



**INSHAPE PRECISION COMPONENT PVT. LTD.**  
Complete Engineering Solution

# 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

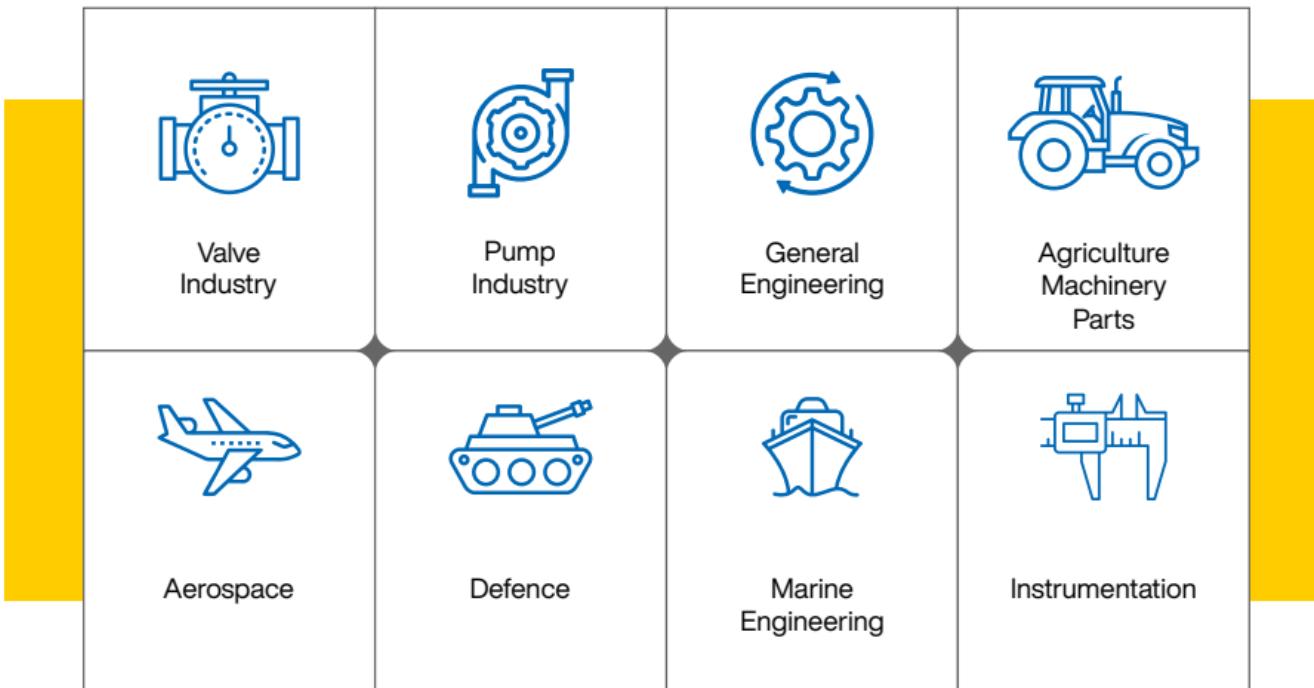
We foster collaboration, accountability, and professional development.



