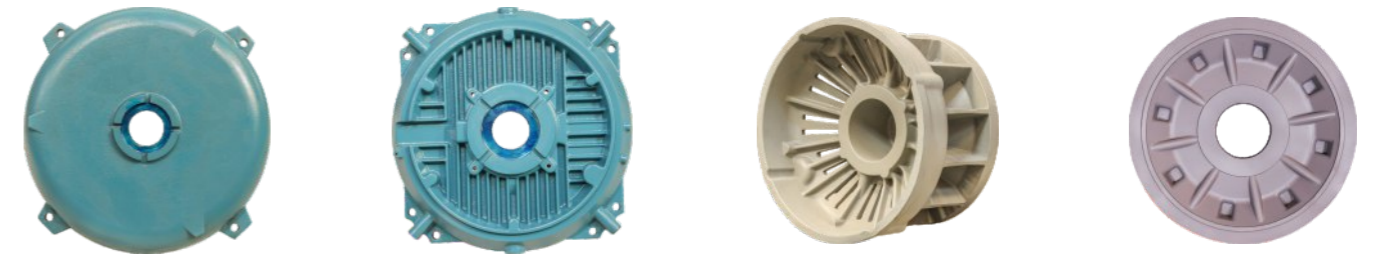
Alternator Castings



Elevator Motor Castings



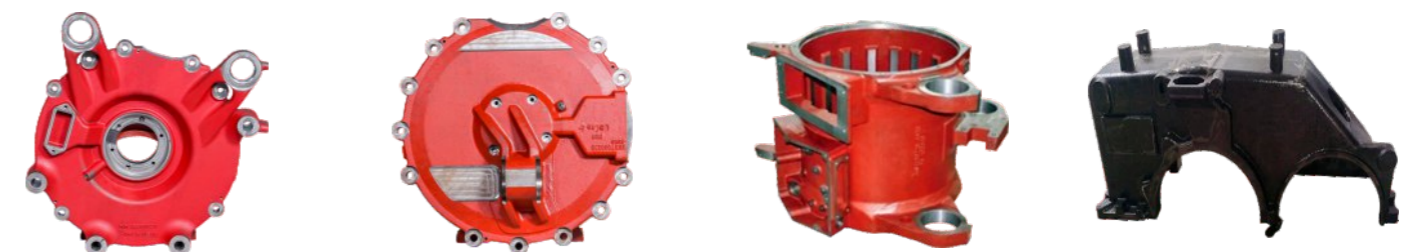
End Shield Castings



Engineering Equipment Castings



Traction Motors & Gear Box Castings



Quality is the hallmark of Mahadev Ferrocast. We stand high in delivering the benchmarked quality products with tough quality checks at different stages of productions.

Assured QUALITY

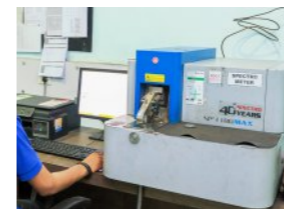


With **25+ years of experience** in the concerned quality department, the experts look after the quality adhering to **ISO 9001:2015** standards to maintain the quality level. For ensuring the physical & dimensional properties of our products, our quality control department has top notch facilities in order to equalize it.

We have established international standards and parameters to measure quality at every stage of production from the start of Purchase of Material to the final Production process. Material testing, visual inspection and dimensional checkup are done at multiple stages to ensure the 100 percent accuracy rate and efficiency. Our experts in the quality assurance department also take rigorous quality checks of the finished goods before they are dispatched. For excellent physical & dimensional properties of our products, our quality control department has top notch facilities to equalize it.

Measurement & Testing Facilities

- Complete Sand testing facilities.
- Optical Microscopy equipments
- Universal Testing Machine.
- Brinell Hardness Testing Machine.
- Impact Testing Machine
- 24 Elements Spectrometer (Iron based) for determining precise chemical composition of the metal.
- Hexagon Dimensional Co-ordinate Measurement Machine.
- Paint Thickness Gauge
- Scratch Test Meter



Spectrometer



Microscope



Universal Testing Machine



Sand Testing Laboratory



Green INITIATIVES

Producing 6 Million units of green energy annually

All standard Grades of Grey & Ductile Iron castings

Material GRADES



Actual site photograph

Material and Grades produced:

