

FS621M

Industrial Scale Metal Laser Sintering System

▶ Limited Availability



EXTRA-LARGE BUILD VOLUME WITH 1.1 METER VERTICAL AXIS

Developed with a focus on large build size, Farsoon's FS621M features one of the largest metal laser sintering build volumes on market, with a build plate size of 620×620mm and vertical axis of 1.1 meter. This expansive build envelope opens new possibilities for large-scale metal production that couldn't be built before in industries such as aerospace, oil and gas, and many others.

BUILD SPEED + HIGH QUALITY

The FS621M can be equipped with a powerful single 1000W laser or quad 500W lasers allowing for great rates of production. In addition the FS621M like all Farsoon systems is a truly open platform which offers the user a high degree of control to tailor build parameters for cost-competitive metal additive manufacturing. An advanced dynamic 3-axis scanning system, powerful build process controls & real-time recoating monitoring ensuring the best build quality.

OPTIMIZED FOR OPERATIONAL EASE

The FS621M's integrated filter module features secondary circulating system and a dual-station filter design that allows for the exchanging of filters without disturbing the build process. The FS621M powder handling processes share a common powder container design which are used during loading, unloading and sieving procedures. These containers offer fully-sealed power handling, easy transportations between the stations, and safe storage of powder. This partially closed powder system allows for the capability of continuous feeding of powder to the build while retaining the ability to easily exchange and monitor powder quality.

FARSOON FS621M

TECHNICAL DATA	FS621M	FS621M-4
External Dimensions (L×W×H)	5880×4280×3940mm (231.5×168.5×155.1 in)	
Build Cylinder Size¹ (L×W×H)	620×620×1100mm (24.4 × 24.4 × 43.3 in) (Height incl. build plate)	
Net Weight	Approx. 8000 kg (17637.0 lb)	
Layer Thickness	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 15.2 m/s (49.9 ft/s)	
Laser Type	Single Laser, 1×1000W	Quad Lasers, 4×500W
Scanner	F theta lenses or dynamic focusing system	
Inert Gas Protection	Argon/Nitrogen	
Average Inert Gas Consumption in Process	8 - 10 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, 40A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials²	HX, IN718, HAYNES 230, GH4099, TA15, AISI10Mg, Ti6Al4V, 316L, 304L, CrZrCu, IN625*, more materials to come	

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

² The materials marked with * are in the build process development.

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COMBUSTION CHAMBER OF ROCKET ENGINE
 SIZE: 600 (L)*496 (W)*558 (H) MM
 MATERIAL: IN718
 LAYER THICKNESS: 0.04MM
 MACHINE: FS621M QUAD LASERS
 PRINT TIME: 258H

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