30+ YEARS OF EXCELLENCE

STPL 3D
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INDOMAKE INSM 280

Where Innovation Meets Metal Mastery!

ISO 9001 : 2015 MANUFACTURING FACILITY

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

MSME SUSTAINABLE (ZED)

ISO 13485 CERTIFIED COMPANY

INDOMAKE INSM 280

Metal 3D Printing Machine for High-Precision Applications

The **INDOMAKE INSM 280** is a cutting-edge metal 3D printing machine designed to meet the evolving needs of industries requiring high-precision, moldless production. Whether for small-scale custom manufacturing or large-scale industrial precision parts, this machine offers unparalleled accuracy and ease of use. Its applications span across industries such as aerospace, automotive, medical, dental, orthopaedics, and scientific research. With a focus on high precision, stability, and user-friendliness, the **INSM 280** provides advanced features that ensure exceptional print quality and durability, making it an ideal choice for industries requiring intricate and high-quality metal components.

KEY FEATURES

- **High Precision and Quality:**
  Equipped with a high-precision galvanometer scanning system, the INSM 280 offers outstanding accuracy and stability, ensuring the production of precise and reliable metal parts.

- **Easy to Operate and Versatile:**
  Designed with industrial professionals in mind, the INSM 280 is user-friendly, easy to operate, and versatile enough to handle a wide range of applications, from aerospace and automotive to medical and jewellery manufacturing.

- **Ultra-Precision Filtration System with Fresh Air Protection:**
  The machine's advanced double filtration system provides superior air protection, reducing forming defects and ensuring high-quality metal printing.

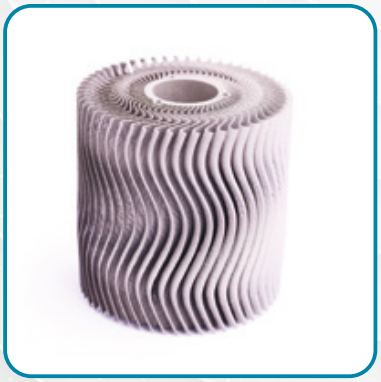
- **Fully Enclosed Vacuum Chamber:**
  The machine’s fully enclosed vacuum environment ensures a low oxygen content, preventing metal oxidation during the printing process and guaranteeing the integrity of metal parts.

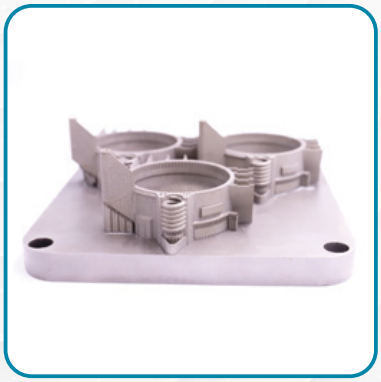
- **Robust Materials Compatibility:**
  Compatible with a variety of metals such as stainless steel, titanium alloys, aluminium alloys, superalloys, tungsten, and tantalum, making it suitable for multiple industries.

TECHNICAL SPECIFICATION

Laser Type	Yb-fibre laser 500W
Precision Optics	High-accuracy Galvo Scanning System
Scanning Speed	Up to 7.8m/s
Building Volume	250mm × 250mm × 280mm
Machine Dimensions	1600mm × 1100mm × 2100mm
Powder Delivery	Double-cylinder One-way Powder Feeding
Control System Software	Self-developed Control System
Data File Format	STL or Other Convertible Formats
Working Temperature	15°C – 30°C
Materials	Stainless Steel, Super Alloy, Titanium Alloy, Die Steel, Aluminum Alloy, Tungsten, Tantalum

PRINTING SAMPLES





OUR CLIENT BASE

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GET A QUOTE

SAHAJANAND TECHNOLOGIES PRIVATE LIMITED

Sahajanand Estate, Vakhariawadi, Near Dabholi
Char Rasta, Ved Road, Surat - 395 004. GJ, India.

+91 9925113344 www.STPL3D.com

3dinfo@stpl.com /STPL3D