

OUR WORK IS OUR IDENTITY



POURING VALVE & PUMP CASTING
SINCE 30 YEARS & STILL CONTINUING



INIRICAST PVT.LTD. an Investment Casting foundry was established in year 1988. To meet the increasing demand of Investment castings and to satisfy the need of bigger size castings, INIRICAST had added three more manufacturing location under the name of intolease yet. Ital., an Investment casting foundry, year 1994), Quawan with the location of a sand castings foundry, year 1989, and Invest cost to l., an Investment castings foundry, year 2012 to produce Vasuum and Air melt Investment castings for Valves - Pumps. Turbine Wheel Orthopaedic Implants). Comprising all four locations, total built up area spread over to 29591 mt² (plot area 85692 mt²) and Qardy manufacturing capacity is 8000 clonnes. Out of yearly (year 2017-2018) produced 3316 tonnes, 90% of production (3434 tonnes) are shipped to Valve & Pumps companies which consists of all Ferrous alloys, Low & High alloys, Steel & Stailless Steel, Duplec Steel & all in melt Nickel and Nickel alloys including some selected Non Ferrous grade like Brass and Aluminium Bronze. The weight handled in Investment Castines is from few arress to 110 ke and 1500 ke. Said earlies for 70 ke to 1500 km.

The financial strength as appraised by D & B:

In our quest to be close to the customer, INTRICAST has created global sales linkage by bringing together a seasoned team of casting specialists from all over the world, foundry having it's global sales network in Europe, U.K., U.S.A. & in India. 65% of production are being exported to various parts of world wiz Germany, Israel, Spain, The Netherlands, Sweden, Hungary, U.R., U.S.A., Mexico, Italy, France, Austria, Denmark and Portugal. To test and certify in accordance to standards, foundry is having state of art testing facilities including Radiography Source IR-192 & Co-60 isotopes. Approvals we have are for ISO 9001-2015, AD 2000- Merkblatt WO, PED act to Bitchevite 2014/68/EVL, U.Jovfs, D.NH-CJ, Buerau Verlars, KRI, BR, R8 & EL, Apart of this, foundry having an approval for manufacturing of castings for world renowned refineries and certification bindless like NDSOW.



INVESTMENT CASTING & It's SCALE

At INTRICAST, we manufacture Investment Castings weight of single piece casting 40 Kg, ideally Inkaving facility & technical capabilities to cast up to 120 Kg). We are equipped with 47 nos of high tech wax injection presses, state of art shelling area having environment control with respect to temperature, humidity and 3 nos. of auto

Our Melting and Heat treatment shops are equipped with: Four 250 kW and One 550 kW meltium frequency induction furnace with varying crucible of 50 kg (1 no.) 250 kg (2 no.) 250 kg (9 nos.) 250 kg (1 no.) 30 not medium frequency Vacuum melting for type VMA-C1 E-8P. Equipaed Not tow Gestgened for furbine wheels and orthopaedic ingulants. Our Heat restatents shop is equipped with two electrically heated, Batch type, size: W 1500mm x D 1200mm x H 750mm, one PNG fried batch type (renaimum temperature attained is 1250 Degree Centigrade) having loading capacity of 1200 kg and two Electrically heated, Batch type having loading capacity of 120 kg and two Electrically heated, Batch type having loading capacity of 250 kgs. All Heat treatment furnaces are monitored by SCADA base software for real trends of different zone

Entire operations are running with ORACLE base customized foundry software, which is unique for our process. 90% of production capacity is utilizing for manufacturing of Valves & Pumps castings viz 3 pc, 2 pc & Single pc ball valve, Top entry ball valve, Plug, Diaphragm, Swing check, Safety relief, Dual plate check valve, Trunnion mounted ball valve (TMBV), Soft seated, Knife gate, Presumatic, Steam trap, Butterfly, Non Return, Gate, Globe valve, Pressure transmitter, Transducer, Actuator, Sturry pumps, Dairy pumps, Chemical handling pump, Submersible pumps, Screw pump, Diaphragm pump & castings for sea water handling and used in RO process etc. Whereas 10% of productions is utilizing for general engineering. orthonoadel implants and turbine wheels.

