



TECHNOCAST PVT. LTD.

www.vimaxtechnocast.com



Assured Quality
Inspired Performance... for

Investment Casting

Proven Excellence by **Experience**

Vimax Technocast brings over 14 years of expertise in the investment casting industry, specializing in high-quality castings through the lost wax process. We serve various sectors, including valves, pumps, automotive parts, aerospace components, oil & gas, marine, and fire safety equipment.

Driven by innovation and problem-solving, our skilled team of engineers and machinists is dedicated to delivering exceptional value and satisfaction to our clients.

Advanced Technology:

Equipped with the latest machinery, our factory utilizes advanced techniques to deliver superior results.

Quality Control:

Every casting undergoes rigorous quality checks to meet the highest industry standards.

Skilled Workforce:

Our dedicated team of experts brings decades of experience, ensuring each project is executed flawlessly.

Sustainable Practices:

We prioritize sustainability, employing eco-friendly practices that benefit both our clients and the planet.



| Our Process



Tool Room

Our advanced tool room develops precise tools, calculating wax and metal contraction allowances for accurate dimensions.

We produce single and multi-cavity tools from durable aluminum, ensuring secure storage with clear identification.

Wax Injection

Well equipped setup with controlled atmospheric area.

We have Injection Machines Auto Press Semi Auto Press and Manual Press

Shell Building

High-strength refractory materials are used after thorough inspection.

Our facility features a rain fall sander, high RPM slurry mixer, slurry drums, uidized bed, and high axial fans for optimal processing.

To maintain ideal temperature and humidity, we have installed de-humidifiers, and a central air-conditioning system.

Melting

Induction furnace
250 kwh
Crucible capacity 300kg
Crucible capacity 100kg

Temperature of liquid metal measurement with pyrometer and controlled through temperature controller.

All equipment & temperature indicator, and controller are calibrated at regular interval.

We used t-spout ladle. capacity of ladke is 35kg, 50kg and 80kg.

Fettling

Knockout Facility
Lathe machine and Swing Grinding machine for Gate machining

Fiber Cutting and Pneumatic Grinding

Shot Blasting Machine - Rotary Table Type

Pickling and Passivation For Stainless Steel.

Heat Treatment

Furnace Details:

Fuel : Gas fire
Operating Temp: 1200° C
Calibration: API specification API-6D 25th Edition (Annx. H), API-6A (Annx. M) ASTM A991 (Volumetric Method)
Max Batch Capacity: 1000Kg
Thermocouples: 2 nos.
Agitation: Mechanical
Quenching Tank Capacity: 10000 Lt.
Max Quenching Time: 40 Sec.

Machining

Castings are machined in-house using advanced CNC and VMC machines.

We offer outsourced facilities for HMC and VTL machines tailored to meet our customer's specific requirement

This technology ensures precise dimensional accuracy and surface finish, meeting exact specifications outlined in customer drawings.

Inspection & Dispatch

Casting Inspected dimensionally to customer PO requirement.

Preformed NDE and NDT Activity according to customer requirement.

Visual Inspection 100%

Separate Location for Carbon Steel Casting & Stainless Steel Casting & other Alloys

Packing According to Customer Specification.

Materials

Precision castings start with quality materials.

CARBON STEEL

WCB	A27 60-30
WCC	A148 90-60
LCB	105-85
LCC	

LOW ALLOY STEEL

A217 WC1	WC9
WC4	C5
WC5	C12
WC6	C12A

MARTENSTIC STEEL

CA6NM	LC3
LC1	LC4
LC2	CA15
LC2-1	CA40

AUSTENITIC STAINLESS STEEL

CF8	CH20
CF8M	CN7M
CF3	CG8M
CF3M	CG3M
CF8C	CN3MN
CF10	CK3MCuN
CK20	

NICKEL BASED ALLOYS

A494N12MV	CW6M
N7M	CW2M
M35-1	CW6MC
M35-2	CK2MW
CY40	Cu5MCuC
CW12MW	50Cr50NiNb

COBALT BASED ALLOYS

AMS-5387B
Stellite-6
Stellite-12

DUPLEX STEEL

CD4MCuN(1B)
CD3MN(4A)
CE3MN(5A)
CD3MWCuN(6A)

HEAT RESISTING STEEL

A297 HF
HH
HI
HK
HD

"We also offer custom casting to meet any specifications, including **ASTM, BS, DIN, EN, GOST, JIS, IS, and more.**"



Testing Facility



01
SPECTROMETER

FE and NI Base Spectrometer
havinvg 27 elements with facility
of N analysis.



