FS350M

Industrial AM Production Economy

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HIGHLY PRODUCTIVE SYSTEM

Featuring an expanded build cylinder of 433×358×400mm, the FS350M is capable of producing large metal parts from a wide range of powder materials. With multi-laser configuration and thicker layer process, the FS350M offers optional Beam Shaping Technology, greatly enhancing the production efficiency.

EFFICIENCY + SAFETY

Equipped with advanced multi-laser scanning strategy and calibration algorithms, the FS350M offers optimal build efficiency, and uniformed part performance in overlapping areas. The closed-loop Powder Management System, intelligent recoating control, and advanced layered gas flow design allow for efficient, yet uniformed melting process of metal powder.

COST PERFORMANCE + OPEN

The FS350M features a machine footprint as small as 6.03 sqm with an integrated Permanent Filtration System. In an additive factory setting, FS350M enables high density layout to achieve maximum throughput per floor area at economical additive production cost. Like all Farsoon machines, the FS350M is a truly open platform which offers the user a high degree of control to tailor processing parameters for industrial application requirements and costcompetitivemetal additive manufacturing.

FARSOON
TECHNOLOGIES

FARSOON FS350M

TECHNICAL DATA	FS350M-4	FS350M-6
External Dimensions (L×W×H)	3260×1850×2300 mm (128.3×72.8×90.6 in)	
Build Cylinder Size (L×W×H)	433×358×400 mm (17.1×14.1×15.7 in) (Height incl. build plate)	
Effective Build Size[1] (L×W×H)	425×350×400 mm (16.7×13.8×15.7 in) (Height incl. build plate)	
Net Weight	Approx. 3300kg (7275.3 lb)	
Layer Thickness[2]	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 10 m/s (32.8 ft/s)	
Laser Type	Fiber Lasers, 4×500W, Fiber Lasers, 4×1000W (Beam Shaping)	Fiber Lasers, 6×500W
Scanner	F theta lenses	
Inert Gas Protection	Argon/Nitrogen	
Average Inert Gas Consumption in Process	3-5 L / min	
Operating System	64 bit Windows 10	
Comprehensive Software	BuildStar, MakeStar®	
Key Software Features	Open machine key parameters, real-time build parameter modification, three-dimensional visualization, diagnostic function, support-add function	
Data File Format	STL	
Power Supply	EUR/China: 400V±10%, 3~/N/PE, 50Hz, 50A/60A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials[2]	316L, AlSi10Mg, Ti6Al4V, TA15, AlMgSc, 17-4PH*, ST1* Maraging Steel Grade 300*, more materials to come	

1 The functional build volume depends on the parts/materials.
2 Farsoon's Beam Shaping Technology can offer even larger layer thickness. Contact us for more details.
3 The materials marked with * are in the build process development.

BIKE YOKE
MATERIAL: TI6AL4V
SYSTEM: FS350M-4
PRINT TIME: 24H

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