

Avimetal-MT400M

Laser Powder Bed Fusion Equipment

Budget-Friendly Model

Multi-Laser | Fast & Precise

Perfect for 3C & Molding



High Cost Performance

High quality laser
High cost-effectiveness
of the entire machine


Multi Laser Premium Configuration

Greater increase in print
efficiency to meet the demands
of batch production


Three Level Clean Air Field

Horizontal flow, steady
flow, and blowing flow
Good printing quality


Innovative Powder Feeding Structure

Avoids malfunctions
Convenient powder
replacement and cleaning


Efficient Circulating Filtration System

Flexible configuration,
optional for long-term or
three-level filtering

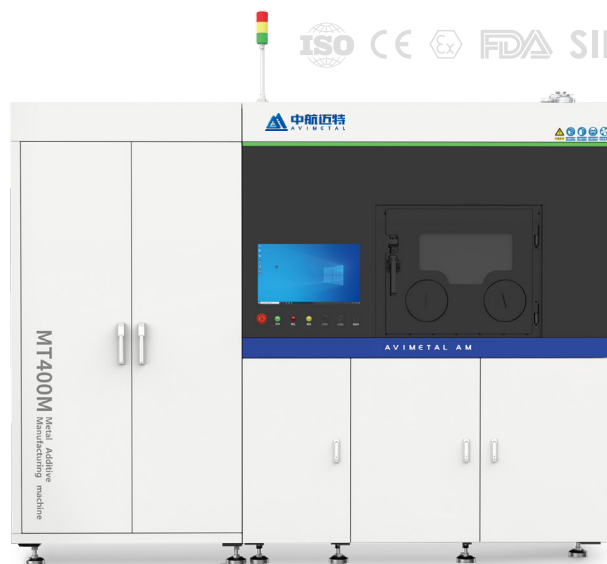

Real-time Monitoring

Real-time recording,
output, self-diagnosis


Open-source Parameters

Laser power, scanning
speed, etc. are open
and adjustable


HCI Friendly

Modular and compact
design for easy use


Equipment Parameters

Build Material	Titanium Alloy, Superalloy, Aluminum Alloy, Cobalt-Chromium Alloy, Stainless Steel, Die Steel, Copper Alloy, etc.		
Build Size ^①	420×350×400mm (X×Y×Z)	Recoating Mechanism	Uni/Bidirectional Variable-Speed Recoating
Laser System	500W×4 /×6	Gas Support	Ar/N ₂
Scanning System	High-Precision Scanning Galanometer	Working Oxygen Content	≤100ppm
Focusing System	F-theta Field Lens	Build Efficiency ^②	100cm ³ /h; 150cm ³ /h
Beam Quality	M2 ≤ 1.1	Host Dimensions	3100×1400×2200mm (L×W×H)
Beam Diameter	70~120μm	Installation Dimensions	5000×3300×3000mm (L×W×H)
Maximum Scanning Speed	7m/s	Power Supply	AC380V
Layer Thickness	20~100μm	Power Consumption	≤17kW; 18kW
Platform Preheating Temperature	RT+20℃~200℃	Equipment Weight	Approx. 3100kg; 3200kg

^① Excluding the thickness of the build platform.

^② The building efficiency can vary due to differences in equipment configuration, process parameters, and the operating status of the laser.

* The above data are obtained under AVIMETAL operating conditions. The final equipment parameters are subject to the actually sold products.



Application Areas

 3C	 Shoe Mold	 Industrial Mold	 Hand Board
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Application Cases

		
Shoe Mold (MT-316L)	Phone Hinge Cover (MT-Ti6Al4V)	Conformal Cooling Channel (MT-MS1)

Automatic Powder Supply Solution

			
MPC-Q30 Powder Cleaning Machine	MPS-JS30 Powder Collection Tank	MPS-BF30 Pump Powder Feeder	MSF-Z30 Powder Screening Machine

Parameter Smart Module

Standard Configuration: AVIMETAL-Pretreatment data preprocessing software, AVIMETAL-Control system (intelligent process diagnosis, real-time data tracking, real-time status monitoring), permanent dust removal.

Optional Configuration: 3D part reconstruction, powder spreading monitoring, automatic splicing, path planning, AVIMETAL-MES management system.

Consumables

Rubber scraper, metal build plate, passivant

Pre-Sales & After-Sales : Multi-location service support, 24x7 rapid response

 Customized Matching Specialized technical team supports deep customization	 Assembly & Debugging Standardized installation, rapid optical system calibration	 Personnel Training Comprehensive tiered training: operation, process handling, etc.
 Product Upgrades Equipment iteration services including supporting software	 Spare Parts Service Provides maintenance parts and consumables	 Operational Support On-site equipment inspection and maintenance by engineers

Materials

More than 200 alloy grade powder materials, including superalloys, titanium alloys, aluminum alloys, cobalt chromium alloys, stainless steels, die steels, high entropy alloys, refractory metals, and copper alloys, etc.

Process

Design Modeling → Structured Process → Forming Process → Process Control → Heat Treatment → Surface Treatment → Detection Analysis

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