



PILOTCAST

YOUR TRUSTED PARTNER IN PRECISION SHELL CORE CASTINGS

SCALE, CAPACITY & PERFORMANCE

PILOTCAST PVT. LTD. at a Glance

PRODUCTION CAPACITY

300 Tons / Month
SHELL MOULDED CASTINGS

350 Tons / Month
MELTING & POURING CAPACITY

10+ CNC machines
CNC MACHINING CAPACITY

MANUFACTURING INFRASTRUCTURE

34,100 Sq. Mt.
TOTAL PLANT AREA

4,000 Sq. Mt.
BUILT-UP AREA

1500 KWH
POWER CAPACITY

15,200 Sq. Mt.
FUTURE EXPANSION
SPACE

Designed for scalability, workflow efficiency, and export-ready operations

WORKFORCE STRENGTH

190+

TOTAL MANPOWER

30+

STAFF & ENGINEERS

Dedicated teams for Production, Quality, NPD, CNC, QMS, and Support

OPERATIONAL PERFORMANCE (2025)

95%

ON-TIME DELIVERY
PERFORMANCE

93%

PRODUCTION
ACHIEVEMENT

< 2%

CNC MACHINING
REJECTION

FOCUS ON CONSISTENCY



STABLE PROCESSES



LOW REJECTION LEVELS



ON-TIME DELIVERY



REPEATABLE QUALITY

SUSTAINABILITY & RESPONSIBILITY



Solar Power
Installed



Energy-efficient
Operations



Responsible Waste
Handling

www.pilotcast.in

ABOUT PILOTCAST

PILOTCAST PVT. LTD. was founded with a clear purpose to build a reliable, process-driven shell moulded casting company that meets global quality expectations. Established in 2005, Pilot Alloy Cast built a strong foundation in precision casting. Building on this legacy, PILOTCAST was launched in 2022, quickly becoming a trusted manufacturing partner for OEMs and export-oriented industries. We believe that consistent quality is not an outcome, but a habit, built through systems, people, and accountability at every stage of manufacturing.



OUR VALUES

Precision : Every casting is produced with strict metallurgical and dimensional control.

Integrity : Honest communication, ethical operations, and reliable commitments.

Consistency : Repeatable quality, stable processes, and dependable delivery.

Partnership : We grow with our customers by understanding their applications and challenges.

Continuous Improvement : Ongoing upgrades in technology, skills, and systems.

MANUFACTURING PROCESS & CAPABILITIES

PILOTCAST PVT. LTD. follows a well-defined, end-to-end manufacturing process, ensuring quality, traceability, and repeatability at every stage.

CORE MANUFACTURING CAPABILITIES

- Shell moulded ferrous castings
- SGI, MS, SS alloy casting components
- Precision CNC machining (in-house)
- Customized components as per customer drawings
- Batch traceability & process documentation

TECHNOLOGY & CONTROL

- Advanced core shooter & shell moulding machines (20+ Advanced Core Making Machines)
- 10+ CNC machine
- Defined process flow diagrams & control plans

- Multiple induction & annealing furnaces
- Laser marking for part identification
- Each stage is supported by documented procedures and quality checks

MELTING INFRASTRUCTURE

500 kW – Inductotherm Induction Furnace with 300 kg crucible capacity.

375 kW – Inductotherm Dual-Track Induction Furnace with 150 kg crucible capacity.

175 kW – 2 Nos. Inductotherm Induction Furnaces with 150 kg crucible capacity.

QUALITY SYSTEMS & CERTIFICATIONS

At PILOTCAST PVT. LTD. quality is embedded into every stage of manufacturing from incoming raw material to final

CERTIFICATIONS

ISO 9001:2015 – Quality Management System

QUALITY PERFORMANCE (2025)

95%
ON-TIME
DELIVERY

<1.1%
CNC MACHINING
REJECTION

93%
PRODUCTION
ACHIEVEMENT

PRODUCTS & APPLICATIONS

PILOTCAST PVT. LTD. manufactures precision shell moulded casting components designed for performance, durability, and dimensional accuracy

PRODUCT RANGE

- Shell moulded ferrous castings
- Precision machined castings (ready-to-assemble)
- Complex geometry & close-tolerance parts
- SGI, MS & SS alloy casting components
- Customized components as per customer drawings

Each Product Is Developed With Strict Metallurgical Control And Repeatable Manufacturing Processes.

