



INDO-MIM®
COMPLEXITY SIMPLIFIED



DIVERSE TECHNOLOGIES

- Metal Injection Molding
- Ceramic Injection Molding
- Investment Casting
- Precision Machining
- Additive Manufacturing
- Powder Manufacturing



DIVERSE MARKETS

Defense



Automotive



Medical + Aerospace



Industrial + Consumer

KEY FIGURES

Largest Installed MIM Capacity

- Over 1.17 Mn Sq feet of manufacturing facility
- 250+ molding machines 40 + sintering furnaces
- 6000 plus parts developed
- 75 mold a month tool room capacity

Global footprint

- 6 manufacturing plants located in India, UK & USA
- 4000 + employees
- Technical & sales support offices in Europe, USA & China



85+ Material Options

- Steels, stainless steels, Tool steel, Nickel alloys, Cobalt alloys, Titanium & others
- Zirconia and Alumina oxide ceramic grades

200+ Million parts Shipped Annually

- 96% exports from India plants
- Shipped to 5 continents

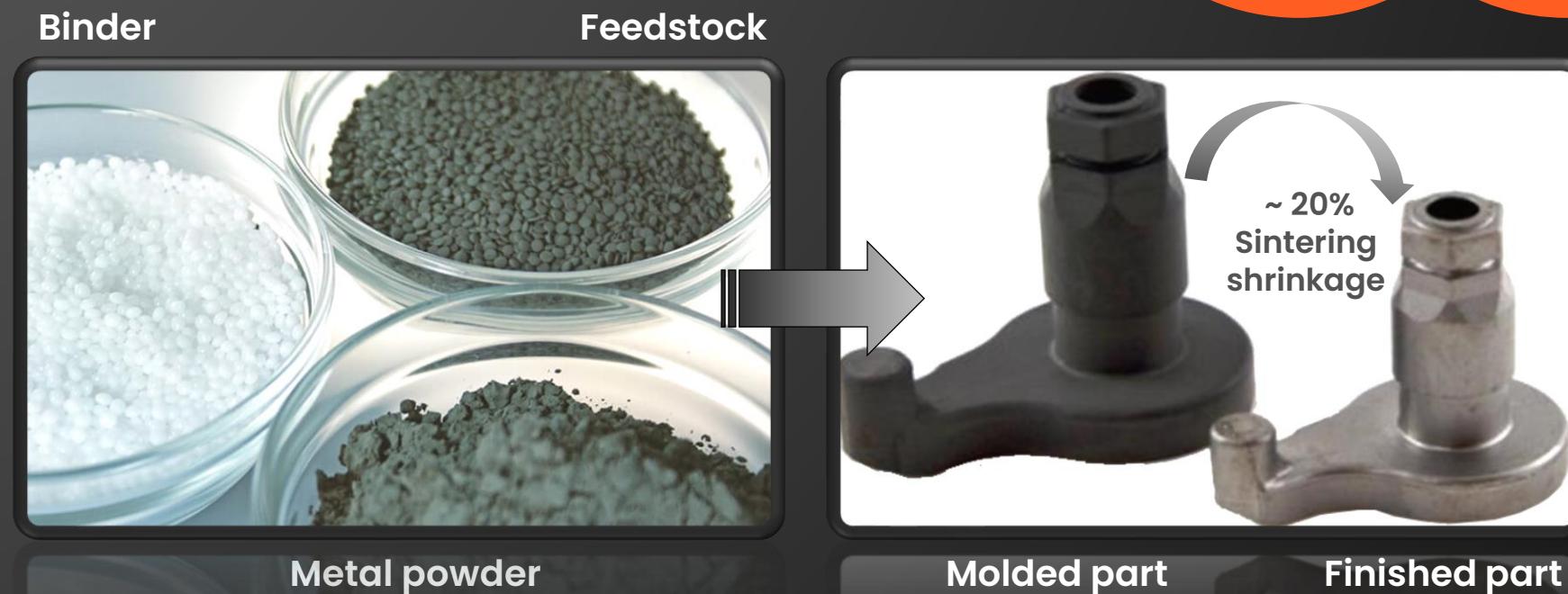
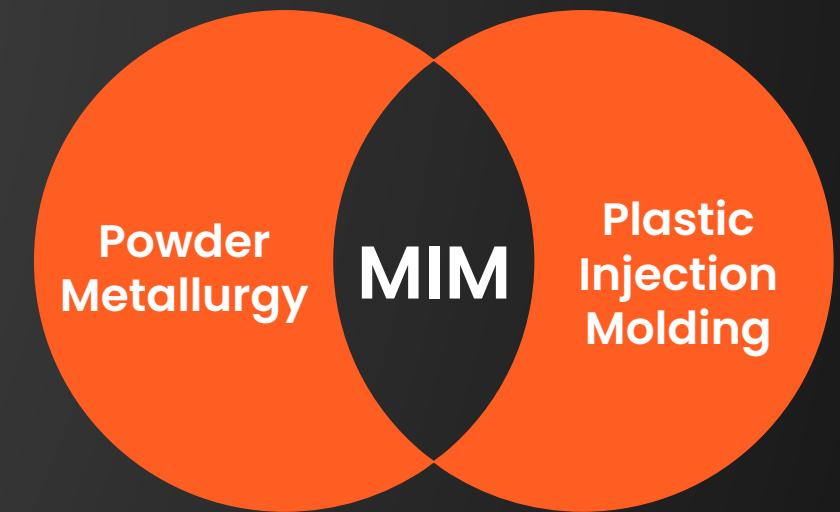
GLOBAL PRESENCE



