

# EP-M300L

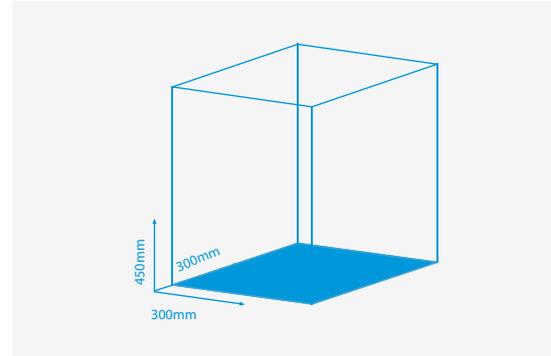
Highly Productive Metal Additive Manufacturing System  
Production-Ready Automation Line



# EP-M300L

The EP-M300L utilizes Metal Powder Bed Fusion (MPBF™) technology, featuring a build volume of 300 x 300 x 450 mm. Its innovative modular design integrates a high-efficiency multi-laser system with fully automated powder handling, enabling non-stop continuous production.

Compatible with a wide range of materials including titanium alloy, aluminum alloy, nickel alloy, maraging steel, stainless steel, cobalt-chrome, and copper alloy, the EP-M300L is an ideal choice for batch, high-efficiency, and intelligent manufacturing in tooling, 3C electronics, aerospace, and other relevant industries.



## ◀ Modular Design for Continuous Production

- Print module separated from powder recovery station.
- Build cylinder can be quickly exchanged as an independent module.
- Enables "closed-chamber reloading" for enhanced safety and efficiency.
- Maximizes Overall Equipment Effectiveness (OEE) via multi-cylinder continuous operation.



## ◀ End-to-End Automated Powder Management

- Integrated system for automated powder suction, sieving, and recycling.
- Full-process inert atmosphere protection prevents contamination and oxidation.
- Increases powder reuse rate and reduces material costs.



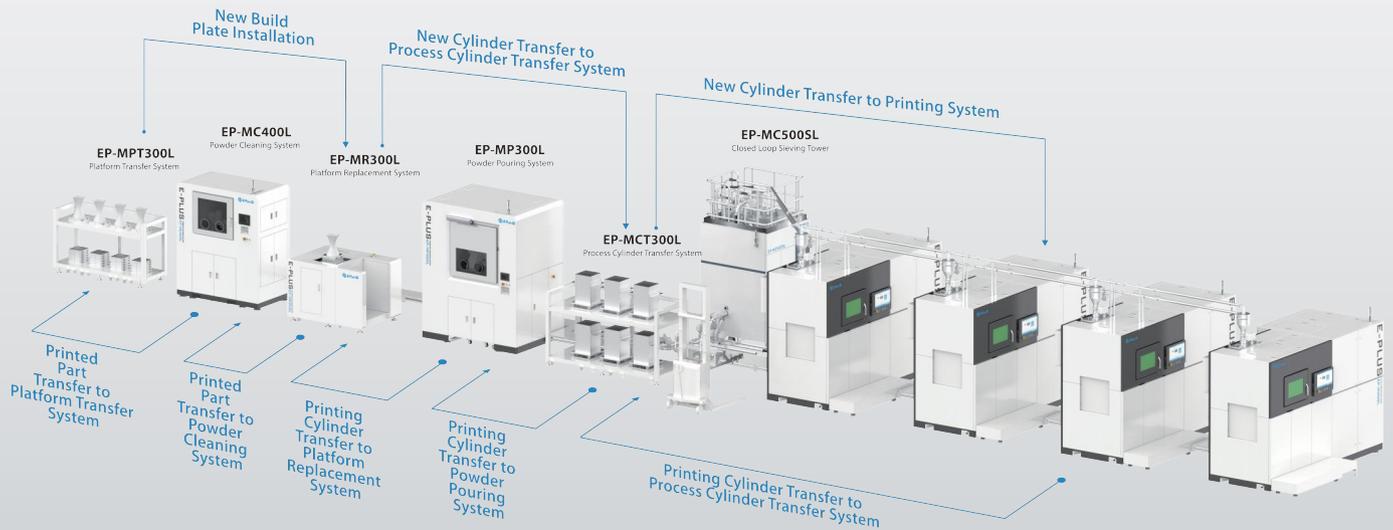
### « High-Efficiency Multi-Laser System

- Configurable with 2 / 4 / 6 lasers, optional 500 W / 700 W / 1000 W high-power lasers.
- Theoretical build rate up to 210 cm<sup>3</sup>/h.
- Intelligent optical system ensures high-speed scanning and precision.

### « Smart Production Line Ready

- Seamlessly integrates with AGVs, robotics, and MES for a "Lights-Out Factory".
- Multi-dimensional monitoring (melt pool, powder bed) for full traceability.
- Provides a complete turnkey automated production line solution.

## EP-M300L Production-Ready Automation Line



# EP-M300L

## PARAMETER

Machine Model	EP-M300L
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 2 / 4 / 6 x 500 W (700 W and 1000 W are optional)
Spot Size	70 - 120 $\mu$ m
Max Scan Speed	8 m/s
Layer Thickness	20 - 120 $\mu$ m
Theoretical Printspeed	Up to 210 cm <sup>3</sup> /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 ~ 18 kW
Gas Supply	Ar / N <sub>2</sub>
Oxygen Content	$\leq$ 100 ppm
Dimension (W x D x H)	4100 x 2400 x 2910 mm
Weight	6000 kg
Software	EPCControl, EP Hatch
Input Data Format	STL or other Convertible File

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