



INVENT CAST PVT. LTD.
(Lost Wax Casting, Feinguss Microfusion)
INDIA



INVENT CAST



Group of Companies





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Lost Wax Casting





Total Factory
Area Plant-1

70,000 Sq. Feet

Total Factory
Area Plant-2

47,000 Sq. Feet

Machining Unit Area

22,000 Sq. Feet

Establishment
Year

2006

Unit Casting
Weight

Upto 200 Kgs.

Production
Capacity / Month

190 Tons

Spare Capacity

60 Tons



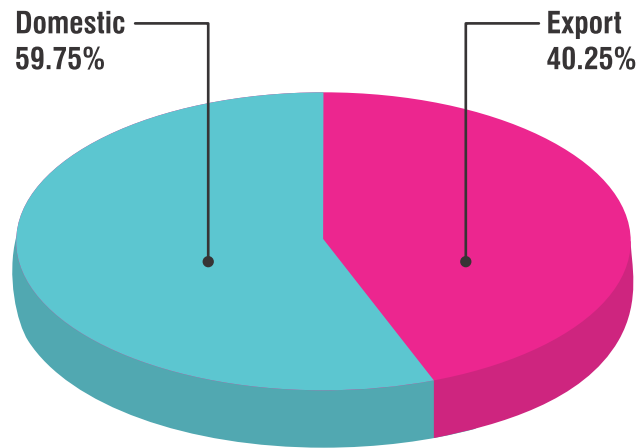
Sales

Year	2024-25	2023-24	2022-23	2021-22
Sales in Tonnage	1467.661	1531.164	1590.000	1221.188
Sales Amount in INR	90.75 Crores	93.65 Crores	92.34 Crores	64.04 Crores
Sales Amount in USD	11.34 Million	11.71 Million	11.54 Million	8.00 Million

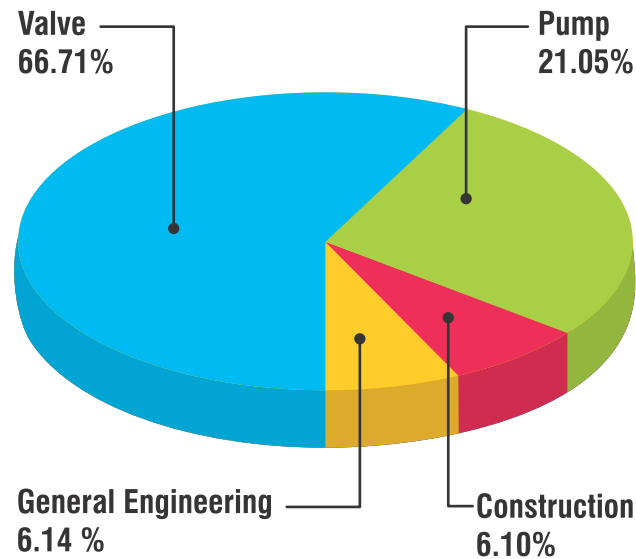


Sales Exposure : 2024-25

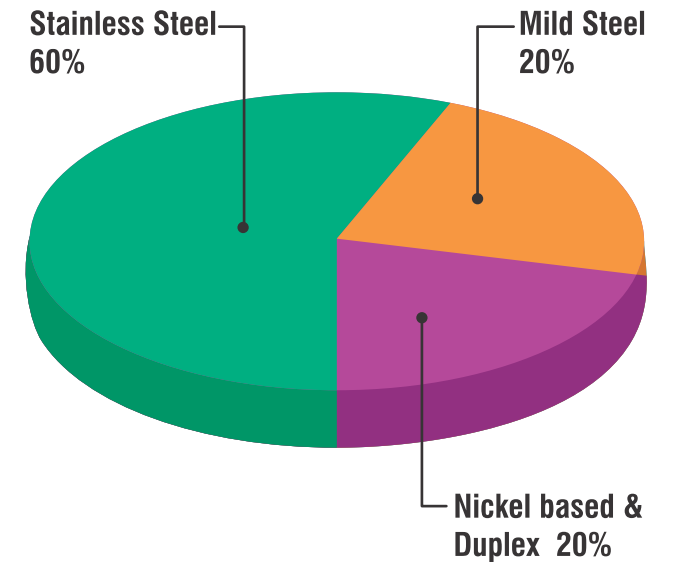
Domestic & Export



Industry wise



Metal wise casting supplied





Process



Die Development

Die is made from aluminium block on CNC / VMC machines.



