LODESTAR 3D
Building Factories of the Future

E-Plus-3D

# EP-M150 PRO

## High Speed & High Precision Metal Additive Manufacturing Equipment

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# EP-M150 PRO

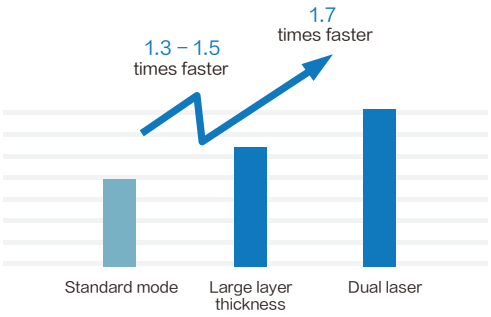
EP-M150 PRO adopts metal powder bed selective melting MPBF ™ (Metal Powder Bed Fusion) technology, single and dual-laser printing modes are optional , supporting 200 and 500W laser, which can be perfectly used for the rapid production of high performance, high-precision parts. Compatible with most popular 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.

## 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

· 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.

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## 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 control-lable, 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

## 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.

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# EP-M150 PRO PARAMETER

| | |
|---|---|
| Machine Model | EP-M150 PRO |
| Build Chamber (XxYxZ) | Φ153mmx240mm³ |
| Optical System | Fiber Laser, 500W (single or dual-laser optional) |
| Spot Size | 70 μm |
| Max Scan Speed | 8m/s |
| Building Speed (1) | Single laser : 5~7.5cm³/h Dual laser : 8.5~12.75cm³/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 | 380V, 3P/N/PE, 50~60Hz, 12KW, 32A |
| Gas Supply | Ar/$N_2$ |
| Oxygen Content | ≤100 ppm |
| Dimension (WxDxH) | 2120x800x2000mm³ |
| Weight | 1500kg |
| Software | |
| Input Data Format | STL or other Convertible File |

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

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