

CASE STUDIES - INDUSTRIAL



METAL INJECTION MOLDING PLANTS

Over 8,90,000 sq. ft. of MIM manufacturing in multiple locations in 2 countries



Manufacturing Plant – 1 Hoskote, Bengaluru





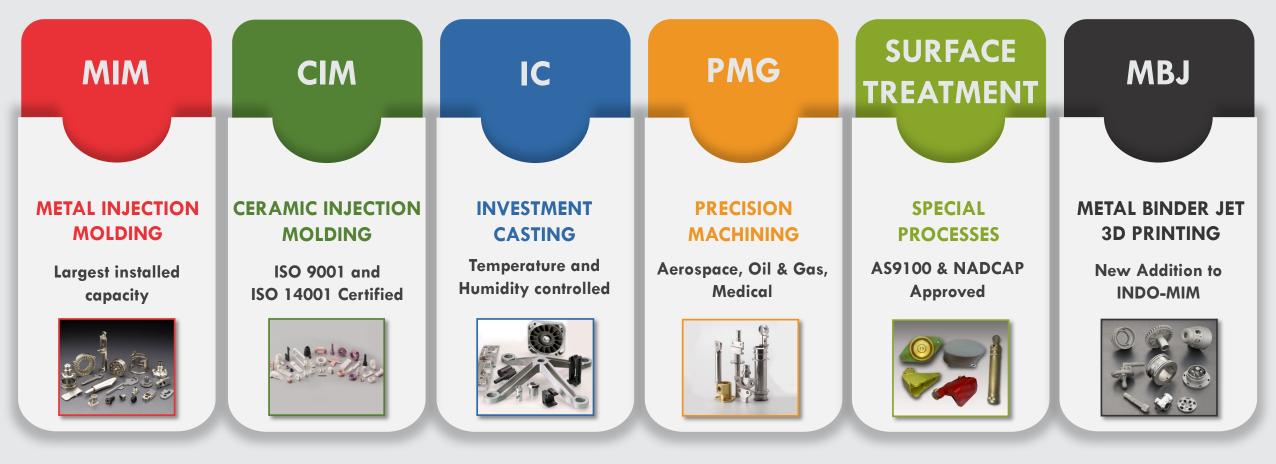
MIM Manufacturing Plant – 3 INDO-MIM Inc., USA

MIM Manufacturing Plant – 2 Doddaballapur, Bengaluru



INTEGRATED VALUE CHAIN

One-Stop Solution Provider





GLOBAL PRESENCE



CERTIFICATIONS





PRODUCT PORTFOLIO









AUTOMOTIVE

Turbochargers, sensors, pumps, seating, door mechanism, nozzle, etc.

CONSUMER

Fashion accessory, Mountaineering, Lock parts, Home appliances, Personal care etc.

DEFENSE

Firearm parts, sights

AERO & MEDICAL

Surgical parts, Staplers, Implants, Brackets



CASE STUDY – DOOR LOCKS

APPLICATION – DOOR LOCKS

• Complete part profile with Pip wall thickness achieved

SOLUTION

• Lesser lead time

• Material :- MIM 17-4PH

PRODUCT DESCRIPTION

- Weight :- 13gm
- Segment :- Consumer
- Annual Required :- 20K

- Pip wall thickness of 0.35mm
- Higher lead time
- Multiple machining operations

CUSTOMER PAIN POINTS



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CASE STUDY – SANITARY APPLICATION

APPLICATION – UPPER STOP RING



- Entire component was produced through MIM with no additional machining operation.
- Three complex parts are fabricated close to net shape and special ceramic setters are employed for enhanced shape retention during sintering.

SOLUTION



PRODUCT DESCRIPTION

- Material :- MIM 316L
- Weight :- 20-40gm
- Segment :- Consumer
- Annual Quantity :- 1000K

- High lead time, low repeatability & difficult to produce component in high volumes.
- Fragile features and thin walls difficult to develop through conventional process.
- Burr folding at sharp corners.

CUSTOMER PAIN POINTS



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CASE STUDY- SENSOR

APPLICATION – PHOTOELECTRIC SENSOR



Complex shaped parts with thin wall section produced through MIM used in Photoelectric Sensors

• All the features were produced through MIM with minor machining resulting in better functioning of the part



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PRODUCT DESCRIPTION

- Material :- MIM 4605 (Hardened & Tempered steel)
- Weight :- 43gm
- Segment :- Consumer
- Annual Requirement :- 36K

Initially parts were produced through machining

- Burr resulting in sensor failure
- More lead time
- More material wastage
- Aesthetic features difficult to achieve due to more operations

CUSTOMER PAIN POINTS



SOLUTION

CASE STUDY – CERAMIC YARN SEPERATOR

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APPLICATION – YARN MAKING MACHINE





- Replacing the aluminum to ceramic.
- Withstand high temperatures.
- Wear and Corrosion resistance.
- Complicated profile achievable in mold tool

PRODUCT DESCRIPTION

- Material :- 96% of Alumina (Ceramic)
- Weight :- 8gm
- Segment :- Consumer
- Annual Requirement :- 500K
- Wearing of aluminum notch due to high speed yarn spinning method.
- Complicated profile at the functional area.

CUSTOMER PAIN POINTS



SOLUTION

CASE STUDY – SEWING MACHINE

APPLICATION – SEWING MACHINE



Complex shaped parts produced through MIM used in Sewing Machine

• Complex shape achieved through MIM with lesser lead time

SOLUTION



PRODUCT DESCRIPTION

- Material :- MIM 4605
- Weight :- 14gm
- Segment :- Consumer
- Annual Requirement :- 50K

- Complex profile makes it difficult to produce the parts through machining and also results in more material wastage
- Difficult to hold the part while machining due to part complexity

CUSTOMER PAIN POINTS



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MORE THAN 3000 HEARTS - ONE TARGET

M 100/350

Creating Value :

In-depth technical competence

International presence

Application and Industry Expertise

Long-term Relationships

THANKYOU

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