Form 1+
Introducing Desktop SLA.

formlabs
Overview

With the Form 1+ you’ll be printing in less than 15 minutes. It comes fully calibrated and ships with resin, software, finishing tools, and a one-year standard warranty—everything you need to succeed with 3D printing.

Technical Specifications

THE FORM 1+

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$3299</td>
</tr>
<tr>
<td>Dimensions</td>
<td>30 x 28 x 45 cm / 12 x 11 x 18 in</td>
</tr>
<tr>
<td>Weight</td>
<td>8 kg / 18 lbs</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>18–28° C / 64–82° F</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100–240 V, 1.5 A 50/60 Hz, 60 W</td>
</tr>
<tr>
<td>Laser Specifications</td>
<td>EN 60825-1:2007 certified Class 1 Laser Product 405nm violet laser</td>
</tr>
</tbody>
</table>

PREFORM SOFTWARE

| System Requirements           | Windows XP (SP3) and up Mac OSX 10.6.8 and up |

PRINTING PROPERTIES

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Technology</td>
<td>Stereolithography (SLA)</td>
</tr>
<tr>
<td>Build Volume</td>
<td>125 x 125 x 165 mm/4.9 x 4.9 x 6.5 in</td>
</tr>
<tr>
<td>Min Feature Size</td>
<td>300 microns / 0.012 inches</td>
</tr>
<tr>
<td>Layer Thickness (Axis Resolution)</td>
<td>25, 50, or 100 microns / 0.001, 0.002, or 0.004 inches</td>
</tr>
<tr>
<td>Supports</td>
<td>Auto-Generated. Easily Removable</td>
</tr>
</tbody>
</table>

FINISHING KIT

| Includes                      | Finishing Tray, Scraper, Pre and Post-Rinse Tubs, Rinse Basket, Squeeze Bottle, Flush Cutters, Tweezers, Disposable Nitrile Gloves |
Exceptional Print Quality

The Form 1+ delivers professional-quality printed parts, at a fraction of the price.

**HOBBYIST FDM**
- Part cost: $0.41
- Machine cost: $2,500

**DESKTOP SLA (FORM 1+)**
- Part cost: $1.67
- Machine cost: $3,299

**INDUSTRIAL SLA**
- Part cost: $6.00
- Machine cost: $300,000

1 All parts printed at 100 micron layer height.
2 Printed in Formlabs’ ‘Grey Resin’ — one of our Standard prototyping resins.
Standard Resins
Formulated in-house to deliver the highest-quality output, these resins capture astonishing detail without sacrificing durability or toughness.

<table>
<thead>
<tr>
<th>Resin Name</th>
<th>Price</th>
<th>Size</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEAR</td>
<td>$149</td>
<td>1 Liter Bottle</td>
<td>Transparency, polishes to near optical clarity, great for internal channels and working with light.</td>
</tr>
<tr>
<td>WHITE</td>
<td>$149</td>
<td>1 Liter Bottle</td>
<td>Neutral tone, slight opacity when thin, provides a great base color for painting prints.</td>
</tr>
<tr>
<td>GREY</td>
<td>$149</td>
<td>1 Liter Bottle</td>
<td>Neutral tone, slight opacity when thin, great for showing off surface finish, photographs easily.</td>
</tr>
<tr>
<td>BLACK</td>
<td>$149</td>
<td>1 Liter Bottle</td>
<td>Highly pigmented, our most opaque, high detail resin, great for printing small, accurate features.</td>
</tr>
</tbody>
</table>

**Clear Resin Technical Data Sheet**

Material Properties are similar for White, Grey, and Black resins. For information on properties not listed, please contact our sales team.
Functional Resins

Our growing family of high-performance resins, adds capabilities to the Form 1+ 3D Printer with new material properties to explore.

CASTABLE RESIN
Castable burns out cleanly, without ash or residue and captures crisp, precise detail as well as extraordinarily smooth surfaces. It allows jewelers, designers, and engineers to go straight from a 3D design to a model suited for direct investment.

Learn More

FLEXIBLE RESIN
Flexible is versatile, tactile, and impact-resistant. Push the boundaries of 3D printing by creating parts that are bendable and compressible. Excellent for prototyping, product design, and engineering.

