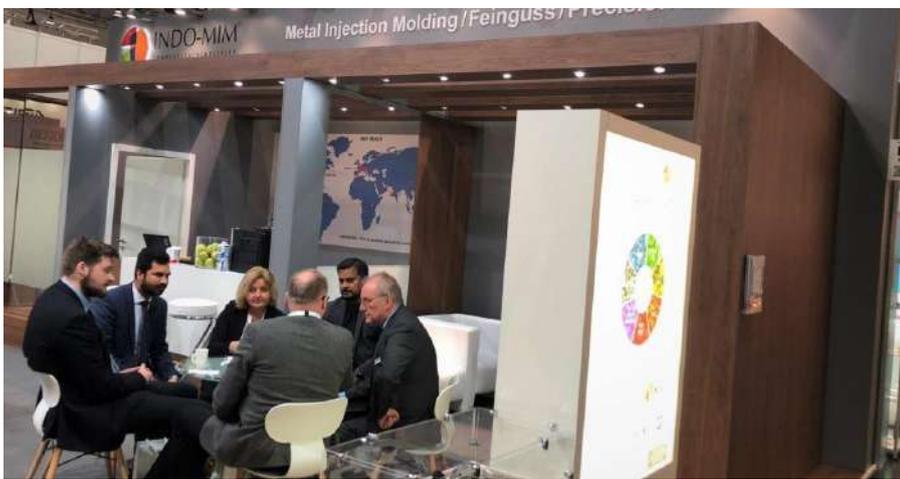




Indo-MIM Bulletin

FY20 - Second Edition

Hannover Messe - Germany



Hannover Messe, the largest industrial trade fair was held from 01st April 2019 – 05th April 2019. Indo-MIM participated in this year's Industrial supply edition at Hall 3 Stand K54, displaying its product portfolio in Metal Injection Molding, Investment Casting, and Precision Machining technology. The trade fair was successful with prospective customers expressing their interests in Metal Injection Molding (MIM), and Investment Casting technology.

International Engineering Fair – Slovakia



For the first time, Indo-MIM participated in International Engineering Fair held between 21st - 24th May 2019 at the International Exhibition Center-Agrokomplex in Nitra, Slovakia. More than 300 exhibitors from Slovakia and foreign countries presented their latest machinery, equipment, and technology in this largest fair.

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Guests' Column

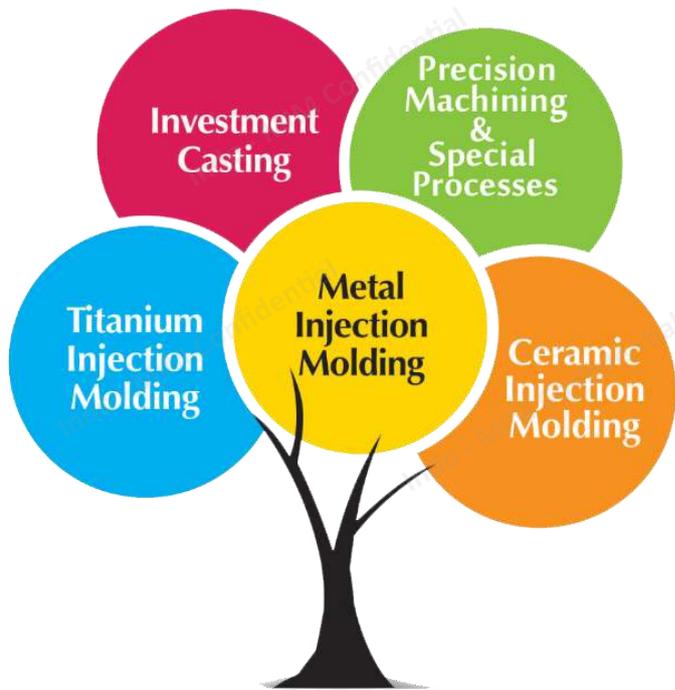
Hello Indo -MIM Team,

Overall my feedback is very positive. You have great quality systems, good teamwork & good delivery ratings from the customers. Initially, I thought it was a small foundry but after visiting I came to know you are a really big company & sister concern of the world's largest MIM company Indo-MIM. I will recommend your company to higher management to start discussing new projects.

Thanks once again for the hospitality.

Thanks & regards,
Sunil MALI
France

Five Specialized Manufacturing Solutions One Source: Indo - MIM



We are a leading global supplier of precision-engineered products using Metal Injection Molding (MIM) as the core manufacturing technology. In addition, Indo-MIM has capabilities for Titanium Injection Molding, Precision Investment casting, Precision Machining, and Ceramic Injection Molding. Indo-MIM has achieved a leadership position in the field of MIM, Providing precision-engineered products to customers in more than forty countries in the Americas, Europe, and Asia.

