

FLIGHT 252P Series

> FIBER LASER

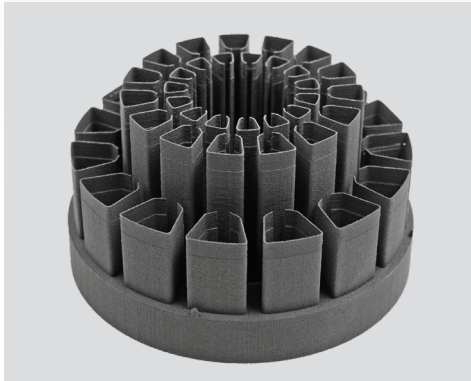
Equipped with powerful fiber laser instead of standard CO₂ laser, Flight 252P series is able to deliver greatly increased power to the powder bed due to its more robust and stable nature of fiber laser. It also provides improved laser longevity which is key when considering ROI for manufacturing applications.

> HIGH TEMPERATURE

The Flight 252P series offers two configurations capable of achieving build chamber temperatures from up to 220°C (HT) to 280°C (ST). Enhanced thermal control, temperature shielding components, and enhanced parameters enable the users to process high-performance materials.

> POWERFUL PLATFORM

Featuring with increased energy absorption of fiber laser, paired with truly open parameters, Flight 252P series is capable of accessing a much wider range of process-able materials and operational flexibility compared to standard laser sintering systems, allowing for fully freedom of material and application development.



ELECTRONIC WIRE FRAME

MATERIAL: FS 3201PA-F

SYSTEM: Flight HT252P

The electronic wire frame features wall thickness of only 0.3mm. Farsoon's innovative Flight™ Technology can fully meet the fast and small batch production as well as the high definition details as small as 0.3mm. The PA12 based black material tailored for Flight™ Technology can fully meet the mechanical property requirements such as high temperature resistance, which is fit for various testing scenarios as the final product. Flight™ Technology significantly improves both efficiency and cost, greatly shortens the development cycle of the product.

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TECHNICAL DATA

Flight ST252P

Flight HT252P

External Dimensions (L×W×H)	1735×1225×1975 mm	
Build Cylinder Size ¹ (L×W×H)	250×250×320 mm	
Net Weight	Approx. 2100KG	
Layer Thickness	0.06~0.3 mm	
Volume Build Rate ²	Up to X L/h	Up to X L/h
Scanning Speed	Max. 15 m/s	
Laser Type	Fiber Laser, 1×300W	
Scanner	High-precision digital galvo system	
Max. Chamber Temperature	280°C	220°C
Thermal Field Control	Eight-zone heater & Intelligent temperature control systems	
Temperature Regulation	Continuous real-time build surface temperature monitoring & optimization	
Inert Gas Protection	Nitrogen	
Operating System	64 bit Windows10	
UI Mode	Real-time interchangeable expert mode and production mode	
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, three-phase US: transformer sold with machine	
Operating Ambient Temperature	22-28°C	
Materials	FS 3300PA-F, FS 3401GB-F, FS3201PA-F, LUVOSINT® TPU X92A-1064 WT, more materials to come	

¹ The functional build volume depends on the parts/materials. ² Volume build rate depends on the parts/materials.