



Manufacturing Precision Machined Grey & Ductile Iron Components



Advancing with world-class precision





Founded in 1983, Foundry was started to cater the captive casting requirements of FIE Group Companies. Initially with a CUPOLA and Hand molding in Green sand, foundry was able to produce 100 tons of Cast Iron Components a month.

In 1991, foundry was automated to induction furnaces & machine molding to achieve quality standards of automotive industry.

1993, foundry developed the Ductile Iron & system to produce it consistently. Soon started supplying critical Ductile components to demanding customers like BOSCH.

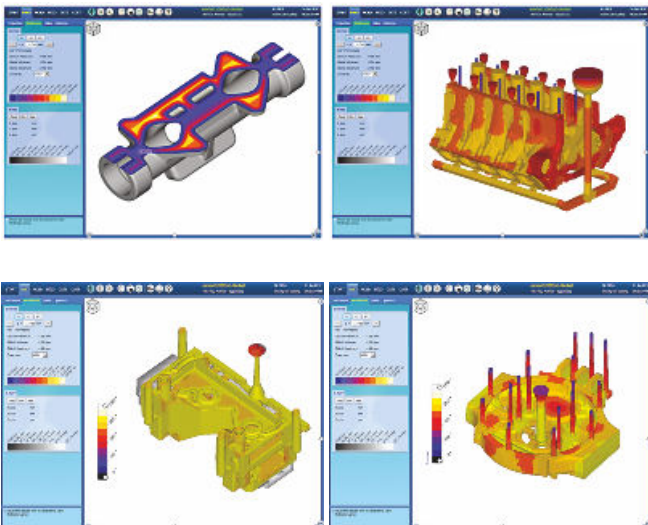
Since then the foundry is supplying a wide range of high precision world class quality, fully machined castings to automotive OEM and engineering industries.

Foundry has annual casting capacity of 12000 tonnes.

Foundry is certified for IATF 16949:2016 & ISO 9001:2015.

Milestones

- 1983 Foundation of Ichalkaranji Metalloy Founders Pvt. Ltd.
- 1991 Automated to Induction Furnace & machine molding
- 1993 Development of Ductile Iron
- 1994 Supply to Automotive Industry
- 1996 Foundation of FIE Spherotech as an expansion
- 1998 Expansion to two more machine molding lines
- 2006 Heavy jobbing foundry for components up to 2 Tons
- 2012 Automatic High Pressure Green Sand Molding Line
- 2013 Multi track high frequency Induction Furnaces
- 2013 Automated Casting finishing facility
- 2016 Heavy Hi-tech machining
- 2017 Heavy Foundry expansion to component up to 8 Tons
- Upcoming Heavy Pattern making facility (3x2x1m)
- Heavy heat treatment facility with water quenching (4.5x3.5x3m)





Green Sand Facility :

- Full automatic Horizontal parted Green Flask-less sand molding system.
- Cake size of 500x600x200, rotary Core setting station
- Adaptive sand preparation system with sand governor
- 2MW Med. Frequency Induction melt shop
- Auto-pourer
- On-line casting cleaning

Furan Hand Molding Facility :

- Environment friendly Acid cured Furan No-Bake sand system.
- Full automatic sand reclamation plant
- 20, 5, 3 TON/hour continuous mixer stations
- 10, 8, 3, 1.5 TON Med. Frequency Induction melting furnaces.
- Single casting weight capacity up to 15 TON in CI or DI grades.
- 10 TON shot blasting setup
- 20 ton, 3x 3x 4.5m Heat treatment facility
- 25 TON, 40 TON E.O.T. crane capacity
- Foam parts casting capability
- All cast iron alloy grades including Austempered Ductile iron.



Pattern Shop :

- Large CNC router- 3x2x1 meter
Tooling in Aluminum, Resin, wood and Styrofoam (Lost foam).
- Tool-room CNC Turn-mill & CNC Milling
- CNC milling machine
- Horizontal boring machine
- Prototype induction furnaces of ½, 1, 25 & kg capacity

Quality Lab :

- OES Spectrometers.
- Metallographic analyzer.
- Microscope.
- Carbon-Silicon analyzer.
- Universal testing machine.
- Impact testing machine.
- Brinell, Rockwell hardness tester.
- Sand testing lab.
- Geiger counter.
- Flow & Solidification simulation, solid modeling software.
- CAD/CAM software.
- CNC CMM
- 2D Height master





Grey & Ductile Iron Castings :

- Gear shifting systems for Two Wheelers.
- Automotive Steering & brake components.
- Various automotive differential & brackets.
- Manifolds & Heavy hydraulic Components.
- Large pump castings.
- Valve bodies & valves.
- Concrete mixers & pump components.
- Marine compressor components.
- Austempered ductile iron components.
- Machine tool & machinery components.







Large Horizontal Boring & Multi tasking machine.



Double Column Milling Machine



Large Horizontal Machining Center



Large Vertical Turning & Milling machine.



Horizontal Boring & Milling machine.



Horizontal Boring & Milling machine with boring facing head.



Multi Tasking Universal Milling Machine



Large Turn Mill Center



Large Multi Tasking Turn Mill Center



Horizontal Machining Center



Gantry CMM (3x2x1.5m)



5 axis CNC Milling machine



Large Vertical Milling machine.

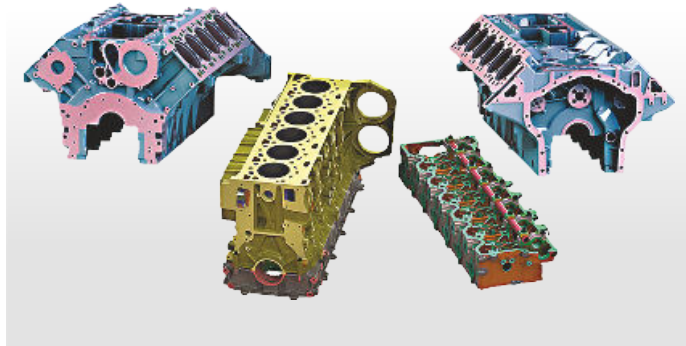


Portable CMM with line scanner & Tool Presetter.



Large Horizontal Boring & Multi tasking machine.

Venture :



Probably the oldest operating foundry, GIENANTH, GmbH founded in 1449, is the world leader in large engine crankcase castings.

GIENANTH & FIE are now in a strategic partnership to produce critical engine crankcases & other cast components in India with extensive knowhow of GIENANTH.

GIENANTH-FIE venture is aiming to produce fully machined heavy engine crankcases for renowned engine makers.

Certification :



IATF 16949:2016



ISO 9001:2015



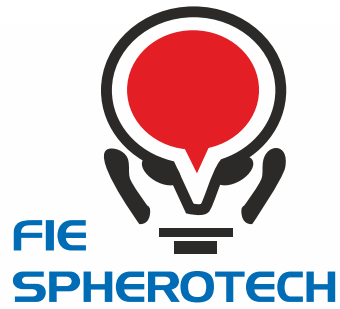
ISO 45001:2018 (OH&S)



ISO 14001:2015

Group Customers :





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