Form 3

Form 3L

Fuse 1

Form 3B & Form 3BL

Post-Processing
Tech Specs

- Form 3
- Form 3L
- Form 2

Formlabs Stereolithography 3D Printers Tech Specs

Quick Stats
Contact Sales

Printer	Form 3	Form 3L	Form 3BL
Technology	Low Force Stereolithography (LFS)™	Low Force Stereolithography (LFS)™	Low Force Stereolithography (LFS)™
XY Resolution[a]	25 microns	25 microns	25 microns
Laser Spot Size	85 microns	85 microns	85 microns
Laser Power	One 250 mW laser	Two 250 mW lasers	Two 250 mW lasers
Build Volume (W x D x 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	33.5 × 20 × 30 cm 13.2 × 7.9 × 11.8 in
Layer Thickness[b]	25 – 300 microns .001 – .012 in	25– 300 microns[c] .001 – .012 in	25 – 300 microns[c] .001 – .012 in

[a] XY resolution describes how precisely the printer can draw in the XY (horizontal) plane.

[b] Layer thickness availability varies by material. View our materials compatibility table to confirm availability.

[c] The Form 3L and Form 3BL are capable of printing at 25 micron layer heights, but **we are only planning to release one 25 micron print setting for our large format printers.** Please submit feedback to our support team if your application requires 25 micron layer thickness.

Printing Properties

Printer	Form 3	Form 3L	Form 3BL
Technology	Low Force Stereolithography (LFS)™	Low Force Stereolithography (LFS)™	Low Force Stereolithography (LFS)™
Resin Fill System	Automated	Automated	Automated
Build Volume (W x D x 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	33.5 × 20 × 30 cm 13.2 × 7.9 × 11.8 in
Layer Thickness (Axis Resolution)[b]	25 – 300 microns .001 – .012 in	25[c] – 300 microns .001 – .012 in	25[c] – 300 microns .001 – .012 in
XY Resolution[a]	25 microns 0.001 in	25 microns 0.001 in	25 microns 0.001 in
Laser Spot Size	85 microns 0.0033 in	85 microns 0.0033 in	85 microns 0.0033 in
Resin Cartridges	1	2	2
Biocompatible Materials	No (available on Form 3B)	No (available on Form 3BL)	Yes
Supports	Auto-Generated Light-Touch Removal	Auto-Generated Light-Touch Removal	Auto-Generated Light-Touch Removal
Design/CAD Specifications	Download Form 3 Design Guide (PDF)	Download Form 3L Design Guide (PDF)	Download Form 3BL Design Guide (PDF)

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Hardware

Printer	Form 3	Form 3L	Form 3BL
Minimum Access Dimensions (W × D × H)	40.5 × 53 × 78 cm 15.9 × 20.9 × 30.7 in	90 × 96 × 104 cm 35.4 × 37.8 × 41 in	90 × 96 × 104 cm 35.4 × 37.8 × 41 in
Printer Dimensions (W × D × H)	40.5 × 37.5 × 53 cm 15.9 × 14.8 × 20.9 in	77 × 52 × 74 cm 30.3 × 20.5 × 29.1 in	77 × 52 × 74 cm 30.3 × 20.5 × 29.1 in
Weight	17.5 kg 38.5 lbs	54.4 kg 120 lb	54.4 kg 120 lb
Internal 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	Air-heated print chamber
Operating Environment	18 – 28 °C 64 – 82 °F	18 – 28 °C 64 – 82 °F	18 – 28 °C 64 – 82 °F
Power Requirements	100–240 VAC 2.5 A 50/60 Hz 220 W	100–240 VAC 8.5A MAX 50/60HZ 650W	100–240 VAC 8.5A MAX 50/60HZ 650W

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	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	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	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	Touchscreen alerts SMS/email via Dashboard Two LED status indicators Speaker for audio alerts

Software
Learn more
System Requirements
Windows 7 (64-bit) and up
Mac OS X 10.12 and up
OpenGL 2.1
4 GB RAM (8 GB recommended)
Hardware Requirements
Form 3, Form 3L, Form 3B, Form 3BL, or Form 2 3D printer
File Types
STL and OBJ file input
FORM file output
PreForm Print Setup Features
One-Click Print
Adaptive layer thickness for faster printing with fine details

Remote Print
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
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