02
UNIVERSAL TESTING MACHINE

UTM capacity of 100 KN
Electronic Extensometer for 0.2%
Proof Stress.



03
IMPACT TESTING

Capacity: 300 J max
Testing Temp: From 20°C to -196°C



04
HARDNESS TESTING

Rockwell Hardness Tester



05
MICRO STRUCTURE EXAMINATION

Ferrite Testing as per
ASTM E 562 etc.



06
SURFACE ROUGHNESS TESTING

Surface quality N7 - N9
(Ra 1.6 - 6.3 um).

AND MORE

- RADIATION CHECK METER
- CORROSION TESTING
- PMI TESTING
- DYE PENETRANT TESTING
- MAGNETIC PARTICLE TESTING
- RADIOGRAPHY TESTING
- ULTRASONIC TESTING

Machining Facility



CNC Lathes

LMW
FANUC

Swing Over Dia. : 610 mm Max.
Turning Dia. : 500 mm Max.
Turning Length : 600 mm



Vertical Milling Centers

LMW
MITSUBISHI M80

X Axis : 800 mm
Y Axis : 440 mm
Z Axis : 490 mm
Forth axis rotatory table
(Dia. 200mm)(UCAM)



Horizontal Machining Centers

OKK
FANUC

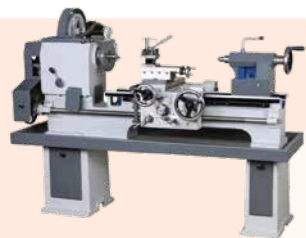
Max. Swing Dia. : 1000 mm
Standard Turning Dia. : 800 mm
Max Turning Length : 1000 mm



Vertical Turret Lathes

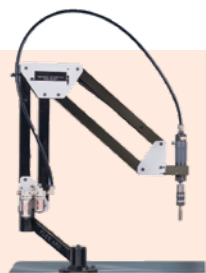
BFW
FANUC

X Axis : 1000 mm
Y Axis : 800 mm
Z Axis : 1000 mm



Conventional Lathes

Turning Dia. : 500 mm X Length 800 mm Max.



Hydraulic Tapping Machine

LMW
FANUC

X Axis : 1000 mm
Y Axis : 800 mm
Z Axis : 1000 mm
Forth axis rotatory table
(Dia. 300 mm)(UCAM)

