



## POURING LIFE IN METALS

The Investment  
Casting Foundry



# The Company

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**ORSON** is modern foundry specifically designed for manufacturing Investment Casting located at Rajkot in western India.

The company is established and governed by technocrats of Investment Casting and business veterans with decade long experience of mechanical domain. We are equipped with latest Industry grade machineries, manufacturing-processes and management methodologies to earn our customers' patronage by achieving highest quality standards.

The management is a strong team of committed, technically and commercially sound, experienced, well trained and seasoned managers who make it possible to deliver high quality products, with the best in class service. We also believe in keeping the customer's interest at the heart of our workings, thus ensuring that our customers always stay with us- which is bigger incentive than short term gains!

Ultimately, no matter how far we've come or how big we've grown, the one thing that hasn't changed is our commitment to delivering the best.





Wax Pattern Moulding →



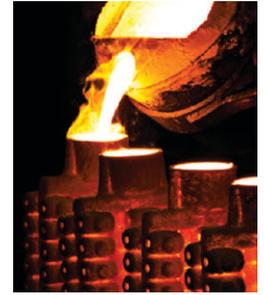
Shell Assembly →



Coating →



Dewaxing →



Metal Pouring →



← Dispatch



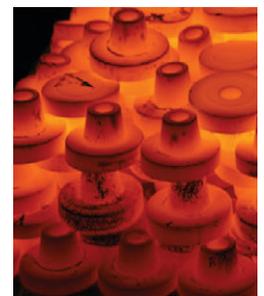
← Machining



← Casting Inspection



← Fettling



← Heat Treatment

## Manufacturing Capability



**Production Capacity**  
1800Tons/Annum



**Weight Capacity**  
10 grams to 130 kg



**Dimensional Capacity**  
Size: 700mm x 700mm x 500mm  
( L X W X H ) Dia: 600mm Wall  
Thickness : 1mm to 30mm section



**Surface Finish**  
3 to 8 micron Ra



**Value Added Services**  
Electro Policing, Electro Plating,  
Passivation and Pickling,  
Buffing, Zinc Plating



**Material Capability**  
Standard : ASTM, AISI, DIN, EN,  
GOST, GIS & Other International  
standards as per the customer  
need. Material : Stainless Steel,  
Carbon Steel, Low Alloy Steel,  
Duplex Steel or According to  
customers specific requirement

# Testing Facility



## Chemical Analysis :

Spectrometer: SpectroMaxx (Germany).  
24Ch. 3 base (fe,ni,cu)

All heats poured are tested on-line on Spectrometer.

All the scrap used are also tested before using.

Specimens are stored for particular period.



## Hardness Testing:

Hardness Tester:

Rockwell cum brinell hardness testers

metatest make.

Major load: 250 kgf.,

Minor load: 187.5 kgf.



## Tensile Testing:

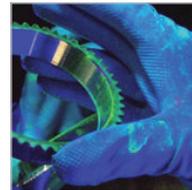
UTM Machine:

0-200KN FAS make Computerized.

Extensometer:

Electronic Extensometer FINE make.

## Dye Penetrate Testing:



## MPT Test:



## Impact Testing:

Impact Tester:

0 – 300Joules FASNE make.

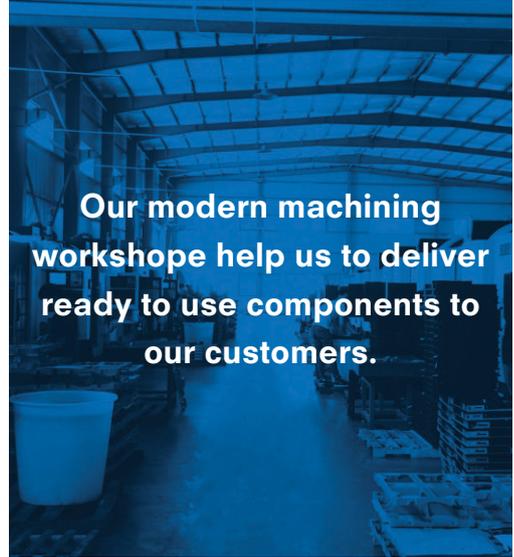
## Radiography (X-Ray):



## Microstructure Analysis:



- NDT Level-II certified and trained team for NDT tests and examination.
- Approved WPS/PQR procedure and person.



