FLIGHT® HT1001P

×4 Laser | ×3 Power | ×3 Volume[1] | Ultimate System for Productivity

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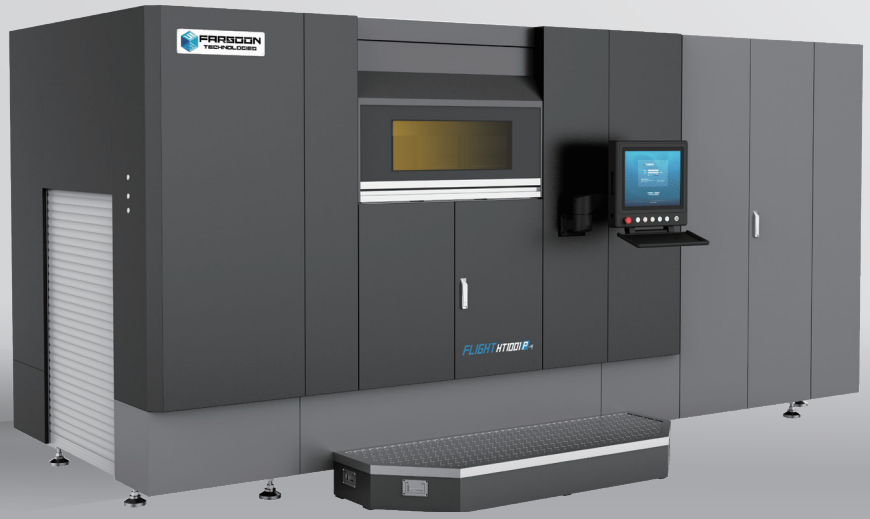


QUAD-FIBER LASER FOR MAXIMUM PRODUCTIVITY

The innovative application of high-speed Flight® Technology on HT1001P CAMS platform boosts industry-leading productivity for large-sized parts. Featuring expanded build cylinder measuring 1000mm×500mm×450mm and powerful quad 300-watt fiber lasers, the Flight® HT1001P creates four ultra-fine laser spots with fast scanning speed of up to 20m/s (66ft/s) for each; the continuous batch production capability significantly improves machine uptime and offers maximum throughput yield per floor area within the same time frame.

QUALITY ENGINEERING PARTS

The Flight® HT1001P is capable of achieving chamber temperatures of up to 220 °C to process high-temperature engineering materials such as PA6 for direct-use end parts. With patented multi-zone heater & intelligent temperature control system, the Flight® HT1001P can achieve an uniform thermal distribution throughout the platform ensuring the consistent mechanical properties and surface quality of the build parts.

POWDER MANAGEMENT

Designed for industrial-scale manufacturing, the Flight® HT1001P system is featured with a comprehensive, closed-loop powder handling system with increased level automation and minimal operator interaction with the powder. Highly efficient top-feeding powder delivery, robust roller re-coating system and fully enclosed de-powdering station enables streamlined material workflow with improved productivity, safety and operation ease.

OPEN & MODULAR

The Flight® HT1001P like all Farsoon systems is fully open. This means Farsoon system is an open material model. Besides a list of standard material config files ready for serial production, users have full access to a wide range of key parameters for tuning customized processing parameters from third party engineering materials. In addition, the Flight® HT1001P's modular design allows for the easy addition of future stations for pre and post processing as well as integration into existing production lines.

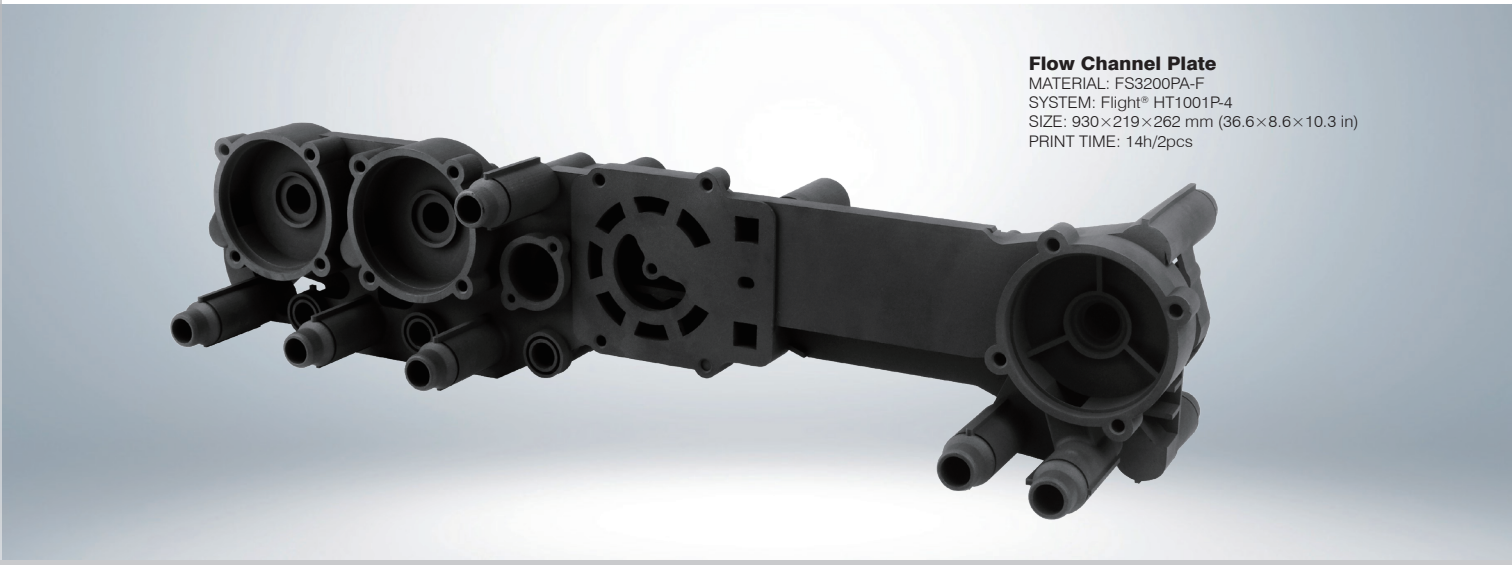
FARSOON TECHNOLOGIES

FLIGHT HT1001P

FARSOON FLIGHT® HT1001P

TECHNICAL DATA	FLIGHT® HT1001P-4
External Dimensions (L×W×H)	5820×2375×2185 (Full Module) (229.1×93.5×86.0 in) , 2960×2375×2185 mm (Build Station only) (116.5×93.5×86.0 in)
Build Cylinder Size[2] (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	Fiber Laser, 4×300W
Scanner	High-precision three-axis galvo system
Layer Thickness	0.06~0.3 mm (0.0024-0.0118 in)
Scanning Speed	Max. 20 m/s (66 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]	FS3200PA-F, FS3201PA-F, FS3401GB-F, FS6140GF-F*, FS6130CF-F*, WANFAB-PU95AB, Ultrasint® TPU 88A black, LUVOSINT® TPU X92A-1064 WT, Ultrasint® PA11 Black, more materials to come

1 Numbers of laser, laser power and build volume comparable to Farsoon SS403P system.
2 The functional build volume depends on the parts/materials.
3 The materials marked with * are in the build process development.



Flow Channel Plate
MATERIAL: FS3200PA-F
SYSTEM: Flight® HT1001P-4
SIZE: 930×219×262 mm (36.6×8.6×10.3 in)
PRINT TIME: 14h/2pcs

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