



Engineering Solutions Provider

Forging | Precision Machining
Sand Casting | Investment Casting

An ISO 9001:2015 & IATF 16949:2016 Certified Company

ABOUT US

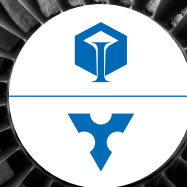
The INSHAPE Group, comprising Inshape Technocast Pvt. Ltd. (ITPL), Inshape Precision Components Pvt. Ltd. (IPCPL), and our Forging Division, is a unified engineering powerhouse offering advanced solutions in Investment Casting, Forging, Precision Machining, and Component Manufacturing.

Our journey began in 2007 with the establishment of our Forging Unit, which laid the foundation for a legacy built on engineering excellence, quality, and innovation. In 2019, we expanded our capabilities with the inception of ITPL and IPCPL, bringing in modern infrastructure for investment castings and high-precision machined components.

As an ISO 9001:2015 certified group, we have continually evolved into one of India's technologically advanced manufacturers and exporters, operating from a 10,000 sq. yard facility with a plant layout designed to minimize material movement and optimize efficiency.

We embrace a research-driven culture, adopting best industry practices in design, prototyping, fabrication, machining, testing, and validation. Our state-of-the-art in-house capabilities enable us to manufacture over 300 diversified products.

With end-to-end manufacturing capabilities—from product conceptualization and design to final machining, testing, and validation—we deliver unmatched quality and performance. Each process is backed by stringent quality control, a highly skilled team, and a focus on continuous improvement.



At **INSHAPE**,
we don't just manufacture components—we deliver
precision, reliability, and value that powers
industries globally.

We believe in building long-term
relationships through:

- **Timely delivery**
- **Customer-centric approach**
- **Innovative solutions**
- **Commitment to international standards**



OUR MISSION & VISION

OUR MISSION

To deliver world-class engineering solutions through precision manufacturing, innovation, and superior customer service ensuring value for money, consistent quality, and long-term partnerships.

OUR VISION

To be a globally recognized and trusted group in the fields of Forging, Investment Casting, Precision Machining, and Component Manufacturing, known for excellence, integrity, and sustainable growth.

OUR CORE VALUES

QUALITY FIRST

We embed quality in every stage from design to delivery.



INNOVATION-DRIVEN

We embrace advanced technologies and continuous improvement to stay ahead.



CUSTOMER COMMITMENT

We strive to exceed expectations with responsive service and dependable solutions.



INTEGRITY & TRANSPARENCY

We conduct business ethically, with honesty and respect for all stakeholders.



TEAMWORK & EXCELLENCE

We foster collaboration, accountability, and professional development.



SUSTAINABILITY

We commit to environmentally responsible practices and long-term progress.



INDUSTRY WE SERVE



Valve
Industry



Pump
Industry



General
Engineering



Agriculture
Machinery
Parts



Aerospace



Defence



Marine
Engineering



Instrumentation



OUR CERTIFICATION



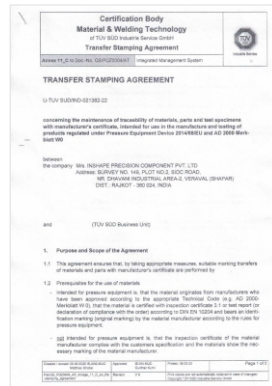
IPCPL - ISO 9001:2015



ITPL - ISO 9001:2015

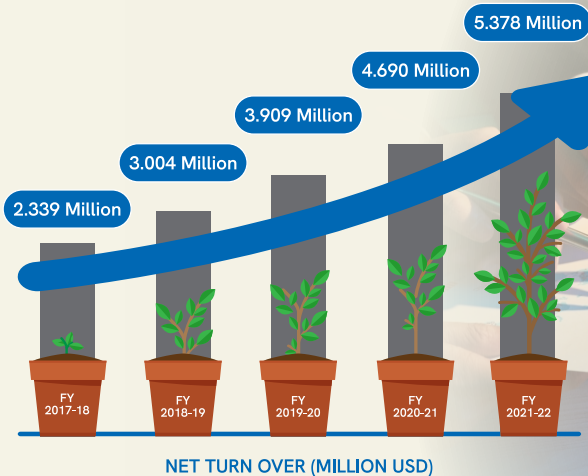


IATF 16949:2016



PRESSURE EQUIPMENT DIRECTIVE (PED)

TURNOVER DATA



FORGING DIVISION

All types of
Hot Forging Products

Open Die / Close Die



HAMMER PRESS

CAPACITY
UPTO 25 K.G.


