POLYCAST INDIA

Capabilities Location Services



Bhavnagar Rajkot Ahmadabad

Gujarat is a state in Western India, It has an area of 196,024 km² with a coastline of 1,600 km, most of which lies on the Kathiawar peninsula, and a population in excess of 60 million. The state is bordered by Rajasthan to the north, Maharashtra to the south, Madhya Pradesh to the east, and the Arabian Sea and the Pakistani province of Sindh to the west. Its capital city is Gandhinagar, while its largest city is Ahmedabad. Gujarat is home to the Gujarati-speaking people of India.

Journey start with the tool maker Design **Spark arrowed &** Machining **Finish** Our tool makers are

Our tool makers are pushing the boundaries for advanced tool making

Investment Casting Foundry Bhavnagar



It all about the wax Starting the process with a quality wax is one of the more important stages to producing a perfect finished detail

The care and skill if the assembly team allows a better pore and blemish free castings Tree preparation & build

Wax injection

Coating / Building and drying the shell

Ready to pour

The ceramic shell is built up with layers of slurry combined the fine and course silica sand before drying

High pressure autoclave is used to remove the wax from the shell and it is ready to pour. The shell is fired up to 900 degrees ready for your choice of alloy



Breakout & Cut off

Pouring between 560 deg (aluminium) to 1640 deg c (steel)

The shell is left to cool over night ready the break out can and unveiling your cast tree. Cut off and fettle ready for finishing.

Tumble, Polish & Finishing

The Castings go through a series process including barrel rolling, shot blast and hand fettling to ensure the best finish for the next process.



In-house CNC machine and turning shop.

Precision engineering adds the detail to the net shape and give the final detail to your product.

Electro to Mirror finish and polish



From basic electro polish to a super yacht shine our skilled polishing team can produce a quality polished finish of the highest standards.

Polycast Ltd are famous for our Investment casting capability. But via our growing network and buying power Polycast are able to offer the same quality service for other metal forming solutions.

- Forging
- Sand Casting
- Low and High pressure die casting
- Specialist machining

Sand Casting

Building of the sand mould and placing the feeds by hand

On site patternshop allows quick and easy changes to patterns

The Pour

Sand casting Breakout / Cut off /

Breakout leaving a net shape component with the feeds intact.

Cut back and prepares for machining or polishing.

Forging: Small forg

Polycast offer both large and smaller product forging from you based in Rajkot India

As in other metal forming solution we offer a one stop shop with in-house facilises for post forge machining and finishing.

Hammering using a 50 ton machine the softened metal into shape to produce your net form

Choose you grade of material and order your tooling

A process of heating, hammering and trimming the softened billet or bar.

Forging: Large forge Hammering capabilities from 280T to the new

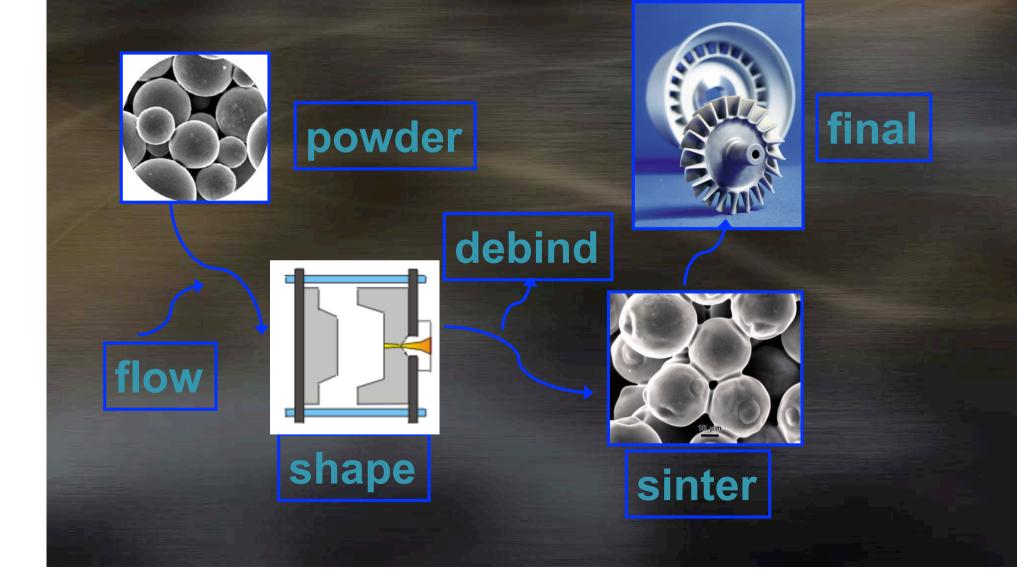
VMC

Hammering capabilities from 2801 to the new 400 Ton this heavily industrial process date back hundreds of year. We offer a one stop shop all under one roof for forged metal

