

Company



Unit 1 600 Metric Ton / Annum Handling small volume



nit 2 2400 Metric Ton / Annum
Handling Medium to Large volume Inhouse Machining & Assembly

Engineering & Process

Reverse Engineering





3D Modeling

creo



Die Design



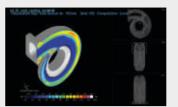


Fixture Design





Simulation



SQC



Inspection



Management



CALYPSO

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Tool Development

Tool established for making wax patterns.

De-waxing

Removing wax from coated assembly

Pouring

Filling the shells with molten metal

Machining

CNC Turning, Milling, Grinding, Lapping, Broaching

Wax Pattern Manufacturing

Output of wax injection from tool

Shell Baking

Pre-Heating of shells

Fettling

Detachment from feeders and surface finishing

Assembly

Assembling different parts as per customer's requirement

Pattern Assembly

Attachment of patterns with feeders

Induction Melting

Preparation of molten metal

Heat Treatment

Setting the homogenous structure of metal

Pre Dispatch Inspection & Testing

Verification of product with customer's requirement

Ceramic Coating

Application of coatings with binder & stucco

Verification of Chemical Composition

Ensuring by Spectrometer

Surface Treatment

For enhancement of casting surface

Packaging & Dispatch

Packaging as per international standard



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Facilities & Process Control



Product



Capabilities

- Weight Range From 0.05kg to 90kg as a single piece
- **Size** 450mm x 450mm x 350mm
- Dimensional Accuracy
 According to ISO 8062,
 ISO 2768, VDG P690,
 IS11166.

• Surface Finish

3 to 6 micron Ra

Materials Handled

Austenitic Stainless Steel, Carbon Steel, Low Alloy Steel, Super Alloy Steel, Martensitic Stainless Steel, Duplex steel, Precipitation Hardened Steel, Aluminium Alloy, Copper Alloy.



Value Addition

- Special Heat Treatment
- Surface Treatment
- Assembly





Outsourcing

Machining

• Special Heat Treatment

Forging & Barstock:

- Surface Treatment
- Assembly



Application

Automobile

Earth Moving

Valves

Switch Gears

Pumps

Machine Tools

Food Processing

Textile

Power Plant

Hardware Fittings

Defense

Surgical Implants



Quality Control

Measurement & Testing

Casting

- Chemical Composition
- Mechanical Testing
- NDT
- Corrosion Test
- Microscopic Examination
- Borescope Inspection
- Surface Roughness
- Leak Test

Machining

- CMM
- Contourecord
- Equator
- Surface Roughness

Raw Material

- Sieve Analysis
- Radiation
 Measurement
- Loss on Ignition
- Wax Hardness
- Ash Content of Wax
- Drop Point
- Binder Gel Test
- % SiO2 in Binder
- Chemical Analysis

Certification

- IATF 16949 : 2016
- EMS ISO 14001 : 2015
- OH & SMS ISO 45001 : 2018
- PED 2014/68/EU
- ISO 9001:2015

In-Process Control At

- Drop melting point
- Hardness
- Ash Content

Shelling: • Viscosity

- Slurry Gel Test
- Sieve Analysis
- Loss on Ignition
- MOR

Melting:

- Chemical Analysis
- Gas Content (Density Index) for Al
- Temperature of Melt
- Temperature of Shell

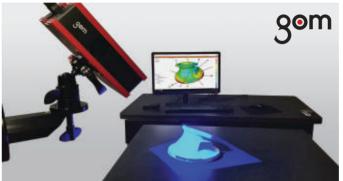
Machining:

- Dimensional Inspection
- Custom Gauging & Inspection
- Surface Roughness

Inspection









Inspection





























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an Investment Casting Unit

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