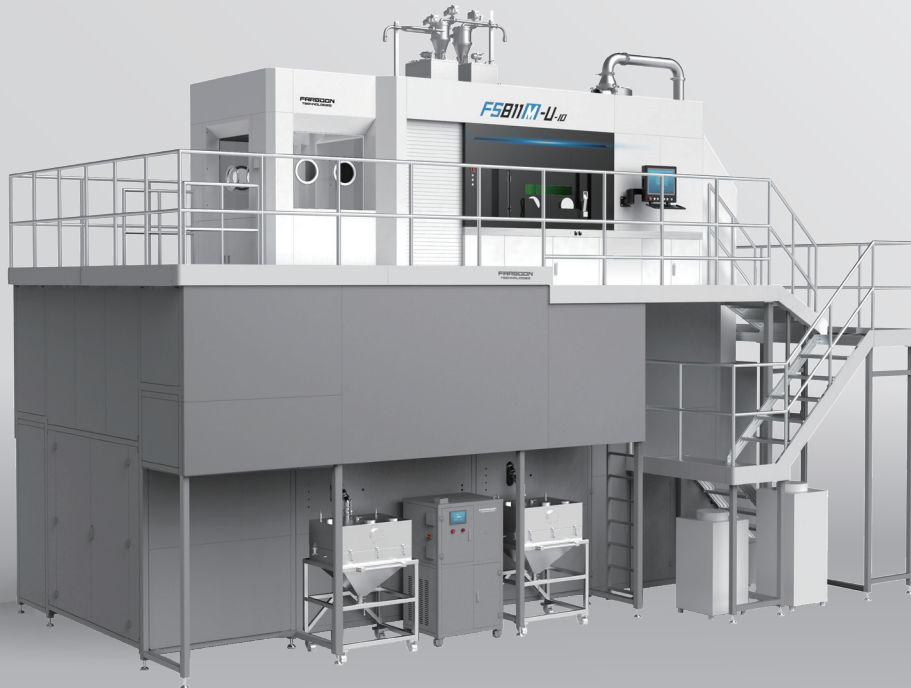


FS811M-U

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

► www.farsoon-gl.com



TRUE PRODUCTION TOOL

With an XY build platform size of 840 × 840mm and vertical axis up to 1.7 meter, the FS811M-U features an ultimate build volume of 1,200 Liters – one of the largest on metal laser powder bed fusion market. The outstanding Z height opens many new manufacturing possibilities in large-scale industrial applications favor larger Z axis such as aerospace & aviation, oil & gas and more. Equipped with up to 10 robust fiber lasers, the high-speed galvo system boosts high production yield up to 250cm³/h. The advanced multi-laser scanning strategy enables high efficiency distribution, and calibration accuracy in overlapping area for uniformed mechanical properties of a single over-sized part, or volume-production parts throughout the large build platform.

QUALITY + RELIABILITY

The FS811M-U platform features many innovative designs bringing your manufacturing dreams into quality parts. The all-new multi-layer gas flow with advanced wind-wall design ensures real-time particle removal throughout the whole oversized chamber. The excellent air tightness design of FS811M-U build chamber enables extreme oxygen content, and low inert gas consumption during the build process, ensuring the part quality consistency while reducing operational costs. The powerful permanent filtration system allows uninterrupted, reliable process for extreme build times.

OPERATION EASE

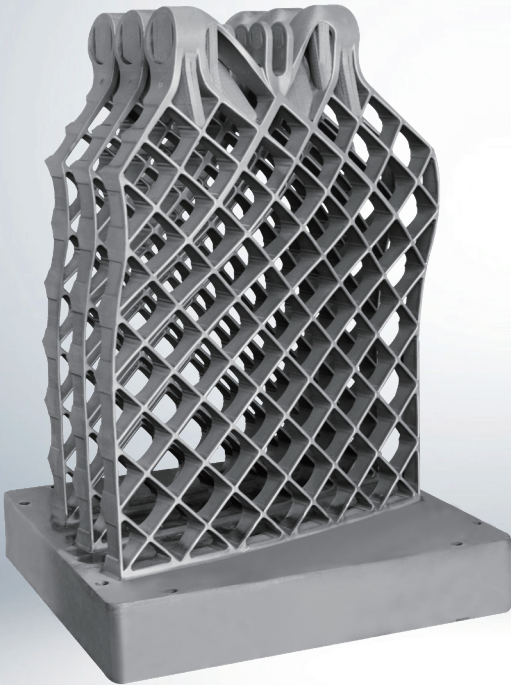
The FS811M-U build chamber is equipped with both front and rear doors for ease of operation and maintenance. Once the build is completed, the part cylinder can be transferred to powder breakout station and part extract station via an integrated conveyor system. The breakout station is fully enclosed and can be accessed through glove boxes on all 4 sides, allowing multiple operators for powder removal and detail cleaning under safe inert atmosphere. The FS811M-U powder handling system shares a common modular powder container design for loading, recycling and sieving under inert gas protection offering continuous powder supply to the build job and the ability to easily monitor powder quality.

FARSOON FS811M-U

TECHNICAL DATA		FS811M-U
External Dimensions (L×W×H)	9000×5100×6600 mm (354.3×200.8×259.8 in)	
Build Cylinder Size (L×W×H)	840×840×1700mm (33.1×33.1×66.9 in) (Height incl. build plate)	
Effective Build Size ¹ (L×W×H)	810×810×1700mm (31.9×31.9×66.9 in) (Height incl. build plate)	
Net Weight	Approx. 32000 KG (70547.9 lb)	
Layer Thickness	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 10 m/s (32.8 ft/s)	
Laser Type	Fiber Laser, 10×500W Optional 10×1000W or 10×1000W (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, 80A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials ²	TA15, Ti6Al4V, IN718, GH4099*, 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.

