

FLIGHT[®] HT601P-4

Highly Efficient, Large-format System, Continuous Production Capable

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MAXIMIZED PRODUCTIVITY

The Flight[®] HT601P-4 offers a 600×600×600 mm (216L) build volume, ideal for large parts and high-batch production. Quad 300W fiber lasers at 20 m/s boost productivity, while an interchangeable build cartridge ensures continuous workflows. Its compact 3.41m² footprint maximizes space efficiency and reduces cost per part.

PRECISION & PART QUALITY

Advanced optics allow adjustable laser spot sizes—larger beams for speed, smaller beams for detail. For industries with strict requirements, builds can be constrained to a single laser (335×550 mm XY). An Advanced Control Card ensures stable laser power and superior part quality.

HIGH-TEMPERATURE CAPABILITY

With a 220°C chamber, the Flight[®] HT601P-4 is optimized for PA6, PBT, PA11, PA12, and TPU. A multi-zone temperature control system and infrared thermal monitoring maintain uniform heat distribution for consistent part quality.

AUTOMATION + SCALABILITY

The Flight[®] HT601P-4 integrates seamlessly into large-scale manufacturing with an Advanced Powder Management System (PMS) for automated powder recycling, mixing, and sieving. When linked to Farsoon's Smart Production Line, it enables automated powder handling, build transfer, cooling, and breakout for maximum efficiency.

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SPECIFICATIONS

FLIGHT[®] HT601P-4

External Dimensions (L×W×H)	1862×1832×2350 mm (73.3×72.1×92.5 in)
Build Cylinder Size¹ (L×W×H)	600×600×600 mm (23.6×23.6×23.6 in)
Net Weight	Approx. 3300 kg (7275.3 lb)
Laser Type	Fiber Lasers, 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 (65.6 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)
Materials²	FS3200PA-F, FS3201PA-F, FS3401GB-F, FS6140GF-F*, FS6130CF-F*, WANFAB-PU95AB, Ultrasint [®] TPU 88A black, Ultrasint [®] PA11 Black, 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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Flow Channel Plate
MATERIAL: FS3200PA-F
SYSTEM: FLIGHT[®] HT601P-4

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