

EP-M400S

Large Size & High Productivity & Cost-effective
Metal Powder Bed Fusion System



EP-M400S

EP-M400S is available in four configurations: single, dual, triple and quad laser, offering the flexibility to print materials such as titanium alloy, aluminum alloy, nickel-based alloys, maraging steel, stainless steel, cobalt chrome and other materials. EP-M400S is suitable for the direct manufacturing of large-size, high-precision, high-performance components in aerospace and other industries.



« HIGH PERFORMANCE

- Three-stage filtration, which can use blow back function to remove the fume, equipped with permanent filter element.
- Excellent beam and power stability, as well as energy control strategies can inhibit porosity, micro-cracks and non-fusion defects.
- Optimized design of gas flow ensures effective removal of dust and condensate, to produce uniform printing of full-format parts.



« HIGH EFFICIENCY

- Supports four different printing configurations: single, dual, triple and quad laser.
- Independently developed processing software enables optimized scanning strategies, effectively reducing processing time.



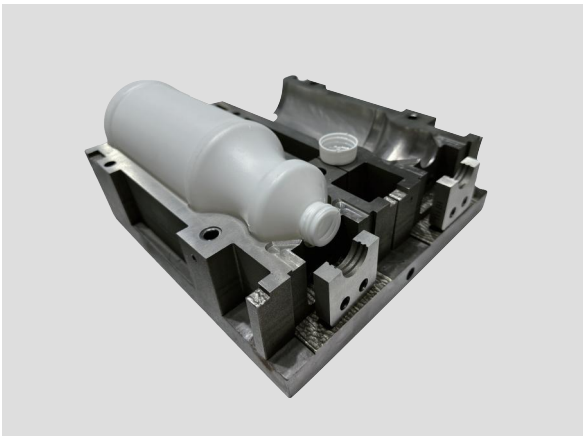
« REAL TIME MONITORING & HIGH SECURITY

- Real time monitoring of the working environment and air source status ensures safety and reliability.
- The equipment has passed the EU CE certification and FDA laser safety certification, with high safety.
- Safety design, prevent mis-operation, electric shock, fire, waste and pollution.
- Well-designed overall equipment sealing performance, maintaining closed conditions for both powder usage and recovery processes.



◀ HIGH INTELLIGENTIZATION & AUTOMATION

- User-friendly interface with fully automatic one-click printing and pickup function.
- The build job information is displayed in real time with traceable printing parameters report.



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PARAMETER

Machine Model	EP-M400S
Build Volume (X x Y x Z) (height incl. build plate)	400 x 400 x 450 mm (15.75 x 15.75 x 17.72 in)
Optical System	Fiber Laser 1 / 2 / 3 / 4 x 500 W (700 W and 1000 W are optional)
Spot Size	70 - 120 μ m
Max Scan Speed	8 m/s
Layer Thickness	20 - 120 μ m
Theoretical Printspeed	Up to 190 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, 12.5 ~ 18 kW
Gas Supply	Ar / N ₂
Oxygen Content	≤100 ppm
Dimension (W x D x H)	3530 x 1700 x 2800 mm
Weight	5000 kg
Software	EPControl, EP Hatch
Input Data Format	STL or other Convertible File

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