

# FS121M

Accessible small frame metal laser sintering system

[www.farsoon.com](http://www.farsoon.com)



## FLEXIBLE SOLUTION

The FS121M is an incredibly flexible system allowing the user to select between multiple spot sizes and recoating blades, this combined with a small footprint and reduced need for ancillary equipment allows the FS121M to match customer workspace, material and application requirements.

## PRICE & PERFORMANCE

The FS121M features a 300W or 500W fiber laser and a fully digital scanning system. These features along with a fine spot size allows for the creation of very detail and complex parts. Farsoon is dedicated to high quality utilizing premium parts for all key components and incorporates the latest safety systems with inert gas supply and over-sized protective filter systems all at a price that is accessible for any business.

## OPEN PLATFORM

Farsoon is the only laser sintering system producer that allows for complete freedom of operation of its machines. This means that machine parameters and powder choice are unlocked for the user allowing for previously-impossible levels of freedom and flexibility when it comes to MLS production.

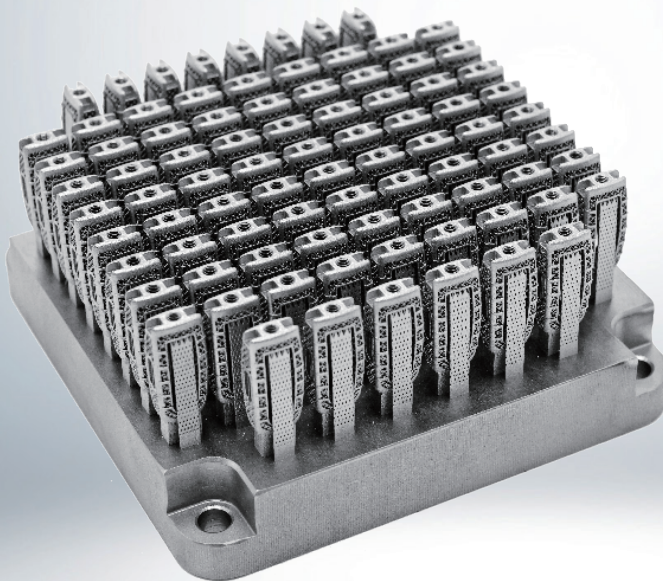


# FARSOON FS121M

TECHNICAL DATA	FS121M	FS121M-E
<b>External Dimensions</b> (L×W×H)	780×1100×1700 mm (30.7×43.3×66.9 in)	
<b>Build Cylinder Size</b> <sup>1</sup> (L×W×H)	120×120×100 mm (4.7×4.7×3.9 in) (Height incl. build plate)	
<b>Net Weight</b>	Approx.700 kg (1543.2 lb)	
<b>Layer Thickness</b>	0.02mm~0.08mm (0.0008-0.0031 in)	0.02mm~0.03mm (0.0008-0.001 in)
<b>Scanning Speed</b>	Max. 10m/s (32.8 ft/s)	
<b>Laser Type</b>	Fiber laser, 500W	Fiber laser, 300W
<b>Scanner</b>	F theta lenses	
<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: 220V±10%, 1~/N/PE, 50Hz, 14A	US: transformer sold with machine
<b>Operating Ambient Temperature</b>	22-28°C (71.6-82.4°F)	
<b>Materials</b>	316L, Ti6Al4V, more materials to come	

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

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**PART: POROUS INTERSPINAL FUSION CAGE**  
 MATERIAL: Ti6Al4V  
 SYSTEM: FS121M

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