Wax Pattern And Assembly

Semi-auto & fully automatic
hi-tech wax injection press



Shelling / Coating

Temperature and Humidity
controlled drying area.



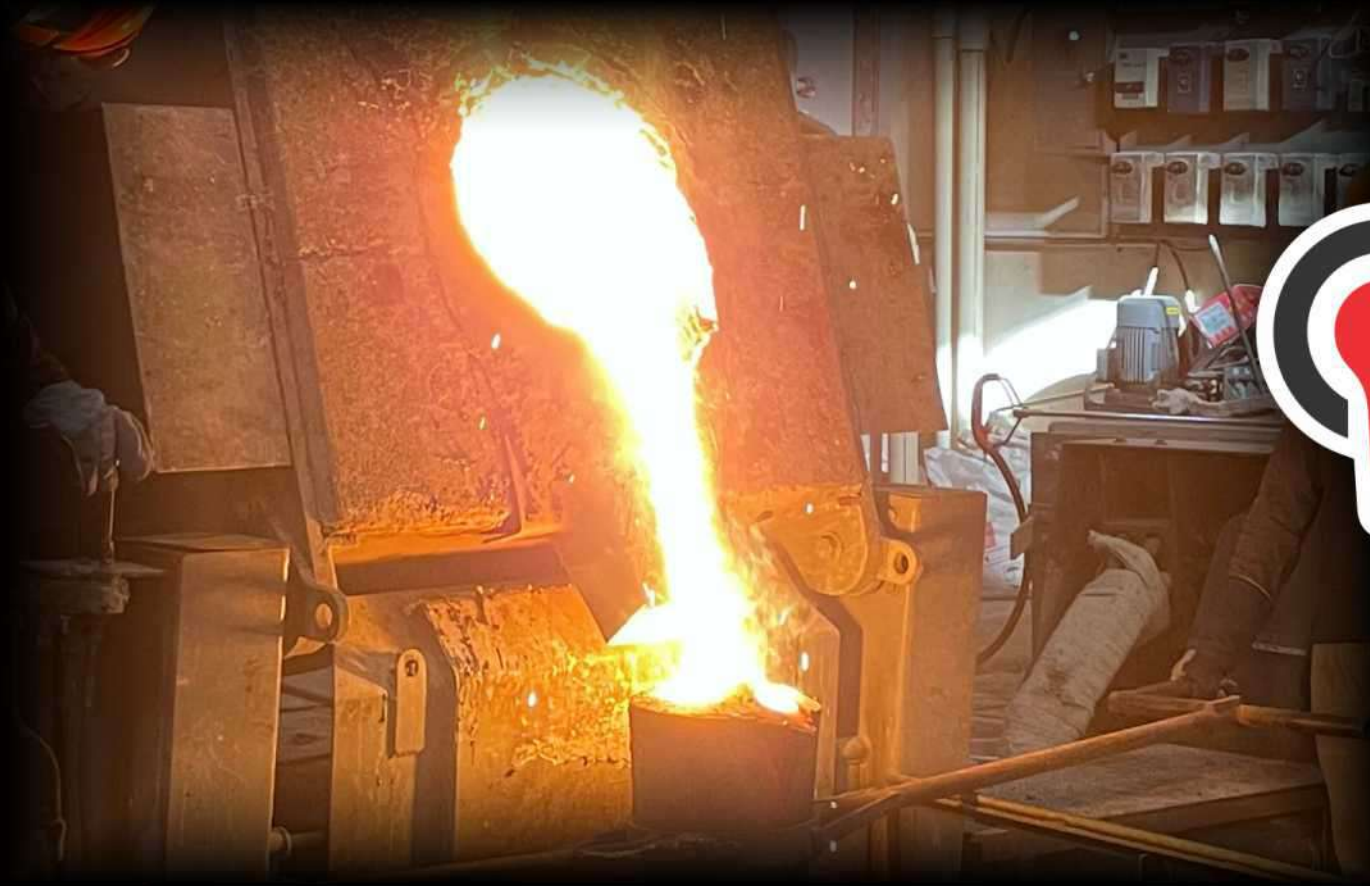
Dewaxing

Wax is removed from shell using Autoclave.



