

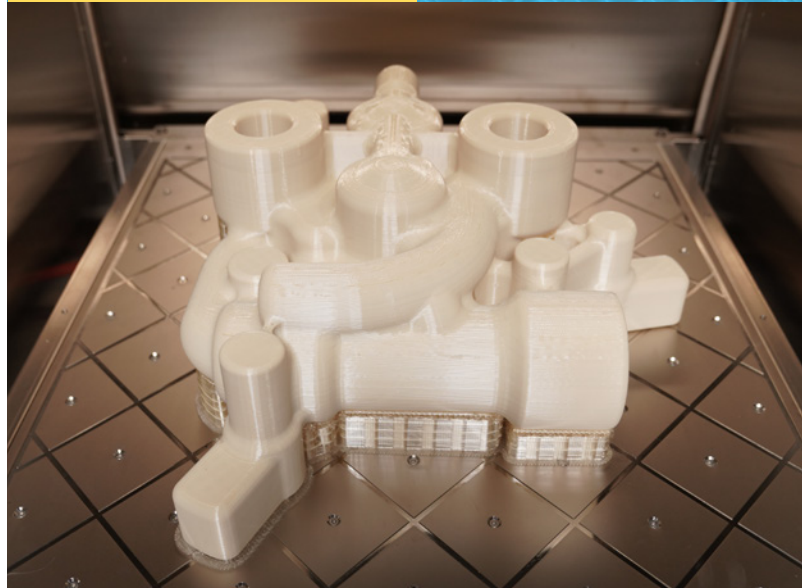


BROCHURE
FDM

F3300 Industrial FDM Printer

Minimal labor, lower cost, faster throughput.

Lower your production costs and print in half the time compared to legacy fused deposition 3D printers. The F3300™ embodies advanced FDM® technology to minimize labor and maximize economics.



F3300 3D Printer



What Can You Achieve With the F3300?

Lower your cost to print.

How does the F3300 do it?

- Faster print speed
- Increased part yield through increased reliability
- Reduced labor in printer operation
- Lower material pricing

Increase your print productivity.

What innovations enable this?

- Increased gantry speed and extruder positioning
- Faster material extrusion
- Multiple extruders that reduce non-print time during a build

Reduce your 3D printing labor.

What features make it possible?

- Large, intuitive user interface screen
- Front-mounted, easily installed extruders
- Automatic calibration, eliminating the laborious manual procedure
- Simpler CAD-to-print workflow enabled by easy-to-use software

Materials	ASA, PC (Polycarbonate), FDM® Nylon 12CF, ULTEM™ 9085 resin
Build envelope	600 x 600 x 800 mm (23.6 x 23.6 x 31.5 in.)
Accuracy	+/- .067 mm or +/- .0015 mm per mm, whichever is greater (+/- .0026 in. or +/- .0015 in. per in., whichever is greater). Z part accuracy includes an additional tolerance of -0.000/+ slice height.
System size and weight	203.2 x 162.6 x 236.2 cm (80 x 64 x 93 in.) 1360 kg (3000 lbs.)
Software	GrabCAD Print™, GrabCAD Print Pro™ and Insight™

Common Industries

- Aerospace
- Automotive
- Government
- Service Bureaus

User Applications

- Tooling/jigs & fixtures
- Obsolete part replacement
- Spare parts
- Functional prototyping
- Low-volume production

Compared to Legacy Extrusion Printers:

