METAL

Limited Availability

Designed for Large-Format Metal Production

FS721M

> PRODUCTION READY

Developed with an industry-leading build volume of 720×420×420mm, combined with powerful dual or quad 500W laser options, the FS721M is able to achieve significantly increased throughput for large-scale parts or extended industrial series production.

> PRECISION + QUALITY

Farsoon's advanced software control and precise scanning system offer uniform performance in multi-laser overlap zones. Continuous powder feeding, optimized gas flow and integrated filter module enable the uniform melting process of metal material. Powerful build process controls & real-time re-coating monitoring ensure the optimal industrial build quality.

> EASE OF USE

The FS721M's integrated conveyer system, breakout station and advanced powder handling system allow for an efficient and safe build cylinder transportation and fully-sealed depowdering process. Features such as advanced calibration and electric leveling offer streamlined workflow. The FS721M is a truly open platform offers the user flexibility to tailor processing parameters for industrial applications and costcompetitive metal additive manufacturing.

AEROSPACE ROCKER ARM

MATERIAL: FS 316L

SYSTEM: FS721M

The aerospace rocker arm is topology optimized with the size of 665×60×240mm. It is produced in a single piece by Farsoon's large-format metal laser sintering system FS721M. Compared to traditional machining part, this 3D printed part ensures the equivalent mechanical property and structural strength but weight reduction by 35%.

TECHNICAL DATA	FS721M
External Dimensions (L×W×H)	5200×2800×3900mm
Build Cylinder Size[1] (L×W×H)	720×420×420 mm (not including build plate thickness)
Net Weight	Approx. 5500 kg
Layer Thickness	0.02 - 0.1mm
Scanning Speed	Max. 10.0 m/s
Laser Type	Dual Lasers, 2×500W or Quad Lasers, 4×500W
Scanner	High-precision digital galvo system
Laser Spot Size	Approx. 70μm contour, 70-200μm fill
Inert Gas Protection	Argon/Nitrogen
Average Inert Gas Consumption in Process	＜5 L / min
Operating System	64 bit Windows10
Comprehensive Software	BuildStar, MakeStar®
Key Software Features	Open machine key parameters, real-time build parameter modification, three-dimensional visualization, diagnostic functions
Data File Format	STL
Power Supply	EUR/China: 380-400V, 50/60Hz, three-phase US: transformer sold with machine
Operating Ambient Temperature	22-28°C
Materials[2]	FS 316L, FS TA15, FS Ti6Al4V, FS AlSi10Mg*, FS IN718*, FS GH3536*, FS 18Ni300*, more materials to come

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

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