

LM-5400

Specialists in Ultra-Precision Footwear Manufacturing



High precision



Excellent stability



High-precision control



Intelligent bidirectional powder application



Micron-level precision printing

Using an ultra-fine 50–80 μm spot size, it achieves ultra-precise printing with a Ra of $<6.3 \mu\text{m}$, enabling the direct formation of complex surfaces such as shoe last embossed patterns without the need for secondary processing.



Intelligent conformal cooling system Optimized for professional mold materials

Supports integrated printing of custom-shaped cooling channels, which improves mold cooling efficiency by more than 35%, significantly shortens injection molding cycles, and enhances product quality.



Printing parameters are optimized specifically for materials such as die steel and stainless steel, with printed parts achieving a density of over 99.7%, a 50% improvement in wear resistance, and a significant extension of mold service life.



Compact production design

Printing parameters are optimized specifically for materials such as die steel and stainless steel, with printed parts achieving a density of over 99.7%, a 50% improvement in wear resistance, and a significant extension of mold service life.

Print Sample



Sample Name: Shoe Mold
Sample Material: 316L
Sample Dimensions: 290×150×80mm
Application: Mold Industry



Sample Name: Shoe Mold
Sample Material: 316L
Sample Dimensions: 270×120×70mm
Application: Mold Industry



Sample Name: Shoe Mold
Sample Material: 316L
Sample Dimensions: 260×130×40 mm
Application: Mold Industry



Sample Name: Shoe Mold
Sample Material: 316L
Sample Dimensions: 160×70×80mm
Application: Mold Industry

Technical Specifications

Dimensions	L(1770mm) x W(1260mm) x H(1900mm)
Molding Chamber Dimensions	406mm x 206mm x 230mm
Scanning Speed	3*7m/s
Spot Diameter	50~80μm
Laser	3*500W
Powder Layer Thickness	20~120μm
Build Speed	Max50cm ³ /h
Compatible Materials	Compatible Materials
Chamber Oxygen Content	≤100ppm
Shielding Gas	Nitrogen/Argon
Data Format	STL files or other conversion formats
Supporting Software	LM-3Dprint (developed in-house by limn)
Electrical and Losses	380V, 19KW
Machine Weight	1.9T

*The data provided is for reference only; actual results may vary.

Auxiliary equipment



Electric Explosion-proof Industrial Vacuum Cleaner

Powder Sifter

Vacuum Loader

Technical services



Technical services

24/7 technical support



Engineering Design

Engineering design services tailored to product application requirements



Rapid Response

Prompt response to customer needs and proactive action



Equipment Training

Comprehensive training on equipment, systems, and maintenance, with customized training available



Customized Products

High-quality, customized solutions



Quality Assurance

Rigorous pre-shipment testing and quality control throughout the entire process

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Official Website