



FIE
SPHEROTECH

30 CELEBRATING
YEARS
1995 - 2025

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.

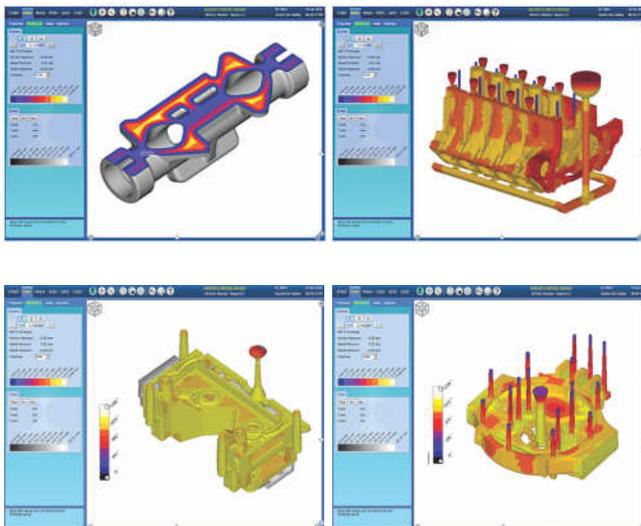
In 1991, foundry was automated to induction furnaces & machine molding to achieve quality standards of automotive industry.

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 15000 MT.

Foundry Is certified for IATF 16949, ISO 9001, OSHAS 18001, EMS 14001 & Lloyd's Register MQPS.



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 MT
- 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 20 MT

- Upcoming :**
- Large flask size green sand moulding facility.
 - Fettle automation for heavy castings.





2-axis
Automated fettleing machine



4-axis
CNC automated fettleing machine



Green Sand Moulding

- 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
- Fully automatic 2 axis, 3 axis, 4 axis fettleing

Furan Hand Molding

- Environment friendly Acid cured Furan No-Bake sand system
- Full automatic sand reclamation plant
- 22, 20 & 5 tph Continuous Furan sand mixers
- 2, 3, 8 & 12 Ton, 5.2 MW Induction melting furnaces
- Single casting weight capacity up to 15 TON in - CI or DI grades
- 10 ton & 2 ton batch shot-blasting & a large blasting booth
- 10 ton, 4.5x3.3x3m, Gas fired Heat Treatment oven
- 25-ton E.O.T. cranes, 17-ton mobile cranes, 10 ton fork lift
- 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 & 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
- Mega 3d printer for rapid proto-tooling
- **CAMWorks** CAD-CAM suite
- **AutoCAST** Solidification simulation software

Quality Lab

- OES Spectrometers
- Metallographic analyzer
- Microscope
- Carbon-Silicon analyzer
- Universal testing machine
- Impact testing machine
- Brinell, Rockwell hardness tester
- Sand testing lab
- CNC CMM
- 2D Height master
- Radiation contamination monitor
- Electromagnetic yoke with current control
- In-house NDT facilities (UT, MPI, DP)
- State of art sand testing facility
- BNIF 359 Surface roughness comparison plates