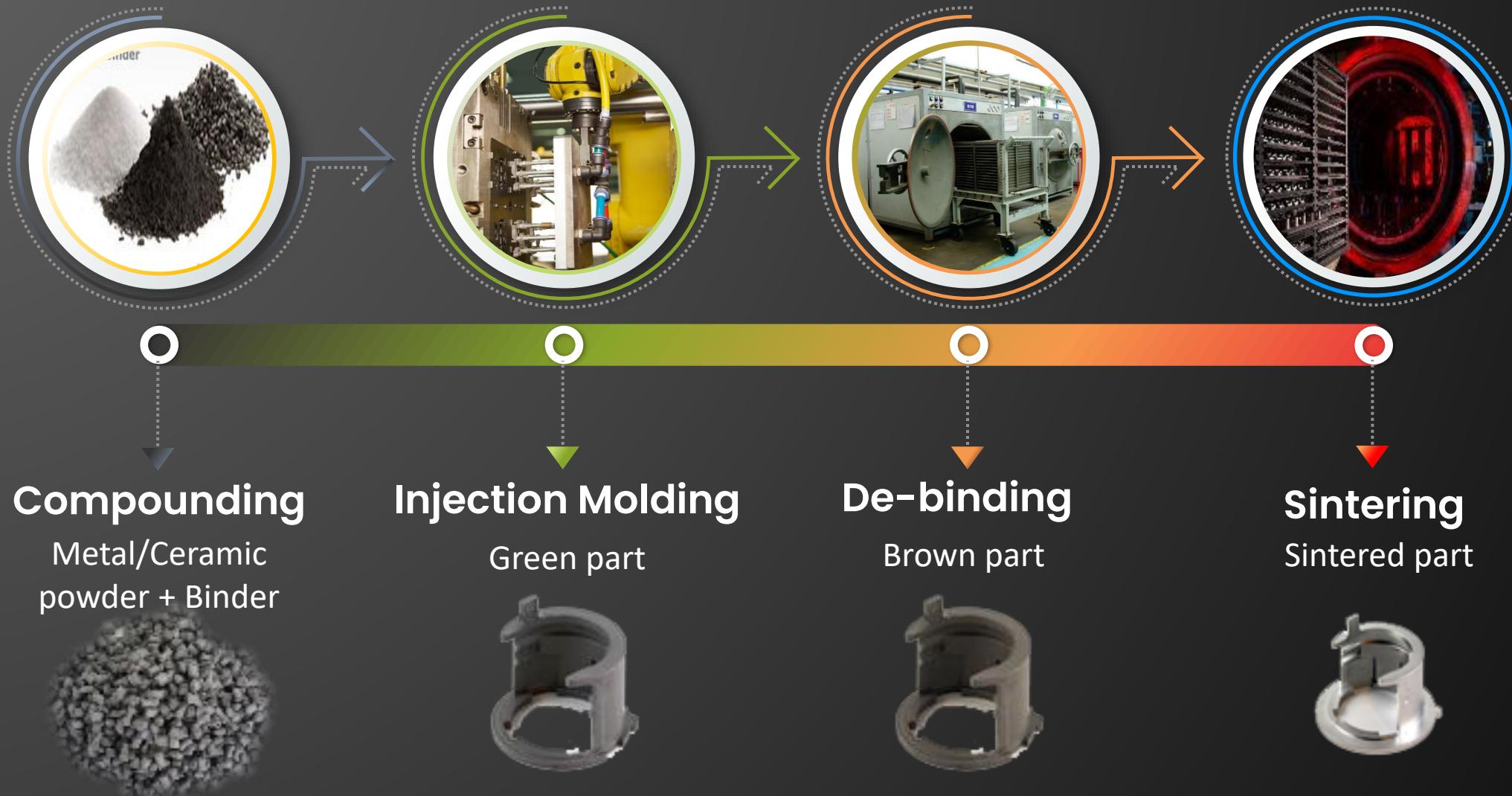
GENERAL / EXTERNAL

METAL INJECTION MOLDING

Metal Injection Molding is a process that combines Powder Metallurgy and Plastic Injection Molding