INSHAPE
TECHNOCAST PVT. LTD.
We Shape Future of Engineering


IPCPL
INSHAPE PRECISION COMPONENT PVT. LTD.
Complete Engineering Solution



1



2



3



4

7101 HUTA ZYGMUNT 2.5
TON AIR DROP HAMMER

HAMMER PRESS - CLOSE DIE



OUR PRODUCTS



CASTING DIVISION

*SAND CASTING • SHELL MOLDING CASTING • INVESTMENT CASTING
PRESSURE DIE CASTING • GRAVITY DIE CASTING*

WORLD CLASS **INFRASTRUCTURE**





Mfg. S.G. Iron Casting & Grey Iron Casting as per IS & ASTM Standards

- | | |
|-------------------------|------------------------|
| ➤ Automobile | ➤ Railway |
| ➤ Power Transmission | ➤ Machine Tools |
| ➤ Agriculture Equipment | ➤ Wing Energy |
| ➤ Defense | ➤ Valve Industry |
| ➤ Earthmoving | ➤ Oil & Petrochemicals |

SAND CASTING

Our Annual Production Capacity is 1200 MT, We have a Capacity to cast a single components weight range from 1 lbs (2.00 Kg) to 600 lbs (300 Kg).

TESTING FACILITY

Spectrometer: High Performance Metals Analysis with Latest Technology

Computerised Universal Testing Machine 40 KN Capacity
With Electronic Extensometer

Microscope: Inverted Metallurgical Microscope with Image Analyser & Analyse Steam Software

Hardness Testing: Optical Brinell & Rockwell Hardness Tester

C. Meter: Carbon Silicon Analyser Tester for Melton Metal.

Sand Testing Equipments: All Types of Electrical, Mechanical & Digital Testing.
(Permeability - Compatibility - Universal Strength - Hardness - Tensile)

Other Testing Facility: Ultrasonic - Radiography - Magnetic Particle - Eddy Current - Hydro Test
(This Facility are carried out at NABL approved third party laboratory)



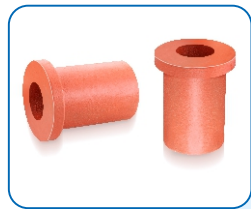
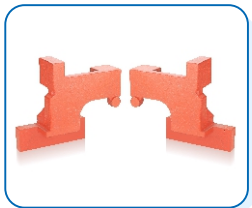
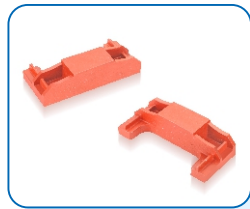
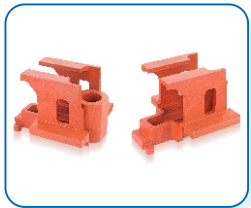
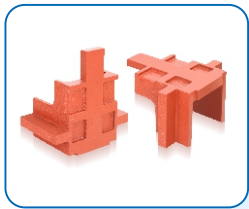
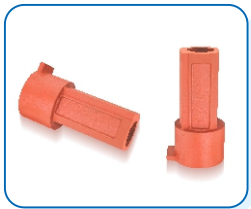
SAND TESTING LAB:

1. Sand Siever for AFS Analysis
2. Permeability Testing
3. UTM Machine for compressive Strength
4. Mold-Core Hardness Tester

NON DESTRUCTIVE TESTS:

1. Radiography Inspection Test
2. Ultrasonic Inspection Test
3. Magnetic Particle Test
4. Die Penetration Test
5. Guass Meter (Magnetism)
6. Radiation Survey Meter (Radio Active Contamination Detection)

CASTING PRODUCTS



CASTING PRODUCTS

SG Iron Specification

ISO 1083

American - ASTM A536

European - EN 1563

German - DIN 1693

Automobile



Agriculture



General Engineering



Power Transmission



Chemical & Textile



MATERIAL HANDLED

We offer wide range of materials by producing all grades of Carbon Steels, Austenitic & Martensitic Steels, Super austenitic High Alloys, Duplex Alloys, Super Duplex Alloys, Nickel base Alloys, Cobalt base alloys, Low alloy steel etc... as per customer's specifications and national and international standards.