Composition we cast are Ferrous alloys, low & high alloys, steel, stainless steel including duplex steel, all air melt Nickel, Nickel alloys and selected Non-Ferrous alloys and selected Nickel has a vacuum melting alloys.





SAND CASTING & It's SCALE

At INTRICAST we manufacture Sand casting single piece weight of 1800 Kg which is approximately 36" class 150 Ball Valve Body, Our melting shop is equipped with two medium frequency induction Furnaces of 450 kW & 1000 kW, with varying crucible of 350 Kg, 750 Kg, 1500 Kg & 3000 Kg. To support the need of small Cty requirement in high alloys or in Nickel alloys we have specifically installed a small crucible of 100 Kg.

Heat treatment furnace we have is gas fired, Batch type, Size: wt. 1500MM X Dz. 2000MM X Dz. 2000MM X Hz. 1200MM, having loading captured vel 300 kg, It is monitored by UNISCAM software to know the real treatment furnace is surveyed as per ASTM A991, API-GA Annexuxer the UNISCAM SOME AND API-GA Annexuxer AND API-GA AND API-GA

Through AIR & VACUUM melt Investment casting & AIR melt Sand casting SOME OF ASTM, DIN, BS & proprietary alloys poured are:

DIN 1.4107, 1.4408, 1.4306, 1.4308, 1.4462, 1.4837, 2.4686, 1.4581, 1.4309, 1.4552, 1.4409, 1.4584, 1.4828, 1.4825, 1.4313, 1.4470, 1.4435, 1.4517, 1.7357, 1.4512, 1.4511, 1.4086.

WCB, WCG, WC9, CA15, CAI0, HE, HH, CFB, CFBM, CF3, CF3M, CFVM, CD4MCU, CGBM, CZQC, ACD, CCXMCUN, M35-1, M25-5, CVV12MW, N+12MW, N7M, CY40, CW-6M, CW-6MC, CU5MCUC, CT00, S0N+50°-CC, 63°CV-1(17-44), CD4M CD1046, CU5MCUC, CE3MM (Duples 4A), CD3MWCUN (Duples 6A), CD4MCUN, HK, CE3MM (S0L) Cobat slloys 6 8 12, CW-2M. CX-2MW, CD3MCUN, CD3MWCUM, B148 CS5800 (AR2) and S8-62 (UNS C-83600) Bronze, F75 Coc Falloy (For orthopaedic implants through vacuum melhig), Inconel 713C (proprietary alloys through vacuum melhigin for turbine wheels)