- Ductile Iron Castings with strong impact properties at Low Temperatures
- High silicon molybdenum ductile iron
- Austempered ductile iron
- Pearlitic grey iron

SG Iron			
Sr. No.	Type	Grade	Related Std.
1	S.G. IRON	EN GJS 400/12	EN 1563
2	S.G. IRON	EN GJS 400/15	EN 1563
3	S.G. IRON	EN-GJS-400/18	EN 1563
4	S.G. IRON	EN-GJS-400/18LT	EN 1563
5	S.G. IRON	EN GJS 600/3	EN 1563
6	S.G. IRON	EN GJS 600/7	EN 1563
7	S.G. IRON	EN GJS 500/7	EN 1563
8	S.G. IRON	EN GJS 600/6	EN 1563
9	S.G. IRON	EN-GJS-700-2	EN 1563
10	S.G. IRON	65-45-12	ASTM A536
11	S.G. IRON	80-55-06	ASTM A536

Cast Iron

Sr. No.	Type	Grade	Related Std.
1	GREY IRON	CLASS -1	46024 EX CL-1
2	GREY IRON	CLASS-20	ASTM A-48
3	GREY IRON	CLASS-25	ASTM A-48
4	GREY IRON	CLASS-30	ASTM A-48
5	GREY IRON	CLASS-35	46024 EX CL-1
6	GREY IRON	EN GG 20	EN 1691
7	GREY IRON	EN GG 25	EN 1691
8	GREY IRON	EN GJL 150	EN 1561
9	GREY IRON	EN GJL 200	EN 1561
10	GREY IRON	EN GJL 250	EN 1561
11	GREY IRON	EX.CL.3	46024 EX CL-1
12	GREY IRON	EXCL-1	46024 EX CL-1
13	GREY IRON	FG 150	IS 210
14	GREY IRON	FG 200	IS 210
15	GREY IRON	FG 220	IS 210
16	GREY IRON	FG 260	IS 210
17	GREY IRON	G-3500	ASTM A-159
18	GREY IRON	G 2500	ASTM A-159
19	GREY IRON	G-3000	ASTM A-159

Environment is one of the most important elements of modern industries today. Unlike others, we always adopt environment friendly initiatives and steps as the torch bearers of the society. Our core values have eco-friendliness at its heart and so does sustainable development. Mahadev Ferro cast has been the firm believer of using natural energy and reducing air pollution by utilizing solar, wind and renewable energy.

