

FORMLABS STEREO LITHOGRAPHY

Quick Stats



Form 3



Form 3L

Technology	Low Force Stereolithography (LFS) [™]	Low Force Stereolithography (LFS) [™]
Laser Resolution	25 microns	25 microns
Laser Spot Size	85 microns	85 microns
Laser Power	One 250 mW laser	Two 250 mW lasers
Build Volume (W × D × H)	14.5 × 14.5 × 18.5 cm 5.7 × 5.7 × 7.3 in	33.5 × 20 × 30 cm 13.2 × 7.9 × 11.8 in
Layer Thickness	25 – 300 microns .001 – .012 in	25 – 300 microns* .001 – .012 in*

Printing Properties

	Form 3	Form 3L
Technology	Low Force Stereolithography (LFS) [™]	Low Force Stereolithography (LFS) [™]
Resin Fill System	Automated	Automated
Build Volume (W × D × H)	14.5 × 14.5 × 18.5 cm 5.7 × 5.7 × 7.3 in	33.5 × 20 × 30 cm 13.2 × 7.9 × 11.8 in
Layer Thickness (Axis Resolution)	25 – 300 microns .001 – .012 in	*25 – 300 microns *.001 – .012 in
Laser Resolution	25 microns .001 in	25 microns .001 in
Laser Spot Size	85 microns .0033 in	85 microns .0033 in
Resin Cartridges	1	2
Supports	Auto-Generated Light-Touch Removal	Auto-Generated Light-Touch Removal

Hardware

	Form 3	Form 3L
Minimum Access Dimensions (W × D × H)	40.5 × 53 × 78 cm 15.9 × 20.9 × 30.7 in	*105 × 90.0 × 105 cm *41.3 × 35.4 × 41.3 in
Printer Dimensions (W × D × H)	40.5 × 37.5 × 53 cm 15.9 × 14.8 × 20.9 in	*77.5 × 52 × 73.5 cm *30.5 × 20.5 × 28.9 in
Weight	17.5 kg 38.5 lbs	*48 kg *106 lbs
Operating Temperature	Auto-heats to 35 °C Auto-heats to 95 °F	Auto-heats to 35 °C Auto-heats to 95 °F
Temperature Control	Air-heated print chamber	Air-heated print chamber
Power Requirements	100–240 VAC 2.5 A 50/60 Hz 220 W	100–240 VAC *7.5 A 50/60 Hz *650 W
Laser Specifications	1 Light Processing Unit EN 60825-1:2007 certified Class 1 Laser Product 405 nm wavelength 250 mW power 85 micron (0.0033 in) laser spot	2 Light Processing Units EN 60825-1:2007 certified Class 1 Laser Product 405 nm wavelength 250 mW power 85 micron (0.0033 in) laser spot
Connectivity	Wi-Fi (2.4, 5 GHz) Ethernet (1000 Mbit) USB 2.0	Wi-Fi (2.4, 5 GHz) Ethernet (1000 Mbit) USB 2.0
Printer Control	5.5" interactive touchscreen 1280 × 720 resolution	5.5" interactive touchscreen 1280 × 720 resolution
Alerts	Touchscreen alerts SMS/email via Dashboard Two LED status indicators Speaker for audio alerts	Touchscreen alerts SMS/email via Dashboard *Two LED status indicators Speaker for audio alerts

* Final Form 3L specifications may be subject to minor changes.

Software

System Requirements	Windows 7 (64-bit) and up Mac OS X 10.10 and up OpenGL 2.1 4 GB RAM
File Types	STL and OBJ file input FORM file output
PreForm Print Setup Features	<ul style="list-style-type: none">• One-Click Print• Adaptive layer thickness for faster printing with fine details• Remote Print (not available on Form 2)• Auto-orient for optimal print position• Auto-mesh repair• Auto-generation of supports• Rotate, scale, duplicate, and mirror• Layer slicer for path inspection• Available in multiple languages
Dashboard Printer Management Features	<ul style="list-style-type: none">• Manage prints and printers via the cloud• Track resin and tank usage over time• SMS and email alerts• Create enterprise group accounts with admins to more easily share printers and control access