

# LM-M400

High-quality medium and large-size metal additive manufacturing equipment



Large forming size



High-precision control



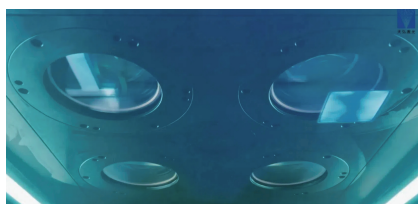
High printing efficiency



Easy to operate

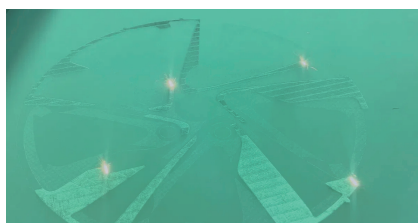


## ► WHY TH-M400?



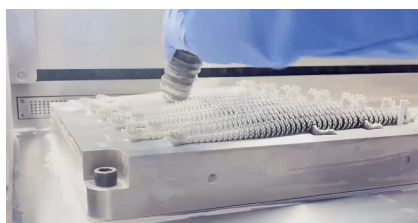
### Efficient Printing, Reliable Quality

The XY axis forming size is the highest among similar products, and it is equipped with 4\*500W lasers as standard, with a maximum forming efficiency of 140cm<sup>3</sup>/h and high printing efficiency. Advanced multi-laser scanning strategy and calibration algorithm ensure high printing efficiency and controllable quality.



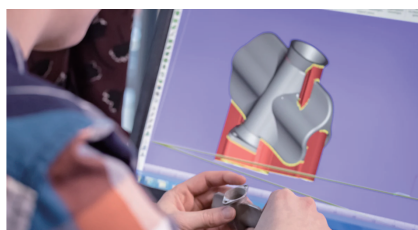
### Aviation-grade Efficiency And Quality

Quad-laser configuration, each laser achieves full coverage of the build area, using a sophisticated scanning strategy to achieve uniform energy control within the build area.



### Industrial Parts and Powder Management

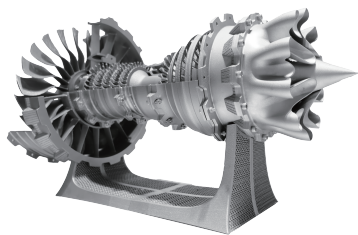
Short sieving times for large powder volumes and a closed powder circulation loop provide high production efficiency and operational safety. The entire process chain can also be operated in a protective gas atmosphere: sieving, printing, cooling, de-powdering.



### Independent open source, Easy to use

The software, algorithm and control system are independently developed by Tianhong to ensure information security and technical controllability. The process parameters are open source and personalized customization can meet diverse production needs.

## ► 3D Printing Case



The size of the aircraft engine is 702\*341\*391mm. With the advantages of optimized printing structure and improved material performance, it can effectively realize the lightweight design of aviation components while saving production costs and shortening the creation cycle.

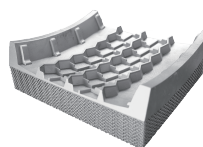
Sample Name: Aerospace Engines

Printing Equipment: TH-M400

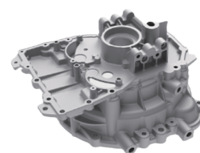
Printing Material: 316L



Car Wheels



Tire Mold



Electric Drive Housing

## ► Technical Parameters

Dimension	L(3440) xW (1270)xH (2500)mm <sup>3</sup>
Build Volume	406mmx406mmx450mm
Laser Power	500W*4
Layer Thickness	20-120μm
Scanning Speed	4*7m/s
Forming speed	Max 140cm <sup>3</sup> /h (Four laser)
Oxygen Content	<100ppm
Light spot diameter	70-120μm
Protective gas	Nitrogen/Argon
Data format	STL file
Complementary software	TH-3Dprint
Electrical consumption	380V , 34KW
Applicable material	Titanium alloy, aluminum alloy, high temperature alloy, stainless steel, high strength steel, mold steel
Weight	4.2T

## ► About Us



### Technical Consultation

Including consulting on equipment selection, material processes, and operations



### Original spare parts

Ensure high performance and long service life



### Equipment Training

Full training on equipment, systems, maintenance and can be customized



### Regular after-sales

Regular return visit  
Provide comprehensive and detailed service