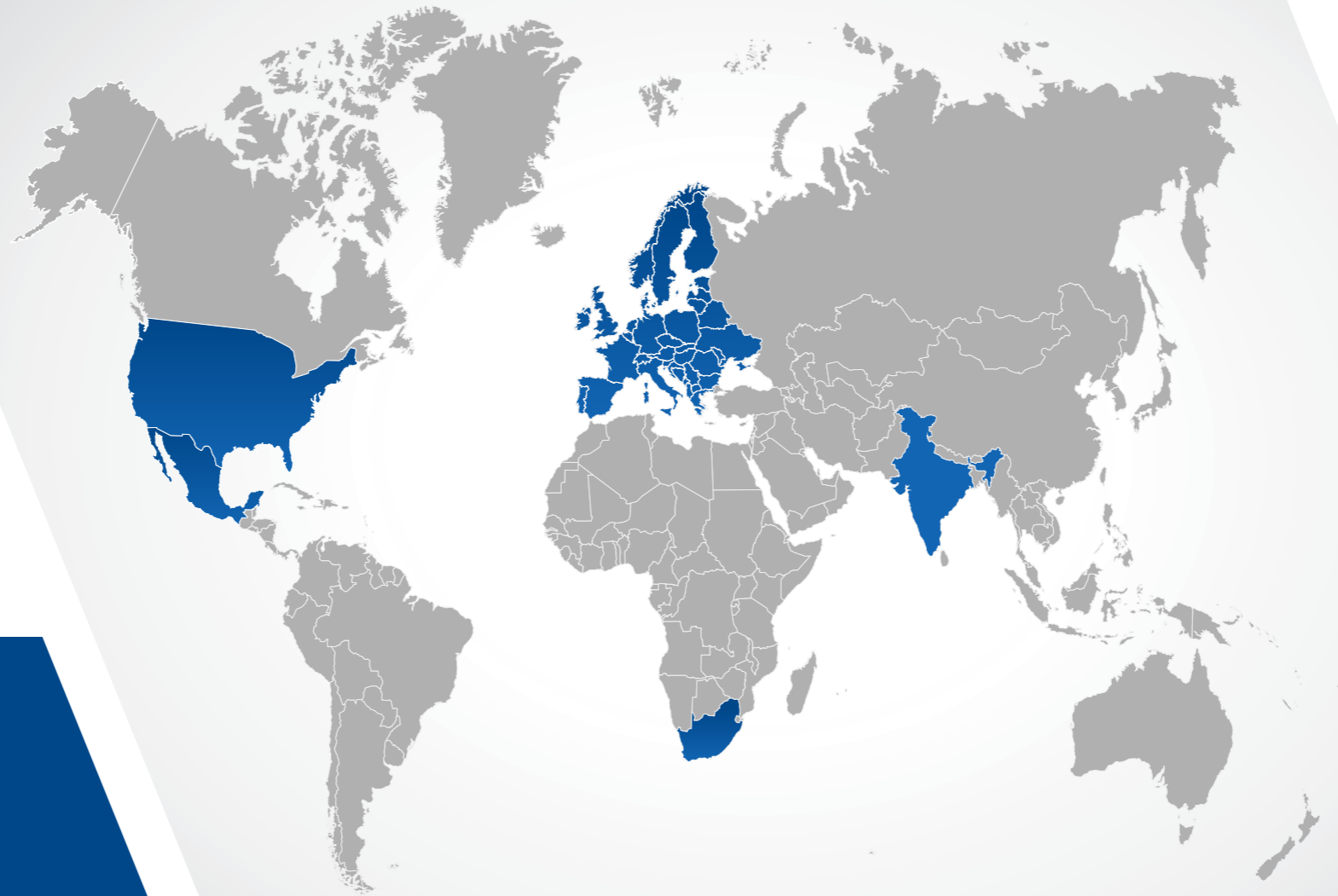
With an aim to see the Green Tomorrow, we develop a culture among our customers and experts to promote environmental advantages. The installation of **2 windmills in 2014 at Lalpur Jamnagar of 1 MW each** is the real life example of our core belief in 'Green Tomorrow'.

We sympathize with mother earth and believe that the environment should be least polluted by industries and factories. Later in 2018, **a solar farm was built across 10 acres producing 1.5 MW of electrical energy.**

*We can also produce customized grade as per customer's requirement

70% of our
Products are Exported
Globally

Our Esteemed **CUSTOMERS**



Since decades, Mahadev Ferrocast has focused on delivering the best to customers and brands by continuously updating technology, productivity and infrastructure. With a close to fifty years of leading outstanding name in India, we are manufacturing pillars of our customers flagship products.



Mahadev Group of Companies



Started as our Research and Development area for Moulds of our Castings. As we saw excellent output, results and growth Feedchem inc. was established. Feedchem is pioneer producer of refractory coatings, No Bake Binders, allied products and engineered lustrous carbon additives for use in metal industry.

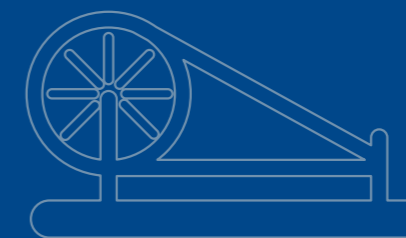
For more information visit www.feedchem.in



Incorporated in year 2019, Mahadev Motion Technologies is our complete Motor Assembly unit. We assemble motor for India's leading electric motor manufacturers. We can therefore offer our customers the entire manufacturing process from coil pre-assembly, motor castings to end-of-line testing. All under one roof as a system integrator we control electric motor assembly and ensure top quality processes and products.

Also as a pre assembly unit, we assemble engineering products for Leading multinational companies globally.

For more information visit www.mahadevmotion.in



*A customer is the most important visitor on our premises.
He is not dependent on us. We are dependent on him.
He is not an interruption on our work. He is the purpose of it.
He is not an outsider on our business. He is part of it.
We are not doing him a favour by serving him.
He is doing us a favour by giving us an opportunity to do so.*

~ Mahatma Gandhi



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