E-Plus-3D

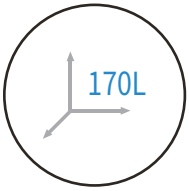
EP-M4750

Large Size & High Quality
Metal Additive Manufacturing System

EP-M4750

EP-M4750 adopts Metal Powder Bed Fusion(MPBF™) technology, featuring a forming chamber that reaches up to 450 x 750 x 530 mm. EP-M4750, equipped with 2/4 lasers, is designed to ensure high efficiency production.

Compatible with titanium alloy, aluminum alloy, nickel alloy, maraging steel, stainless steel and cobalt chrome, etc. EP-M4750 is an ideal choice for direct manufacturing of large-size, high-precision and high-performance parts in the aerospace, aviation and tooling industry and other relevant industries.



HIGH EFFICIENCY

- Build volume (X x Y x Z): 450 x 750 x 530 mm (height incl. build plate), build chamber volume＞170 L.
- The printer is capable of printing at speeds of up to 70 cm^3/h, with multi-laser simultaneously engaged in the printing process.
- Printing with an increased layer thickness can significantly boost production capacity.

EXCELLENT QUALITY & GOOD CONSISTENCY

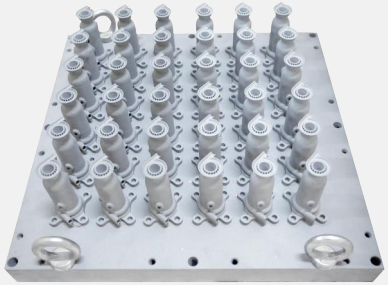
- Optimized design of gas flow ensures the effective removal of dust and splatter.
- Overlapping deviation ⩽±0.1 mm.
- The strict calibration ensures the consistency between parts and batches.

EASY OPERATION

- Friendly user interface with fully automatic one click printing function.
- Process software enables the effective planning of design, simulation and printing path planning, within one software and highly improving the production efficiency.

COST EFFECTIVE & RESOURCE EFFICIENT

- Three-stage filtration, which can use blow back function to remove the fume, equipped with permanent filter element.
- The build job information is displayed in real time with traceable printing parameters report.
- Process software supports SLC and CLI formats, enabling real-time modification of printing parameters during the printing process.



EP-M4750 PARAMETER

Machine Model	EP-M4750
Build Volume (X x Y x Z) (height incl. build plate)	450 x 750 x 530 mm (17.7 x 29.5 x 20.8 in)
Optical System	Fiber Laser 2 /4 x 500 W (700 W is optional)
Spot Size	70 - 120 µm
Max Scan Speed	8 m/s
Layer Thickness	20 - 120 µm
Theoretical Printspeed	Up to 70 cm^3/h
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc
Power Supply	380 V, 50 / 60 Hz, 18.5 kW
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	6400 x 4070 x 3585 mm
Weight	12000 kg
Software	EPControl, EPHatch
Input Data Format	STL or other Convertible File

Notice: Eplus3D reserves the right to explain any alteration of the specifications and pictures.