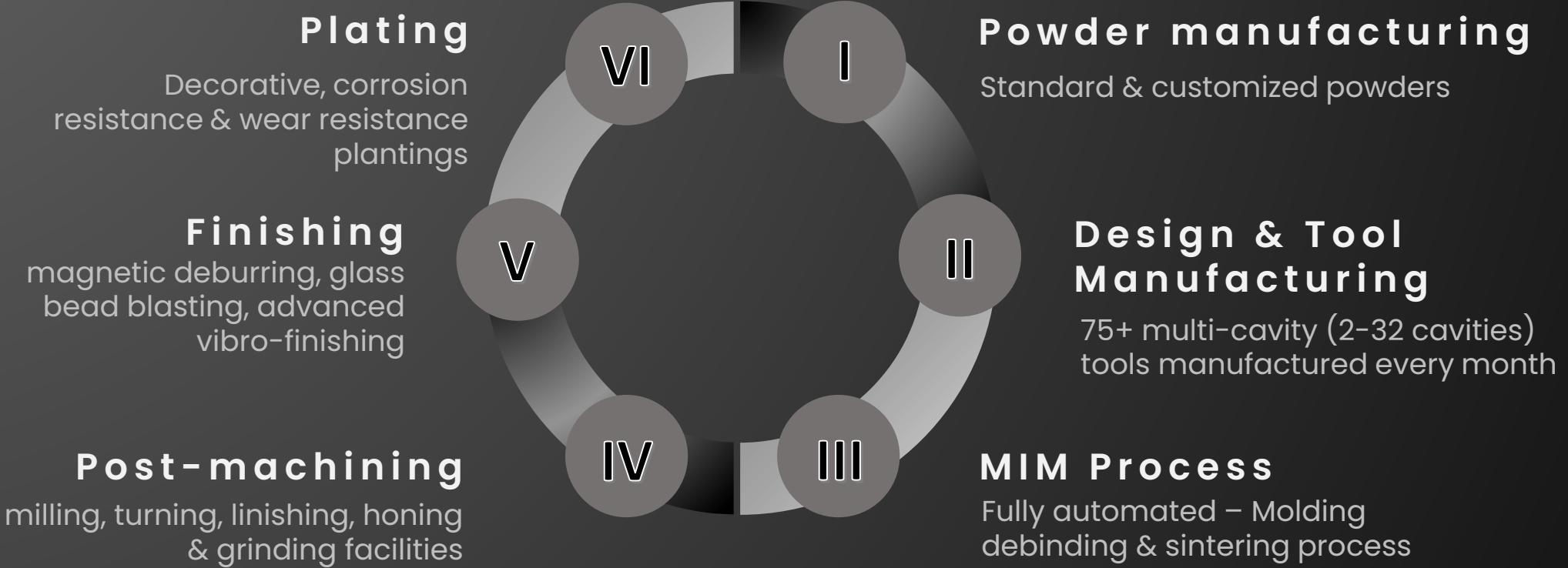


MIM/CIM PROCESS

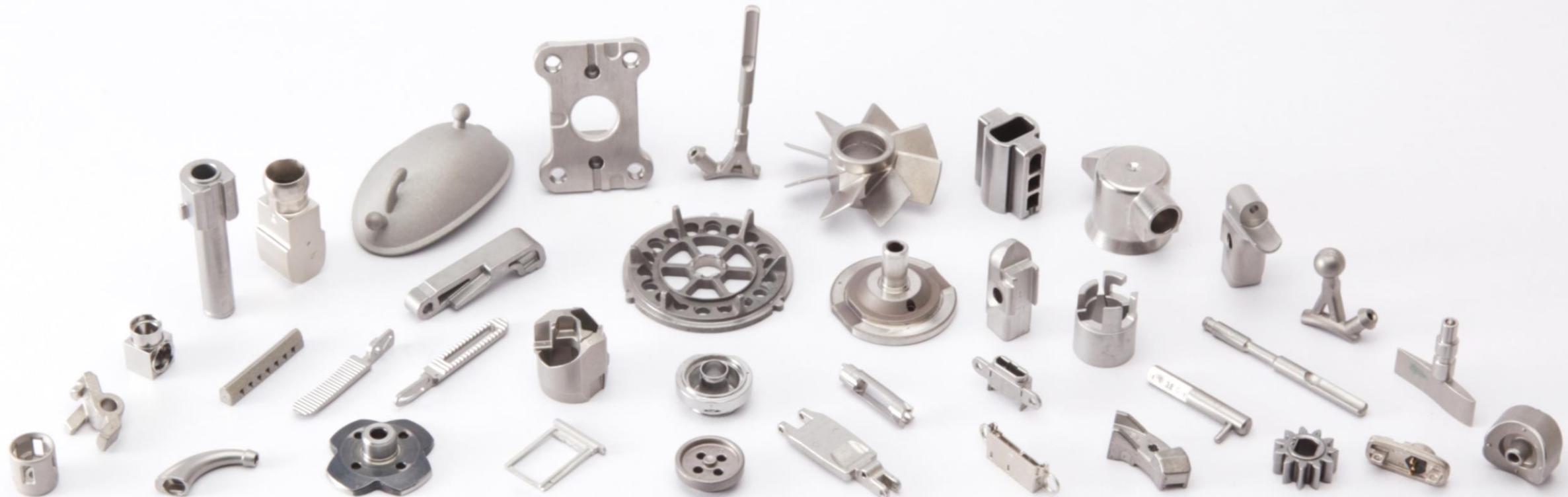


GENERAL / EXTERNAL

INTEGRATED MIM FACILITY



MIM PARTS PORTFOLIO



GENERAL / EXTERNAL

INVESTMENT CASTING FACILITY

AIR GRAVITY
CASTING



ROBOTIC SHELL
ROOM



WAX
ROOM



GENERAL / EXTERNAL

VPIC – EQ
CASTING



REVERSE
GRAVITY
CASTING



FINISH
MACHINING



IC PARTS PORTFOLIO



GENERAL / EXTERNAL



PRECISION MACHINING

Category	Machine	Type	Quantity	Control System	Axis Details
VERTICAL MILLING	Dahlih 1020 MCV	VMC	2X	Fanuc	4 axis
	Dahlih 720 MCV	VMC	1X	Fanuc	3 axis
	Dahlih 510 MCV	VMC	1X	Fanuc	3 axis
	DMC 1035 V ecoline	VMC	2X	Siemens	4 axis
	DMC 635 V ecoline	VMC	2X	Heidenhain TNC 620	3 axis
	Okuma	VMC	2X	OSP-P300	4 axis
	Doosan	VMC	2X	Fanuc	4 axis
	DMU 50	VMC	1X	Siemens	5 axis
	DMU 75	VMC	1X	Siemens	5 axis
	Makino Slim 3	VMC	4X	Fanuc	4 axis
