

Customers Worldwide



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Casting Innovation



The Edge of Precision Engineering

Superiority Through Quality

Top of the line Technology

Even though Lost Foam process has been around in India since late 1990s. But at GMC we have over 18 years of experience in successfully running a lost foam foundry. In recent years GMC has also developed on its own PreciCast - it's a foam based foundry process which produces castings with tight tolerances and very good surface finish like investment casting.

Lost Foam

- Competes against Sand and Shell castings with less machining allowance and as-cast features
- Is the only foundry process wherein cavity is solid while pouring
- Due to this technical limitation: can only pour Iron and Aluminium alloy metals

PreciCast

- Similar to Investment Casting: instead of wax it uses Foam patterns
- This small change gives cost and process time advantage over IC
- Any metal can be poured in



Foundry Capability

Material - Ferrous & Non-Ferrous

Aluminium Alloy

Aluminium Silicon Alloys, having Silicon <13% eg. ASTM A319, A356, A357, C355, etc.

Ductile Iron (SG Iron)

ISO 1083 (EN 1563) all grades

Grey Cast Iron

ISO R185 (EN 1561) all grades

Malleable Cast Iron

ISO 5922 (EN 1562) all Blackheart ferritic & pearlitic grades

Casting Range

Weight: 50 kg max.
Dimension: 700 x 700 x 500 mm max.

Annual Volume

Quantity per product ranging from 10,000 to 5 million

Heat Treatment

Non-Ferrous

T6 operation (Quenching & Artificial Aging)

Ferrous

Annealing Normalising with air quenching Tempering

Leak Testing & Impregnation

Machining

CNC Lathes
CNC Milling Machines Grinding

Coating

Autophoretic Coating
Alodine Coating

Sub-Assembly

Welding Fabrication
Assembly of machined components with the help of pneumatic tools



Quality Assurance

Test Equipments

- "Spectro" spectrometer, 20 Channel for Iron & Aluminium Metal
- Carl Zeiss Microscope with Metallurgical image analyzer software
- BHN Hardness Testing Machine
- Rockwell Hardness Testing Machine
- CE Meter for Instant Carbon Silicon Analysis
- Digital Pyrometer for Molten Metal
- 40 Ton Universal Testing Machine with Printer
- Sand Sieve Analysis Set
- Permeability Testing Machine
- Volatile Measuring Machine
- Dimension Checking: Vernier Callipers, Gauges, etc.