| MATERIAL | ASTM | DIN |
|--------------|-------------|--------|
| Carbon Steel | A216 - WCB | 1.0619 |
| | A216 - WCC | 1.0625 |
| | A352 - LCC | 1.1138 |
| | A352 - LCB | |
| | | 1.6759 |
| | | 1.7230 |
| | | 1.6220 |
| Carbon Steel | A217 - WC1 | 1.5419 |
| | A217 - WC4 | |
| | A217 - WC5 | |
| | A217 - WC6 | 1.7356 |
| | A217 - WC9 | 1.7379 |
| | A217 - WC11 | |
| | A217 - C5 | 1.7363 |
| | A217 - C12 | |
| | A217 - C12A | |

| MATERIAL | ASTM | DIN |
|------------------------------|----------------|--------|
| Austenitic Ferrite | A351 - CF3MN | 1.4435 |
| Duplex Steels | A351 - CD4MCU | |
| | A351 - CG6MMN | 1.3964 |
| | A351 - CK3MCUN | |
| Super Duplex Stainless Steel | A890 - GR1A | |
| | A890 - GR2A | |
| | A890 - GR3A | |
| | A890 - GR4A | |
| | A890 - GR5A | |
| | A890 - GR6A | |
| Nickel Based Super Alloys | A494 - M-35-1 | 2.4365 |
| | A494 - M-35-2 | |
| | A494 - M 30 C | |
| | A494 - N-12MV | |
| | A494 - N-7M | |
| | A494 - CY40 | 2.4816 |
| | A494 - CW12MW | 2.4686 |
| | A494 - CW6M | |
| | A494 - CW2M | 2.461 |
| | A494 - CW6MC | 2.4856 |
| | A494 - CX2MW | 2.4602 |
| | A494 - CU5MCUC | 2.4858 |

| MATERIAL | ASTM | DIN |
|----------------------------|---------------|---------------|
| Martensitic Steels | A743 - CA15 | 1.4008 |
| | A743 - CA40 | 1.4028 |
| | A743 - CA-6NM | 1.4313 |
| Austenitic Stainless Steel | A351 - CF8 | 1.4308 |
| | A351 - CF8M | 1.4408 |
| | A351 - CF3 | 1.4306 |
| | A351 - CF3M | 1.4404/1.4409 |
| | A351 - CF8C | 1.4827 |
| | A351 - CF10 | 1.4308 |
| | A351 - CK20 | 1.4843 |
| | A351 - CH20 | |
| | A351 - CN7M | 1.45 |
| | A351 - CG8M | 1.4431 |
| | A351 - CG3M | |

CASTING DEPARTMENTS

Pattern Shop



Moulding



Core Making



Closing



Melting



CASTING DEPARTMENTS

Scarp Area



Knock Out



Heat Treatment



Fettling Area



CASTING DEPARTMENTS

Quality Area



Metal Testing Lab



Raw Material Testing Lab



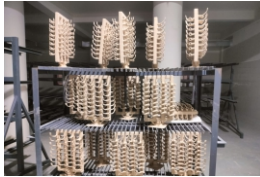
Store & Dispatch



INVESTMENT **CASTING**



INVESTMENT CASTING FACILITY



OUR PRODUCTS

WE AT ITPL & IPCPL , CRAFT CASTING METHOD FOR PRODUCING CASTINGS IN A INVESTMENT CASTING AND MATERIAL WE SUPPLY STEEL, IRON AND NON FERROUS ALLOY CASTINGS.

Pumps



Valves



Machined Parts



Industrial Parts



Automobile



Hardware



Marine



INVESTMENT CASTING

TESTING FACILITY AND DIMENSIONS ACHIEVEMENT



Mechanical Testing:

- Universal Testing Machine 40 KN capacity with electronic extensometer.
- Impact Testing: Impact Testing Machine up to 300 J.
Test temp range - Ambient to -196°C.
- Microscope: Micro structure Examination.
- Hardness Testing: Brinell & Rockwell Hardness Tester.
- Inter Granular Corrosion Test: Unit for IGCT practice A, B, E, C & F.

Chemical Analysis:

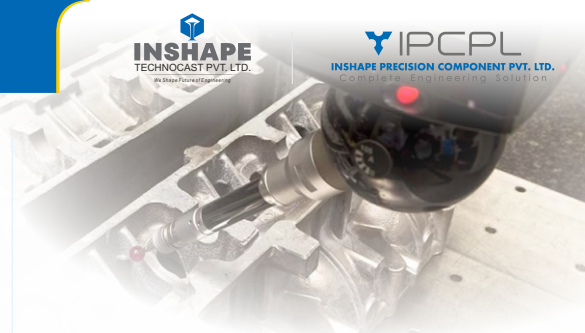
Spectrometer: Fe, Ni, Al, Cu, CO base Spectrometer up to 45 elements with Nitrogen analysis.

Other Testing:

Other testing facility like Special Microstructure, Ferrite Content, Pitting Corrosion Test and any other tests are carried out at NABL approved third party laboratory.

