

FS812M

10 Lasers | Industrial Scale Metal Platform with 1.7 Meter Z-AXIS

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TRUE PRODUCTION TOOL

With an 840 × 840 mm build platform and upgraded 1700mm Z-axis, the FS812M delivers a 1200-liter volume—one of the largest in the metal powder bed fusion market. The exceptional Z height unlocks new manufacturing possibilities for aerospace, oil and gas, and other largescale industrial applications. Equipped with up to 10 fiber lasers and high-speed galvo systems, it achieves high production yields. An advanced multi-laser scanning strategy ensures uniform mechanical properties across single oversized parts or high-volume batches. The system is also compatible with beam shaping technology for enhanced productivity.

QUALITY + RELIABILITY

The FS812M incorporates innovative designs that turn manufacturing goals into quality parts. A multi-layer gas flow system with advanced wind-wall design ensures realtime particle removal across the entire oversized chamber. Exceptional chamber airtightness maintains extremely low oxygen content and reduces inert gas consumption during builds—lowering operational costs while ensuring part consistency. A powerful permanent filtration system enables uninterrupted, reliable processing for extended build times.

OPERATION EASE

The FS812M features front and rear chamber doors for easy access and maintenance. An integrated conveyor transfers the part cylinder to a fully enclosed breakout station with four-sided glove box access, enabling multiple operators to safely perform powder removal under inert atmosphere. The modular powder handling system enables continuous loading, recycling, and sieving under inert gas protection - ensuring uninterrupted powder supply and simple quality monitoring. Like all Farsoon systems, the FS812M offers a truly open platform for flexible, cost-competitive industrial production.

FARSOON FS812M

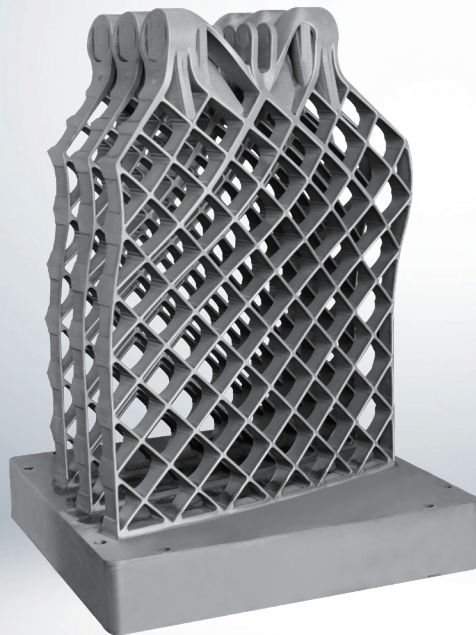
TECHNICAL DATA	FS812M-U
External Dimensions (L×W×H)	6680×4110×6500 mm (263.0×161.8×255.9 in)
Build Cylinder Size (L×W×H)	840×840×1700mm (33.1×33.1×66.9 in) (Height incl. build plate)
Effective Build Size¹ (L×W×H)	810×810×1700mm (31.9×31.9×66.9 in) (Height incl. build plate)
Net Weight	Approx. 23000 KG (50706.3 lb)
Layer Thickness²	0.02~0.1 mm (0.0008-0.0039 in)
Scanning Speed	Max. 10 m/s (32.8 ft/s)
Laser Type	Fiber Laser, 8 x 500W or 10 x 500W Fiber Laser, 10 x 1000W (Beam Shaping)
Scanner	F theta lenses
Inert Gas Protection	Argon/Nitrogen
Average Inert Gas Consumption in Process	12 - 15 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 function, support-add function
Data File Format	STL
Power Supply	EUR/China: 400V±10%, 3~N/PE, 50Hz, 70A/73A/114A US: transformer sold with machine
Operating Ambient Temperature	22-28°C (71.6-82.4°F)
Materials³	TA15, GH4099, 316L, Ti6Al4V*, AiSi10Mg*, IN718*,more materials to come

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

2 Farsoon's Beam Shaping Technology can offer even larger layer thickness. Contact us for more details.

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

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STABILIZER FIN OF ROCKET

SIZE: 750×195×1035 EACH

MATERIAL: TA15

SYSTEM: FS812M-U

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