INDO-MIM®

COMPLEXITY SIMPLIFIED

CASE STUDIES

CASE STUDY – CONNECTORS

APPLICATION – ELECTRIC CONNECTOR ASSEMBLY

Male Fool-Proof Device and Female Polarizer

PRODUCT DESCRIPTION

- Material :- MIM 4340 (Low-Alloy Steel)
- Weight :- 7 grams
- Segment :- Consumer
- Annual Requirement :- 150K

SOLUTION

- Cost benefit of 15% after migrating to MIM.
- Both parts are fabricated to net shape
- All dimensions achieved in the As-MIM condition; this includes the threads, which are formed through auto unwinding in the tooling

CUSTOMER PAIN POINTS

- Components were earlier manufactured through Machining process
- Half end rib section & repeatability
- High machining Cost
- Difficult to produce components in high volumes

CASE STUDY – GEAR 3D PRINTERS

APPLICATION – 3D PRINTERS

PRODUCT DESCRIPTION

- Material :- MIM 17-4PH
- Weight :- 7gm
- Segment :- Consumer

SOLUTION

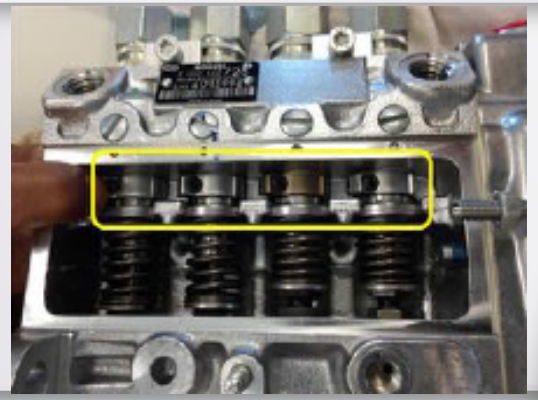
- Spur Gear of 0.1mm taper achieved with ease
- High volumes achieved through multi cavity tools

CUSTOMER PAIN POINTS

- Tapered gear Profile
- High volumes

CASE STUDY – FUEL PUMP ACTUATION

APPLICATION – FUEL ACTUATION



PRODUCT DESCRIPTION

- Material :- MIM 4605 (Medium Carbon Steel)
- Weight :- 9gm
- Segment :- Automotive
- Annual Requirement :- 3600K

SOLUTION

- Entire profile manufactured through MIM.
- Large batch production with auto rewinding mechanism for thread in tool.

CUSTOMER PAIN POINTS

- 6 separate machining operations for every part.
- Problem faced in repeatability and burr formation.
- High machining cost.

CASE STUDY – HYDRAULIC PROPORTION VALVES

APPLICATION – HYDRAULIC PROPORTION VALVES

PRODUCT DESCRIPTION

- Material :- SS 17-4PH and MIM 4605 (medium carbon steel) with heat treatment
- Weight :- 26gm to 32gm
- Segment :- Automotive
- Annual Requirement :- 360K

SOLUTION

- Integrated parts without joining operations
- Compact parts with reduction in weight

CUSTOMER PAIN POINTS

- Multiple manufacturing operations
- Joining operations for assembly

MORE THAN 3000 HEARTS – ONE BEAT

Creating Value :

- In-depth technical competence
- International presence
- Application and Industry Expertise
- Long-term Relationships

THANK YOU

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