Shell Preheating

Gas fired furnace is used for preheating the mould.



Four Induction Melting Furnaces

TWO INDUCTION MELTING FURNACE AT PLANT - 1

Furnace 1 : 550 KW & 500 Kg Crucible - 2 Nos.

Furnace 2 : 350 KW & 350 Kg Crucible - 1 No.

TWO INDUCTION MELTING FURNACE AT PLANT - 2

Furnace 1 : 350 KW & 350 Kg Crucible - 1 No.

Furnace 2 : 175 KW & 350 Kg Crucible -1
No. & 150 Kg Crucible - 1 No.



Heat Treatment

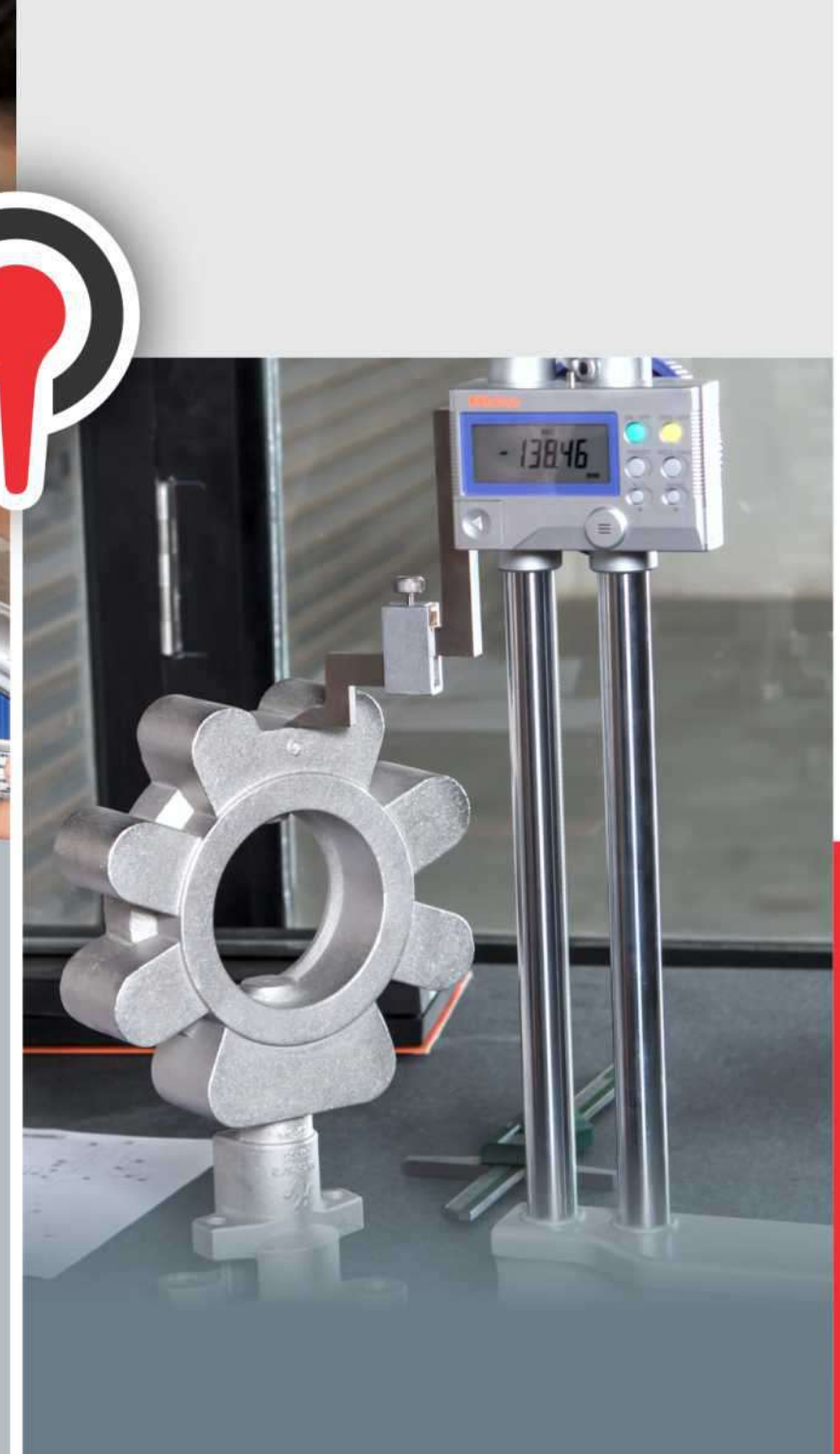
API 6D calibrated heat treatment furnace with water quenching facility and data logger for heat treatment graph with SCADA system.

