

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 500W 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.

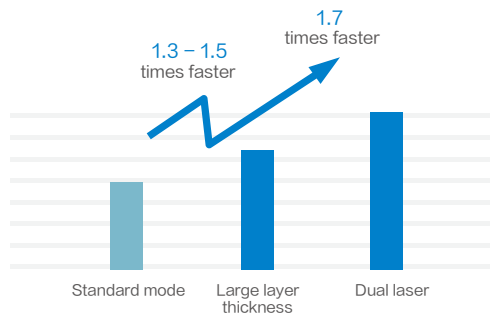


« High Precision

- 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 machine can print multiple materials without adjusting the optical path.



2 minutes quick operation



One-click printing

» Affordable 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



Safety design



Anti-electric shock



Prevention of Misoperation



Fire prevention



Anti-pollution



Working environment monitoring



Gas source status monitoring



Anti-waste



« 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.



« Safer

- Safety design, anti-misoperation, anti-electric shock, fire prevention, 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)	Φ150mmx120mm ³
Optical System	Fiber Laser, 200W/500W (single or dual-laser optional)
Spot Size	40–70 μ m
Max Scan Speed	8m/s
Building Speed ⁽¹⁾	Single laser : 5~7.5cm ³ /h Dual laser : 8.5~12.75cm ³ /h
Layer Thickness	200W laser : 20 μ m –50 μ m 500W laser : 20 μ m –100 μ m
Material	Titanium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	220V, 50–60Hz, 3KW, 16A
Gas Supply	Ar/N ₂
Oxygen Content	≤100 ppm
Dimension (WxDxH)	1750x800x1830mm ³
Weight	900kg
Software	EP Control, EPHatch
Input Data Format	STL or other Convertible File

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