

**TECH SPECS**

# FORMLABS STEREOLITHOGRAPHY

**Quick Stats**

**Form 3**

**Form 3L**

**Form 2**

	<b>Form 3</b>	<b>Form 3L</b>	<b>Form 2</b>
Technology	Low Force Stereolithography (LFS) <sup>™</sup>	Low Force Stereolithography (LFS) <sup>™</sup>	Stereolithography (SLA)
Laser Resolution	<b>25</b> microns	<b>25</b> microns	n/a
Laser Spot Size	<b>85</b> microns	<b>85</b> microns	<b>140</b> 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**

	<b>Form 3</b>	<b>Form 3L</b>	<b>Form 2</b>
Technology	Low Force Stereolithography (LFS) <sup>™</sup>	Low Force Stereolithography (LFS) <sup>™</sup>	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 .001 in	25 microns .001 in	N/A
Laser Spot Size	85 microns .0033 in	85 microns .0033 in	140 microns .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	*54 kg *120 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"> <li>• One-Click Print</li> <li>• Adaptive layer thickness for faster printing with fine details</li> <li>• Remote Print (not available on Form 2)</li> <li>• Auto-orient for optimal print position</li> <li>• Auto-mesh repair</li> <li>• Auto-generation of supports</li> <li>• Rotate, scale, duplicate, and mirror</li> <li>• Layer slicer for path inspection</li> <li>• Available in multiple languages</li> </ul>
Dashboard Printer Management Features	<ul style="list-style-type: none"> <li>• Manage prints and printers via the cloud</li> <li>• Track resin and tank usage over time</li> <li>• SMS and email alerts</li> <li>• Create enterprise group accounts with admins to more easily share printers and control access</li> </ul>



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