

FS273M

A Cost-performance Solution for Robust
Metal Production

www.farsoon.com



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

External Dimension (L×W×H)	2315×1425×2100 mm (91.1×56.1×82.7 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. 10m/s (32.8 ft/s)
Laser Type	Dual fiber lasers 2×500W, or Single fiber laser 1×500W
Scanner	High-precision digital galvo system
Laser Spot Size	Approx. 80μm contour, 80-200μm fill
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: 380-400V, 50/60Hz, three-phase US: transformer sold with machine
Operating Ambient Temperature	22-28°C (71.6-82.4°F)
Materials³	316L, Maraging Steel Grade 300, HX*, AISi10Mg, Ti6Al4V, AlMgScZr*, TA15*, AISi7Mg*, 420*, 718*, H13*, Pure Copper*, W*, Ta*, 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.

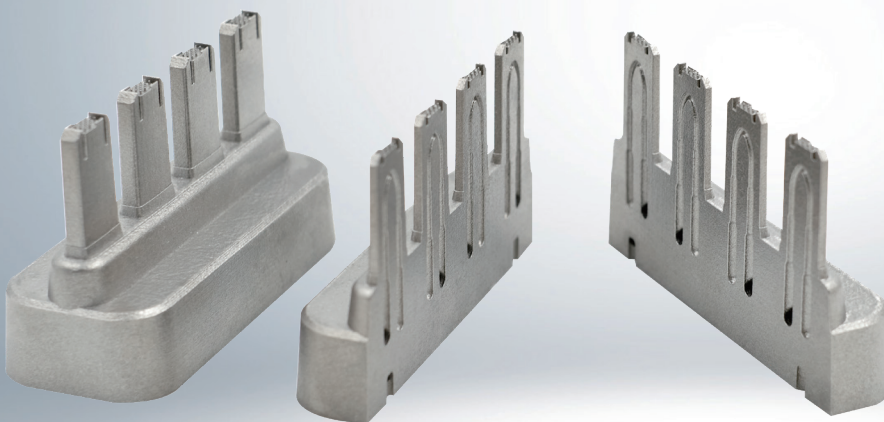
3 The materials marked with * are in the build process development.

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

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