

# FS301M

High Quality & User - oriented Metal Machine

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## HIGHLY PRODUCTIVE

Dual-laser scanning strategy and calibration algorithms improve build efficiency by precisely controlling both lasers' operation, achieving intelligent distribution of each laser while building a single large part or multiple smaller parts. Both lasers have full coverage of the build area and can be set to use only one laser per part. An increased build cylinder volume, as compared to previous generations of machines, is well suited for larger-sized applications and improved productivity within a single build.

## ENHANCED USER OPERATION

With an integrated powder-loading dock, the material adding operation can be accomplished under an inert gas atmosphere for streamlined workflow and improved environmental safety. A shared material container is used during loading, unloading and the sieving procedures offering more convenient powder-handling and transportation between the stations.

## COMPACT MACHINE DESIGN

The FS301M features the compact machine footprint with an integrated, long-lasting filtration system. With designated operational access from only the front and rear, the FS301M achieves one of the most compact installation space requirements among similar sized powder-bed based systems on the market. In an additive factory setting, the FS301M allows for high density layouts with minimal side distance, in order to achieve maximum throughput yield per floor area at an economical additive production cost.



# FARSOON FS301M

TECHNICAL DATA	FS301M
<b>External Dimensions (L×W×H)</b>	2360×1530×2150 mm
<b>Installation Footprint (L×W×H)</b>	3500×3000×2800 mm
<b>Build Cylinder Size<sup>1</sup> (L×W×H)</b>	305mm×305mm×400 mm (not including build plate thickness)
<b>Net Weight</b>	2800 kg
<b>Layer Thickness</b>	0.02 - 0.1mm
<b>Scanning Speed</b>	Max. 15.2 m/s
<b>Laser Option</b>	Dual fiber laser, 2×500W (dual-laser with full coverage of build area by each laser) or Single fiber laser, 1×500W
<b>Scanner</b>	High-precision three-axis digital galvo system
<b>Laser Spot Size</b>	Approx. 75μm contour, 75-200μm fill
<b>Base-Plate Heating</b>	200°C
<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>PLC</b>	Siemens
<b>Data File Format</b>	STL
<b>Power Supply</b>	EUR/China: 380-400V, 50/60Hz, three-phase US: transformer sold with machine
<b>Operating Ambient Temperature</b>	22-28°C
<b>Materials</b>	FS AlSi10Mg, FS Ti6Al4V, FS 316 L, more materials to come

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

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PART: GEARBOX MOUNT  
SIZE: 275×245×191MM  
MATERIAL: FS ALSI10MG  
SYSTEM: FS301M

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