HT1001P-2

Continuous Additive Manufacturing Solution

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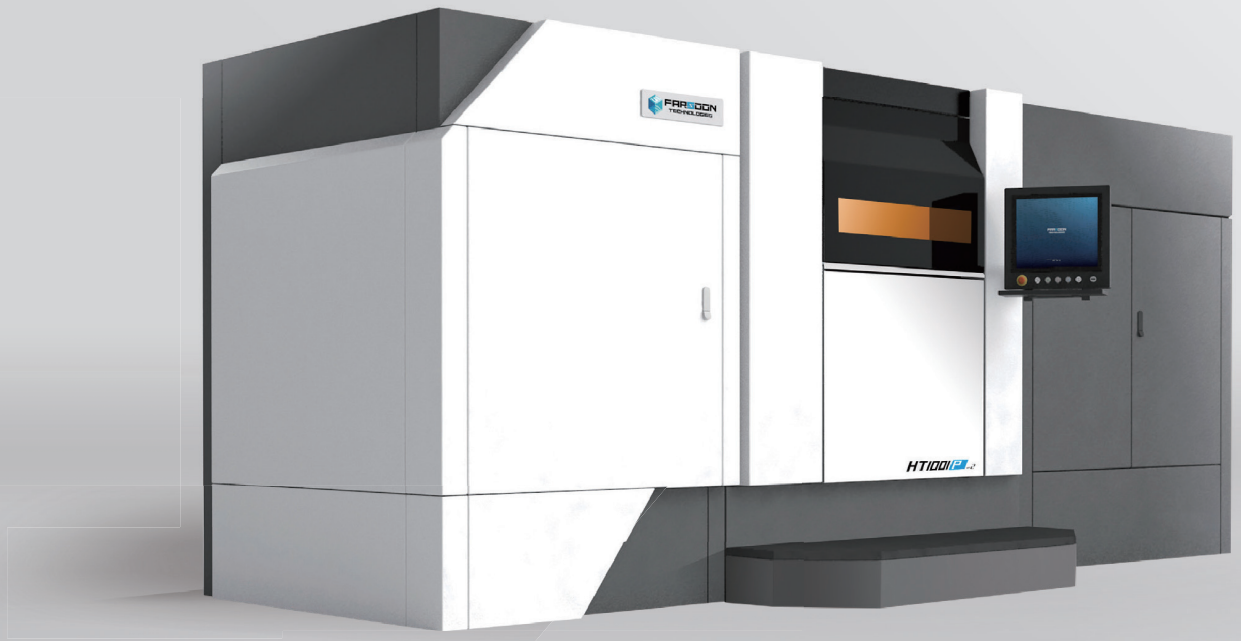


DESIGNED FOR PRODUCTION

The HT1001P-2 CAMS system was designed from the ground up with manufacturing in mind. With continuous batch production capability, the HT1001P-2 allows intensive manufacturing cycles with little down time between builds. The systems throughput is also enhanced with a high efficiency top-feed system as well as fully digital multi-laser scanning capability. The HT1001P-2 has also been designed with a comprehensive powder handling system featuring a closed loop powder system with increased automation and little need for operator interaction with the powder supply. With the HT1001P-2 the additive industry is ready to take the next steps towards true manufacturing.

ENHANCED CAPABILITIES

The HT1001P-2 offers production capabilities for its users beyond the current state of the art. The large 1000x500x450 build cylinder allows for unparalleled production of numerous small parts or that of large parts without the need for joining or gluing. The HT1001P-2 is also capable of a greater temperature range than current SLS systems with build chamber temperature capable of reaching 220°C allowing for the processing of high performance materials such as PA6 and PA12.

OPEN AND MODULAR

The HT1001P-2 like all Farsoon systems is fully open. This means that Farsoon machines like other truly industrial manufacturing systems have open parameters as well as an open material model. In addition, the HT1001P-2's modular design allows for the easy addition of future stations for pre and post processing as well as integration into existing production lines.

