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.

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AsorCAD

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Brochure

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 unequaled 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.

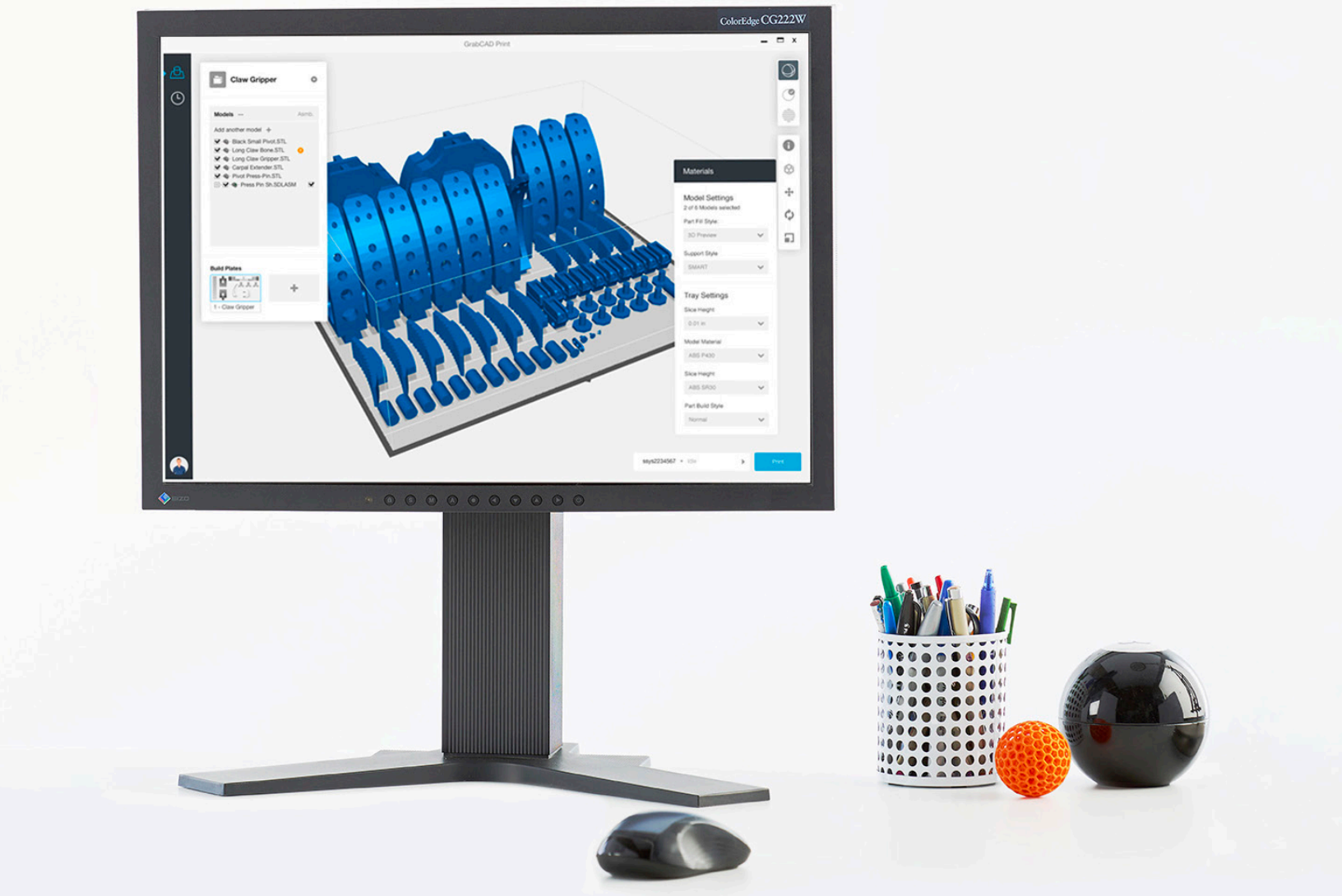
1 Stratasys 2020 Repeatability and Reliability study for F370, Fortus 450mc and F900 printers.
2 Results are based on tests using ASA material. Test coupons were printed on multiple printers across the build platen. High-performance thermoplastics like FDM Nylon 12CF and ULTEM™ resins provide a lower (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™ (with an optional upgrade to GrabCAD Print Pro™) and Insight™ software. GrabCAD Print supports changes that can be made directly to inserts, self-supporting holes, and hard infills. Geometry-targeted tools and advanced 3D slicer software reduces weight and material without compromising part strength.

The upgraded version of the standard software, GrabCAD Print Pro, is a comprehensive solution which includes labeling for traceability, automation, templates, part cost estimation, a sustainability calculator, and automatic model correct. This is optimal for process-controlled environments which require high-performance end-use parts or prototypes.

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 and GrabCAD Print Pro 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.

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