Beam Shaping Option

FS191M

Compact, Versatile Metal Additive Manufacturing System

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COMPACT & VERSATILE SOLUTIONS

The FS191M offers a ϕ195×220 mm (6.57L) build cylinder size with a powerful 500W fiber laser, making it ideal for pilot projects and small-batch production. For R&D and high temperature applications, the optional ϕ80×100 mm and ϕ80×90 mm build platforms reduce material costs and increases flexibility. Users can switch between platforms for validation and production. With a compact 0.88m² footprint, it fits conveniently into office environments for versatile deployment.

COST-EFFECTIVE PERFORMANCE

The FS191M delivers precision and efficiency with key features like a high-precision F-Theta lens, integrated filtration, real-time in-chamber monitoring, innovative recoater design, and advanced control card. Its open parameter strategy allows full customization, making it a flexible choice for various industries.

ADVANCED TECHNOLOGIES FOR R&D

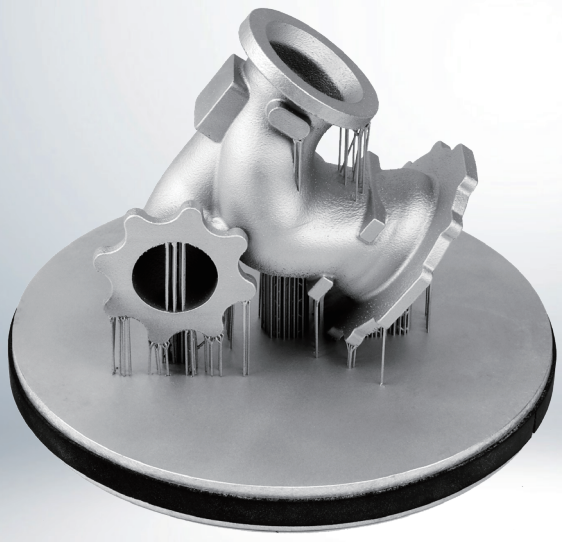
Designed for research-driven applications, the FS191M offers high precision and success rates with unique add-on modules and capabilities like SRS (Support Reduction System), high-resolution melt pool monitoring, powder surface flatness measurement, Beam Shaping Technology, and a high-temperature build plate.

FARSOON TECHNOLOGIES

FARSOON FS191M

TECHNICAL DATA	FS191M
External Dimensions (L×W×H)	1100×800×2000 mm (43.3×31.5×78.7 in)
Build Cylinder Size[1] (L×W×H) (Height incl. build plate.)	Φ195×220 mm (Φ7.68×8.66 in) (Optional R&D platform: Φ80×100mm, High-temperature platform: Φ80×90mm)
Effective Build Size (L×W×H) (Height incl. build plate.)	Φ191×220 mm (Φ7.52×8.66 in) (Optional R&D platform: Φ78×100mm, High-temperature platform: Φ78×90mm)
Net Weight	Approx.600 kg (1322.8 lb)
Layer Thickness[2]	0.02mm~0.1mm (0.0008-0.0039 in)
Scanning Speed	Max. 10m/s (32.8 ft/s)
Laser Type	Fiber laser, 1×500W, Fiber laser, 1×500W (Beam Shaping)
Scanner	F theta lenses
Inert Gas Protection	Argon/Nitrogen
Average Inert Gas Consumption in Process	1-5 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: 220V±10%, 1~/N/PE, 50Hz, 30A US: transformer sold with machine
Operating Ambient Temperature	22-28°C (71.6-82.4°F)
Materials[3]	Ti6Al4V, AlSi10Mg, 316L*, Maraging Steel Grade 300*, CoCrMo, CuSn10*, W*,Ta*, 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.



Pump (SRS & Beam Shaping Technology)
MATERIAL: AlSi10Mg
SYSTEM: FS191M

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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 70316325822 | wehelpyou@farsoon-eu.com | Industriestraße 5/1, 71069 Sindelfingen, Germany