PLANT - 1 : Electric box type furnaces of 1 & 1.5 ton capacity.

PLANT - 2 : Gas fired box type furnace of 500 Kgs. capacity.



Quality



Stagewise Dimension Control

- We measure the die as per drawing at development stage.
- We measure the dimension of wax pattern and casting during the process as per control plan.



Chemical Checking

Bruker make Q4 Tasman spectrometer with Fe & Ni base and 23 channels including Nitrogen & Selenium.

- Test specimen from each heat is checked before pouring.
- Heat no. is punched on each test specimen strip.
- Same heat no. strip is put into the moulds.
- Same heat no. is transferred to castings.
- BAS make certified reference materials for calibration.

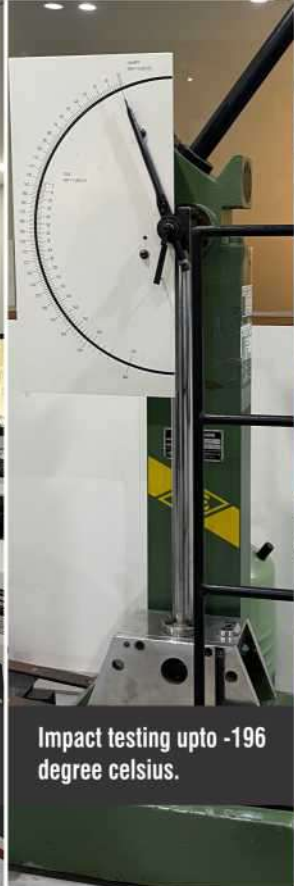


PMI

We have in-house Positive Material Identification (PMI) facility for chemical analysis of Thermo Fisher Scientific Niton XL2 100G make



Tensile test with extensometer for 0.2%, 0.5 % and 1% proof strength check.



Impact testing upto -196 degree celsius.



Portable Hardness Tester



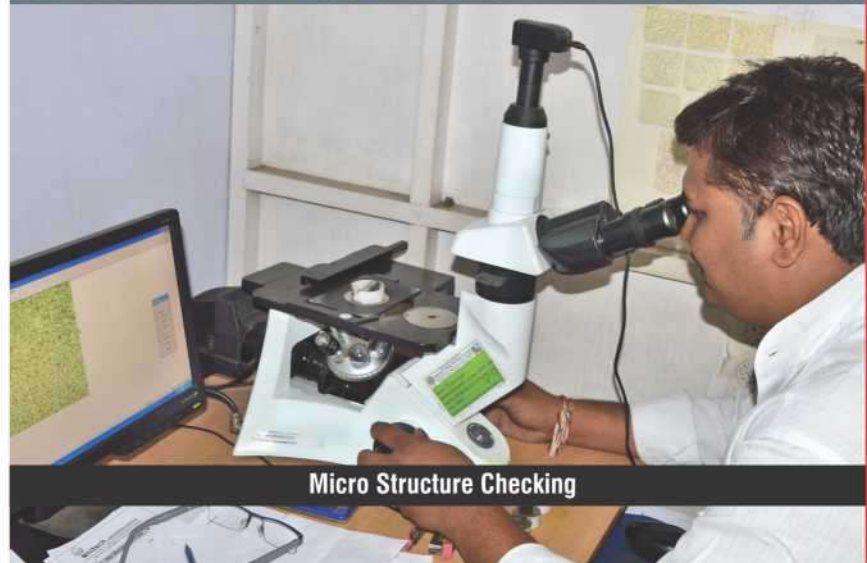
Computerized Brinell hardness testing machine



Inter Granular Corrosion Test as per practice "B", "E"

Lab Testing

Tensile test, Impact test, Hardness test, IGC test, Micro structure checking, Ferrite test and Ferro-alloy checking.



