

Stratasys F770



What do customers need?

- Large, complex, functional parts quickly and easily
- Consistent, accurate and reliable printing of large parts

What are they doing now?

Using the Stratasys F770™, customers will be able to print large parts faster and cheaper than making them with traditional methods or other 3D printing options. Using the hood vent as an example, printing that part on the F770 is:

- 27% cheaper than using the F900™¹
- 81% cheaper and 33% faster than laser sintering
- 64% cheaper and 33% faster than SD SL

Additionally, the part with its current geometries is not possible to produce using FFF or CNC machines. The F770 allows customers to print the parts they want, not the parts they're limited to cheaper and faster.



F770 offers...

- Large, accurate all-in-one parts. No more joining and assembly for large AM parts.
- Consistent builds. Parts print the same, every time.
- Strong, solid parts. Fully dense material with easy options to control infill and contours.
- CAD-to-print fidelity. What you design in CAD comes out as a printed part from broad surfaces to exacting details.
- Operational efficiency. No need to use valuable engineering resources to fix unreliable printers or reprint jobs.
- System reliability. F770 development testing included over 33,000 hours of printing, including 14,300 hours of life testing in the XYZ print planes equating to over seven million meters (over 300 million inches) of travel, validating system durability and reliability. Over 1700 hours of controller software verification testing was also accomplished.
- Design and print without limits. No more limits to interior channels and overhanging details using Stratasys proven soluble support.
- Quick success. Intuitive user design in both hardware and software. Professional printing easily using GrabCAD Print™ software.
- Global service available at a local level. Technical resources and support when and where you need it to keep you up and running.

For production managers, manufacturing engineers, shop managers and educators who need to reliably and easily create very large, accurate parts.

What makes the F770 superior when compared to other existing solutions?

- Production floor ready. No one else offers an industrial-ready printer with full and proven global customer support including customer service and application engineering, as well as connectivity and factory-floor regulatory compliance except Stratasys, setting a new price level for high quality, large parts.

¹ F900 is 15% faster than the F770 when printing the part mentioned.

F770 Specifications:

- Large build volume: 1000mm x 610mm x 610mm (39.4" x 24" x 24")
- Most used materials in the industry: 200ci ABS and ASA with 200ci SR-30 soluble support
- Software: GrabCAD Print and Insight™
- Manufacturing Floor Ready: MTConnect and E-Stop
- Printing speed is 1.43ci per hour with potential speed gains of 50% based on geometry

F770 Technical Innovations:

- Linear motors for more controlled and precise printing, virtually maintenance free
- Fully controlled and monitored heated build chamber for stronger parts and control over curl and warp
- GrabCAD Print offering direct CAD-to-print, plus advanced functions specifically for easy large-part print success

Applications:

- Manufacturing Floor:
 - Inspection & Quality: fixtures, check tools, holding devices, surrogate parts
 - Fabrication & Assembly: end effectors, soft jaws, drill guides, ergonomic aids, safety guards, alignment and welding fixtures
- Prototyping and Production
 - Panels: large panels and skins for functional prototyping
 - Assemblies: complex large parts previously impossible or printed in multiple sections and assembled
 - Low Volume Production: large trays of end-use parts

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