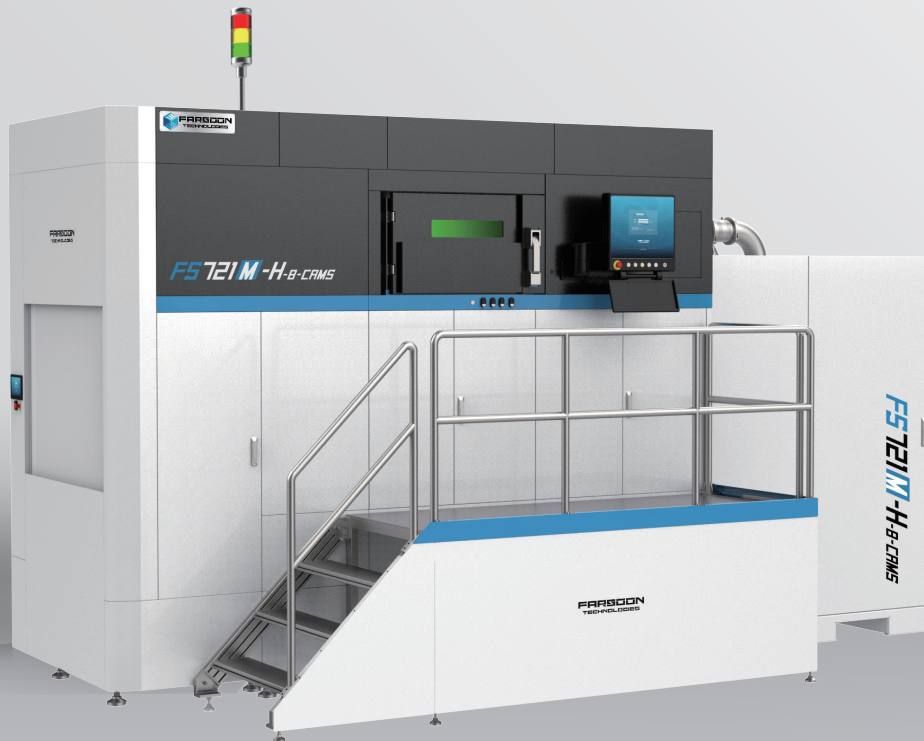


FS721M-CAMS

Continuous Additive Manufacturing Solution

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LARGE-FORMAT BUILD SOLUTION

The FS721M-CAMS is the large-format metal laser powder bed fusion system integrated with the CAMS concept offering continuous production capability. Combined with its expanded rectangular build size of 720 x 420 x 650 mm, the FS721M-CAMS is the ultimate series manufacturing tool for large-format applications in automotive, tooling, and other manufacturing industries.

SERIES PRODUCTION CAPABILITIES

Equipped with a large build cylinder, powerful eight 1000W fiber lasers, and a highly efficient digital scanning system, the FS721M-CAMS can boost productivity targeting series manufacturing. The integrated conveyor system and exchangeable cartridge strategy of the FS721M-CAMS enable continuous production capability and intensive manufacturing turnovers with minimal machine downtime between the build jobs.

QUALITY + REPEATABLE PARTS

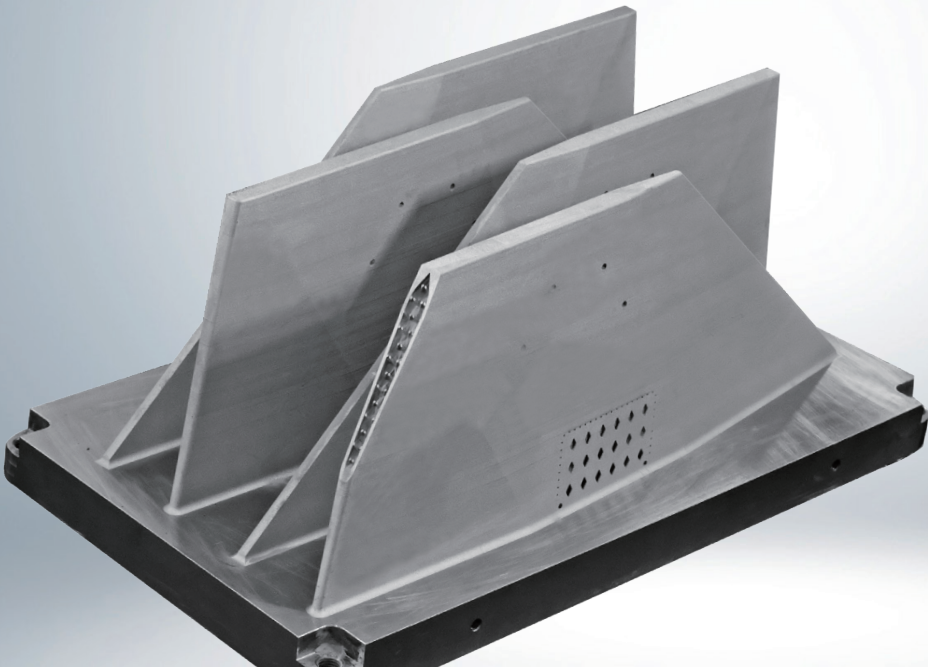
The FS721M-CAMS features many features and capabilities for enhanced part quality and repeatability, like high-performance digital optics, customized multi-laser scanning strategies, and process parameters for higher productivity and uniformed performance in multi-laser overlapping zones. The advanced closed-loop powder handling system and an integrated permanent filtration module are offered for enhanced operational ease and safety. The FS721M-H-8-CAMS offers Beam Shaping Technology, greatly enhancing the production efficiency.

FARSOON FS721M-CAMS

TECHNICAL DATA	FS721M-H-8-CAMS	FS721M-8-CAMS
External Dimensions (L×W×H)	5300×3320×3100 mm (208.7×130.7×122.1 in)	5700×1550×2500 mm (224.4×61.0×98.4 in)
Build Cylinder Size (L×W×H) (Height incl. build plate)	720×420×650 mm (28.3×16.5×25.6 in)	720×420×390 mm (28.3×16.5×15.4 in)
Effective Build Size ¹ (L×W×H) (Height incl. build plate)	712×412×650 mm (28.0×16.2×25.6 in)	712×412×390 mm (28.0×16.2×15.4 in)
Net Weight	Approx. 8500 kg (18739.3 lb)	Approx. 4500 kg (9920.8 lb)
Layer Thickness ²	0.02~0.2mm (0.0008-0.0079 in)	0.02~0.1mm (0.0008-0.0039 in)
Scanning Speed	Max. 10.0 m/s (32.8 ft/s)	
Laser Type	Eight Lasers, 8×1000W	
Scanner	F theta lenses	
Inert Gas Protection	Argon/Nitrogen	
Average Inert Gas Consumption in Process	6-8 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: 400V±10%, 3~/N/PE, 50Hz, 60A/80A US: transformer sold with machine	
Operating Ambient Temperature	22-28°C (71.6-82.4°F)	
Materials ³	316L, TA15, Ti6Al4V, AISi10Mg, Al5250, 17-4PH*, IN718*, HX*, Maraging Steel Grade 300*, 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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WING RUDDER WITH LIGHT WEIGHT STRUCTURE
SIZE: 665 (L)*55(W)*252(H)MM EACH
MATERIAL: IN718
SYSTEM: FS721M-H-8-CAMS

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