Foundry Standards & Certifications



ISO 9001 : 2015



PED 2014/68/EU
AD 2000 Merkblatt WO



IBR - 1950

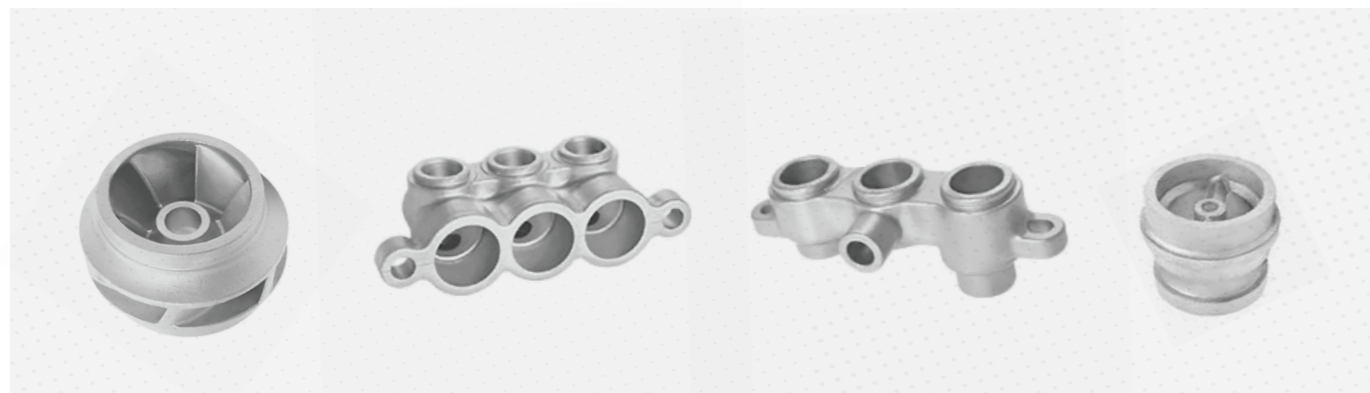
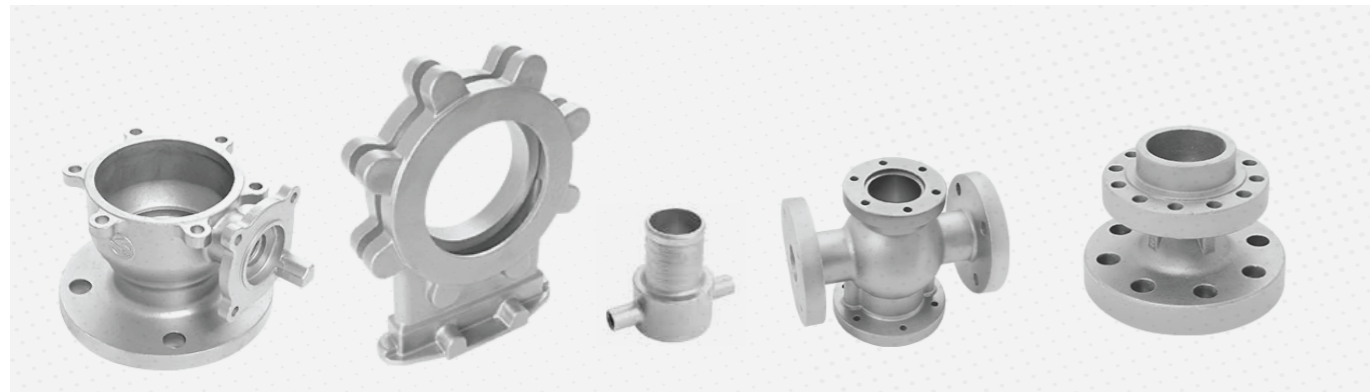
Our Strength

- Surface quality N7 - N9 (Ra 1.6 - 6.3 um).
- Tolerances according to IS 11166:1993 Class 2 and VDG specification P690 for investment casting.
- Weights from 40 Grams to 150 kg.
- Size of casting up to 900 x 900 x 450 mm.
- Cast in accordance with ASTM, BS, DIN, EN, GOST, JIS, IS specifications.



“ From Valves to Aerospace components, our precision castings meet the unique demands of every sector. ”

- Valve & Pump
- General Engineering
- Food Processing
- Automobile
- Fire Fighting
- Aerospace & Defence
- Railway & Agricultural Equipments
- Construction & Mining
- Marine
- Human Implants
- Textile
- Electrical Engg.



Our Global Presence

“ Proudly serving customers across the globe, delivering quality and precision everywhere. ”

3000+

Products

10000+

Successful Customer Shipments & Counting

12+

Countries



TECHNOCAST PVT. LTD.



Renewable Energy Solar Plants

We believe in a sustainable growth strategy. For our state of the art foundry we use green solar energy. Our solar power plant has a production capacity of 1.5 MW and fulfills 60% of our power requirements.



Plant:

Dwarkesh Industrial Estate, Plot No. 1,
Near Kuvadva GIDC, NH-8B, Rajkot-360023,
Gujarat(India).

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