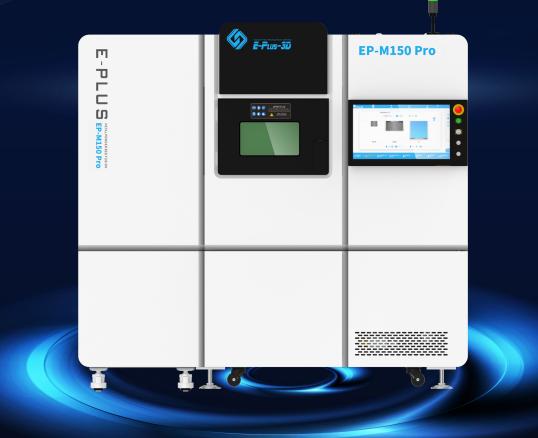


# EP-M150 PRO

### High Speed & High Precision Metal Additive Manufacturing Equipment



### EP-M150 PRO

EP-M150 PRO adopts metal powder bed selective melting MPBF <sup>TM</sup> (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.



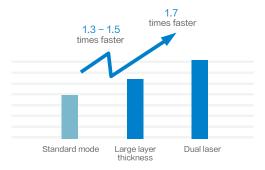
#### High Precision

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

#### High Performance

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





#### High Efficiency

- $\cdot$  The Layer thickness can be up to 100  $\,\mu\,m$
- 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

#### **O 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





#### Safer

- · Safety design, anti-misoperation, anti-electric shock, fireprevention, anti-waste, anti-pollu-tion
- 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)	Φ153mmx240mm <sup>3</sup>
Optical System	Fiber Laser, 500W (single or dual-laser optional)
Spot Size	70 µ m
Max Scan Speed	8m/s
Building Speed (1)	Single laser : 5~7.5cm <sup>3</sup> /h Dual laser : 8.5~12.75cm <sup>3</sup> /h
Layer Thickness	20 µ m −100 µ m
Material	Titanium Alloy, Aluminium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel,Cobalt Chrome, Copper Alloy, etc.
Power Supply	220V, 50~60Hz, 3KW, 16A
Gas Supply	Ar/N <sub>2</sub>
Oxygen Content	≤100 ppm
Dimension (WxDxH)	2120x800x2000mm <sup>3</sup>
Weight	1500kg
Software	EP Control, EPHatch
Input Data Format	STL or other Convertible File

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