Non-Destructive Testing:

- Dye (Liquid) Penetrate Test.
- Ultrasonic Testing.
- Magnetic Particle Testing.
- Eddy current test.
- Radiography Testing.
- Hydro Test.



Dimensional Tolerance:

Those tolerance apply as general. Closer tolerance can be achieved depending upon part geometry and application of component.

| Size Range | Tolerance |
|--------------|-----------|
| Up to 25mm | ± 0.12 mm |
| 25 to 50mm | ± 0.25 mm |
| 50 to 75mm | ± 0.38 mm |
| 75 to 100mm | ± 0.50 mm |
| 100 to 125mm | ± 0.62 mm |
| 125 to 150mm | ± 0.76 mm |

MATERIAL HANDLED

CORROSION RESISTANCE STAINLESS STEEL – NON HARDENED

| CAST | UNS | WROUGHT | ASTM |
|-------------|--------|---------------|----------------|
| CB30 | J91803 | 431 | A743 |
| CC50 | J92615 | 446 | A743 |
| CD4MCU(A) | J93370 | 255 | A351/A890/A995 |
| CD4MCU(1B) | J93372 | 255 | A890/A995 |
| CD4MCUN(2A) | J93376 | 255 | A351/A890/A995 |
| CD6MN(3A) | J93371 | | A890/A995 |
| 20S | | | A890/A995 |
| CD3MN(5A) | J93404 | | A890/A995 |
| CD3MCUN(6A) | J93380 | | A351/A890/A995 |
| CE30 | J94243 | 312 | A743 |
| CF3 | J92600 | 304L | A351/A743 |
| CF3M | J92800 | 316L | A351/A743 |
| CF3MN | J92804 | 316LN | A351/A743 |
| CF8 | J92600 | 304 | A743 |
| CF8MN(3) | J92600 | 304 | A743 |
| CF8C | J92710 | 347 | A351/A743 |
| CF8M | J92900 | 316 | A351/A743 |
| CF8M(NM) | J92900 | 316 | A743 |
| CF10 | | 304H | A351 |
| CF10M | J92901 | 316H | A351 |
| CF10MN | J92972 | NITRONIC 60 | A351/A743 |
| CF16F | J92701 | 303 | A743 |
| CG6MN | J93709 | NITRONIC 50 | A351/A743 |
| CG3M | J92999 | 917L | A743 |
| CG8M | J93000 | 317 | A351/A743 |
| CH20 | J93402 | 309 | A351/A743 |
| CK20 | J94200 | 310 | A743 |
| CN3M | J94625 | 8743 | A743 |
| CN7M | J80007 | CARPENTER 20 | A351/A743 |
| CN7MCB-3 | | UDDELOHM 904L | - |
| ILLIUM P | - | - | - |
| ILLIUM PD | - | - | - |

CARBON STEEL & ALLOYS

| CAST | UNS | WROUGHT | ASTM |
|------------|--------|---------|-----------|
| WCA | J02502 | - | A216 |
| WCB | J03002 | 1030 | A216 |
| WCC | J02503 | - | A216 |
| WC1 | J12524 | - | A217 |
| WC4 | J12082 | - | A217 |
| WC5 | J22000 | - | A217 |
| WC6 | J12072 | - | A217 |
| WC9 | J21890 | - | A217 |
| WC11 | J11872 | - | A217 |
| CS | J42045 | 502 | A217 |
| LCA | J02504 | - | A352 |
| LCB | J03003 | 1030 | A352 |
| LCC | J02505 | - | A352 |
| LC1 | J12522 | - | A352 |
| LC2 | J22500 | - | A352 |
| LC2-1 | J42215 | - | A352 |
| LC3 | J31550 | - | A352 |
| LC4 | J41500 | - | A352 |
| LC9 | J31300 | - | A352 |
| 1018 | - | 1018 | - |
| 1A(1020) | J02002 | - | A732/A915 |
| 2A(1030) | J03011 | 1030 | A732/A915 |
| 3A(1040) | J04002 | - | A732/A915 |
| 1045 | J04502 | 1045 | A915 |
| 4A(1050) | - | - | A732 |
| 5A(1020) | J13052 | - | A732 |
| 6A(1020) | J13512 | - | A732 |
| 7Q(4130) | J13405 | 4130 | A732/A915 |
| 8Q(4140) | J14049 | 4140 | A732/A915 |
| 9Q(4330) | J23055 | - | A732/A915 |
| 10Q(4340) | J24045 | 4340 | A732/A915 |
| 11Q(4620) | J12094 | - | A732 |
| 12Q(6150) | J15048 | 6150 | A732 |
| 13Q(8620) | J12048 | 8620 | A732/A915 |
| 14Q(8630) | J13051 | - | A732/A915 |
| 15A(52100) | J19966 | - | A732 |
| 9N | J13502 | 4130 | A487 |