up to
2X
Faster Time-to-Print

50%
More Reliable

25%
Increased Accuracy
and Repeatability

25%
Lower Part Cost

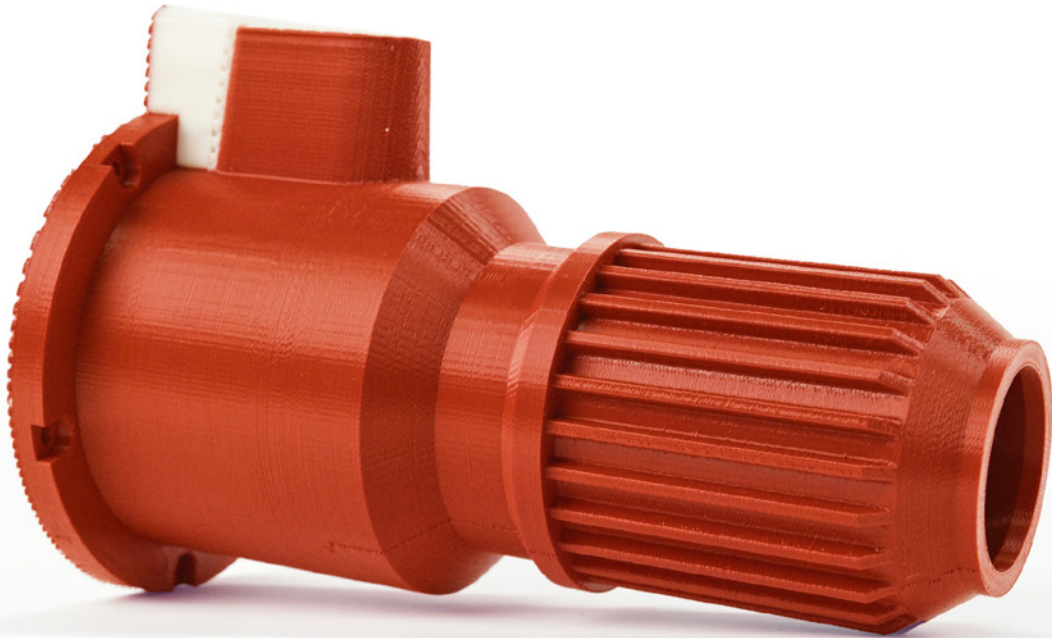
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Lower Your FDM Cost-Per-Part.



Print parts for less compared to current-market FDM printers. The F3300 redefines state of the art for FDM technology with completely redesigned hardware, software, and systems that lower your production costs.

Pivotal factors that enable lower part costs include:



Faster Print Speed

The F3300 prints up to twice the speed of current industrial FDM printers, producing twice as many parts in the same amount of time. Factored against the printer's amortized cost, the more parts you print per unit of time, the lower their cost.



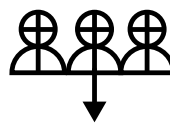
Lower Material Pricing

Large 4100 cc (250 cubic inch) material spools and simpler spool design lessen their manufacturing cost, particularly for high-performance materials. As a result, this lowers material prices and reduces a customer's cost to print each part.



High Part Yield

Completely redesigned systems enable increased part quality and higher yields. More parts produced and reduced scrap lowers overall part cost.



Reduced Labor

The F3300 incorporates features like autocalibration that eliminate or reduce the labor required to operate the printer. This takes cost out of your operation, lowering your cost to produce parts.



Double Your **Throughput.**

The F3300 employs new technology that provides a step change in print speed compared to other FDM printers. These advancements let you print at rates up to twice what current high-production FDM systems are capable of. This ultimately means you can produce 1.5X to 2X the number of parts in a given timespan, depending on part geometry.

Significant developments that help achieve the F3300's higher throughput include:



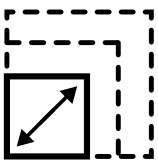
Faster Gantry Speeds

Linear motors and linear encoders – the mechanisms that move and position the print heads – enable faster and more precise movement than printers utilizing mechanical belts and pulleys.



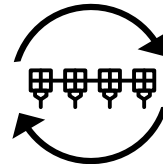
Multiple Extruders

Multiple extruders eliminate non-printing time when a single-extrusion printer requires time to heat up and cool down to switch between model and support material.



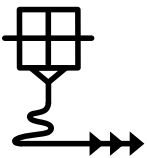
Multi-Resolution Printing

Multiple extruders also allow printing with small and large-width bead thicknesses on the same print job. Thick beads provide faster buildup where aesthetics are not critical, while smaller bead widths are used in areas that require a finer surface finish.



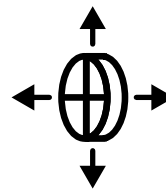
Multiple Extruders and Automatic Tool Changer

Four preloaded, ready-to-print extruders multiply the printer's efficiency. In addition, a patented tool changer automatically swaps out extruders when needed, eliminating the time required to change materials or restart a print job.