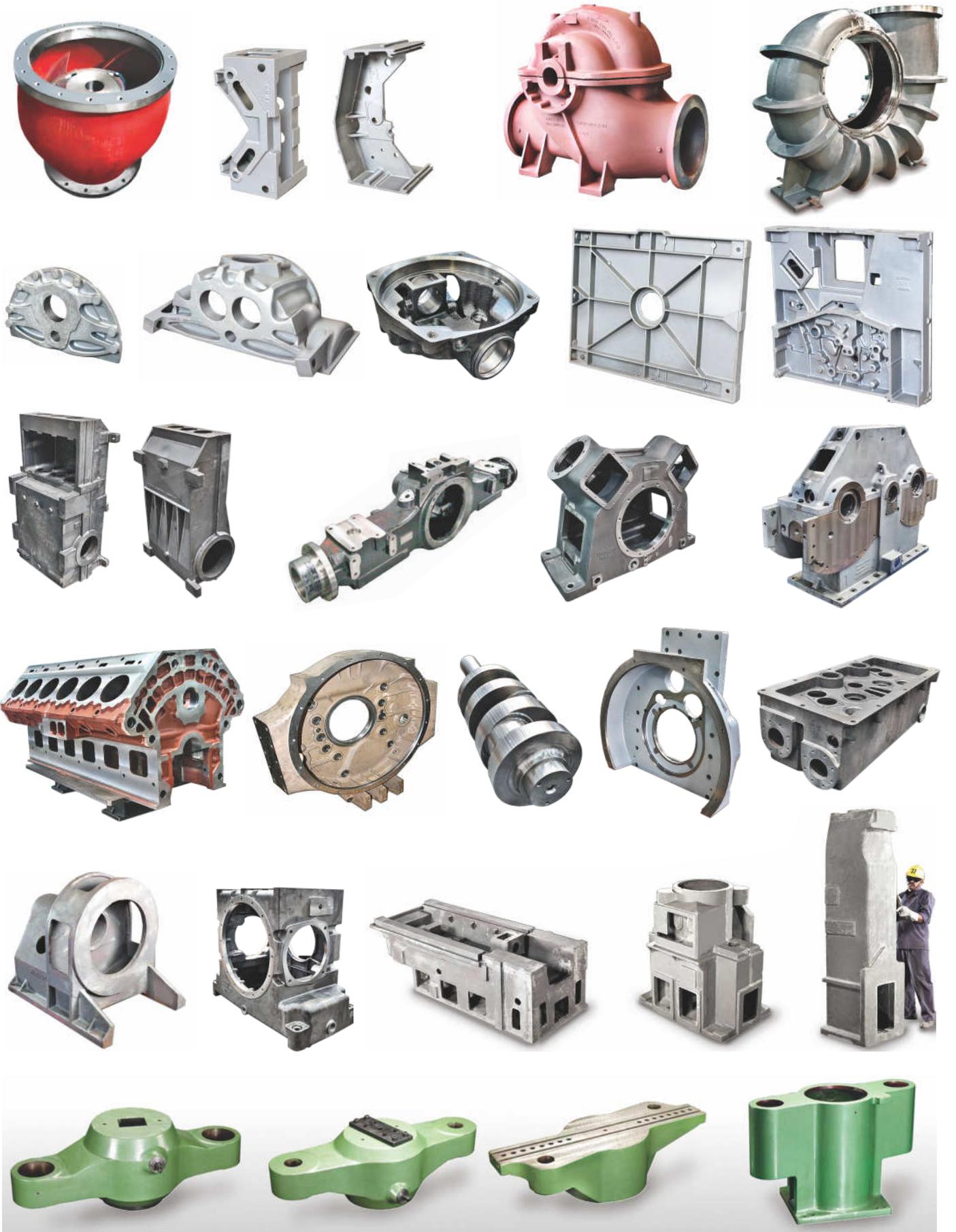




Grey & Ductile Iron Castings :

- Gear shifting systems for Two Wheelers.
- Automotive Steering & brake components.
- Various automotive deferential & 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.
- Oil Engine components for Gensets & Marine.
- Axle, Gearbox Housings for Defense, Automotive & Locomotive.







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.

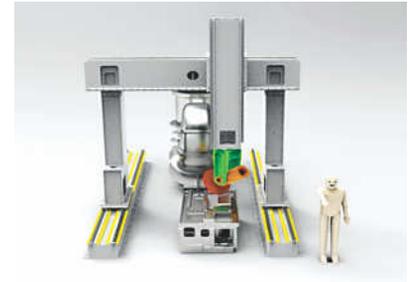
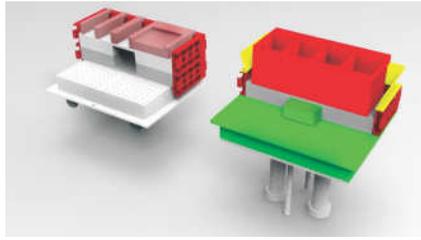


Large Horizontal Boring & Multi tasking machine.

Upcoming Expansion



2 X 1.5 meter large flask Green sand high pressure molding line



Fettling automation for heavy castings.

Sustainability

Since 2023, FIE Spherotech has been investing in sustainable energy to combat climate change and rising energy costs.

By 2030, it aims to source 50% of its electricity from renewable.

Currently, a solar power plant supplies 20%, with a hybrid solar-wind project planned to meet the rest.

A small but crucial step towards protecting our planet.



A 3 MW solar power plant installed at Beed, Maharashtra in 2024

Certifications



IATF 16949:2016



ISO 9001:2015



ISO 45001:2018 (OH&S)



ISO 14001:2015



LR MQPS

Group Customers



Achievements



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