CORROSION RESISTANCE STAINLESS STEEL HARDENED

| CAST | UNS | WROUGHT | ASTM |
|---------|--------|---------|-----------|
| C12 | J82090 | - | A217 |
| C12A | J84090 | - | A217 |
| CA15 | J91150 | 410 | A217/A487 |
| CA15M | J91151 | - | A487/A743 |
| CA40 | J91153 | 420 | A743 |
| CA120 | J91639 | 440C | AMS53552 |
| CA6NM A | J91540 | F6NM | A487/A743 |
| CA6NM B | J91540 | - | A487 |
| CA6N | J91650 | - | A743 |
| CA28MWV | J91422 | 422 | A743 |
| CB7CU-1 | J92180 | - | A747 |
| CB7CU-2 | J92110 | - | A747 |

NICKEL BASE SUPER ALLOYS

| CAST | UNS |
|-----------------|-------|
| A494-M35-1 | 24365 |
| A494-M35-2 | - |
| A494-CY40 | 24816 |
| A494-CW12MW | 24686 |
| A494-CW6M | - |
| A494-CW2M | 2461 |
| A494-CW6MC | 24856 |
| A494-CX2MW | 24602 |
| A494-CU5MUCUC | 24858 |
| A560-50CR50NINB | - |

PRECISION
MACHINING
SERVICES



Nurturing a culture of research and excellence, we adopt the best industry practices in design, fabrication, testing and prototyping. We have put in place a modern Shop Floor for different process of Castings / Forgings / Machined Components; our endeavor to ensure top-notch quality is supported by our quality staff. Inshape Precision Component Pvt. Ltd. is our home-grown venture that features a state-of-the-art facility to make IPCPL Home brand. With one-stop facilities like precision component, Industrial Pipe Fittings, Defense, Vacuum Fittings and Semiconductor Parts, Castings & Forging. We offer high-performance, precision-engineered products that often make their way to mission critical applications.



MACHINING FACILITY



LMW MAKE – SMART TURN PLUS
(CNC TURNING)

8"
Chuck Size



LMW MAKE – LL20T L5
(CNC TURNING)

10"
Chuck Size



MACHINING FACILITY



LMW MAKE – LL25T L7
(CNC TURNING)

12"
Chuck Size



LMW MAKE – LTV 50
(Vertical Lathe)



24" Chuck Size
800 x 800mm Swing over

MACHINING FACILITY



LMW MAKE – JV55
(CNC MILLING)

Table Size
X-800 x Y-475 x Z-500



LMW MAKE – JV 80
(Vertical Milling Centre)

Table Size
X-1000 x Z - 900 x Y-600



LMW MAKE – JV100
(CNC MILLING)

Table Size
X-1250 x Y-650 x Z-700



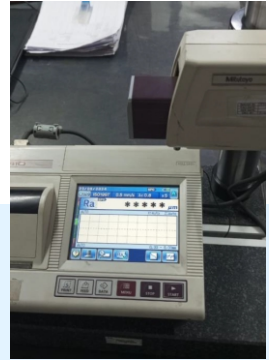
CMM

MITUTOYO CMM CRYSTA-APEX V WITH
UNIVERSAL RENISHAW PROBE.

Size : X-700mm x Y-1000mm x Z-600mm



Mitutoyo Height Gauge



Mitutoyo Roughness Tester

VTL Series VTL2000ATC Series



Specification

1. Max. swing diameter $\varnothing 2500$ mm
2. Max. turning diameter $\varnothing 2300$ mm
3. Max. turning height 1600 mm
4. Max. work-piece weight 10000 KG
5. Spindle speed 200 rpm

LMW MAKE – JH500 (HMC)



Specification

Table Size : 800 x 800 x 800



Investment Casting Factory

Survey No. 58 P4/P2/P1, Plot No. 1,2&3,
Daliya-Ribada Main Road, Village: Sadak Pipaliya
Dist: Rajkot - 360311, Gujarat (INDIA)

Website: www.inshapetechnocast.com



Precision Machining Factory

Survey No. 149, Plot No. 2, SIDC Road,
Near Dhvani Industrial Area, Veraval (Shapar)
Dist: Rajkot - 360024, Gujarat (INDIA)

Website: www.ipcpl.co.in

Contact: Mr. Hiren Domadia | hiren@inshapetechnocast.com
+91-99985-10956 | info@ipcpl.co.in