# **FS1521** 32 Robust Fiber Lasers | Next Generation Metal Platform with Extra-large Build Volume

Limited Availability

F5152117-U-2

## EXTRA-LARGE BUILD VOLUME

The FS1521M series boasts a standard build volume of  $\Phi$ 1530mm platform and 850mm Z-height. It is equipped standard with 16 x 500W or 32 x 500W fiber lasers boosting productivity for volume fabrication. The FS1521M-U is also offered with an extended Z-height of 1650mm enabling huge potential in oil & gas as well as aerospace applications.

### **CIRCULAR OR SQUARE BUILD CARTRIDGES**

The FS1521M series offer circular and square build cartridge configurations to meet a broad range of application needs. The FS1521M-U square cartridge features a significant build volume of 3,862 Liters – one of the largest in the metal laser powder bed fusion market.

#### **REDUCED COST FOR VOLUME PRODUCTION**

The advanced multi-laser scanning strategies offers optional modes towards efficiency, quality, and balanced performance for different manufacturing needs. FS1521M series offer maximized printing speed for large-format parts, or reduced manufacturing cost for volume series production.

### STREAMLINED POWDER HANDLING

The contact-less, closed-loop powder handling system includes powder supply, recycling and sieving, which is conducted under a fully inert gas protected system for operational safety. Thanks to the modular and redundant powder container design, the FS1521M offers continuous feeding and collection of overflow powder for an easy, streamlined powder management process.



# FARSOON FS1521M

TECHNICAL DATA	FS1521M	FS1521M-U
External Dimensions (L×W×H)	12900×6490×5360mm	13300×6510×6910mm (16 Lasers) 13800×6510×6910mm (32 Lasers)
Build Cylinder Size <sup>1</sup> (L×W×H) (Height incl. build plate)	Circular: Φ1530×850mm Square: 1530×1530×850mm	Circular: Ф1530×1650mm Square: 1530×1530×1650mm
Effective Build Size <sup>2</sup> (L×W×H) (Height incl. build plate)	Circular: Ф1510×850mm Square: 1510×1510×850mm	Circular: Φ1510×1650mm Square: 1510×1510×1650mm
Net Weight	Approx. 61000 KG	Approx. 65000 KG
Layer Thickness	0.02~0.1 mm	
Scanning Speed	Max. 10 m/s	
Laser Type	Fiber Laser, 16×500W	Fiber Laser, 16 $\times$ 500W or 32 $\times$ 500W
Scanner	F theta lenses	
Inert Gas Protection	Argon/Nitrogen	
Average Inert Gas Consumption in Process	35 - 40 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, 100	A/120A/160A US: transformer sold with machine
<b>Operating Ambient Temperature</b>	22-28°C	
Materials <sup>3</sup>	TA15, GH4099, Ti6Al4V*, IN718*, more materials to come	
Smaller cylinder options available.		

1 Smaller cylinder options available.

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

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

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#### TOROIDAL PANEL MOUNT FOR SOLAR PANEL

 ARRAY

 PART SIZE: \$\Phi1458 \times 52 MM

 SYSTEM: FS1521M-16 (16 \times 500W)

 MATERIAL: TA15

 PRINT TIME: 120 HOURS

 LAYER THICKNESS: 0.04 MM

#### www.farsoon.com

AMEA Farsoon Technologies Co., Ltd. | +86.731.8397.6198 | globalinfo@farsoon.com | No. 2710 Yuelu West Boulevard, Yuelu District, Changsha, Hunan, China AMERICAS Farsoon Americas CORP. | +1 512-551-9901 | contact@farsoonam.com | 3161 Eagles Nest Street, Suite 350, Round Rock, TX 78665 EUROPE Farsoon Europe GmbH | +49 711 13796 0 | wehelpyou@farsoon-eu.com | Liebknechtstrasse 33, 70565 Stuttgart, Germany