

# FLIGHT<sup>®</sup> 403P SERIES

The Next Generation of High-speed Plastic Laser Sintering

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## FIBER

Equipped with powerful fiber lasers in place of the standard CO<sub>2</sub> lasers, Flight<sup>®</sup> 403P Series is capable of delivering greatly increased power to the powder bed. Due to the more robust and stable nature of a fiber laser system, Flight<sup>®</sup> Technology also provides improved laser longevity which is key when considering ROI for manufacturing applications.

## FAST

With robust laser power, improved energy distribution to the material, and smaller laser spot size, Flight<sup>®</sup> Technology is able to achieve the full sintering of powder in a significant short amount of time. With scanning speed of over 20m/s (66 ft/s) as well as the large build volume, Flight<sup>®</sup> 403P Series is able to achieve extreme sintering speeds that pushes the additive manufacturing productivity to a new level.

## FINE

Developed with a new set of unique scanning algorithms and a powerful dynamic optical system, Flight<sup>®</sup> Technology is able to achieve a more homogenous energy distribution over the processing surface. This results in improved feature detail compared to other plastic powder-based technologies with feature details as small as 0.3mm (0.012 inch) while still achieving the part property benefits of standard laser sintering.

## OPEN PLATFORM

Like all Farsoon systems, FLIGHT<sup>®</sup> 403P Series is offered with fully open machine parameters and unlocked material choices. In addition with its increased power and energy absorption characteristics Flight<sup>®</sup> Technology will be capable of accessing a much different 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® 403P Series

SPECIFICATIONS	FLIGHT® SS403P-H	FLIGHT® HT403P-H
<b>External Dimensions (L×W×H)</b>	2540×1370×2225 mm (100.0×53.9×87.6 in)	
<b>Build Cylinder Size<sup>1</sup> (L×W×H)</b>	400×400×540 mm ( 15.7 × 15.7 × 21.3 in )	
<b>Net Weight</b>	Approx. 3000 kg (6613.9 lb)	
<b>Laser Type</b>	Fiber Laser, 1×300W	
<b>Scanner</b>	High-precision three-axis galvo system	
<b>Layer Thickness</b>	0.06 - 0.3 mm ( 0.0024-0.0118 in )	
<b>Scanning Speed</b>	Max. 20 m/s ( 65.6 ft/s )	
<b>Max. Chamber Temperature</b>	190°C ( 374 °F )	220°C ( 428 °F )
<b>Thermal Field Control</b>	Eight-zone heater & intelligent temperature control systems	
<b>Temperature Regulation</b>	Continous real-time build surface temperature monitoring & optimization	
<b>Operating System</b>	64 bit Windows 10	
<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>Inert Gas Protection</b>	Nitrogen	
<b>Power Supply</b>	EUR/China: 400V±10%, 3~/N/PE, 50/60Hz, 32A US: transformer sold with machine	
<b>Operating Ambient Temperature</b>	22 - 28 °C ( 71.6-82.4 °F )	
<b>Materials<sup>2</sup></b>	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 The functional build volume depends on the parts/materials.  
2 The materials marked with \* are in the build process development.

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PART: AUTOMOTIVE LIGHTING HOUSING  
MATERIAL: FS3200PA-F  
SYSTEM: FLIGHT® HT403P-H

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