Learn More

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<tr>
<th>Resin Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CASTABLE</td>
<td>$149</td>
<td>500 mL Bottle</td>
<td>Investment casting, blue color, slightly softer than standard resins before post-curing.</td>
</tr>
<tr>
<td>FLEXIBLE</td>
<td>$99</td>
<td>500 mL Bottle</td>
<td>Impact resistance, compression, great for ergonomic soft-touch grips.</td>
</tr>
</tbody>
</table>
The Desktop Advantage

Nothing speeds the product development process as much as a printer on your desktop.

![Image](image_url)

<table>
<thead>
<tr>
<th></th>
<th>SERVICE BUREAU</th>
<th>FORM 1+</th>
<th>INDUSTRIAL SLA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TURNAROUND TIME</strong></td>
<td>1 – 2 weeks</td>
<td>&lt; 24hrs</td>
<td>&lt; 24hrs</td>
</tr>
<tr>
<td><strong>UPFRONT COST</strong></td>
<td>$0</td>
<td>$3299</td>
<td>$60K – $300K</td>
</tr>
<tr>
<td><strong>ROOK PRINT COST</strong></td>
<td>$75.00</td>
<td>$1.67</td>
<td>$6.00</td>
</tr>
<tr>
<td><strong>PRINT COST VS. FORM 1+</strong></td>
<td>45x</td>
<td>1x</td>
<td>3.5x</td>
</tr>
<tr>
<td><strong>LONG TERM COSTS</strong></td>
<td>N/A</td>
<td>free one-year warranty</td>
<td>mandatory service contract (~$15K)</td>
</tr>
<tr>
<td><strong>ACCESSIBILITY</strong></td>
<td>external, third party</td>
<td>internal, desktop, anyone can use</td>
<td>internal, workshop, run by a technician, often projects will be billed for use</td>
</tr>
</tbody>
</table>

“...for our endoscopic version we had the initial design complete within 2 weeks and estimate a time saving of at least 6 months.”

– Alex Berry, Product Designer at Sutrue Ltd on switching from service bureaus.
Powerful Software
PreForm (included) lets you print quickly, with its intuitive interface, useful tools, and regular updates.

SIMPLE PROCESS
Automatic tools for orientation and support generation make print setup fast and effective.

ADVANCED FEATURES
Our advanced mode reveals complexity when you need it, allowing you to fine tune details like individual support placement, density, and geometry.

PRINT MANAGEMENT TOOLS
Print time and volume estimates help you calculate costs.

Download today for free at formlabs.com/products/preform

PREFORM SOFTWARE
System requirements
Windows XP (SP3) and up
Mac OSX 10.6.8 and up
OpenGL 2.1 support
2GB RAM

Features
Simple print setup
Auto-orient for optimal print position
Auto-mesh repair
Auto-generation of supports
Rotation, scaling, and duplication
Layer slicer for path inspection
.STL and .OBJ file input
.FORM file output
Expert Customer Support

Formlabs is an established leader in desktop 3D printing, with service centers in North America and the EU.

**ONE YEAR WARRANTY**
The Form 1+ ships with an industry-leading one-year standard warranty. No expensive service contracts. Just service you can trust.

**CUSTOMER SUPPORT**
Your Form 1+ comes with access to our experienced customer support engineers. Get the help and advice you need, fast.

**SERVICING**
If you run into problems, we'll make sure your printer is fixed quickly. We cover return shipping within our service regions too.

**EDUCATIONAL RESOURCES**
Our extensive online support site is filled with articles, videos, webinars and forums to provide help from the growing Formlabs community when you need it.

“What I’ve found is that, unlike other machines we’ve played with, the Form 1+ is a reliable beast.”

– Al Dean, Develop3D.com

“I’ve had some really bad experiences with support from companies, but Formlabs has consistently met or exceeded my expectations. Formlabs, thank you, thank you, for being such an amazing company to deal with.”

– Jared “-Tj-” Matsushige, 3D Artist, Hawaii

Additional Resources

Helpful links
- Technical specs of material
- Order the Form 1+ today
- Order a sample part
- Learn more at our support pages

Contact
- Contact the sales team
- Contact the support team