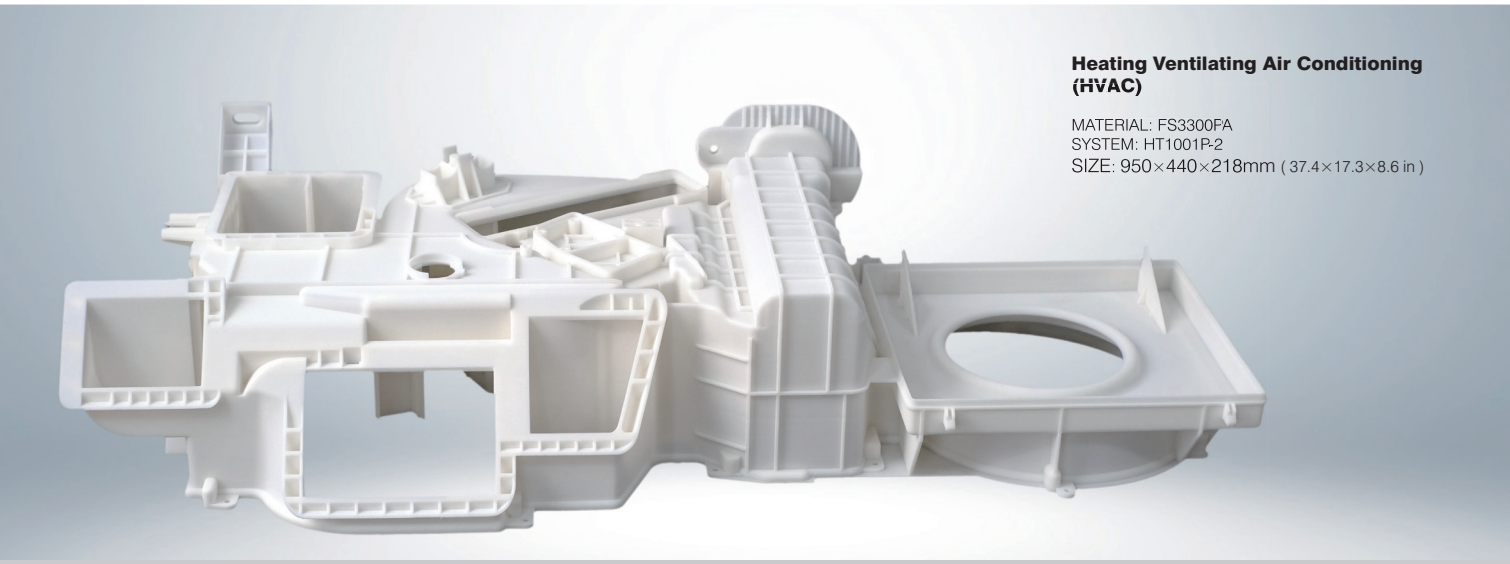
FARSOON TECHNOLOGIES

Provided by: NovaStar SOLUTIONS

FARSOON HT1001P-2

TECHNICAL DATA	HT1001P-2
External Dimensions (L×W×H)	4290×2375×2185 mm (Full Module) (168.9×93.5×86.0 in), 2740×2375×2185 mm (Build Station only) (107.9×93.5×86.0 in)
Build Cylinder Size[1] (L×W×H)	1000×500×450 mm (39.4×19.7×17.7 in)
Net Weight	Approx. 5000 KG (11023.1 lb) (Full Module) / 3500KG (7716.2 lb) (Build Station only)
Laser Type	Dual CO_2 laser, 2×100W
Scanner	High-precision three-axis digital galvo system
Layer Thickness	0.06~0.3 mm (0.0024-0.0118 in)
Volume Build Rate[2]	Up to 15 L/h
Scanning Speed	Max. 15.2 m/s (49.9 ft/s)
Max. Chamber Temperature	220°C (428°F)
Thermal Field Control	Multi-zone heater & Intelligent temperature control systems
Temperature Regulation	Continuous real-time build surface temperature monitoring & optimization
Operating System	64 bit Windows 10
Comprehensive Software	BuildStar, MakeStar®
Data File Format	STL
Key Software Features	Open machine key parameters, real-time build parameter modification, three-dimensional visualization, diagnostic functions
Inert Gas Protection	Nitrogen
Power Supply	EUR/China: 400V±10%, 3~/N/PE, 50/60Hz, 50A US: transformer sold with machine
Operating Ambient Temperature	22-28°C (71.6-82.4°F)
Materials[3]	FS3300PA, FS3401GB, FS4100PA, FS3150CF, FS3250MF,FS6140GF, WANFAB-PU95AB, Ultrasint® TPU 88A black, FS1092A-TPU*, FS1088A-TPU*, Ultrasint® PA6*, Ultrasint® PP nat 01*, more materials to come

1 The functional build volume depends on the parts/materials.
2 Volume build rate depends on the parts/materials.
3 The materials marked with * are in the build process development.



Heating Ventilating Air Conditioning (HVAC)

MATERIAL: FS3300PA
SYSTEM: HT1001P-2
SIZE: 950×440×218mm (37.4×17.3×8.6 in)

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