

FS273M

A Cost-performance Solution for Robust Metal Production

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SIMPLY METAL PRODUCTION

With an industrial-sized 275×275×355mm build envelope as well as an expanded powder feeding cylinder size, FS273M offers streamlined metal production of larger volume parts with a wide range of industrial metal powder materials.

COST-PERFORMANCE

The FS273M metal laser sintering system is a high value proposition industrial production tool. Advanced digital optics system, robust controls, and truly open parameters gives users a much wider range of process capabilities. The FS273M is able to achieve highly detailed, functional parts while maintaining a price competitive advantage. Compact machine design enables denser, flexible factory layout for maximum throughput yield per floor area at an economical additive production cost.

OPERATION EASE & GOOD SERVICEABILITY

The FS273M features an integrated permanent filtration module which allows uninterrupted process for enhanced operational ease and safety. Other convenient features including pre-heated base plate, robust recoater operations, removable overflow containers, and a powder supply sufficient for a full build ensures ease of operation and good serviceability.

FARSOON FS273M

TECHNICAL DATA	FS273M	FS273M-2
External Dimension (L×W×H)	2930×1660×2390mm (115.4×65.4×94.1 in)	
Build Cylinder Size (L×W×H) (Height incl. build plate)	275×275×355 mm (10.8×10.8×14.0 in) (φ165×145 mm small circular cylinder optional)	
Effective Build Size¹ (L×W×H) (Height incl. build plate)	271×271×355 mm (10.7×10.7×14.0 in) (φ161×145 mm small circular cylinder optional)	
Net Weight	Approx. 3300 kg (7275.3 lb)	
Layer Thickness²	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 10 m/s (32.8 ft/s)	
Laser Type	Single Laser, 1×500W, Optional 1×1000W (Beam Shaping)	Dual Lasers, 2×500W, Optional 2×1000W (Beam Shaping)
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, 30A/40A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials³	Ti6Al4V, TA15, AISi10Mg, 316L, 420DS, H13, IN718, CuCrZr, Hastelloy X, CoCrMo, Maraging Steel Grade 300, 17-4PH*, AlMgSc*, AISi7Mg*, Pure Copper*, W*, Ta*, 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.

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PART: VAPING MOLD
SYSTEM: FS273M
MATERIAL: 316L

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