

FUSE

1+

30W

FUSE

SIFT

FUSE

BLAST



HIGH PERFORMANCE SELECTIVE LASER
SINTERING WITHIN REACH

formlabs 

THE FUSE 1+ 30W SLS ECOSYSTEM

Designed for maximum output and minimum waste,
Fuse 1+ 30W is a compact SLS 3D printer that packs an industrial punch.

formlabs 
AUTHORIZED PARTNER

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CREATED

FUSE**1+****30W**

SAME-DAY PARTS

Unlock rapid in-house 3D printing and deliver high-precision parts within a day thanks to a powerful 30W laser.

SLS 3D PRINTING MADE EASY

Easy-to-use hardware and software are designed to get you up and running quickly and maximize your efficiency at every step of the process.

Tech Specs

Technology	Selective laser sintering (SLS) Class 1 Laser Product
Build volume	165 x 165 x 300 mm 6.5 x 6.5 x 11.8 in
Layer thickness	110 microns 0.004 in
Laser Type	Ytterbium Fiber 30W
Laser Spot Size	247 microns 0.0079 in
Material Refresh Rate	20% – 50%
Build Chamber	Modular, compatible with Fuse 1+ 30W, Fuse 1 and Fuse Sift
Print Support Structures	No supports necessary
Printer Dimensions (W x D x H)	64.5 x 68.5 x 107 cm (165.5 cm with stand)
Weight	114 kg (without build chamber or powder)
Power Requirements	EU: 230 VAC, 7.5 A (dedicated circuit)
Warranty and Service	One Year Warranty included. Extended Warranty, Standard Service Plan and Premium Service Plan available.
Software compatibility	Windows 10, 64-bit (version 1809) and up // Mac OSX 10.6.8 and up
File Type	STL, OBJ, or 3MF files

INDUSTRIAL-GRADE MATERIALS

Produce durable parts that can withstand heavy use with industry-standard materials that benefit from fine-tuned settings and inert gas printing capabilities.

COMPACT AND SCALABLE

A compact footprint and modular ecosystem make the Fuse 1+ 30W suitable for any environment.

Post-Processing

An automated ecosystem that reinvents SLS post-processing to deliver ready-to-use parts with a professional finish in as little as 15 minutes.

FUSE**SIFT**

Extract parts in just 5 minutes using this all-in-one powder management station for Fuse Series SLS 3D printers.

COMPACT, ENCLOSED SYSTEM

A negative air pressure system contains powder while enabling ergonomic part extraction from the unsintered powder. The Sift Glovebox Bundle upgrade enables faster part extraction and transportation.

AUTOMATIC POWDER REFRESHING

Easy-to-use hardware and software are designed to get you up and running quickly and maximize your efficiency at every step of the process.

FUSE**BLAST**

Reinventing SLS Post-Processing with a fully automated cleaning and polishing solution in minutes.

10-MINUTE AUTOMATED PART CLEANING

Pre-programmed cleaning routines automatically process an entire build chamber in as little as 10 minutes, while media filtering reduces post-processing time on Fuse Sift by 80%.

CONSUMER-READY PARTS

The ionization system prevents dust and media from re-settling on your prints, for clean-to-the-touch parts, while the Blast Polishing System upgrade allows you to deliver parts with a smooth, semi-gloss, scuff-resistant, dye-ready surface finish.