TURN MILL	DMG CTX Alpha 300	Turn mill	1X	Siemens	4 axis
	DMG CLX	Turn mill	1X	Siemens	4 axis
	Hyundai L250Y	Turn mill	2X	Fanuc	4 axis
SWISS MACHINES	Citizen Cincom 16 VI	Turn mill	1X	Fanuc	6 axis
	Schaublin	Turn mill	1X	Fanuc	7 axis
	Schaublin	Turn mill	2X	Fanuc	3 axis
	Mylas	Turn mill	2X	Mitsubishi	3 axis
	Nexturn	Turn mill	3X	Fanuc	9 axis
TURNING	Takisawa	Turning	2X	Fanuc	2 axis
	Takisawa	Turning	4X	Fanuc	2 axis
	HAAS ST 10	Turning	4X	HAAS	2 axis
	HAAS ST 20	Turning	2X	HAAS	2 axis
	LMW	Turning	2X	Fanuc	2 axis
	LMW	Turning	1X	Fanuc	2 axis
	Mylas	Turning	1X	Mitsubishi	2 axis
HORIZONTAL MILLING	DMC 55 H Duo Block	HMC	1X	Siemens	4 axis
	HAAS EC-300	HMC	1X	HAAS	4 axis
MILL TURN	Okuma	Mill turn	4X	OSP-P300	5 axis
OTHER	Okomoto	Surface Grinding	1X	Fanuc	N/A
	Bhagwansons	Centerless Grinding	1X	N/A	N/A
	Raw Material Cutting	Cutting m/c	2X	N/A	N/A
GENERAL / EXTERNAL					



