Beam Shaping Option

FS1311M

Production-Ready Metal AM for most Demanding Large-scale Parts

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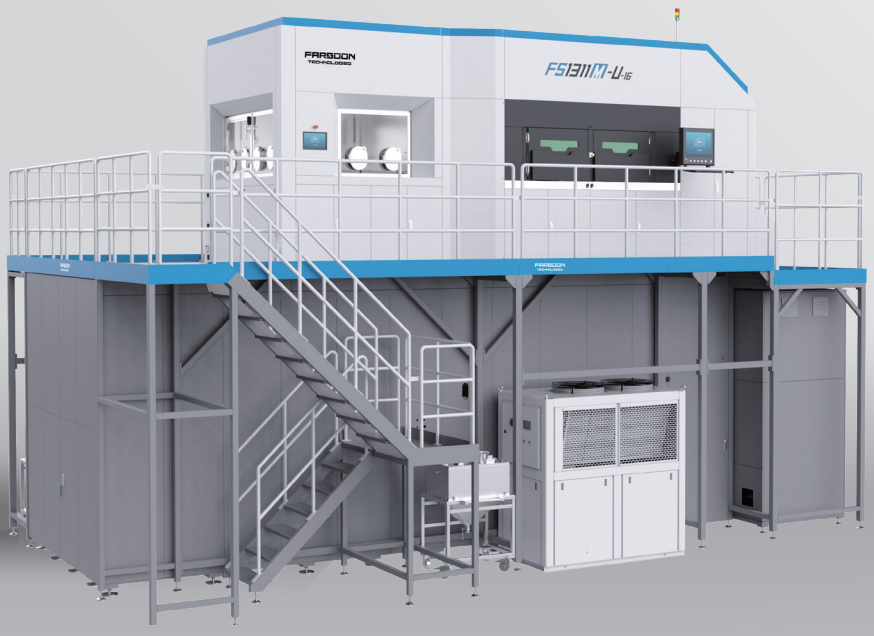

MAXIMIZE THROUGHPUT

The FS1311M features a massive 1340 x 1340 x 1650 mm build volume, enabling the production of your largest parts in a single piece. Powered by 16 high-speed lasers, it delivers game-changing throughput to meet the most demanding production schedules. The system is also compatible with innovative beam shaping technology, further enhancing manufacturing productivity and capability. Its compact machine design minimizes floor space usage, directly boosting revenue per square meter.

REPEATABLE QUALITY, PART BY PART

Scaling up does not mean compromising quality. An advanced gas flow system ensures a stable printing environment across the entire build area, delivering uniform part properties regardless of size. Precision multi-laser calibration guarantees consistent mechanical performance in every component, while a permanent filtration system supports long-duration builds with minimal downtime. Closed-loop material handling, conducted under a fully inert atmosphere, significantly reduces waste and ensures safe operation.

ADVANCED PROCESS CONTROL

With an open parameter strategy, you have the freedom to create customized parameter sets for proprietary applications. An integrated machine vision system enables real-time process monitoring and defect detection, helping to significantly boost yield and reduce cost-per-part.

FARSOON TECHNOLOGIES

FARSOON FS1311M

TECHNICAL DATA	FS1311M
External Dimensions (L×W×H)	9500×6000×6500 mm (374.0×236.2×255.9 in)
Build Cylinder Size (L×W×H)	1340×1340×1650 mm (52.8×52.8×65.0 in) (Height incl. build plate)
Effective Build Size[1] (L×W×H)	1310×1310×1650 mm (51.6×51.6×65.0 in) (Height incl. build plate)
Net Weight	Approx. 52000 KG (114640.4 lb)
Layer Thickness[2]	0.02~0.1 mm (0.0008-0.0039 in)
Scanning Speed	Max. 10 m/s (32.8 ft/s)
Laser Type	Fiber Laser, 16×500W Fiber Laser, 16 x 1000W (Beam Shaping)
Scanner	F theta lenses
Inert Gas Protection	Argon/Nitrogen
Average Inert Gas Consumption in Process	25 - 35 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, support-add function
Data File Format	STL
Power Supply	EUR/China: 400V±10%, 3~/N/PE, 50Hz, 108A/158A US: transformer sold with machine
Operating Ambient Temperature	22-28°C (71.6-82.4°F)
Materials[3]	TA15, GH4099, AiSi10Mg*, 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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