jayshree machines & tools

MOLDS FOR MOLDING FOAMS FROM EPP

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Jayshree Machines & Tools (JMT) was founded on April 12, 1975 by Dattajirao K. Mohite primarily as an engineering company for the development of special purpose machines required in the textile industry.

JMT diversified in the 1980's and started the manufacture of Aluminium Molds for molding Expandable Polystyrene commonly known as thermocole & Expandable Polypropylene, commonly known as EPP. Having mastered the mold making technique JMT started the development of the molding machinery. Within a space of two years JMT successfully commissioned two complete EPS processing plants in the city of Mumbai. JMT has not looked back ever since!

Presently the company is headed by Sunil D. Mohite after successfully taking over the complete operations of the company from its founder Dattajirao K. Mohite in early 2000. After taking over the operations Sunil Mohite has introduced modern mold making techniques by adopting the latest in CNC metal cutting machines & tools.

We hold a strong quality control system where our experienced engineers discuss each project on various levels right from the concept to the final product. Each procedure is executed as per plan and inspected at various stages to achieve accuracy and maintain delivery schedules.

Jayshree Machines & Tools exports its products to the countries in the Middle East, Europe, Canada and Africa.

In early 2007 Jayshree Machines and tools has developed a novel Foundry Technology foamcast - lost foam metal casting process that uses Expandable Polystyrene as patterns. This technology has been successfully implemented in leading metal casting foundries in India.
Important Milestones

1975 – Company Incorporated by Mr. D. K. Mohite on 12th April 1975
1975 – 1985 Engaged in the manufacture of import substitution critical components for the textile and machine tool industry

1987 – First mold for EPS packaging manufactured
1991 – First EPS molding machine manufactured

1992 – First complete EPS Molding Plant commissioned in Mumbai, India
1999 – Entered EPS Molding after commissioning 12 EPS Molding Plants
2000 – Sunil Mohite joined full time. First mold exported to Iran

2002 – Complete EPS White side molding plant for Lost Foam supplied to a leading foundry in India
2004 – Exited from EPS Molding Business to concentrate on indigenous development of Lost Foam Metal Casting technology

2006 – In-house R&D for Lost Foam Metal Casting technology
2007 – foamcast Lost Foam Metal Casting technology launched in India
2010 – Installed complete Lost Foam Metal Casting Plant for a leading Indian pump manufacturer on Turnkey Basis
2014 – Green field foamcast Lost Foam Metal Casting foundry commissioned at Metoda, Gujrat
2015 – foamcast Lost Foam Casting foundry commissioned at a leading investment casting (lost wax) foundry at Junagadh, Gujrat
2016 – In-house foamcast Lost Foam Casting foundry commissioned at a leading process pump manufacturer at Coimbatore, TN

2016 – MOU signed with IIT Bombay for Research Project "Rapid Foamcast" that will be set up on IIT Bombay's Powai Campus
**Capability**

**Shop Floor Working Area**

: 2,000.0 Sq. Ft.

**CAD & CAM:**

1. Dassault – Soliworks : 02 Nos. Seats
2. Autodesk – Fusion 360 : 02 Nos. Seats
3. Autodesk – Powermill 2017 & 2018 : 02 Nos. Seats

**CNC Machining:**

1. VMC 1000mm x 600mm x 600mm : 01 No.
2. VMC 1050mm x 600mm x 600mm : 01 No.

**Conventional Machining:**

1. Milling Machine 1200 mm x 400mm x 400mm : 01 No.
2. Milling Machine 1000 mm x 400mm x 400mm : 01 No.
3. Lathe Ø 300mm : 01 No.
4. Lathe Ø 600mm : 01 No.
5. Drilling Machine Ø 40mm : 01 No.
6. Drilling Machine Ø 32mm : 01 No.
7. Drilling Machine Ø 25mm : 02 Nos.

**Material Handling:**

1. Moving Gantry Crane – Capacity 2.0 Tons : 01 No.
2. Rope Hoist – Capacity 2.0 Tons : 01 No.

**Wooden Pattern Making**

: In-house

**Metal Casting Foundry**

: Outsourced
Standard Operating Procedure

CAD DATA FROM CUSTOMER ➔ PART MOLDING FEASIBILITY ➔ TOOLING FEASIBILITY ➔ PURCHASE ORDER

PURCHASE ORDER ➔ BILL OF MATERIALS ➔ TOOL DESIGN

BILL OF MATERIALS ➔ WOOD PATTERN ➔ ALUMINIUM CASTING

ALUMINIUM CASTING ➔ MACHINING ➔ HARDWARE

MACHINING ➔ FILING & FITTING ➔ VENTING

VENTING ➔ ASSEMBLY ➔ QUALITY CHECK ➔ DESPATCH
We Jayshree Machines & Tools specialize in the manufacture of Expandable Polypropylene (EPP) & Expandable Polystyrene (EPS) Processing Aluminium Molds. Our team of qualified engineers have a rich experience in the EPS & EPP technology field. **Our knowledge of the industry is in excess of 35 years.**

We design EPP component, EPP protective packaging, EPS lost foam pattern & EPS Insulated Concrete Form (ICF) molds as per the customers requirement drawings / samples.

We design molds to best suit the customers molding machines. We have designed molds for German, Japanese & Korean machines like Kurtz, Tuebert, Hirsh, Toyo, Daekong, etc. The molds we make are customized for the customers machine.

For better productivity & tool life we offer Teflon (PTFE) coating for the molds. Our molds are designed with the perfect pitch of jets for even and uniform fusion of beads & quick cooling, we maintain even wall thickness of the aluminium walls & precise layout of ejectors to enable fast & perfect cooling & ejection.

We look forward to your valuable requirement and your sustained interest in our products and services. Our endeavour is to offer you prompt, courteous and reliable services. It shall be our pleasure to attend to all your molding requirements.
Indian Institute of Technology (IIT), Bombay has invested in our foamcast® metal casting technology for the development of critical castings required for the defence sector.

We are partnering with IIT Bombay to set up a foamcast foundry at their Powai campus under the project name "Rapid Foam Casting". For more information please visit www.foamcast.in

An official MOU was signed between JMT and IIT Bombay in the presence of the Hon. President of India Shri Pranab Mukherji at Rashtrapati Bhawan.

The MOU was signed by Prof. Devang V. Khakhar, Director, IIT Bombay and Sunil Mohite, JMT
Solar energy is a sustainable energy and is inherently more sustainable than fossil fuel energy sources. As a way of converting the sun's energy into electrical energy, solar panels make use of the single most sustainable resource on the planet - the light of the sun.

At Jayshree Machines & Tools we have installed a roof top Solar Energy Generation System that puts back the energy generated by this system in the electricity grid of the service provider. Over 80% of the electricity consumed by JMT is generated through this system.
EPP Mold Photo - Bumper
EPP Mold Photo – Tool Tray

SHAPING THE FUTURE OF PARTICLE FOAMS
EPP Mold Photo – Door Pad

SHAPING THE FUTURE OF PARTICLE FOAMS

foamcast®
EPP Mold Photo – Impact Pad
EPP Mold Photo – Packaging Box

SHAPING THE FUTURE OF PARTICLE FOAMS