

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 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.



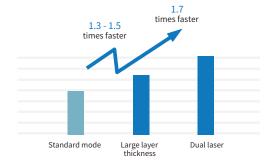
W High Precision

- · 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.





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 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

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.









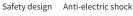
Misoperation



Fire prevention



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











status monitoring

Anti-waste

Anti-pollution Working environment monitoring

EP-M150 PRO PARAMETER

Machine Model	EP-M150 PRO
Build Chamber (XxYxZ)	Ф156mmx240mm³
Optical System	Fiber Laser, 500W (single or dual-laser optional)
Spot Size	70μm
Max Scan Speed	8m/s
Building Speed (1)	Single laser: 5~20cm³/h Dual laser: 8~35cm³/h
Layer Thickness	20μm -100μm
Material	Titanium Alloy, Aluminium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel,Cobalt Chrome, Copper Alloy, etc.
Power Supply	380V, 3P/N/PE, 12KW, 23A, 50~60Hz (Dual laser : 13.5KW,28A)
Gas Supply	Ar/N_2
Oxygen Content	≤100 ppm
Dimension (WxDxH)	2120x980x2250mm ³
Weight	1500kg
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.

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