

EP-M150

High Compact & High Precision

Metal Additive Manufacturing Equipment



EP-M150

EP-M150 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.



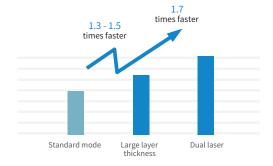
W High Precision

- · High laser beam quality.
- · Tiny laser spot.
- · High consistency and uniform laser beam quality from different positions 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.





High Efficiency

- · The Layer thickness can be up to 100 μ m.
- With the latested upgrated technology combining dual-laser with large layer thickness mode, the productivity 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

W 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.









Misoperation



Fire prevention

Safety design Anti-electric shock







Anti-pollution Working environment monitoring

Gas source status monitoring

Anti-waste

Safer

- · 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 PARAMETER

Machine Model	EP-M150
Build Chamber (XxYxZ)	Ф153 mm x120 mm³
Optical System	Fiber Laser, 200 W/500 W (single or dual-laser optional)
Spot Size	40-60 μm
Max Scan Speed	8 m/s
Building Speed (1)	Single laser: 5~20 cm ³ /h Dual laser: 8~35 cm ³ /h
Layer Thickness	200 W laser : 20 μm -50 μm 500 W laser : 20 μm -100 μm
Material	Titanium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel,Cobalt Chrome, Copper Alloy, etc.
Power Supply	220 V, 4.2 KW, 14 A, 50~60 Hz (Dual laser : 5.8 KW, 19 A)
Gas Supply	Ar/N ₂
Oxygen Content	≤100 ppm
Dimension (WxDxH)	1750 x 810 x 2190 mm ³
Weight	900 kg
Software	EP Control, EPHatch
Input Data Format	STL or other Convertible File

Notice: Eplus 3D reserves the right to explain any alteration of the speciications and pictures.

Eplus 3D www.eplus3d.com info@eplus3d.com