



Ramp up production.

Meet demands
with the Stratasys®
F900™ 3D printer.

Increase throughput, reach
production goals and create
large or small parts in the
broadest array of FDM®
materials on the market —
all with the factory-ready
F900 3D printer.



Built for large-scale manufacturing.

Trusted by global industry leaders in manufacturing, the high-performance F900 3D printer sets the standard for reliable, accurate 3D printing. And whether you're printing a full tray of complex parts or one large part, the F900 delivers accurate results, every time.

Large build volume.

With the largest build chamber available among Stratasys FDM printers, the F900 enables additive manufacturing at scale while delivering consistent, repeatable results.

Application versatility.

With 16 materials to choose from, ranging from engineering-grade thermoplastics to high-performance polymers, the F900 is suited for a variety of manufacturing applications including early prototyping, functional prototyping, end-use parts and production tooling. The soluble support materials also allow you to produce complex geometries in one print without assembly.

Industry-leading performance.

High-Strength Material Capability

Stratasys FDM technology is the standard in carbon fiber printing for tools and end-use parts that demand high strength and stiffness. FDM Nylon 12CF (carbon fiber) printed on the F900 offers superior mechanical properties, with an ultimate tensile strength exceeding 10,000 psi. And with a measured production variance of less than 5%, the F900 delivers these properties print after print.¹

Production Throughput

The ability to achieve consistent build results across the entire F900 build plate lets you use the entire build area, to maximize productivity and throughput. Combined with the F900's 92% print success rate, you gain the reliable performance needed to attain your production goals on schedule.¹

Near-Isotropic Parts

Parts printed on the F900 exhibit more than 80% strength in the vertical (ZX) plane compared with in-plane (XZ) performance for certain materials.^{1,2} This gives you greater flexibility to orient the part in the build chamber for optimal print results while achieving more consistent mechanical properties throughout the part.

Unmatched Consistency

The F900 provides unequalled consistency when it comes to part properties. Tests on the ultimate tensile strength of ASA material across multiple F900s in all areas of the build platform demonstrate a variance of less than 6%.¹ You get consistent, repeatable results, from the first part to the last.

Unwavering Precision

Along with repeatable print results, the F900 produces parts with the highest dimensional accuracy and precision in the industry. This has been demonstrated by tests performed on multiple printers and numerous builds over months of print operations.¹ When you need reliable print performance that meets your tolerance specifications, the F900 delivers.

Smart-factory integration.

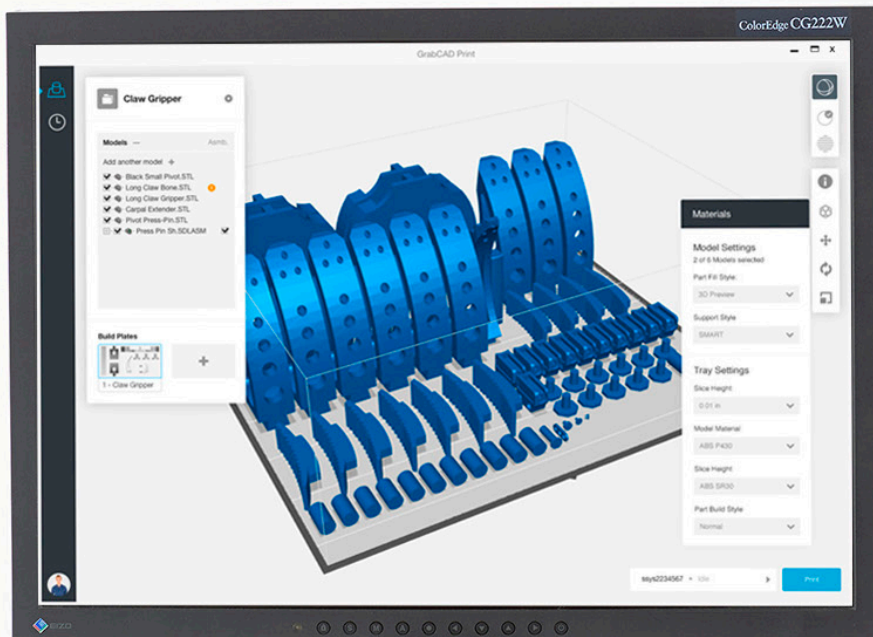
Companies embracing Industry 4.0 concepts of automation, on-demand manufacturing and data safeguards need connected 3D printing solutions that securely integrate with their smart factory infrastructure. The Fortus 900mc uses Stratasys ProtectAM™ technology to provide a variety of secure connectivity solutions, including STIG compliance that satisfies U.S. government DOD requirements.

¹ Stratasys 2020 Repeatability and Reliability study for F370, Fortus 450mc and F900 printers.

² Results are based on tests using ASA material. Test coupons were printed on multiple printers across the build plate. High-performance thermoplastics like FDM Nylon 12CF and ULTEM resins provide a lower (approximately 50%) Z-strength in comparison to XZ due to factors such as carbon fiber alignment and thermal bonding.

Streamline your factory workflow.

