

Complexity Simplified

Have you ever wondered whether you have used an Indo-MIM part? If you are a frequent flyer, then there is a high probability that you have used it. In this issue, we introduce a component which is critical for an aircraft.

Manufacturing Challenge

Earlier, the component was made through machining. The customer was looking for an alternate method of manufacturing since, machining was not ideal for high volume production. The customer also wanted to reduce costs. Another major problem was that during internal threading, the pip of the Female Polarizer was bending.

This component is ideal for MIM because of its complex shape with fine threads & fragile features. After MIM process, no further machining was required.

Engineering Challenge

Most MIM companies would make the internal threads through secondary machining processes. Indo-MIM was able to achieve the internal threads in the tool itself using a new technology. This saved valuable machining time and labor costs. Indo-MIM plans to use this technology in all future projects after its success in this project.

The Female Polarizer earlier consisted of 2 separate parts. Indo-MIM combined the two parts into one single part in order to reduce assembly costs.



Male Fool Proof Device & Female Polarizer



Newsletter Spotlight

These two parts won the "MPIF Award of Distinction" in the "Electrical Components" category

Indo-MIM created cost savings of 15% over the previous manufacturing method

Indo-MIM delivers three hundred & twenty thousand pieces (each) annually to the customer

Indo-MIM developed a four cavity complex tool with auto unwinding of threads using new technology

Indo-MIM Receiving MPIF Award For The Component



MPIF President Richard Pfingstler presented the award to Indo-MIM Vice President Timir Chatterjee & Dr. Jagadamba Chandrashekhar at San Diego, California

Indo-MIM Advantages

Indo-MIM reduced the manufacturing cost of the component by 15% over the previous method. No industrial pollutants were released during the manufacturing process. Indo-MIM's specialty lies in manufacturing highly complex parts. Mechanical properties of parts produced through MIM is superior to castings & powder metallurgy (reflecting fine particle size & high sintered density). Parts made through MIM are near net shape.

Wide range of alloys available:

- * Case Hardened Steels
- * Hardened & Tempered Steels
- * Stainless Steels
- * Tool Steels
- * Magnetic Materials
- * Tungsten Heavy Alloys
- * Titanium & Titanium Alloys

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