FS421M

Continuous Additive Manufacturing System

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DESIGNED FOR PRODUCTION

The FS421M additive metal melting system is a true manufacturing systems capable continuous production. With its 425x425x420mm build cylinder the FS421M is capable of producing large metal parts from a wide range of metal powder materials. The large build volume combined with a multi-laser and fully digital optics system enable enhanced production speed while the internal rail system enables the fast exchange of cylinders between builds.

EFFICIENCY + SAFETY

The FS421M comes equipped with an all new closed looped powder handling system. Powder supply, transport, feeding, and recycling are all integrated into one inert system. The FS421M's powerful and highly efficient air filtration systems allows for the processing of reactive materials while it's high capacity and auto-cleaning capability allows for extended use between filter changes.

OPEN SYSTEM

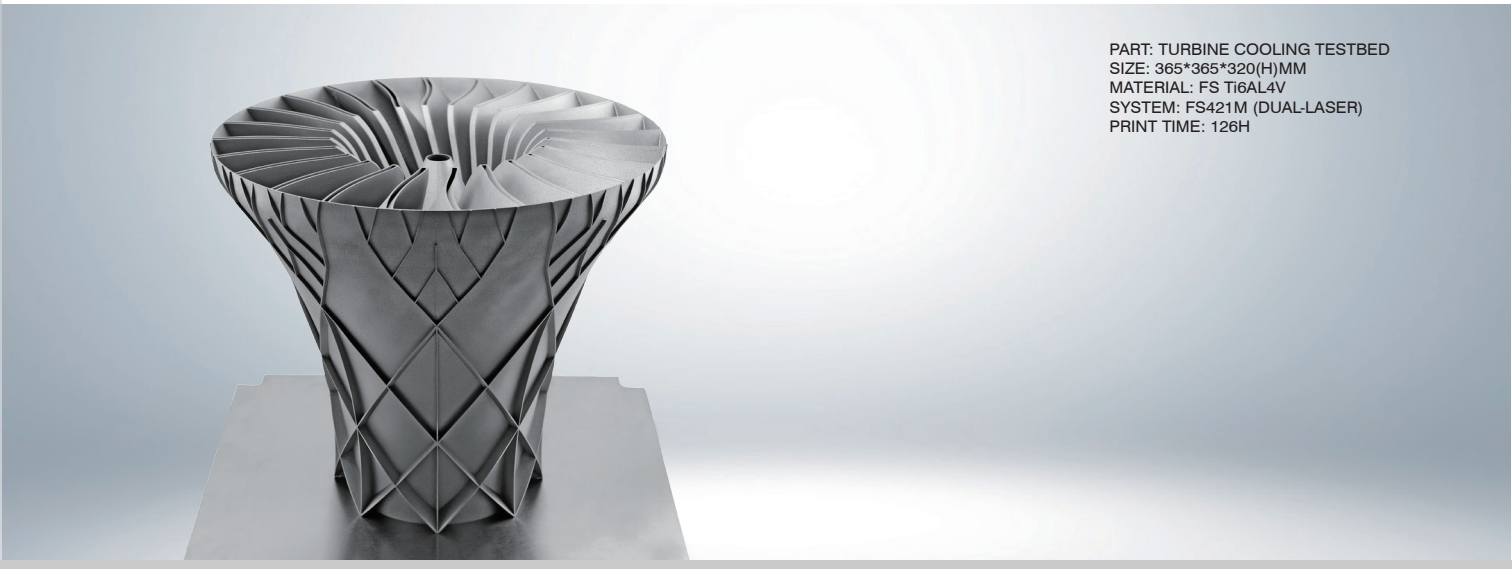
The FS421M like all Farsoon systems allows for complete freedom of operation by its users. This means that all machine parameters are unlocked for the user as well as an open material policy allowing for previously-impossible levels of freedom and flexibility when it comes to additive metal melting production. In addition, the in house Farsoon software allows for ease of use with both an advanced user interface as well as a touch screen based production interface for everyday use.

FARSOON TECHNOLOGIES

FARSOON FS421M

TECHNICAL DATA	FS421M
External Dimensions (L×W×H)	2700×1290×2290 mm
Build Cylinder Size[1] (L×W×H)	425×425×420 mm (including build plate thickness)
Net Weight	Approx. 3450kg (Single-laser) / 3500kg (Dual-laser)
Layer Thickness	0.02~0.1 mm
Scanning Speed	Max. 15.2 m/s
Laser Type	Dual fiber laser, 2×500W or Single fiber laser, 1×500W
Scanner	High-precision three-axis digital galvo system
Focus Diameter	Approx. 70um, defocusing spot diameter 70-200um
Average Inert Gas Consumption in Process	<3 L / min. (Argon/Nitrogen)
Operating System	64 bit Windows 7
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, 15KVA, three-phase US: transformer sold with machine
Operating Ambient Temperature	22-28°C
Materials	FS AlSi10Mg、FS Ti6Al4V

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



PART: TURBINE COOLING TESTBED
SIZE: 365*365*320(H)MM
MATERIAL: FS Ti6AL4V
SYSTEM: FS421M (DUAL-LASER)
PRINT TIME: 126H

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