Micro Structure Checking



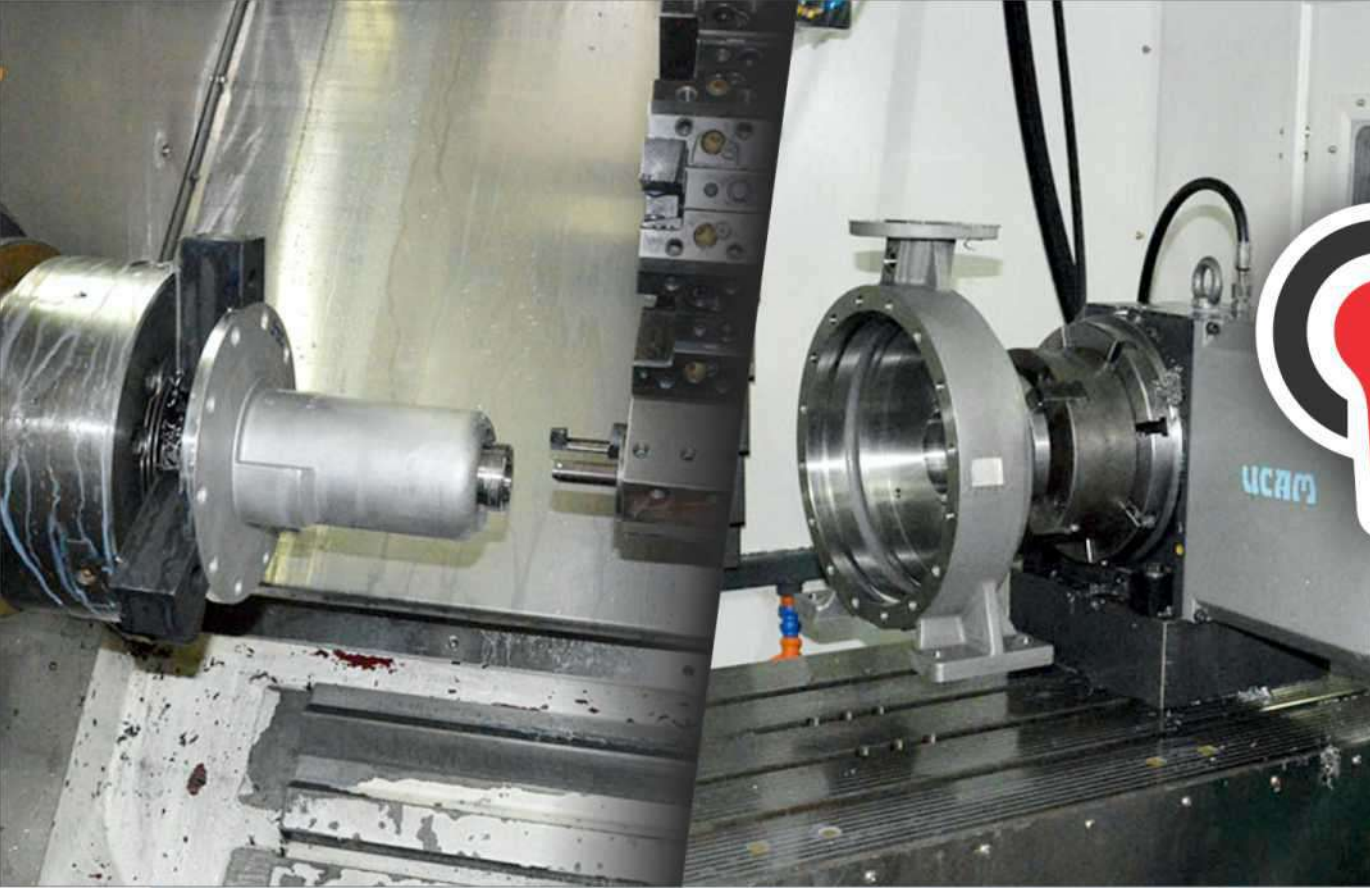
NDT

We have ASNT Level II Inspector for RT, PT & MPT



Certification

- ISO 9001 : 2015 – TUV Nord
- PED 2014/68/EU – TUV Nord
- AD 2000-Merkblatt W0 – TUV Nord
- PER 2016 - TUV Nord
- NORSOK M650 – TUV Nord
- API 20A - TUV Nord
- IBR Well Known - Director of Boiler, INDIA
- MARINE - DNV and Llyod's register



