

# **EP-M825**

Ten Laser Large Format Metal Additive Manufacturing System



### **EP-M825**

EP-M825 is using a large building envelope and ten-laser system to ensure a high efficiency production. The precise positioning and overlapping control technology offers uniformity and stability throughout the whole printing phase. The building speed can be up to 410 cm<sup>3</sup>/h, which is suitable for direct manufacturing of high-performance components in aerospace, mold manufacturing, automotive industry, etc.



#### HIGH EFFICIENCY & PRODUCTIVITY

- · Printing of mass-individualized parts in the 760 Liter build chamber.
- Ten lasers are printing simultaneously with speed up to 410 cm<sup>3</sup>/h.
- · Bi-direction powder spreading shortens production cycle.



#### **©** EXCELLENT QUALITY & GOOD CONSISTENCY

- · Accuracy deviation of lap area less than  $\pm$  0.1 mm.
- $\cdot$  High parts accuracy in the overlap area of 0.1 mm.
- · Print density > 99.9%.
- · Fluctuation of mechanical properties < 5%.



#### **W** HIGH PRECISION

- · High quality laser beam and precise laser positioning control ensures stable & excellent print quality.
- The optimized design of the wind flow structure effectively removes dust and splashes, ensuring that the printing surface is bright and tidy, and the sparks are bright and consistent.



#### **©** EASY OPERATION & MAINTANCE

- · Three-stage filtration equipped with permanent filter element brings easier maintain.
- · User-friendly interface with fully automatic one click printing function.
- The build job information is displayed in real time with traceable printing parameters report.
- · The one-piece take out function ensures a high automation.



#### REAL-TIME MONITORING & HIGH SECURITY

- · Safety design, prevent mis-operation, electric shock, fire, waste and pollution.
- · Outstanding overall sealing performance, use and recovery of powder in a closed state.
- · Environment and gas source state real-time monitoring, safe and reliable.









## EP-M825 PARAMETER

Machine Model	EP-M825
Build Volume (X x Y x Z) (height incl. build plate)	825 x 825 x 1100 mm (32.5 x 32.5 x 43.3 in)
Optical System	Fiber Laser 4 / 6 / 8 / 10 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 410 cm³/h
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, etc
Power Supply	380 V, 50 / 60 Hz, 29.5 ~ 40 kW
Gas Supply	Ar / N <sub>2</sub>
Oxygen Content	≤100 ppm
Dimension (W x D x H)	8290 x 4690 x 5470 mm
Weight	35000 kg
Software	EPControl, EPHatch
Input Data Format	STL or other Convertible File

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Eplus3D www.eplus3d.com info@eplus3d.com