

# FS273M

A Cost-performance Solution for Robust  
Metal Production

[www.farsoon.com](http://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 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, 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
<b>External Dimension (L×W×H)</b>	2315×1650×2105mm (91.1×65.0×82.9 in)	
<b>Build Cylinder Size<sup>1</sup> (L×W×H)</b>	275×275×355 mm ( 10.8×10.8×14.0 in ) (Height incl. build plate)	
<b>Net Weight</b>	Approx. 2200 kg ( 4850.2 lb )	
<b>Layer Thickness</b>	0.02~0.1 mm ( 0.0008-0.0039 in )	
<b>Scanning Speed<sup>2</sup></b>	Max. 15.2 m/s (49.9 ft/s)	
<b>Laser Type</b>	Single Laser, 1×500W	Dual Lasers, 2×500W
<b>Scanner</b>	F theta lenses or dynamic focusing system	
<b>Inert Gas Protection</b>	Argon/Nitrogen	
<b>Average Inert Gas Consumption in Process</b>	3-5 L / min	
<b>Operating System</b>	64 bit Windows 10	
<b>Comprehensive Software</b>	BuildStar, MakeStar®	
<b>Key Software Features</b>	Open machine key parameters, real-time build parameter modification, three-dimensional visualization, diagnostic functions	
<b>Data File Format</b>	STL	
<b>Power Supply</b>	EUR/China: 400V±10%, 3□/N/PE, 50Hz, 30A US: transformer sold with machine	
<b>Operating Ambient Temperature</b>	22-28°C ( 71.6-82.4°F )	
<b>Materials<sup>3</sup></b>	316L, 17-4PH, Maraging Steel Grade 300, 420, H13, HX*, IN718, AlSi10Mg, AlMgSc, AlSi7Mg*, Ti6Al4V, TA15, CrZrCu, Pure Copper*, CoCrMo, 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: VAPING MOLD**  
SYSTEM: FS273M  
MATERIAL: 316L

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