FS721M

Designed for Large-Format Metal Production

Limited Availability

PRODUCTION READY

Developed with an industry-leading build volume of 720×420×420mm, combined with powerful dual or quad 500-watt laser options, Farsoon's 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 allows uniformed performance in multi-laser overlap zones. Continuous powder feeding, optimized gas flow and integrated filter module allows for uniformed melting process of metal powder. Powerful build process controls & real-time re-coating monitoring ensuring the top industrial build quality.

EASE OF USE

The FS721M's integrated conveyer system, breakout station and advanced powder handling system allows for an efficient and safe build cylinder transportation and fully-sealed de-powdering process. Features such as advanced calibration and electric leveling allow for streamlined workflow. In addition like all Farsoon machines the FS721M is a truly open platform which offers the user a high degree of control to tailor processing parameters for industrial application requirements or cost-competitive metal additive manufacturing.

FARSOON TECHNOLOGIES

FARSOON FS721M

TECHNICAL DATA	FS721M	FS721M-4
External Dimensions (L×W×H)	5200×2800×2400mm (204.7×110.2×94.5 in)	
Build Cylinder Size[1] (L×W×H)	720×420×420 mm (28.3×16.5×16.5 in) (not including build plate thickness)	
Net Weight	Approx. 5500 kg (12125.4 lb)	
Layer Thickness	0.02~0.1 mm (0.0008-0.0039 in)	
Scanning Speed	Max. 10.0 m/s (32.8 ft/s)	
Laser Type	Dual Lasers, 2×500W	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 Windows 10	
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 (71.6-82.4°F)	
Materials[2]	316L, TA15, Ti6Al4V, AlSi10Mg*, IN718*, HX*, Maraging Steel Grade 300*, 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.

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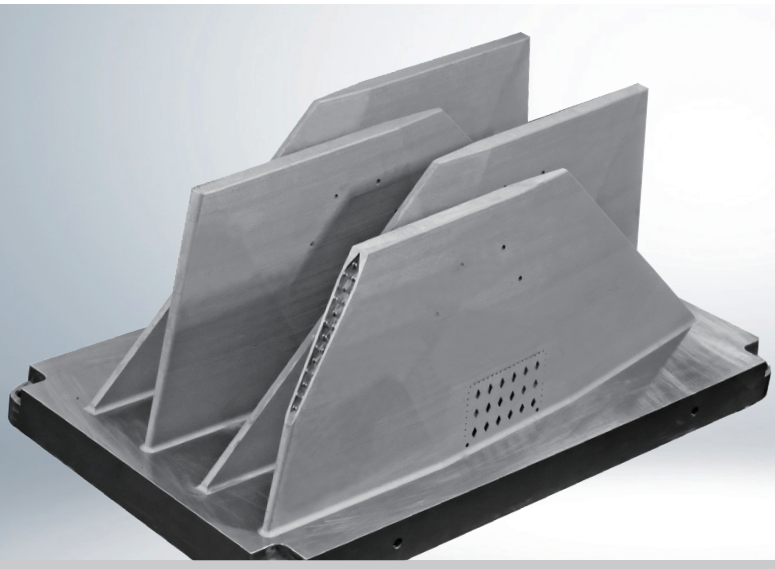

PART: WING RUDDER WITH LIGHT WEIGHT STRUCTURE
SIZE: 665 (L)*55(W)*252(H)MM EACH
MATERIAL: IN718
SYSTEM: FS721M-4
LAYER THICKNESS: 0.03MM
PRINT TIME: 250 H