AEROSPACE SOLUTIONS GROUP



GENERAL / EXTERNAL

CERTIFICATIONS

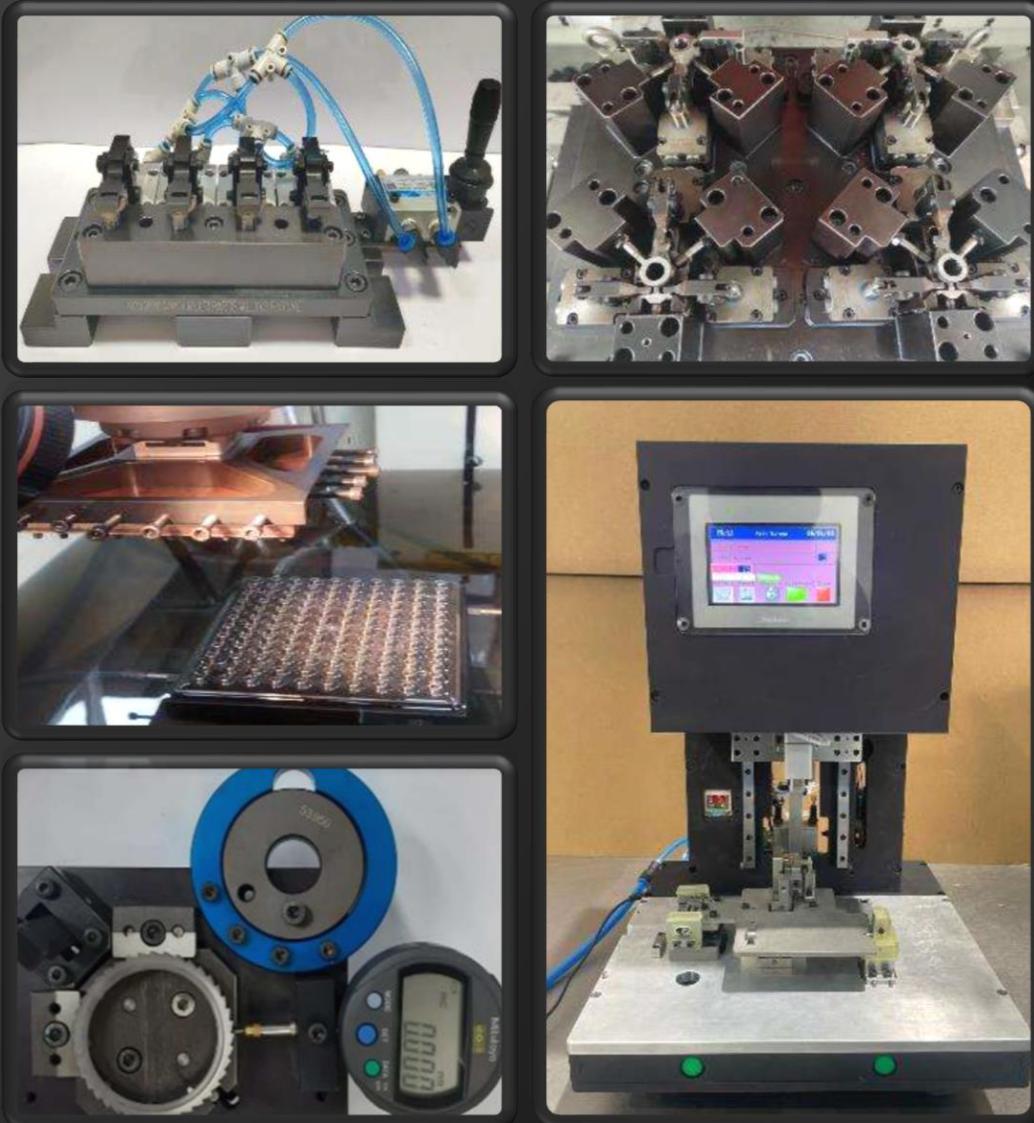
The certificates are as follows:

- AS 9100:2016 AEROSPACE**: Orange border, red footer.
- IATF 16949:2016 AUTOMOBILE**: Blue border, blue footer.
- ISO 13485:2016 MEDICAL**: Green border, green footer.
- ISO 14001:2015 ENVIRONMENT**: Grey border, grey footer.
- ISO 9001:2016 QMS**: Orange border, orange footer.
- ISO CLASS 8 CLEAN ROOM**: Blue border, blue footer.
- OHSAS 18001:2007 HEALTH & SAFETY**: Green border, green footer.
- GC-MARK® ENERGY EFFICIENT**: Grey border, grey footer.

JIGS, FIXTURES & GAUGES

JIGS & FIXTURES

- **Machining Applications:**
Milling, Turning, Grinding, Tapping, Reaming, Honing, Lapping, etc.
- **Non-Machining Applications:**
Testing, Sorting, Handling, Assembly, Cooling Fixtures, etc.