Machining

Well-equipped in-house machine shop



Well-equipped in-house machine shop with following capacity :



Type of Machine & Model	Brand	Specification of Machine	Qty.
CNC DX 250	JYOTI	CNC with maximum turning diameter 500 mm and length 700 mm.	2
CNC SJ 500	Ace Micromatic	CNC with maximum turning diameter 200 mm and length 500 mm.	3
CNC LT - 20C	Ace Micromatic	CNC with maximum turning diameter 400 mm and length 700 mm.	2
CNC DX 350-1000A (New)	JYOTI	CNC with maximum turning diameter 650 mm and length 1000 mm.	1
VTL - 40	Ace Micromatic	VTL with bed span of 850 mm length, 850 mm diameter.	1
VTL- BVL 800H	BFW	VTL with bed span of 1050 mm length, 1050 mm diameter.	1
VMC 850	JYOTI	VMC with bed span of 800 mm length, 500 mm width & 500 mm height with 4th axis travel span of 250 mm.	1
VMC 850	JYOTI	VMC with bed span of 800 mm length, 500 mm width & 700 mm height	1
VMC VF2	HAAS	VMC with bed span of 500 mm length, 400 mm width & 400 mm height with 4th axis travel span of 200 mm.	1
VMC RX 20 (New)	JYOTI	VMC with bed span of 800 mm length, 500 mm width & 500 mm height with 4th axis travel span of 250 mm.	1
VMC 1060P (New)	JYOTI	VMC with bed span of 1020 mm length, 600 mm width & 800 mm height with 4th axis travel span of 450 mm.	1
VMC - BMV50	BFW	VMC with bed span of 800 mm length, 500 mm width & 500 mm height .	1
HMC	Mazak	HMC with bed span of 500x500 mm & 500 mm height with 4th axis.	1



Surface Roughness Tester

Make : Zeiss

Model :
Surfcom Touch 50



CMM Inspection

MAKE : ZEISS,

MODEL : CONTURA G2

SIZE OF TABLE : 700 X 1000 X 600 mm



Surface Treatment

We cater castings with various surface treatments/coatings as below :

IN-HOUSE:

Electropolish – Glass Bead Blast

OUTSOURCE:

Powder Coating – Zinc Trivalent – Zinc Phosphating

Cobalt Coating - Aluminium Flake Coating

Moly Coating - Hard Chrome – QPQ – Hot Dip Galvanizing



Surface Treatment



Phosphating



J Coat Finish



Zinc Coating



Specially Developed
Industrial Coating



Electro Polish



Silver Coating



Electro Polish Dull Finish



Glass Bead Blasting Finish



Powder Coating



Mirror Polish



Materials



Materials

Carbon Steel A216 Gr.WCA, A216 Gr.WCB, A216 Gr.WCC, A352 Gr.LCB, A352 Gr.LCC, 1.0619, 1.0625.

Austenitic Stainless Steel A351 Gr.CF8/CF8A, A351 Gr.CF8M, A351 Gr.CF3/CF3A, A351 Gr.CF3M, A351 Gr.CF8C, A351 Gr. CK20, A351 Gr.CN7M, A351 Gr. CG8M, 1.4308, 1.4408, 1.4306, 1.4404, 1.4852, 1.4843, 1.4500, 1.4448.

Low Alloy Steel A217 Gr.C5, A217 Gr.C12, A217 Gr.WC1, A217 Gr.WC4, A217 Gr.WC5, A217 Gr.WC6, A217 Gr.WC9, A217 Gr.WC11, A217 Gr.CA15, 1.7363, 1.4389, 1.5419, 1.7356, 1.7379, 1.4006.

Super Duplex / Duplex Steel A890/A995 Gr.1B, A890/A995 Gr.2A, A890/A995 Gr.3A, A890/A995 Gr.4A, A890/A995 Gr.5A, A890/A995 Gr.6A, 1.4460, 1.4462, 1.4469.

Martensitic Steel A743 Gr.CA15, A743 Gr.CA40, A743 Gr.CA6NM, 1.4008, 1.4028, 1.4313.

