



Fuse 1+ 30W

Take control of your design and production process with our fastest, most powerful SLS printer yet.

ZERO WASTE PRINTING

Due to the advanced packing algorithm and improved refresh rates for every material, you can print with an entirely circular workflow - using all your powder for parts, with little to no waste.

DESIGNED FOR NONSTOP THROUGHPUT

Add a second removable build chamber to start a new print only 1-2 hours after your first production round finishes, increasing your production capacity and enabling continuous printing.

INDUSTRIAL QUALITY ARTS, FASTER THAN EVER

With a more powerful laser and enhanced scanning speed, the Fuse 1+ 30W delivers parts at up to two times the speed as previous generations, allowing designers, engineers, and manufacturers to go from design to finished part overnight.

RELIABLE, ACCESSIBLE, STREAMLINED

The Fuse 1+ 30W printer's inert gas environment ensures that you'll get industrial quality parts, every time, while the user-friendly workflow enables anyone to take ownership over production.



Fuse Sift

Fuse Sift creates an easy, streamlined workflow for industrial quality post-processing.

COMPACT, ENCLOSED SYSTEM

A negative air pressure system keeps powder inside while enabling open access and easy cleanup.

AUTOMATIC POWDER MIXING

Fuse Sift will dispense and mix used and new powder automatically so you can reduce waste and control your powder supply.

NONSTOP PRINTING

Reduce downtime by transferring modular build chambers and powder cartridges between the Fuse 1 and Fuse Sift for a nonstop, cyclical workflow.

Fuse Blast

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

10 MINUTE HANDS-FREE 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-GRADE PARTS

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

EXTENDED MEDIA LIFE

Minimize overhead costs thanks to the passive filtering system that reduces media saturation and extends media life by four to eight times.

Materials

Unlock high-performance SLS 3D printing with library of industrial-grade materials, including nylons, stiff composites, and elastomeric powders.



Tech Specs: Fuse 1+ 30W

Technology	Selective laser sintering (SLS) Class 1 Laser Product	Printer Dimensions (W × D × H)	64.5 × 68.5 × 107 cm (165.5 cm with stand) 25.4 × 27.0 × 42.0 in (65.0 in with optional stand)
Build Volume	165 x 165 x 300 mm 6.5 x 6.5 x 11.8 in	Weight	114 kg (without build chamber or powder) 251.3 lb (without build chamber or powder)
Layer Thickness	110 microns 0.004 in	Power Requirements	EU: 230 VAC, 7.5 A (dedicated circuit) US: 120 VAC, 15 A (dedicated circuit)
Laser Type	Ytterbium Fiber 30W	Warranty and Service	One Year Warranty included. Extended Warranty, Standard Service Plan and Premium Service Plan available.
Laser Spot Size	200 microns (0.0079 in)	Software Compatibility	Windows 7 and up // Mac OSX 10.6.8 and up
Material Refresh Rate	20% – 50%	File Type	STL, OBJ, or 3MF files
Build Chamber	Modular, compatible with Fuse 1+ 30W, Fuse 1 and Fuse Sift		
Print Support Structures	No supports necessary		

Tech Specs: Fuse Blast

Compatibility	Fuse Series SLS 3D Printers Third-party powder bed fusion 3D printers	Air Handling	Negatively pressurized hood with replaceable HEPA filter. Independent venting system
Dimensions	100 x 75 x 175 cm	Weight	164 kg (without blasting material)
Minimum Access Dimensions	145 x 150 x 210 cm	Power Requirements	230 VAC, 3 A (no dedicated circuit or vacuum required)
Media Hopper Capacity	Media hopper capacity 8.3l Equivalent to 13 kg of 200-300 µm glass media	Compressed Air Requirements	Supply at least 10 SCFM at 90 PSI / 285 SLPM at 6 bar. Regulate pressure input between 90-120 PSI / 6-8 bar. Typically achieved by a single 4 HP compressor.
Waste Hopper Capacity	10.6l	Tumbling Basket	450mm internal diameter (Fits a full Fuse build volume)
Connectivity	Wi-Fi: 2.4 GHz Ethernet: 1000 Mbit USB: 2.0	Sound Emission	Does not exceed 75 dB(A)
WiFi Connectivity	Protocol: IEEE 802.11 b/g/n Frequency: 2.4 / 5.0 GHz Supported security: WPA/WPA2	Product Control	Interactive touchscreen, foot pedals for manual control
Ethernet Connectivity	RJ-45 Ethernet (10BASE-T/100BASE-TX/1000BASE-T) LAN port Connect with a shielded Ethernet cable (not included): minimum Cat5, or Cat5e or Cat6 for 1000BASE-T	Included Accessories	Transfer container Control pedals ESD wrist strap 7mm socket wrench Blast orifice (3mm) Blast orifice (4mm) T-20 driver Floor mat
Internal Work Area	71 x 55 x 67 cm		