GUAGES

- **Dimensional Gauges**
- **Functional Gauges**
- **Feature Gauges (Concentricity, Flatness, Parallelism, etc.)**

ADDITIVE MANUFACTURING

- Highly complex geometry feasible, provides 360-deg design freedom
- No upfront tooling, samples within days
- Reduced Material Wastage
- Small to medium volume production capability (50~50,000 parts/year)
- **BINDER-JET 3D PRINTING**
- **LASER POWDER BED FUSION**
- **Materials supported:**
 - Stainless Steel
 - Cobalt Alloys
 - Nickel Alloys
 - Tool Steel



POWDER MANUFACTURING

- World-class Vacuum-Melting Inert gas metal powder production facility

- Applications as primary manufacturing material:

- Additive Manufacturing
- Thermal Spray
- MIM / HIP

- Powder Grades:

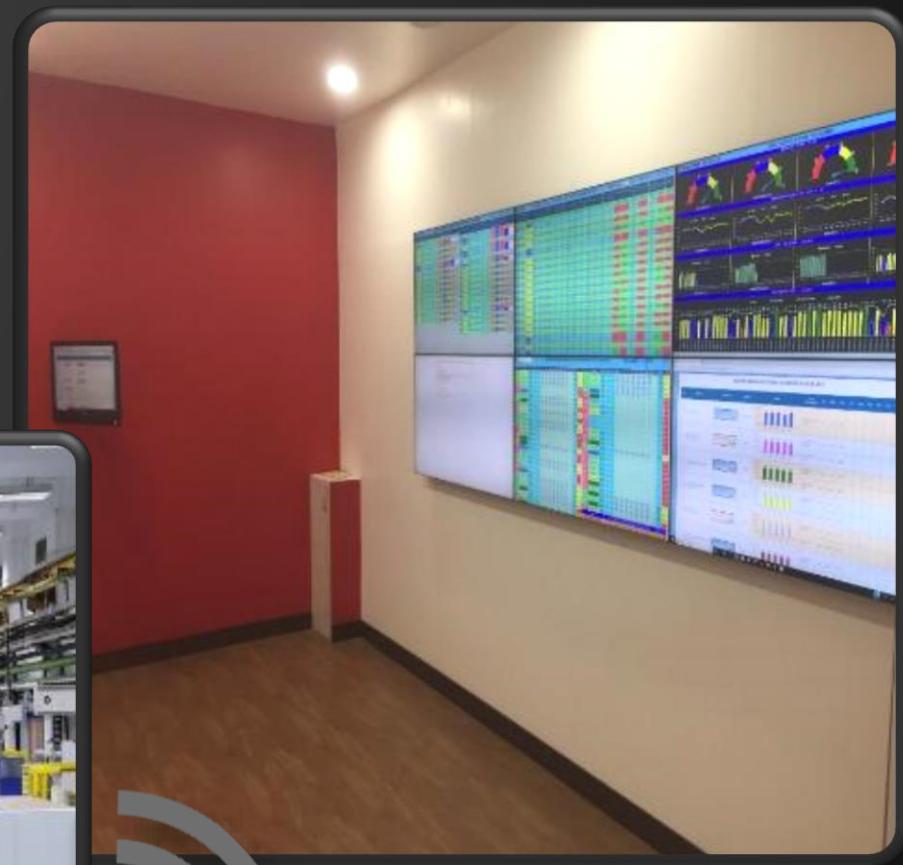
- Stainless steel
- Cobalt alloys
- Nickel alloys
- Tool steel
- CoCr alloys
- Other customized powders



