30+ YEARS OF EXCELLENCE

STPL 3D
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INDOMAKE INSM 120 D

COMPACT METAL ADDITIVE MANUFACTURING FOR INDUSTRIAL APPLICATIONS

COMPACT INDUSTRIAL DESIGN

HIGH-PRECISION METAL PRINTING

COST-EFFICIENT PRODUCTION

MADE IN INDIA

ISO 9001 : 2015 MANUFACTURING FACILITY

DSIR-GOVERNMENT OF INDIA CERTIFIED IN-HOUSE R&D UNIT

MSME SUSTAINABLE (ZED)

ISO 13485 CERTIFIED COMPANY

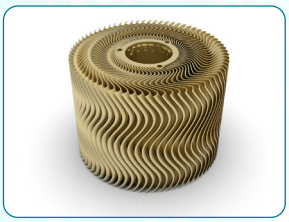
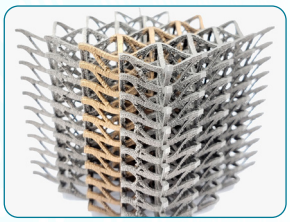
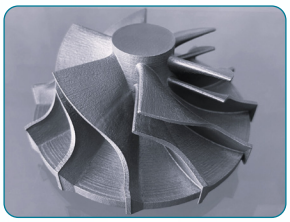
INDOMAKE INSM 120 D

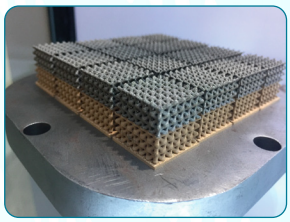
INDOMAKE INSM 120 D, developed by STPL 3D, is a compact desktop SLM metal 3D printer designed for industrial applications. It enables precise and reliable production of complex metal parts with efficient material usage. With advanced laser control and user-friendly software, it simplifies metal additive manufacturing for modern production environments.

KEY FEATURES

- Compact desktop all-in-one design
- High-precision SLM technology
- Top-down powder feeding
- Permanent filtration system
- 300W / 500W laser options
- Multi-material compatibility
- User-friendly software

3D PRINTING SAMPLES



APPLICATIONS

- Functional Prototypes
- Aerospace Components
- Tooling & Fixtures
- Automotive Parts
- Small Batch Production
- R&D and Product Development

TECHNICAL SPECIFICATIONS

Build & Process	Build Volume (X×Y×Z mm, including the 12mm build plate thickness)	D120x90
	Build Plate Size (mm)	D120x12
	Layer Thickness Range (µm)	20-100
	build plat temp.	120°C
Laser System	Laser Type (Fiber/QCW)	Fiber
	Laser Power (W)	500W
	Laser Wavelength (nm)	1064
	Spot Size (µm)	50-100
Scanning System	Scanner Type (Galvo)	2D
	Max Scanning Speed (m/s)	7
	Position Accuracy (µm)	≤4 µrad
Recoater	Recoater Type (Blade/Roller)	Blade T-shape
	Recoater Material	Rubber
	Recoating Time per Layer (sec)	3s
Atmosphere & Safety	Inert Gas Type	N2
	Min Oxygen Level (ppm)	≤100 ppm
	Safety Interlocks Available	Yes
Materials	Supported Materials (CoCr/Ti)	316L, CoCr, TC4, NiCr, Ti
	Powder Size Range (µm)	15 - 53 um
	Open Material System (Yes/No)	Yes
Accuracy & Quality	Part Accuracy (±µm)	0.1 mm
	Repeatability (µm)	10 um
	Density Achievable (%)	99.5% and above
Software	Build Prep Software	Independent
Utilities	Power Requirement (kW)	2KW, Max 6kW incl. auxiliary
	Gas Consumption per hour(Average, L)	0.8
	Machine Footprint (L×W×H)	630x700x1000 mm
Certifications	CE / ISO / ISO 13485	CE, ISO 9001
Accessories	Nitogen Generator	Yes
	Oilless Pump (Supplies Clean compressed air for nitrogen generator)	Yes
	Vaccum Heat Treatment Furnace	Yes
	Powder Sieving System with 1 Sieve	Yes
	Powder Drying Oven	Yes
	Electric Shovel	Yes
	Vacuum Cleaner	Yes
	Voltage Stabilizer 220V AC, 5KW	Yes
	Free powder with order (316L - 25KG)	Yes
	Substarte 5 Pcs, stainless steel	Yes
Installation & Training	Remote Support	Yes
Warranty	12 months on machine, 18 months on laser source	Yes
Local service for laser	in INDIA	Yes

CHOSEN BY INDIA'S TOP INNOVATORS

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GET A QUOTE

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