APPLICATION ADVANTAGES



High Dimensional Accuracy

Excellent Surface Finish



Low Rejection Rates

INDUSTRIES SERVED



Pumps & Valves

Components designed for pressure handling, durability, and dimensional accuracy.

Automotive

Precision parts for structural and functional applications with consistent quality.



Industrial Machinery

Castings for heavy-duty and continuous operation environments.

Agriculture Equipment

Robust components engineered for strength and long service life.



Construction & Scaffolding

High-strength castings for load-bearing and safety-critical applications.

Solar & Energy Sector

Components supporting renewable energy and infrastructure applications.



DIRECTOR'S NOTE



FOUNDER

Mr. Ravjibhai Haripara



DIRECTOR

Mr. Vivek R. Haripara
(Operations & Marketing)

At PILOTCAST PVT. LTD. our journey has been guided by one clear belief quality is not inspected, it is built into the process.

From the beginning, our focus has been on creating a process-driven manufacturing system, where metallurgy, discipline, and consistency work together to deliver reliable results. We believe that long-term partnerships are formed not by promises, but by repeatable performance, transparent communication, and delivery commitment.

As we expand our presence in **Domestic And Export Markets**, we continue to invest in technology, people, and systems to meet evolving customer expectations. Every component we manufacture carries our responsibility-to perform consistently, integrate seamlessly into customer applications, and add long-term value.

MANAGEMENT & LEADERSHIP



Mr. Chirag Matholiya

New Product Development



Mr. Mahesh Patel

Plant Head



Mr. Harshul Patel

Production Head



Mr. Vipul Patel

QMS Representative



Mr. Yash Kanetiya

Finance Head

WHY PILOTCAST

PILOTCAST PVT. LTD. is built on process discipline, metallurgical strength, and delivery commitment. We don't position ourselves as just a casting supplier we operate as a long-term manufacturing partner.

COMMITMENT TO PARTNERSHIP

We believe successful manufacturing is built on



CLEAR COMMUNICATION



PROCESS TRANSPARENCY



QUALITY CONSISTENCY



DELIVERY RELIABILITY

Our teams work closely with customers to ensure smooth development, stable production, and long-term value creation.

END-TO-END PROCESS FLOW



CORE MAKING



MOULD ASSEMBLY & SHELL MOULDING



MELTING & POURING



KNOCKOUT, FETTLING & SHOT BLASTING



HEAT TREATMENT & ANNEALING



CNC MACHINING



FINAL INSPECTION & DISPATCH

OUR TESTING & QUALITY ASSURANCE



SAND TESTING



CORE HARDNESS TESTING



SPECTROMETER ANALYSIS



**METALLURGICAL
(MICROSTRUCTURE TESTING)**

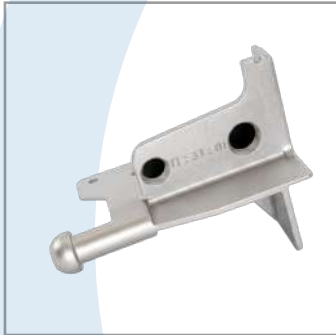
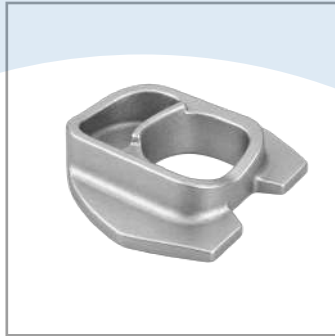
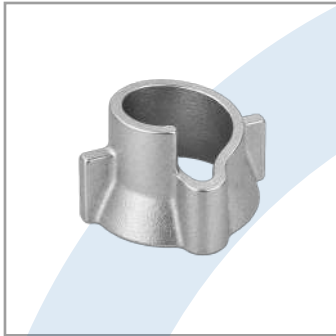


**MECHANICAL TESTING
(HARDNESS & UTM)**



**LASER MARKING &
TRACEABILITY**

PRODUCT GALLERY



CREATING SUCCESS TOGETHER



PILOTCAST



CONTACT US



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www.pilotcast.in



PILOTCAST PVT. LTD.

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