The state-of-the-art facilities are fully integrated to provide the customers with an one-stop resource for conceptualizing, designing and manufacturing complex precision components and sub-assemblies. Extra-ordinary capability to offer the best of world-class technology at competitive prices provides a significant advantage to the customers all over the world.

Blue Planet - Energy Efficient Company

We are very happy to announce that our company is certified as **“Blue-Planet Energy Efficient Company”** by DQS Global Conformance GC-Mark Blue Planet Certification, Germany.

An independent assessment was carried out by qualified DQS auditors, confirms that our company has taken appropriate measures to reduce its energy consumption. The Assessment has proposed several measures to increase efficiency at all stages of the energy chain: generation, transformation, distribution, and final consumption. Indo-MIM has successfully implemented an energy management system to increase efficiency, develop targets and objectives related to energy use and measures the results with a focus on continual improvement.



Metal Injection Molding in the Aerospace Industry

“Now MIM is identified as a cost-saving process for the aerospace industry”

The technology found a number of applications in the aerospace sector, including high-performance engine components, seatbelt parts, latches and fittings, spray nozzles and vane adjustment levers, to name just a few.

Primary MIM materials for aerospace applications include stainless steel (316L, 410, 420, 17-4 PH, 13-8 PH), superalloys (Hastelloy X, Inconel 625, 713C and 718, Nimonic 90, and Udimet 700) and variants.

Titanium alloys TiAl and Ti-6Al-4V are also used and MIM’s ability to produce complex, high volume, high-performance titanium components offers attractive possibilities to reduce aircraft weight.



Innovation at Indo-MIM

MPIF Award Winner - 2019



<u>Segment</u>	<u>Component name</u>
Medical	Camera mount

Customer Pain Points

Complex in geometry (Y-section), two separate pieces that were subsequently welded.

High lead time and low repeatability, weld burr folding at sharp corners and welding joints are prone to fracture.

Indo-MIM Solution

Designed and molded for a MIM-17-4 PH main part used in a digital surgical camera. Previously, the part was made as two separate pieces that were subsequently welded. To meet the complex geometry in molding, Indo-MIM developed a slide mechanism robust enough to form the y-section with ease and with precise matching to avoid flash.

MPIF Award Winner - 2019



<u>Segment</u>	<u>Component name</u>
Sports	Hand bindings

Customer Pain Points

Difficult to be developed through the conventional process, Difficult to meet the dimensional tolerances through Casting and required many secondary operations, The requirement of high load-bearing material

High lead time, machining cost, and low repeatability.

Indo-MIM Solution

The entire component was produced through MIM technology with no additional machining operation. The parts are made close to net shape from MIM-4605 material that is zinc-blue passivated for corrosion resistance.

This part is made for right- and left-hand bindings in ski shoes.

Mold design and tooling



A core competency of Indo-MIM is our ability to design and manufacture our tooling in house. We believe that this is a critical asset to deliver high quality, high precision MIM products in an efficient and low-cost manner. Our tooling capabilities are supported by a highly trained design and engineering team that can produce molds for up to fifty new products per month.

Tooling Capabilities:

- Precision high-speed CNC milling machines for cutting copper and graphite EDM electrodes
- Hard milling capability of mold inserts for less construction time
- A host of modern wire and sinker type EDM's capable of extreme accuracy
- Tool offset pre-measuring system
- Scanning head CMM for inspection of mold cavities and electrodes
- Precision grinding in a temperature controlled environment



"Indo-MIM won 5 Grand Prize Awards and 1 Award of Distinction this year at MPIF-2019 Conference held at Phoenix, Arizona, US"



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Give us a call for more information about our services and products.

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News From India



Folk and Tribal dance of India

“Chandrayaan-2: India's Orbiter-Lander-Rover Mission”



The Indian Space Research Organisation successfully launched Chandrayaan 2 on 22 July from a launchpad in Sriharikota, and the American space agency NASA tweeted their ongratulations and good wishes for the mission. This is the second moon mission undertaken by India and the first time any country will attempt to land this close to the South Pole of the Moon. The mission has included an orbiter, rover Pragyan and Vikram lander to the Moon.

Source: firstpost.com

“Hima Das: The Indian Sprinter Who Won 5 Gold Medals In 19 days”

The 19-year old Ace Indian sprinter Hima Das, who won five gold medals within 19 days in July. She extended her sensational run by claiming her fifth gold of the month as she returned to her pet 400m competition with a season-best time of 52.09s to clinch gold at Nove Mesto, Czech Republic.



In her first competitive 200m race, she clocked 23.65 seconds on her way to gold at the Poznan Athletics Grand Prix in Poland July 2.

She won her second 200m gold at the Kutno Athletics Meet, also in Poland, on July 7 with a time of 23.97 seconds.

On July 13, she won her third 200m gold at the Kladno Athletics Meet in Czech Republic with a time of 23.43 while her fourth gold came at the Tabor Athletics Meet in the same country on Wednesday.

Source: indiatimes.com