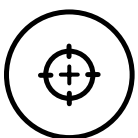
Faster Extrusion Rates

New extruder design pushes material through at a faster rate compared to legacy extrusion technology.



Larger Material Spools

4100 cc (250 ci) material spools reduce reloading frequency, saving critical time in a production environment.



Autocalibration

Time previously required to print and evaluate calibration boxes after a material change is eliminated. Calibration is now handled automatically in just a few minutes with no operator input required.





Print with Benchmark Reliability.

3D printing in a production environment demands predictable performance. The F3300's next-level reliability starts with a robust process-monitoring capability and mechanical design focused on delivering maximum uptime and repeatable performance.

EtherCAT Onboard Communication

An EtherCAT protocol provides comprehensive monitoring and communication with each F3300 subsystem at high speed and efficiency. This allows tight synchronicity among the systems controlling the print process, enabling highly accurate, repeatable, and reliable print results.

Redundancy for Critical Systems

Multiple extrusion heads mean a standby extruder can take over if the primary unit faults, avoiding a failed build. Since each extruder has its own material supply, a different extrusion head can take over printing in less than a minute, preventing auto-changeover failures that halt the build process.

Extruder Instrumentation

Strain gauges on the extruders coupled with the F3300's extensive self-monitoring network signal when extrusion parameters such as push force, position, temperature, or velocity are incorrect or degraded. This affords predictive failure monitoring, allowing you to detect failures and take corrective action before they occur.





Make Parts and Tools with Industry-leading Print Quality.

The F3300 introduces new capabilities that increase the quality of FDM 3D printed parts. Key among them are features that regulate material moisture and provide more control over the printing process.

Integrated Material Dryers

Eliminate poor quality and failed parts because of material moisture. Onboard dryers that combine dry air and temperature keep materials at the proper humidity levels to maintain optimal mechanical properties. This includes the ability to set a drying prescription that the onboard dryer will execute to establish the proper material desiccation.

Precise Gantry Controls

The F3300's gantry system, which controls where material is deposited, is governed by linear encoders, which are among the most accurate positioning controls in machine automation. The result is precise material application and correct print results.

Advanced Extruder Control

The repeatability and quality required for production applications demand tight control of the material extrusion process. F3300 extruders employ physical features and software algorithms that allow exacting temperature control of the plastic flow, resulting in accurate material application.



Maximize Utilization with Easy-to-Use Operation.

State-of-the-art technology doesn't have to come with a steep learning curve. Besides embodying the latest FDM technology advancements, the F3300 includes intentional features that make it simple and straightforward to operate. At a time when skilled labor is increasingly scarce, the F3300 is purposely designed to allow virtually anyone to use it with minimal instruction. Using design features from the proven simplicity of our F123 Series™ printers, the F3300 employs the following user-friendly elements:

Large Intuitive User Interface

Easy accessibility starts with an ample printer control touchscreen with two internal camera views and large color displays of extruder, material, and print status.

Autocalibration

Calibrating the printer after a material change is handled automatically in minutes by the printer, requiring no operator input.

Easy-Access Print Bays

All four print bays are conveniently located in the front of the printer. Loading material is a basic process of placing the spool in the bay and inserting the end of the filament into the feed port.

Front-Mounted Plug-In Extruders

Extruders are conveniently located on the tool changer in the front of the printer for easy accessibility and replacement.

More Customer-Replaceable Units

The F3300 includes more customer-replaceable components than legacy FDM systems. This lets you get operational much faster vs. having to wait for field support to replace the part should a fault occur.

