LODESTAR 3D
Building Factories of the Future

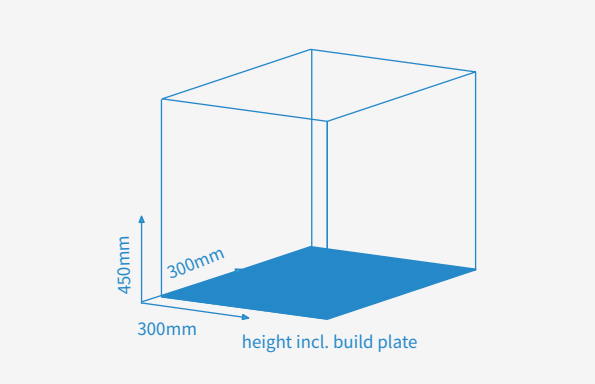
E-Plus-3D

EP-M300

High Productivity Metal AM Machine
Metal Powder Bed Fusion

EP-M300

Eplus3D introduces EP-M300 to the successful line of MPBF™ metal AM solutions. The new EP-M300 is a marvelous metal printer that makes the production of reliable and high quality large metallic parts viable on industrial scale without requiring any tools.

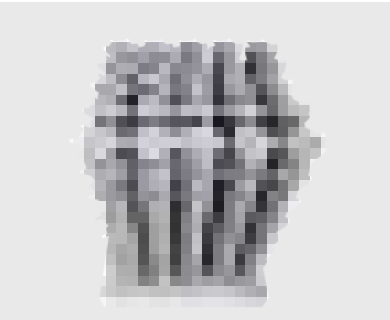


OPTIMIZED MECHANICAL DESIGN

- Big building chamber , single or dual laser optional.
- User friendly, dual filter systems, high security.
- Various of performance recoating blades available.

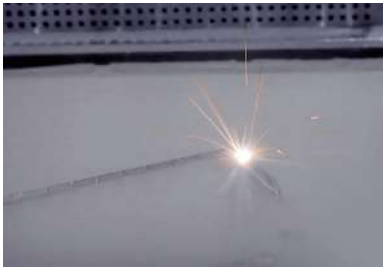
OPEN SYSTEM

- Open parameters for editing laser power, scan speed, scan direction, up and down facing surfaces etc.
- Open system ensures free choice among a wide range of metal powders in the market.
- Various material parameter packages available.
- Process software supports SLC and CLI formats.



HIGH QUALITY

- High density and less deviation of the printed parts.
- The optimized gas flow design ensures efficient removal of smoke and splatter as well as achievement of uniform and consistent full size printing.
- Dynamic software with ability to divide the model into different sections like upper and lower surfaces, core areas and small areas etc.



RELIABLE & HIGH SAFETY

- Excellent core optic components from world-class suppliers and mature process control parameter algorithm provides highest part quality.
- High quality uniform part printing due to excellent control over building environment and components.
- Double locking from mechanical lock to improve safety.
- Alarming when the access door is open abnormally, to ensure the safety of use.
- Two-glove structure of the access door makes it possible to operate without opening the door.

HIGH EFFICIENCY

- Build volume (X x Y x Z) is up to 300 x 300 x 450 mm (height incl. build plate).
- Printing with increased layer thickness can be realized to inprove production capacity.
- With in-house developed processing software (EP-Hatch), optimized scanning strategies can be achieved yielding reduced print duration.

COST-EFFECTIVE & EASY OPERATION

- Blowback enabled coarse and fine gas-filtration system with 1000 hours.
- Highly user friendly software interface and one-click printing technology makes printing super simplified.
- Reduced gas consumption during printing ⩽6 L/min helps reducing operation cost.

EP-M300
PARAMETER

Machine Model	EP-M300
Build Volume (X x Y x Z) (height incl. build plate)	300 x 300 x 450 mm (11.81 x 11.81 x 17.72 in)
Optical System	Fiber Laser, 500 W / 1000 W (single or dual-laser optional)
Spot Size	80 - 120 μm
Max Scan Speed	8 m/s
Layer Thickness	20 - 120 μm
Building Speed	Single Laser : 15 ~ 35 cm^3/h Dual Laser : 25 ~ 63 cm^3/h
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 10kW, 28 A, 50 / 60 Hz（Dual Laser: 8 KW, 31 A）
Gas Supply	Ar / N_2
Forming Chamber Oxygen Content	⩽100 ppm
Dimension (W x D x H)	2984 x 1300 x 2624 mm
Weight	2900 kg
Software	EP-Hatch, EP Control
Input Data Format	STL File or other Convertible Format

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

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