



WATCH THE VIDEO

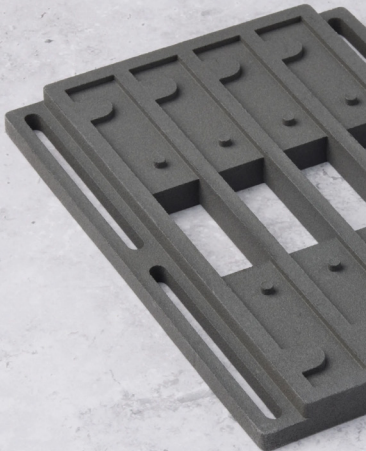


HIGH PERFORMANCE SELECTIVE LASER
SINTERING WITHIN REACH

formlabs 

THE FUSE 1+ 30W SLS ECOSYSTEM

#1 SLS 3D Printing Platform, Chosen by Over Half of All SLS Users in the World



\$10.8	FUSE 1+ 30W Nylon 11 Powder
2 days	
\$47.24	INDUSTRIAL SLS (OUTSOURCED)
10 days	
\$192.01	MACHINING COST (OUTSOURCED)
13 days	
\$4.99	INJECTION MOLDING (OUTSOURCED)
5 weeks	

Industrial-Grade Materials

- Industry-standard materials that can replace machined aluminum or Delrin, on-demand with an agile workflow – no external machinists or tooling required
- Seven validated materials, including nylon 12 (general purpose, tough, glass-filled, white), nylon 11 (high performance, carbon fiber-filled), and TPU
- Print any powder that absorbs 1064 nm light using customizable print settings with Open Material Mode

Lowest Cost Per Part

- Lowest cost per part for up to tens of thousands of parts, faster than with any traditional manufacturing method
- Replace and improve injection-molded or machined plastics
- 3D printing is now cost-effective even at higher volumes, thanks to substantial volume discounts on SLS powders, with prices as low as \$45 per kilogram when bought in bulk



Compact and Scalable

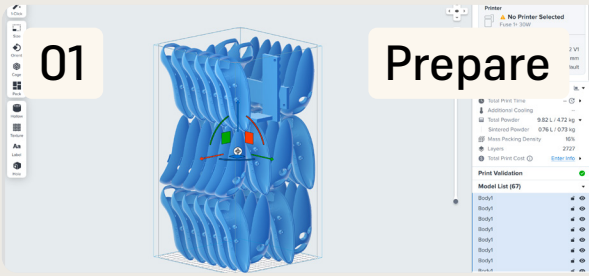
- Doesn't require industrial infrastructure — add the Fuse Series into any office or workshop environment, without breaking the bank
- Respond to requests faster and easier with a flexible fabrication solution or free up your machine shop
- Scale incrementally and grow the fleet as demand increases

Industrial Power, In-House

- Powerful 30W laser delivers rapid in-house 3D printing to create high-precision parts in one day
- Move quickly through iterative changes and eliminate production bottlenecks with strong, functional parts
- Produce end-use parts, replacement and aftermarket parts, manufacturing aids, tooling, rapid prototypes, and more

SLS Made Simple

Easy and Intuitive Workflow from Design to End-Use Part

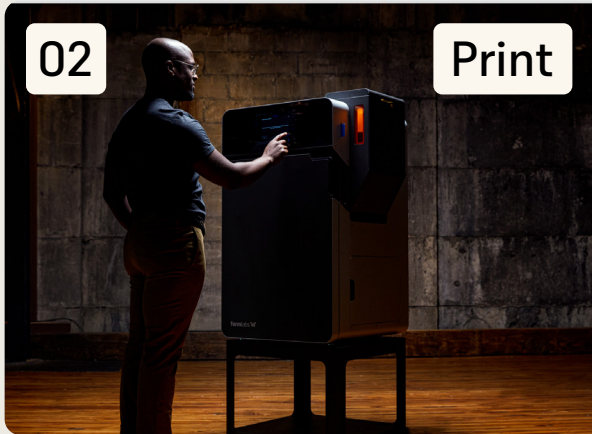


01

Prepare

Auto-pack, optimize, and organize in PreForm

- Orient, hollow, or label models, estimate print times, and automatically pack parts for optimized density, reducing print time and limiting waste
- Import STL, OBJ, 3MF files, or models directly from a wide range of CAD applications