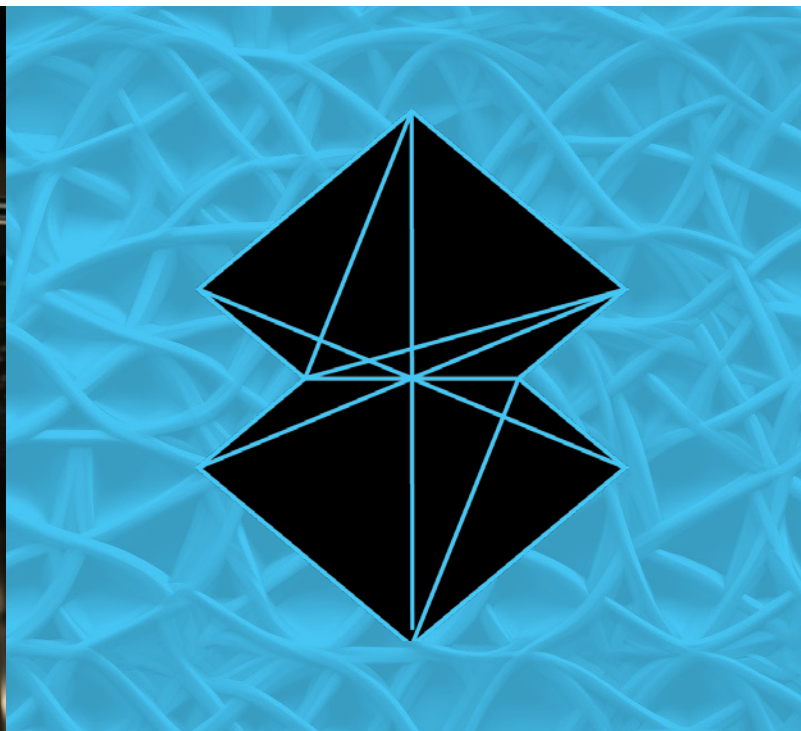
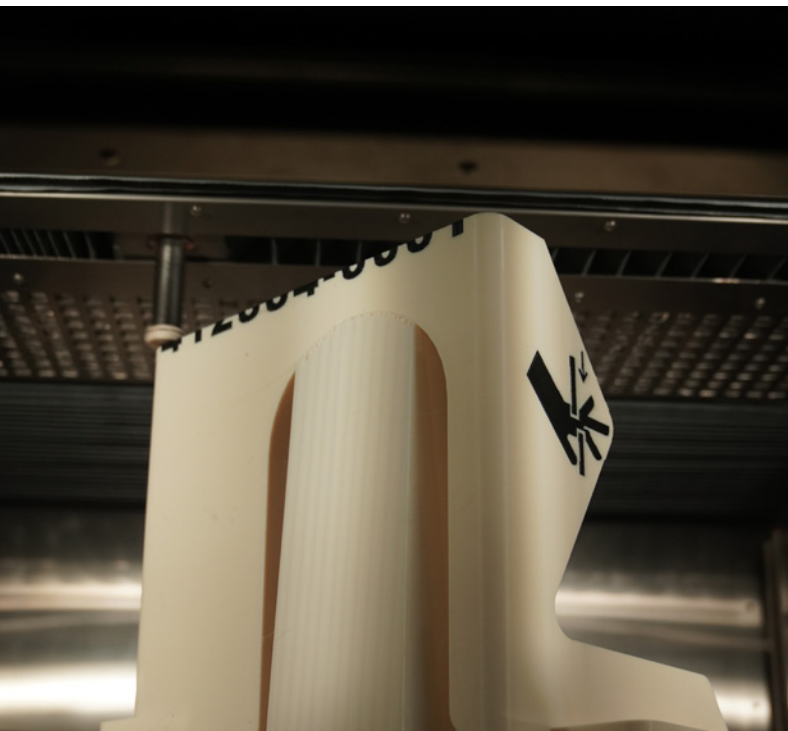
Empowering User-Friendly Software

GrabCAD Print™ offers an intuitive, easy, CAD-to-print workflow with features that let you check build file integrity, organize print queues, and get real-time print status notifications. GrabCAD Print Pro™ contains all the features of GrabCAD Print plus additional workflow enhancement tools. Insight™ software and MTConnect are also included for users who want greater print processing control and factory-floor connectivity.



Stratasys invented FDM Technology and we've been perfecting it for over 30 years. Our engineers and technicians know how to make the most of your printer investment and address problems when they occur.

When you need help, our global support staff is here to assist, from professional installations to application guidance to contract manufacturing services. Whether optimizing your print results, solving a problem, providing training, or making parts for you, Stratasys support and contract services have the experience and reach to keep you operational.



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