

TECH SPECS

FORMLABS STEREOLITHOGRAPHY

Quick Stats



Technology	Low Force Stereolithography (LFS) [™]	Low Force Stereolithography (LFS) [™]	Stereolithography (SLA)
Laser Resolution	25 microns	25 microns	n/a
Laser Spot Size	85 microns	85 microns	140 microns
Laser Power	One 250 mW laser	Two 250 mW lasers	One 250 mW laser
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	14.5 × 14.5 × 17.5 cm 5.7 × 5.7 × 6.9 in
Layer Thickness	25 – 300 microns .001 – .012 in	25 – 300 microns* .001 – .012 in*	25 – 300 microns .001 – .012 in

Printing Properties

	Form 3	Form 3L	Form 2
Technology	Low Force Stereolithography (LFS) [™]	Low Force Stereolithography (LFS) [™]	Stereolithography (SLA)
Resin Fill System	Automated	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	14.5 × 14.5 × 17.5 cm 5.7 × 5.7 × 6.9 in
Layer Thickness (Axis Resolution)	25 – 300 microns .001 – .012 in	*25 – 300 microns *.001 – .012 in	25 – 300 microns .001 – .012 in
Laser Resolution	25 microns 0.001 in	25 microns 0.001 in	N/A
Laser Spot Size	85 microns 0.0033 in	85 microns 0.0033 in	140 microns 0.0055 inches
Resin Cartridges	1	2	1
Supports	Auto-Generated Light-Touch Removal	Auto-Generated Light-Touch Removal	Auto-Generated Easily Removable

Hardware

	Form 3	Form 3L	Form 2
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	34.5 × 56 × 79 cm 13.6 × 22 × 31.1 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	34.5 × 33 × 52 cm 13.6 × 13 × 20.5 in
Weight	17.5 kg 38.5 lbs	*48 kg *106 lbs	13 kg 28.5 lbs
Operating Temperature	Auto-heats to 35 °C Auto-heats to 95 °F	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	Self-heating resin tank
Power Requirements	100–240 VAC 2.5 A 50/60 Hz 220 W	100–240 VAC *7.5 A 50/60 Hz *650 W	100–240 VAC 1.5 A 50/60 Hz 65 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	1 laser EN 60825-1:2007 certified Class 1 Laser Product 405 nm wavelength 250 mW power 140 microns (0.0055 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	Wi-Fi (2.4 GHz) Ethernet (100 Mbit) USB 2.0
Printer Control	5.5" interactive touchscreen 1280 × 720 resolution	5.5" interactive touchscreen 1280 × 720 resolution	4.3" interactive touchscreen 480 × 272 resolution Push-button
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	Touchscreen alerts SMS/email via Dashboard

* 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