Nickel Based Alloy A494 Gr.N-12MV, A494 Gr.CW12MW, A494 Gr.CZ100, A494 Gr.CW6MC, A494 Gr.CU5MCuC, A494 Gr.CW2M, A494 Gr.CW6M, A494 Gr.CW12MW, A494 Gr.CX2M, A494 Gr.CX2MW, A494 Gr.N12MV, 2.4686, 2.4170.

Precipitation Hardening Stainless Steel A747 Gr.Cb7Cu-1, A747 Gr.Cb7Cu-2, 1.4542.

Cobalt Based Alloy Stellite -3, Stellite -6, Stellite -12

Apart from above listed grades, we can cast any customer specified grades as per various standards like ASTM, DIN, GOST, JIS, IS, BS etc.



Products



Ball Valve Castings



Developed upto 12" # 150 Body and Adaptor in CK3MCuN.

Trunnion Plate upto 24" in CW6MC



Butterfly Valve Castings



Developed Body upto 14" and Disc up to 24"



Gate Valve Castings



Developed Body upto 8" # 150,
Wedge upto 14". Special project
executed of 2" # 1500 in
CW6MC & CU5MCuC

Globe Valve Castings



Developed Upto 8" # 150 size.
Special project executed of 2"
1500 in CW6MC & CU5MCuC

Check Valve Castings





Safety Valve Castings



Fire Valve Castings





Slurry Valve Castings



Breather Valve Castings





Diaphragm Pump Castings





Centrifugal Pump Castings



Pump Casing : Developed upto 875 x 660 x 360 mm & Weight : 200 Kg.
Open Impeller : Developed upto Ø 600 mm & Weight : 113.650 Kg.
Closed Impeller : Developed upto Ø 530 mm & Weight : 78.00 Kg.



Fire Safety Pump Castings



Impeller with 2.5 mm
vane thickness

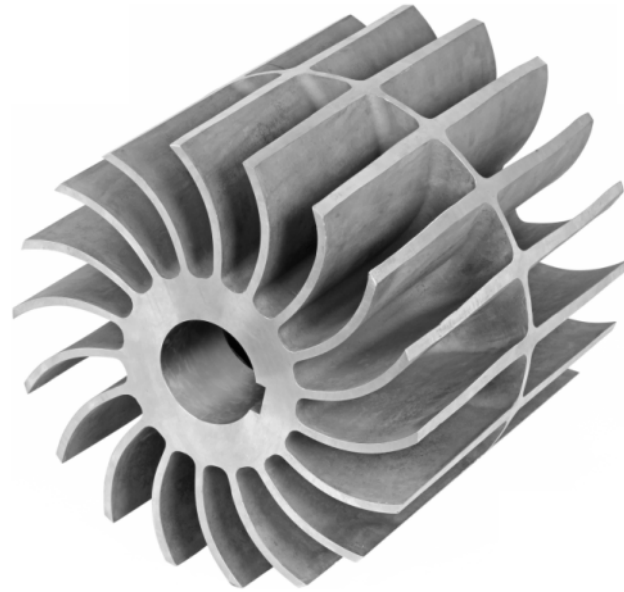


Metering Pump Castings





Vaccum Pump Impeller Casting



Diameter : 408 mm Length : 400 mm Weight : 135 Kg / pc



Pump Castings for Food Industries





Construction Industry Castings





Food Processing Machinery Castings





Process Instrumentation Castings



Strainer Castings





Actuator Castings





General Engineering Castings



We also cater machined components with below manufacturing process.



- Sand Casting
- Forging
- Shell Moulding
- Pressure Die Casting
- SG Iron Casting
- CNC Machining from Bar Stock





Environment Awareness



Solar Energy

Installed solar power plant of 2.36 MW as a green energy generation

Additional 1MW is planned to be installed by 1st Quarter of 2026.



More than 1000 trees are planted



Esteemed
Clients

KITZ

 **ABO** valve

 **BURNDY**


BI
BRUKAR INC.

ADITYA BIRLA

HINDALCO

 **Pentair**

Valmet 



EGGER

SPXFLOW


CECO

IDEX
CORPORATION

 **AMPO**

TITAN

RUSSULA


EMERSON

Nirmal ™

 **PRIMETALS**
TECHNOLOGIES




ALPHA DYNAMIC
Pumps & Flowmeters

 **L&T Valves**



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INDIA

TACK

감사

Danke

Gracias



Teşekkürler

Thank You

Merci

Grazie

Kiitos

感謝

Спасибо



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