## SUSTAINABILITY

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

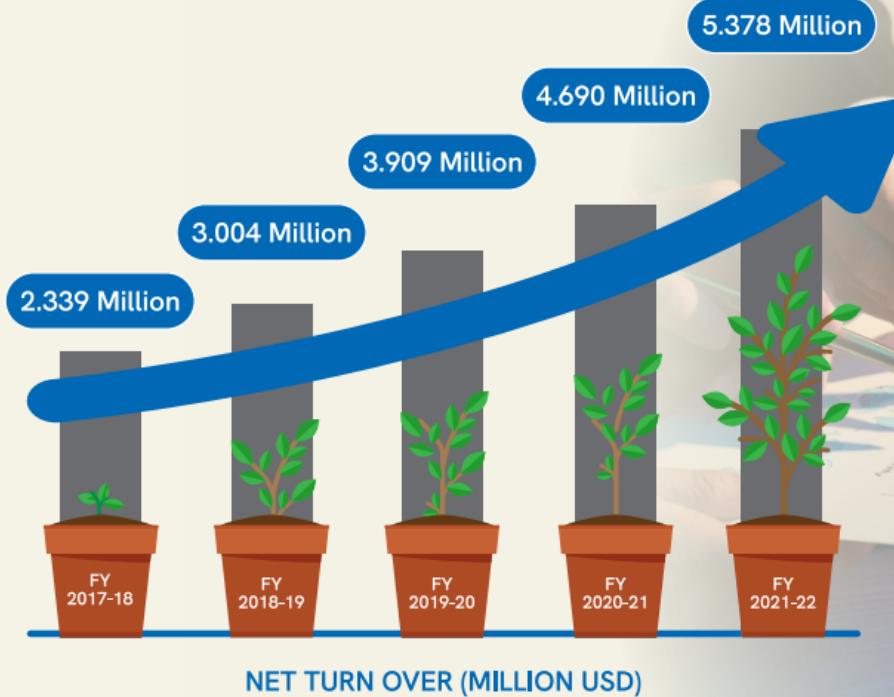
# INDUSTRY WE SERVE



# OUR CERTIFICATION



# 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



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
- ↗ Power Transmission
- ↗ Agriculture Equipment
- ↗ Defense
- ↗ Earthmoving
- ↗ Railway
- ↗ Machine Tools
- ↗ Wing Energy
- ↗ Valve Industry
- ↗ 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** All Types of Electrical, Mechanical & Digital Testing.

**Equipments:** (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:

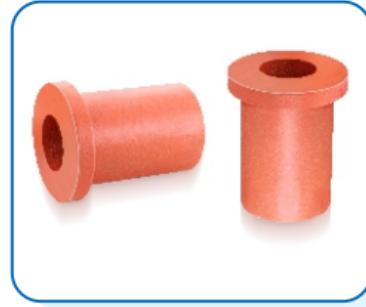
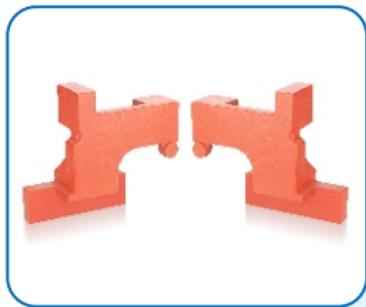
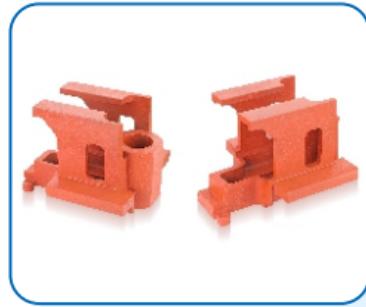
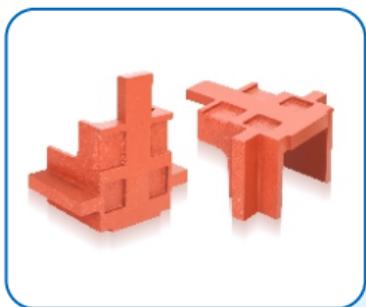
1. Sand Siever for AFS Analysis
2. Permeability Testing
3. UTM Machine for compressive Strength
4. Mold-Core Hardness Tester

## 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

## Agriculture



## Power Transmission



## Automobile



## General Engineering



## 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	
Nickle 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

# 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



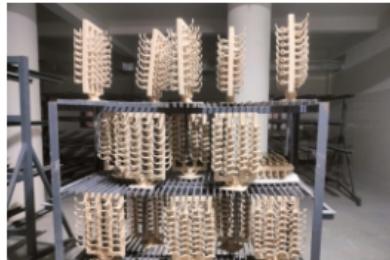
Store & Dispatch



# 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) Penetrant 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(B)	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
CFBMN(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
CN7MBCB-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
5N(6120)	J13052	-	A732
6N(4020)	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(6620)	J12048	8620	A732/A915
14Q(6630)	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	AMSS3552
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	2.4365
A494-M35-2	-
A494-CY40	2.4816
A494-CW12MW	2.4686
A494-CW6M	-
A494-CW2M	2.461
A494-CW6MC	2.4856
A494-CX2MW	2.4602
A494-CU5MUCUC	2.4858
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

# QA/QC FACILITY



## 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**



**LMW MAKE – JH500  
(HMC)**



**Specification**

1. Max. swing diameter Ø2500 mm
2. Max. turning diameter Ø2300 mm
3. Max. turning height 1600 mm
4. Max. work-piece weight 10000 KG
5. Spindle speed 200 rpm

**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](http://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](http://www.ipcpl.co.in)

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