

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 large 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, long-lasting filtration system which allows extended operation time for longer builds and reducing the cost of filter changes. 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

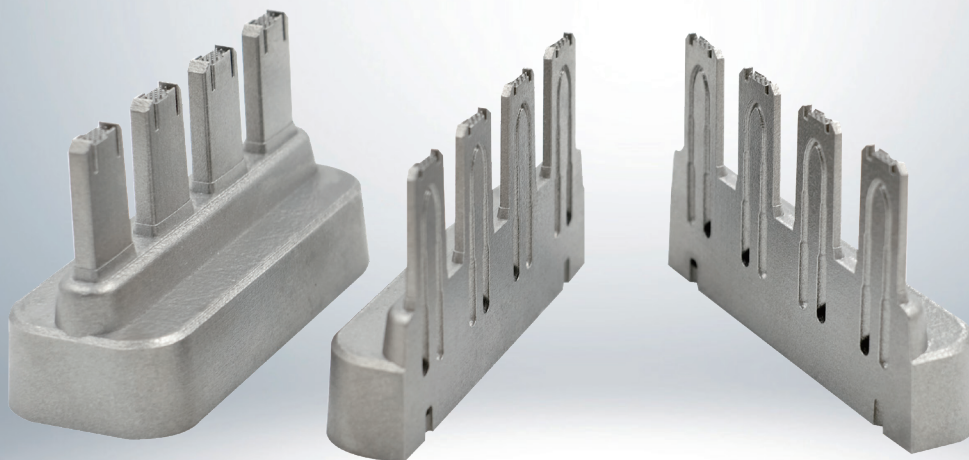
TECHNICAL DATA	FS273M	FS273M-2
External Dimension (L×W×H)	2315×1650×2105mm (91.1×65.0×82.9 in)	
Build Cylinder Size¹ (L×W×H)	275×275×355 mm (10.8×10.8×14.0 in) (not including build plate thickness)	
Net Weight	Approx. 2200 kg (4850.2 lb)	
Layer Thickness	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed²	Max. 15.2 m/s (49.9 ft/s)	
Laser Type	Single Laser, 1×500W	Dual Lasers, 2×500W
Scanner	F theta lenses or dynamic focusing system	
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 functions	
Data File Format	STL	
Power Supply	EUR/China: 400V±10%, 3□/N/PE, 50Hz, 20A (Single Laser) / 30A (Dual Laser) US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials³	316L, Maraging Steel Grade 300, HX*, AlSi10Mg, Ti6Al4V, AlMgScZr*, TA15*, AlSi7Mg*, 420*, IN718*, H13*, Pure Copper*, W*, Ta*, CuCrZr*, more materials to come	

1 The functional build volume depends on the parts/materials.

2 For different industries and customer needs, this data may vary.

3 The materials marked with * are in the build process development.

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PART: MOLD INSERTS WITH CONFORMAL COOLING
SYSTEM: FS273M
MATERIAL: MARAGING STEEL GRADE 300

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AMEA Farsoon Technologies Co., Ltd. | +86.731.8397.6198 | globalinfo@farsoon.com | No. 181 Linyu Road, Changsha National High-Tech Industrial Zone, Hunan, China

AMERICAS Farsoon Americas CORP. | +1 512-551-9901 | info@farsoonam.com | 3161 Eagles Nest Street, Suite 350, Round Rock, TX 78665

EUROPE Farsoon Europe GmbH | +49 711 13796 0 | wehelpyou@farsoon-eu.com | Liebknechtstrasse 33, 70565 Stuttgart, Germany