Our modern machining workshop help us to deliver ready to use components to our customers.

## Quality Certificate



PED 2014/68/EU BY TUV NORD



IBR

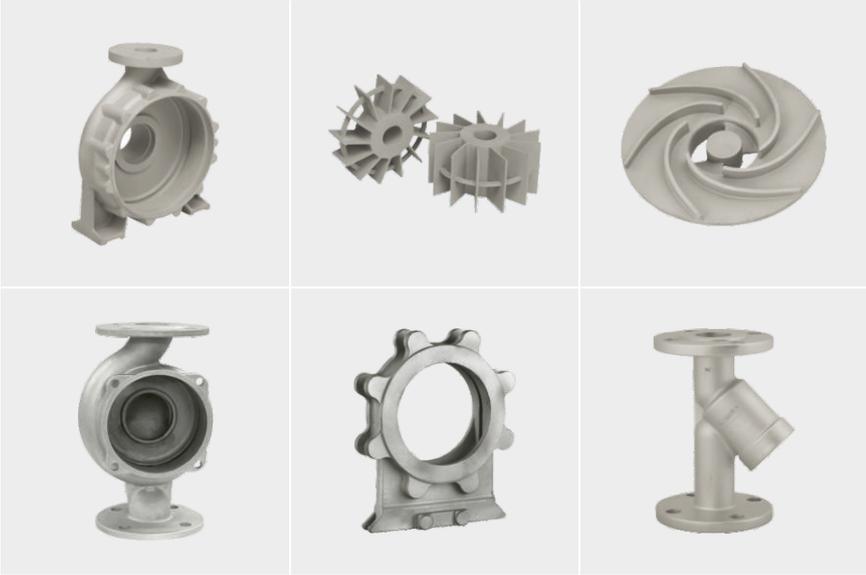


ISO 9001:2015 BY TUV NORD



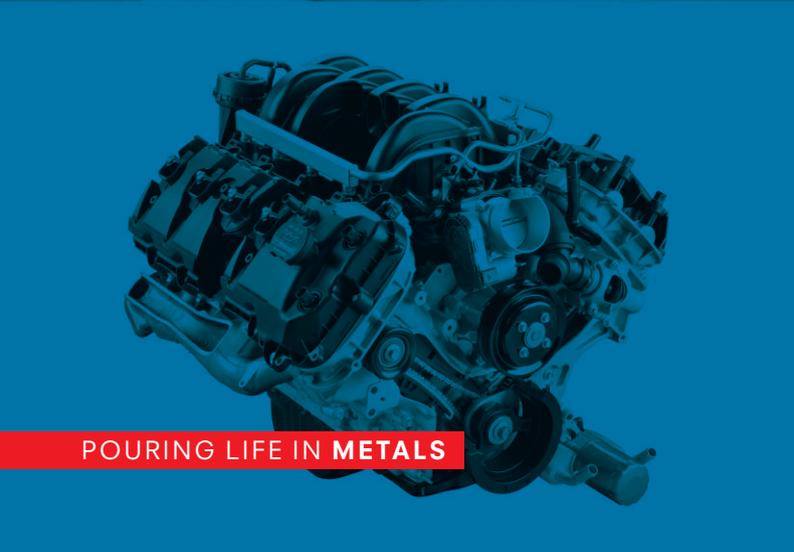
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# Products



## Applications

- Automobile Parts
- Gas Turbines
- Industrial Valves
- Mining Machinery
- Aeronautical Industry
- Human implants
- Food Processing Equipments



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 Marine Instruments  
 .....  
 Pumps & Air Compressors  
 .....  
 Power plants Equipment  
 .....  
 Boilers  
 .....  
 General Engineering  
 .....  
 Textile Machinery  
 .....  
 Fire Fighting Equipments  
 .....



### Materials Handled

- Carbon Steels
- Martensitic Steels
- Heat Resisting Steels
- Austenitic Steels
- Ferritic & Martensitic Steels
- Nickle base alloy
- Cobalt base alloy
- Duplex & Super Duplex Steels
- Non Ferrous - Aluminium Bronze & Phospheres Bronze

# The Investment Casting Foundry



## ORSON TECHNOCAST PVT. LTD.

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