SMART MANUFACTURING

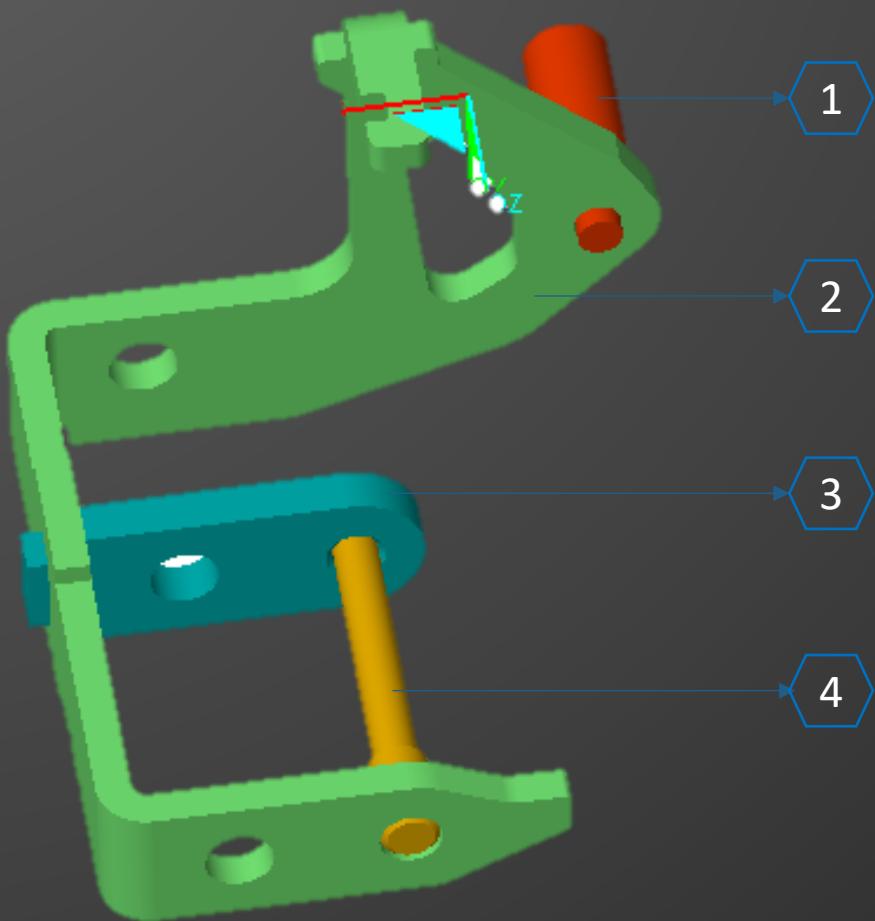


INDUSTRY 4.0

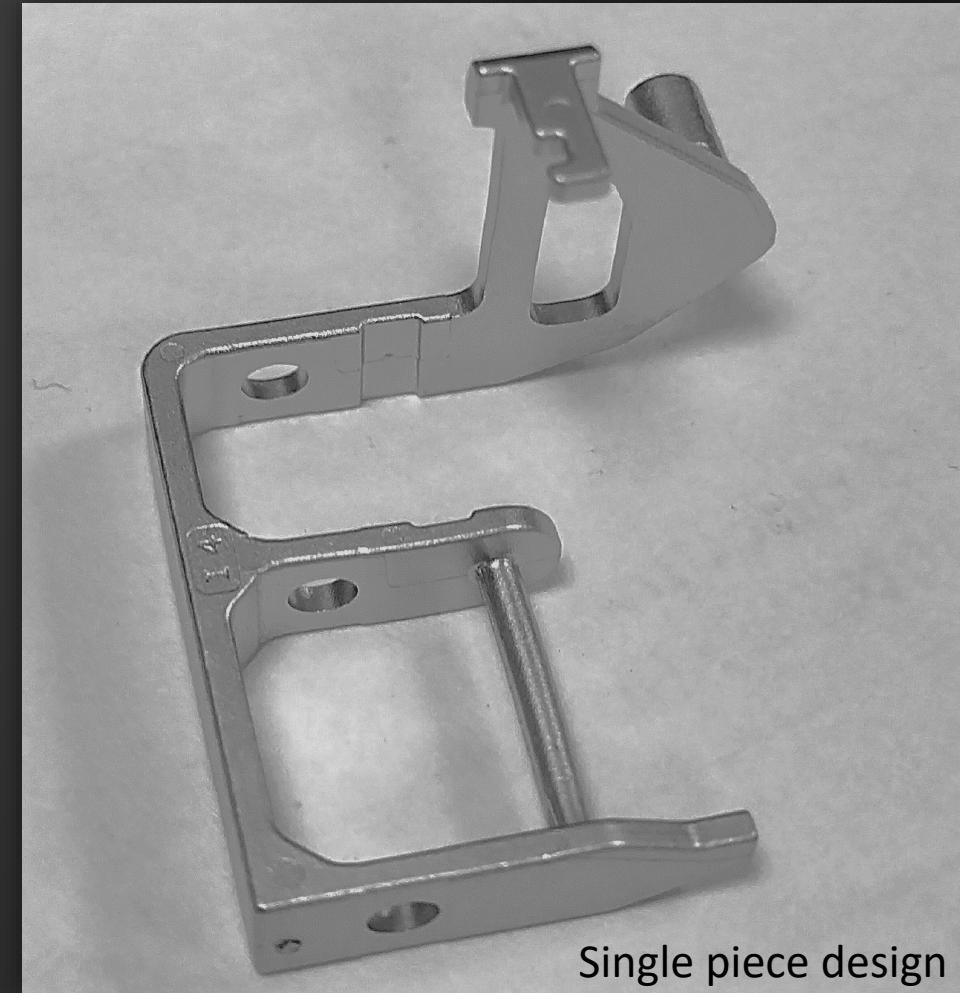


INTEGRATION EXAMPLE

Customer Design

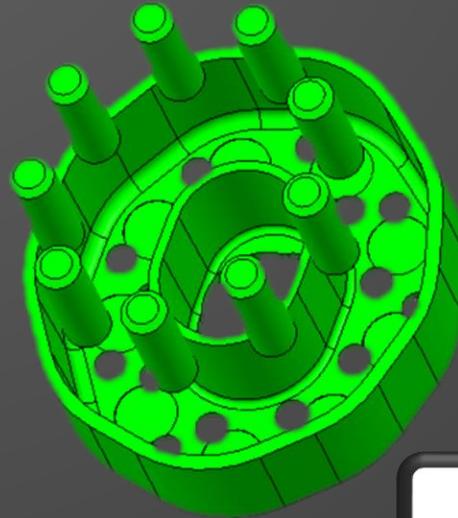


INDO-MIM Design

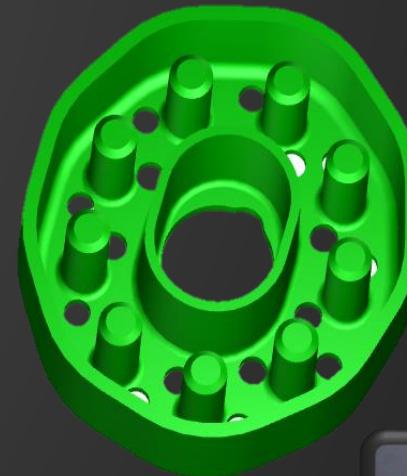


INTEGRATION EXAMPLE

Customer Design



INDO-MIM Design



Single piece design

GLOBAL RECOGNITION

45+ MPIF awards

- Distinction Awards
- Design Excellence Awards
- Grand Prizes



GOI Awards



KEY CUSTOMERS

Honeywell



**BorgWarner
Turbo Systems**



AUTOCRUISE®



MAHLE
Driven by performance



BOSCH
Invented for life



TRW
Automotive



CooperStandard



DELPHI
Automotive Systems

HVCC
Halla Visteon Climate Control Corp.

Sensata
Technologies

World Depends on Sensors and Controls

brose
Technik für Automobile

STANADYNE
Diesel Systems

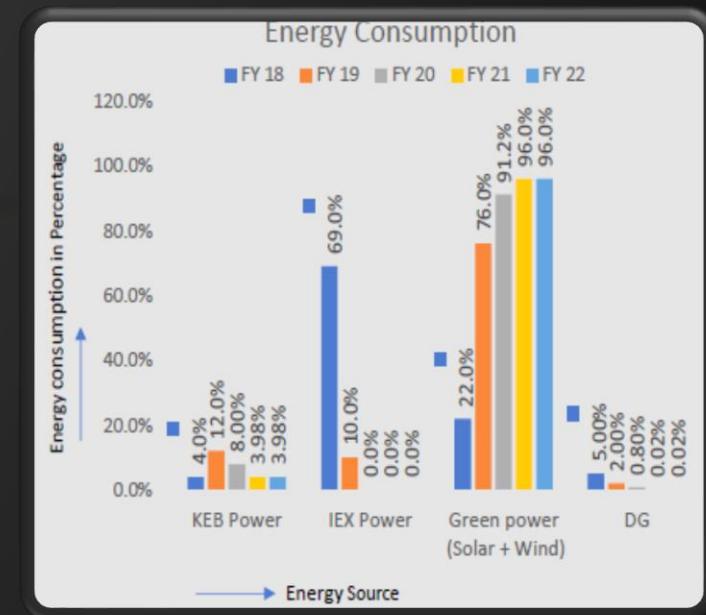
SAUER DANFOSS

nexteer
AUTOMOTIVE

NORGREN®

SUSTAINABILITY INITIATIVES

- INDO-MIM strives constantly towards protecting environment and including pollution prevention & emission reduction measures
- 96% of the energy consumed is generated through green energy resources
- Optimization of DG set utilization through PLC Automation & Solar Power to achieve CO2 Reduction
(Current standing: -65,255 Tons)
- Mini-forest of 5000 saplings planted & maintained to help offset the carbon footprint
- Dedicated Team actively striving to achieve 17 Sustainable Development goals & 169 ESG Targets



CORPORATE SOCIAL RESPONSIBILITY

INDO-MIM group companies proudly support a variety of charitable organizations that share our vision of making a positive contribution to the society – Few initiatives are listed below



Mid Day Meal Scheme

Through the local schools, INDO-MIM feeds over 2,500 students in the mid day meal scheme



The Chivukula Wing

The Chivukula wing was built at the Bangalore Baptist Hospital Through Support from Mr. Chivukula. Annual contributions to support treatment needs for the disadvantaged have been provided



Asha Foundation

INDO-MIM continues to support the Asha foundation in the fight against HIV/AIDS in India



Deenabandhu & Vishranthi Trust

INDO-MIM extends its support towards rural education through the Deenabandhu Trust. It also supports the welfare of the old and the orphans through the Vishranthi Trust

MORE THAN 4000 HEARTS – ONE BEAT

Creating Value :

In-depth technical competence

International presence

Application and Industry Expertise

Long-term Relationships

THANK YOU

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/indomim



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