Many factors may affect the performance characteristics of products. We recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. Farsoon makes no warranties of any type, express or implied, including but not limited to, the warranties of merchantability or fitness for a particular use. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. Farsoon reserves the right to change the technical data without notice. Farsoon®, Buildstar®, Makestar® are registered trademarks of Farsoon Technologies. Last Change: 2025-10



STABILIZER FIN OF ROCKET
SIZE: 750×195×1035 EACH
MATERIAL: TA15
SYSTEM: FS811M-U-6 (6 × 500W)
LAYER THICKNESS: 100µm
PRINT TIME: 219H (3PCS IN ONE BUILD)

FS811M

10 Lasers | Built for True Industrial Series Production

► www.farsoon-gl.com



EXTRA-LARGE BUILD VOLUME

With a build platform size of 840×840×960mm and build volume of 677 Liters, the FS811M features one of the largest build volumes on metal laser powder bed fusion market. The extended X and Y axis as well as Z height opens many new manufacturing possibilities in large-scale industrial applications such as aerospace & aviation, oil & gas, and more. Equipped with up to 10 robust fiber lasers, the high-speed galvo system boosts high production yield up to 250cm³/h. The advanced multi-laser scanning strategy enables high efficiency distribution, and calibration accuracy in overlapping area for uniformed mechanical properties of a single over-sized part, or volume-production parts throughout the large build platform.

QUALITY + RELIABILITY

The FS811M platform features many innovative designs bringing your manufacturing dreams into quality parts. The all-new multi-layer gas flow with advanced wind-wall design ensures real-time particle removal throughout the whole oversized chamber. The excellent air tightness design of FS811M build chamber enables extreme oxygen content, and low inert gas consumption during the build process, ensuring the part quality consistency while reducing operational costs. The powerful permanent filtration system allows uninterrupted, reliable process for extreme build times.

OPERATION EASE

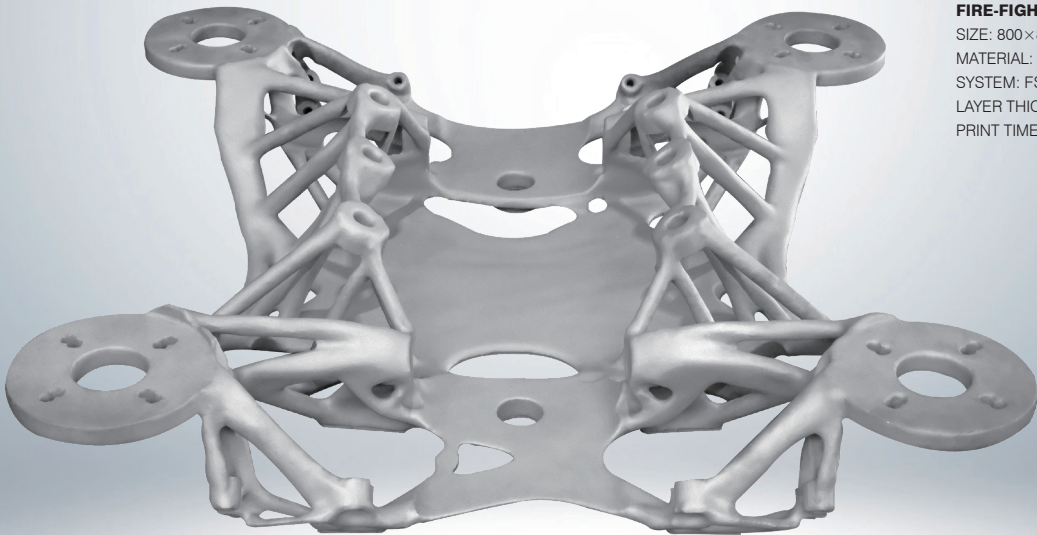
The FS811M build chamber is equipped with both front and rear doors for ease of operation and maintenance. Once the build is completed, the part cylinder can be transferred to powder breakout station and part extract station via an integrated conveyor system. The breakout station is fully enclosed and can be accessed through glove boxes on all 4 sides, allowing multiple operators for powder removal and detail cleaning under safe inert atmosphere. The FS811M powder handling system shares a common modular powder container design for loading, recycling and sieving under inert gas protection offering continuous powder supply to the build job and the ability to easily monitor powder quality.

FARSOON FS811M

TECHNICAL DATA		FS811M
External Dimensions (L×W×H)	8500×4500×4970 mm (334.7×177.2×195.7 in)	
Build Cylinder Size (L×W×H)	840×840×960mm (33.1×33.1×37.8 in) (Height incl. build plate)	
Effective Build Size ¹ (L×W×H)	810×810×960mm (31.9×31.9×37.8 in) (Height incl. build plate)	
Net Weight	Approx. 25000 KG (55115.6 lb)	
Layer Thickness	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 10 m/s (32.8 ft/s)	
Laser Type	Fiber Laser, 10×500W Optional 10×1000W or 10×1000W (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, 80A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials ²	TA15, Ti6Al4V, IN718, GH4099*, 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.

Many factors may affect the performance characteristics of products. We recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. Farsoon makes no warranties of any type, express or implied, including but not limited to, the warranties of merchantability or fitness for a particular use. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. Farsoon reserves the right to change the technical data without notice. Farsoon®, Buildstar®, Makestar® are registered trademarks of Farsoon Technologies. Last Change: 2025-10



FIRE-FIGHTING DRONE CHASSIS
SIZE: 800×800×168mm
MATERIAL: AISi10Mg
SYSTEM: FS811M-10
LAYER THICKNESS: 60μm
PRINT TIME: 94h