To help you manage your printing projects more efficiently, the F900 comes with integrated GrabCAD Print™ and Insight™ software. GrabCAD Print enables you to print directly from CAD formats using smart default settings and tooltips as well as access detailed views of models, trays and slice previews. And with Insight™, you can fine-tune part performance and material use for greater cost efficiency. The F900 is also compatible with GrabCAD Shop™ and other Software Partner solutions to help manage the full 3D printing workflow.





stratasys | F900

Get global service and support.

To help eliminate production downtime, our support team offers priority service, quick response times, fast delivery of replacement parts and scheduled preventative maintenance. We also provide expert technical training, predictable maintenance expenditures for easy budgeting, and scheduled software and hardware updates — giving you access to the most recent developments.



See the specs.

| Product Specifications | | | | | | | |
|------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------------|---|
| Materials | Layer Thickness | | | | | Support Structure | Available Colors |
| | 0.020 inch (0.508 mm) | 0.013 inch (0.330 mm) | 0.010 inch (0.254 mm) | 0.007 inch (0.178 mm) | 0.005 inch (0.127 mm) | | |
| ABS-ESD7™ | ○ | ○ | ● | ● | ○ | Soluble | ■ Black |
| ABS-M30™ | ○ | ● | ● | ● | ○ | Soluble | ■ Ivory □ White ■ Black ■ Red ■ Blue ■ Dark Gray |
| ABS-M30i™ | ○ | ● | ● | ● | ○ | Soluble | ■ Ivory |
| Antero® 800NA | ○ | ○ | ● | ○ | ○ | Breakaway (support structure) | ■ Natural |
| Antero 840CN03 | ○ | ○ | ● | ○ | ○ | Breakaway (support structure) | ■ Natural |
| ASA | ● | ● | ● | ● | ● | Soluble | ■ Black ■ Dark Gray ■ Light Gray □ White ■ Ivory ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red |
| FDM® Nylon 6 | ○ | ● | ● | ○ | ○ | Soluble | ■ Black |
| FDM® Nylon 12 | ○ | ● | ● | ● | ○ | Soluble | ■ Black |
| FDM® Nylon 12CF | ○ | ○ | ● | ○ | ○ | Soluble | ■ Black |
| PC | ○ | ● | ● | ● | ○ | Breakaway, Soluble | □ White |
| PC-ABS | ○ | ● | ● | ● | ○ | Soluble | ■ Black |
| PC-ISO™ | ○ | ● | ● | ● | ○ | Breakaway | ■ Translucent Natural □ White |
| PPSF | ○ | ○ | ● | ○ | ○ | Breakaway | ■ Tan |
| ULTEM™ 9085 resin | ○ | ● | ● | ○ | ○ | Breakaway | ■ Tan ■ Black |
| ULTEM™ 1010 resin | ● | ● | ● | ○ | ○ | Breakaway | ■ Natural |
| ST-130 | ○ | ● | ○ | ○ | ○ | Breakaway | ■ Natural |

Product Specifications

System Size and Weight 2,772 x 1,683 x 2,027 mm (109.1 x 66.3 x 78.1 in.); 2,869 kg (6,325 lbs.)
With Manufacturing Light Tower: 2,772 x 1,683 x 2,281 mm (109.1 x 66.3 x 89.8 in.)

Achievable Accuracy Parts are produced within an accuracy of +/- .089 mm or +/- .0015 mm per mm, whichever is greater (+/- .0035 in. or +/- .0015 in. per in., whichever is greater). Z part accuracy includes an additional tolerance of -0.000/+ slice height. Note: Accuracy is geometry-dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield.

Network Communication 10/100 base T connection. Ethernet protocol.

Operator Attendance Limited attendance for job start and stop required.

Power Requirements 230 VAC (three phase) 50/60Hz, 40 Amp circuit

Additional Requirements Compressed air required: 90-120 psi with a minimum flow of 20 CFM.

Regulatory Compliance CE, cTUVus, RCM, EAC, FCC Part B

Software All Fortus® systems include Insight and Control Center™ job processing and management software. Compatible with GrabCAD Print for use with job reports, scheduling and remote monitoring. U.S. government agency STIG compliance via Stratasys ProtectAM technology is powered by Red Hat® Enterprise Linux® software.

Operating System Windows 10 and newer, Windows Server 2016 and newer.
Only 64-bit versions of Windows are supported.

Ready to ramp up production?

Learn more about the F900 3D printer
at Stratasys.com.



Stratasys Headquarters

7665 Commerce Way,
Eden Prairie, MN 55344
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

1 Holtzman St., Science Park,
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

stratasys.com
ISO 9001:2015 Certified

© 2021 Stratasys. All rights reserved. Stratasys, the Stratasys Signet logo, FDM and Fortus are registered trademarks of Stratasys Inc. F900, Insight, Control Center, GrabCAD Print, GrabCAD Shop, ProtectAM, ABS-ESD7, ABS-M30, ABS-M30i, FDM Nylon 6, FDM Nylon 12, FDM Nylon 12CF, PC-ISO, Antero 800NA and Antero 840CN03 are trademarks of Stratasys, Inc. ULTEM™ is a registered trademark of SABIC or affiliates. Red Hat is a registered trademark of Red Hat, Inc. in the United States and other countries. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance, or use of these non-Stratasys products. Product specifications subject to change without notice. BR_FDM_F900_0721a