List Of Testing Equipments

- · Three nos of Spectrophotometers-
- One is: SPECTRALAB M8 direct reading optical emission, Spectro Germany, three base Fe-Ni-Co, 24 elements (C,Mn, Si, S, P, Cr, Ni, Mo, Cu, Nb, Ti, V, W, N, Pb, Co, Se, Al, Mg, B, Zr, Fe, Bi, Sn).
- Second one is: SPECTROMAXx direct reading optical emission spectrometer- Spectro Germany, two base Fe-Ni, 24 elements
- Third one is: SPECTROMAXx direct reading optical emission spectrometer- Spectro Germany, Four base Fe-Cu-Ni-Co. 30 elements
- Chemical (Wet) analysis laboratory
- P.M.I- XL2 800 Allov Analyzer (Make: Thermo Niton USA)
- Ferrito Scope FMP30 (Make: Fischer)
- Mechanical Testing Laboratory: Ys, Ts, % of elongation, reduction of area, bend test and Impact test @ room temp to -196°C)
- Hardness Testing: Brinell as well Rockwell Hardness tester (optical with 3000 kg load).
- Metallographic Laboratory equipped with:
 - Trinocular Inverted Metallurgical Microscope-50X-1000X- Carl Zeiss Make and Stereozoom Microscope 8X-45X Dewinter Make.
- Inter Granular Corrosion Test (IGCT) facility for practice A, B, E as per ASTM A262 and corrosion test as per ASTM G48 method A.
- Dve (Liquid) penetrant test facilities ASNT Level II.
- Magnetic Particle testing equipment for Dry and Wet (fluorescent) ASNT Level II.
- Radiography: Source-IR-192 & Co-60 isotopes.- ASNT Level II
- Ultrasonic testing- ASNT Level I.
- · 3-D Coordinate Measuring machine "Spectra" (CMM)
- RAD CHECK METER With External Detector, Type no. RC705B, Range Covered 0-10,000 uR/hr
- Flexoscope: effective length 570mm X Outer diameter 4.2mm, viewing angle: 0 Degree, Field of vision:100
 Degree
- Design, Simulation and Image Analysis Software:
- CREO Parametic version 2.0 NX Version 8.5 AUTO CAD LT Version 8.5 Softcast for simulation Dewinter

Approved castings suppliers for various projects:

Following end customers, through our various customers had visited and conducted a evaluation survey of our foundry and have given approval to our customer for use of castings supplied by our foundry.

INTRICAST - INTOLCAST - INVAC CAST GUJARAT INTRUX LIMITED

NORSOK M650- Edition 5 for Grade 4A &6A

Saudi Aramco, Chevron, TOTAL-FINA-ELF, EXXON MODII

National Petroleum Construction Co. (NPCC) -Abu Dhabi WO MED000577-WO MED00586

Petrofac International WO MED00567

RASE Chivoda Corporation Limited - Japan

Why INTRICAST will be your source for Valve & Pump Castings?

- Through a span of 30 Years with the continuous & continual improvement, dedicated & highly focused vision
 in the field of foundry especially for catering castings need for Pumps & Valves industry, Out of yearly
 produced 3816 tones, 90% of productions, 3443 tones are cast for Valve & Pump companies, Capability to
 cast single piece Investment castings weight from few grams to 120 Kg. & Sand castings from few Kg to 1800
- I FSS REJECTION TIMELY DELIVERY COMPETITIVE PRICE
- · Pouring around 134 various Alloys.
- Small batch production runs: We have range of melting crucibles which allows us to run small batch productions.

Modern tool making facility:

To implement the exact thought of your design engineer, we have modern tool (for Investment Castings) and apattern (for Sand Castings) anding facility which includes Vertical Machining Centre (VMC), Milling Machine, Electro Discharge Machine, Conventional Lathe Machine, Conventional Drill Machine with use of varying of latest software.

Modern Measuring facility:

We have at INTRICAST, a 3-D Coordinate measuring M/c "Spectra" (CMM).

Single Vendor Sourcing Advantages (SVSA):

Apart from Investment castings, INTRICAST have their Sand casting facilities under name of Gujarat Intrux Limited having capacity to produce annually 3000 MT of alloys and Super alloys castings. Shipment together for Investment and Sand castings in one single container is the fast and cost effective locatistics solution.





STATE OF ART MACHINING FACILITY EQUIPPED WITH:

MACHINE

MACHINE DETAIL

35 nos. of CNC Turning centre

Chuck size 160, 210, 300 and 450mm

8 nos. of VMC

XYZ Travelling is 600mm x 150mm x 320mm (5nos.), 762mm x 406mm x 500mm,

11 nos of HMC Table size 400mm



Awards & Approvals:

Consecutively since last 17 years (from year 1996 to 2016) we are awarded for Export Excellence & Highest exporters trophy in recognition of achieving highest export performance in western region by Engineering Export Promotion Council (EEPC.a independent Government Body).

APPROVALS WE HAVE ARE FOR



















30 GLORIOUS YEARS IN THE ART OF CASTING





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