Low and high pressure die cast



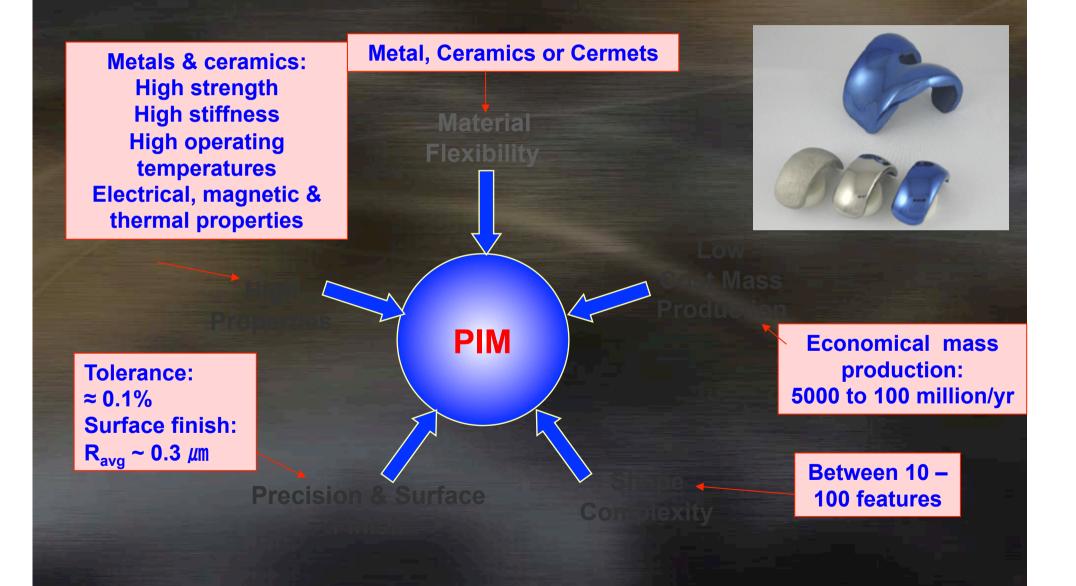
POWDER Injection Molding

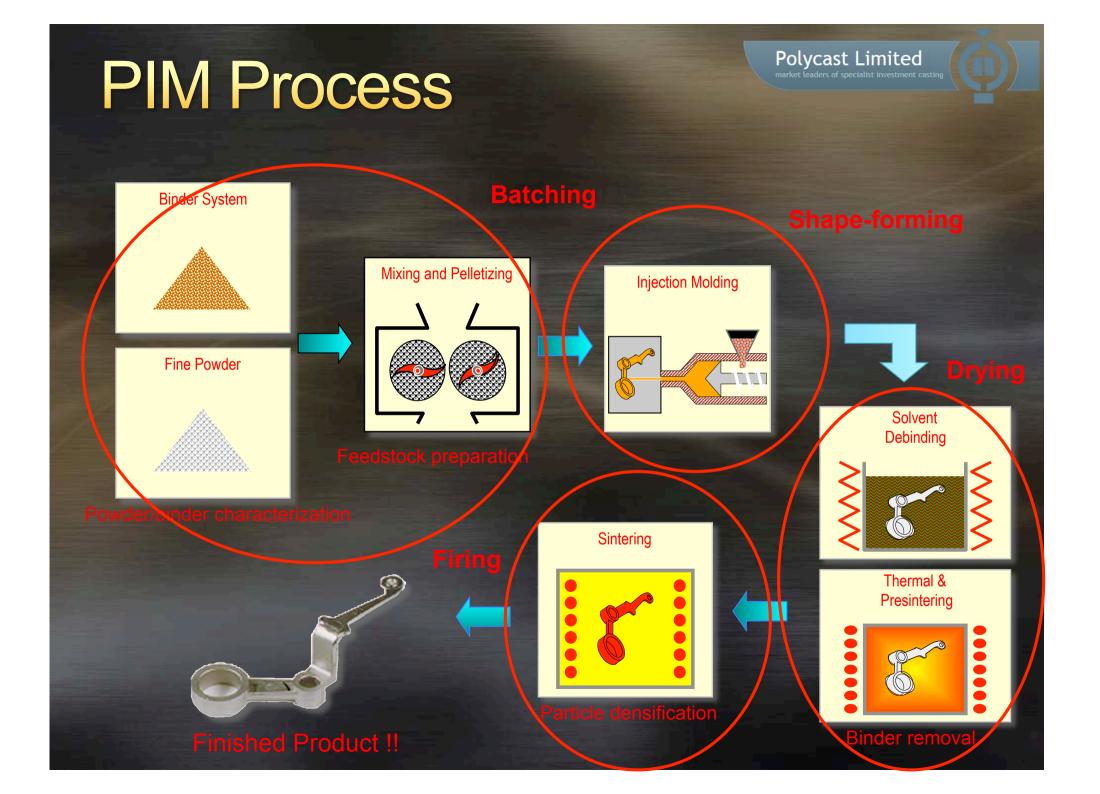


Polycast Limited

Why PIM?







manufacturing quality metal components in India with Polycast Itd.

Call: +44 1489 885560 stephen.cooke@polycast.ltd.

Useful links:

Sand casting:https://en.wikipedia.org/wiki/Sand_castingInvestment castii:https://en.wikipedia.org/wiki/Lost-wax_castingDie Casting:https://en.wikipedia.org/wiki/Die_castingForging:https://en.wikipedia.org/wiki/ForgingCNC Machininghttps://en.wikipedia.org/wiki/Numerical_controlElectropolishinghttps://en.wikipedia.org/wiki/ElectropolishingAnodizinghttps://en.wikipedia.org/wiki/Anodizing