# 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.

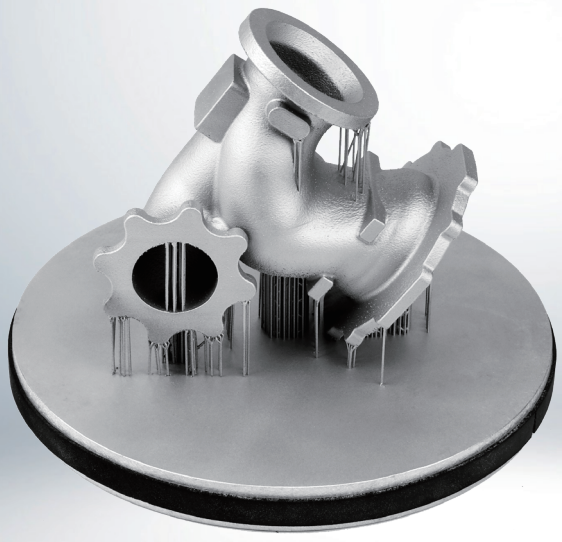
FARSOON TECHNOLOGIES

# 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)<br>(Height incl. build plate.) | Φ195×220 mm ( Φ7.68×8.66 in )<br>(Optional R&D platform: Φ80×100mm,<br>High-temperature platform: Φ80×90mm) |
| **Effective Build Size** (L×W×H)<br>(Height incl. build plate.) | Φ191×220 mm ( Φ7.52×8.66 in )<br>(Optional R&D platform: Φ78×100mm,<br>High-temperature platform: Φ78×90mm) |
| **Net Weight** | Approx.600 kg ( 1322.8 lb ) |
| **Layer Thickness** | 0.02mm~0.1mm ( 0.0008-0.0039 in ) |
| **Scanning Speed** | Max. 10m/s ( 32.8 ft/s ) |
| **Laser Type** | Fiber laser, 1×500W |
| **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**[2] | Ti6Al4V, AlSi10Mg, 316L*, Maraging Steel Grade 300*, more materials to come |

1 Customizable build cylinder size (<195mm). The functional build volume depends on the parts/materials.
2 Some functions are required for active metal material printing, please contact your sales manager for details.
The materials marked with * are in the build process development.





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

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