

# Flight 252P SERIES

Powerful & Flexible Platform for Material Development  
and High Temperature Applications

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## FIBER LIGHT INNOVATION

Equipped with an all-new fiber laser in place of a standard CO2 laser, Flight or Fiber Light Technology is capable of delivering a smaller laser spot size with greatly increased power, as well as a more homogenous energy distribution to the powder bed. Farsoon's 252P series is the latest to implement the Flight system to achieve full sintering of powder in a significant shorter amount of time, and with improved feature detail compared to other standard plastic laser sintering technologies. Due to the more robust and stable nature of a fiber laser system, Flight Technology™ also provides improved laser longevity which is key when considering ROI for manufacturing applications.

## HIGH TEMPERATURE CAPABILITY

The Flight 252P series offers two configurations capable of achieving processing chamber temperatures from up to 220°C (HT) to 280°C (ST). Enhanced thermal controls, temperature shielded components, and enhanced parameters offer customers the ability to process high performance polymer materials.

## POWERFUL PLATFORM FOR MATERIAL DEVELOPMENT

Application of Flight Technology™ on Farsoon's high-temperature 252P series results in a powerful, yet versatile plastic AM solution. The compact size of 252P series is well suited for the research environment as well as small scale production. With increased energy absorption characteristics 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 as compared to standard laser sintering systems, which allows for increased freedom for future AM material and application development.



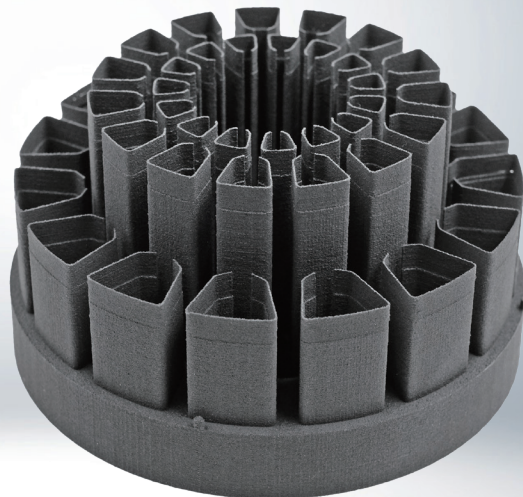
# FARSOON FLIGHT 252P SERIES

TECHNICAL DATA	Flight ST252P	Flight HT252P
<b>External Dimensions (L×W×H)</b>	1735×1225×1975 mm (68.3×48.2×77.8 in)	
<b>Build Cylinder Size<sup>1</sup>(L×W×H)</b>	250×250×320 mm (9.8×9.8×12.6 in)	
<b>Net Weight</b>	Approx. 2100KG (4629.7 lb)	
<b>Laser Type</b>	Fiber laser, 1×300W	
<b>Scanner</b>	High-precision digital galvo system	
<b>Layer Thickness</b>	0.06~0.3mm (0.0024-0.0118 in)	
<b>Scanning Speed</b>	Max.15 m/s (49.2 ft/s)	
<b>Max. Chamber Temperature</b>	280°C (536°F)	220°C (428°F)
<b>Thermal Field Control</b>	Eight-zone heater & Intelligent temperature control systems	
<b>Temperature Regulation</b>	Continuous real-time build surface temperature monitoring & optimization	
<b>Operating System</b>	64 bit Windows 10	
<b>UI Mode</b>	Real-time interchangeable expert mode and production mode	
<b>Comprehensive Software</b>	BuildStar, MakeStar®	
<b>Data File Format</b>	STL	
<b>Key Software Features</b>	Open machine key parameters, real-time build parameter modification, three-dimensional visualization, diagnostic functions	
<b>Power Supply</b>	EUR/China: 380-400V, 50/60Hz, three-phase US: transformer sold with machine	
<b>Operating Ambient Temperature</b>	22-28°C (71.6-82.4°F)	
<b>Materials</b>	FS3300PA-F, FS3401GB-F, FS3201PA-F, LUVOSINT® TPU X92A-1064 WT, more materials to come	

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

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PART: ELECTRONIC FRAME  
SYSTEM: Flight HT252P  
MATERIAL: FS3201PA-F



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