

EP-M150 PRO

High Speed & High Precision

Metal Additive Manufacturing Equipment



EP-M150 PRO

EP-M150 PRO adopts metal powder bed selective melting MPBF™ (Metal Powder Bed Fusion) technology, single and dual-laser printing modes are optional, supporting 200 and 500 W laser, which can be perfectly used for the rapid production of high performance, high-precision parts. Compatible with most popular metal powder materials, including titanium alloy, aluminum alloy, nickel-based superalloy, Maraging steel, stainless steel, Cobalt, chromium alloy and ect. It has been applied in versatile applications such as industrial manufacturing, medical, education, dental, materials development and etc.



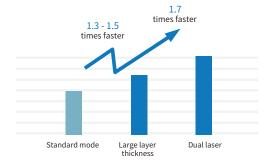
W High Precision

- · High laser beam quality.
- · Tiny laser spot.
- · High consistency and uniform laser beam quality from different positons in the building platform.

High Performance

- · The density of printed parts can reach nearly 100 %.
- · Volatility of mechanical properties < 5 %.
- . In dual laser printing mode, precision deviation in alignment area ≤ 0.15 mm.





W High Efficiency

- \cdot The Layer thickness can be up to 100 μm
- · With the latested upgrated technology combining dual-laser with large layer thickness mode, the produc-tivity has been risen for 2.3 ~ 2.7 times.

Openness

- High consistency, different machines could use the same set of process parameters.
- Machine compatible with multiple materials, the same machinecan print multiple materials without adjusting the optical path.







2 minutes quick operation

One-click printing

User Friendly Operation System

- · Ergonomics overall design for users.
- · With "one-click printing" function, each process is ready to run, click the "print" button on the screen to start printing.
- · The replacement of filter element, residual material tank substrate and recoater can be completed within 2 minutes.

Afforadable Operation Cost

- · Air consumption during processing < 3 L / min (0.3 MPa).
- · Powder supply is accurate, stable and controllable, and high utilization rate of powder.
- · The existing material parameter packages are provided for free.







Anti-electric shock





Fire prevention

Safer

Prevention of Misoperation





Anti-pollution Working environment monitoring

status monitoring

Anti-waste

- · Safety design, anti-misoperation, anti-electric shock, fireprevention, anti-waste, anti-pollution.
- · Real-time monitoring and traceable of working environment and gas source status, safe and reliable.

EP-M150 PRO PARAMETER

Machine Model	EP-M150 PRO
Build Chamber (XxYxZ)	Φ156 mm x 240 mm ³
Optical System	Fiber Laser, 500 W (single or dual-laser optional)
Spot Size	70 μm
Max Scan Speed	8 m/s
Building Speed (1)	Single laser: 5~20 cm³/h Dual laser: 8~35 cm³/h
Layer Thickness	20 μm -100 μm
Material	Titanium Alloy, Aluminium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel,Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 3P/N/PE, 12 KW, 23 A, 50~60 Hz (Dual laser : 13.5 KW, 28 A)
Gas Supply	Ar/N ₂
Oxygen Content	≤100 ppm
Dimension (WxDxH)	2120 x 980 x 2250 mm ³
Weight	1500 kg
Software	EP Control, EPHatch
Input Data Format	STL or other Convertible File

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