02

Print

Print quickly and reliably overnight

- Set it and forget it - print overnight and have multiple iterations or batch production parts ready in the morning
- Enable small series manufacturing of durable end-use parts in under 24 hours

Full printer control with cloud-based Dashboard

- Manage multiple printers across multiple locations simultaneously
- View printer availability, manage materials, track jobs, and receive notifications all in one place



03

Unpack

Convenient, compact powder management with Fuse Sift

- Remove excess powder with an all-in-one powder management station in just 5-10 minutes
- Reclaim and store powder, and automatically mix for reuse in your next print
- Reduce downtime by transferring modular build chambers and powder cartridges between the Fuse 1+ 30W and Fuse Sift for a nonstop, cyclical workflow



04

Clean & Polish

Fully automated part cleaning and polishing with Fuse Blast

- Advanced automated finishing solution delivers professional parts in 10-60 minutes
- Media blasting ensures parts are clean to the touch by thoroughly eliminating residual powder
- Fuse Blast Polishing System upgrade achieves smooth, semi-gloss, dye-ready surfaces



05

Upkeep

Easy, quick maintenance keeps your focus on the parts

- Under 10 minutes of maintenance between prints to keep the printer in peak condition
- Intuitive on-screen checklist guides users through every step with clear visuals and easy-to-follow instructions
- Notifications for parts approaching replacement periods for easy maintenance

Tech Specs

FUSE 1+ 30W



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) 24.4 x 27.0 x 42.0 in (65.0 in with optional stand)
Weight	114 kg (without build chamber or powder) 251.3 lb (without build chamber or powder)
Power Requirements	EU: 230 VAC, 7.5 A (dedicated circuit) US: 120 VAC, 15 A (dedicated circuit)
Warranty and Services	One Year Warranty included. Basic and Complete Service Plans are available.



Charging Port Assembly

RAPID PROTOTYPING



"The Fuse 1+ is much faster than the competitors. It's also very easy for our workers to operate the machine. At the end of the day, what really matters for us is that it's very easy to deliver the parts faster."

Bruno Alves, Additive Manufacturing Expert and Tooling Specialist, Ford



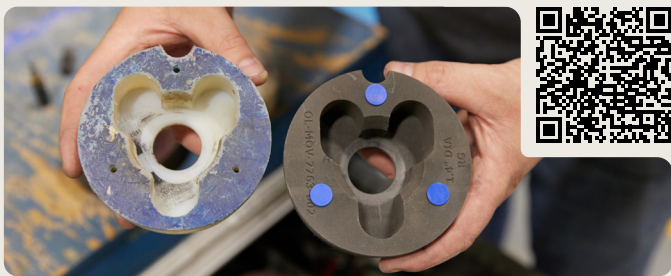
Bowden Release

END-USE PART / BRIDGE MANUFACTURING



"The material availability and the consistency of the prints were so much improved that the technology is now ready to be helpful in the automotive industry. In collaboration with Formlabs, we have proven that we can implement parts like we do on the current BMW X7."

Matthias Schulz, Manager, Seat Prototyping, Brose North America



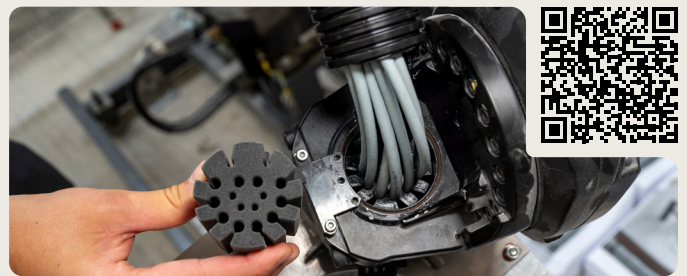
Electrical Tester Cup

TOOLING



"The Fuse is attractive because it's a price point that is easily adoptable. The build volume is right for what a factory generally needs, and so when you match the footprint size plus the cost, it makes it attainable to a lot of our factories. Then the ecosystem around it and the usability was a step change in the SLS category."

Cameron Peahl, Global Industry 4.0 Additive Manufacturing Strategy Manager, Eaton



FLEXIBLE CABLE GUIDE

TOOLING



"If we didn't have access to this technology, then the development processes would be enormously protracted. The machines allow us to achieve very large development steps in a very short time. We can test and reject or further develop ideas, and produce parts overnight to test at the customer's premises the next day."

Joachim Krumma, Management, CTS-3 GmbH