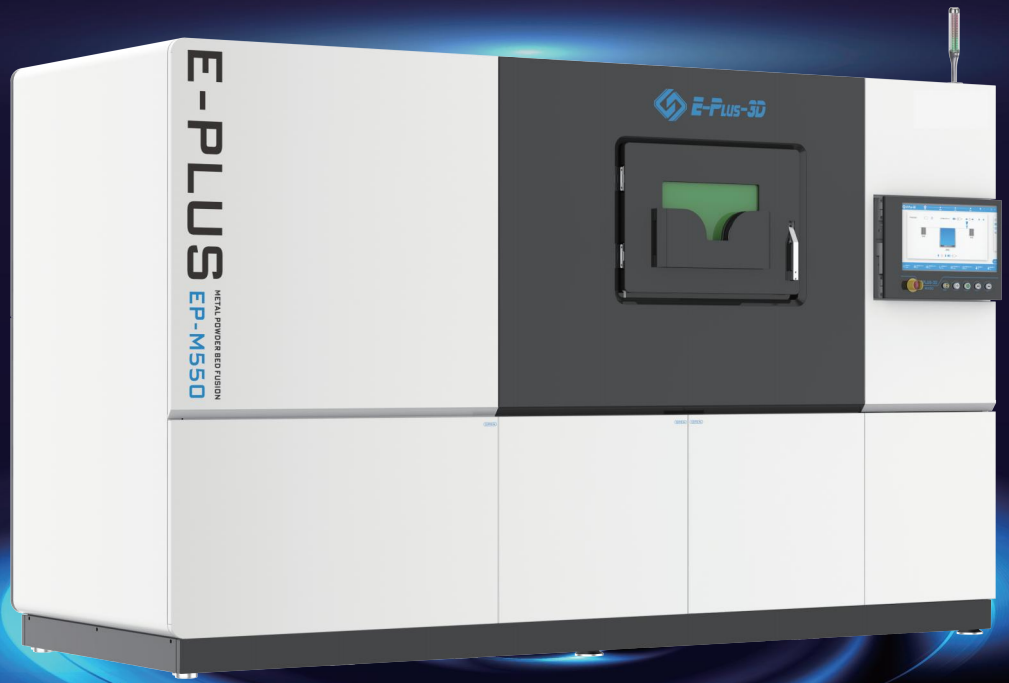
E-Plus-3D

EP-M550

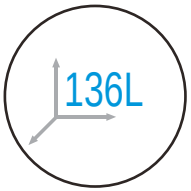
Big Output, Small Footprint
Metal Additive Manufacturing System



EP-M550

EP-M550 adopts Metal Powder Bed Fusion (MPBF) technology, featuring a forming chamber that reaches up to 550 x 550 x 450 mm. It is a multi-laser system designed to ensure high efficiency production.

Compatible with titanium alloy, aluminum alloy, nickel alloy, maraging steel, stainless steel and cobalt chrome, etc, EP-M550 is an ideal choice for direct manufacturing of large-size, high-precision and high-performance parts in the tooling, automotive, aerospace industry and other relevant industries.



HIGH EFFICIENCY & PRODUCTIVITY

- Build volume (X x Y x Z): 550 x 550 x 450 mm (height incl. build plate), build chamber volume >136 L.
- The printer is capable of printing at speeds of up to 280 cm^3/h, with multi-laser simultaneously engaged in the printing process.
- Bi-directional powder recoating method leads to reduced recoating time.

STABLE QUALITY & GOOD CONSISTENCY

- Overlapping deviation ±0.1 mm.
- Printed parts' density > 99.9%, deviation in parts' mechanical properties <5%.
- The optimized gas flow design ensures efficient removal of smoke and splashes as well as achievement of uniform and consistent full size printing.

REAL TIME MONITORING & HIGH SECURITY

· Safety design, prevent mis-operation, electric shock, re, waste and pollution.

· Real time monitoring of the working environment and air source status ensures safety and reliability.

· The equipment has passed the EU CE certi cation and FDA laser safety certi cation, with high safety.

HUMANIZED DESIGN & HIGH AUTOMATION

· The one-piece take out function ensures a high automation.

· The build job information is displayed in real time with traceable printing parameters report.

· Process software supports SLC and CLI formats, enabling real-time modi cation of printing parameters during the printing process.

EP-M550
PARAMETER

Machine Model	EP-M550
Build Volume (X x Y x Z) (height incl. build plate)	550 x 550 x 450 mm (21.6 x 21.6 x 17.7 in)
Optical System	Fiber Laser 4 / 6 / 8 x 500 W (700 W and 1000 W are optional)
Spot Size	70 - 120 m
Max Scan Speed	8 m/s
Layer Thickness	20 - 120 m
Theoretical Printspeed	Up to 280 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 ~ 40 kW
Gas Supply	Ar / N_2
Oxygen Content	100 ppm
Dimension (W x D x H)	4000 x 1950 x 2840 mm
Weight	7000 kg
Software	EPControl, EPHatch
Input Data Format	STL or other Convertible File

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