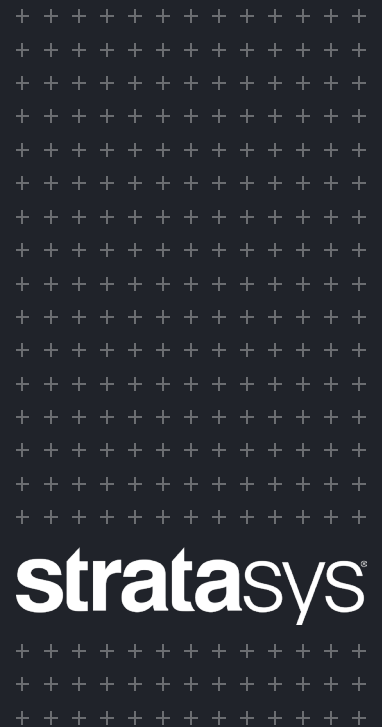




Stratasys F370 CR

Augment Machining With
Composite 3D Printing

Supplement your fixture and part fabrication with FDM composite 3D printing to gain speed, throughput, and cost benefits.





+ Meet deadlines and stay on budget with high-strength composite printing.

Make workholding fixtures, soft jaws, and component parts with composite 3D printing in a fraction of the time and cost it takes to machine a metal equivalent. The F370CR printer supplement traditional fabrication technologies, allowing industrial manufacturers to replace metal components with high-strength 3D printed composite parts. This accelerates throughput while avoiding the opportunity cost of using production resources or the lead time of outsourcing.

The F370CR printer uses ABS-CF10 and FDM® Nylon-CF10 composite materials, both reinforced with chopped carbon fiber, 10% by weight for strength and stiffness. F370CR soluble support material enables complex designs that cannot be made with conventional machining or other 3D printers that don't have this capability. Four layer resolutions give you flexibility on part quality and print speed. Variable part density gives you the freedom to make fully-dense, solid parts or adjust the infill to save weight and material use.

+ Protect your production schedule with unmatched uptime.

The F370 CR composite printer is built on the same platform as the proven F123 Series, with a verified 99% uptime and a 99% dimensional repeatability performance. Material tuning – optimizing print parameters using over 220 measurements – ensures consistent material performance across all resolutions and successful print results.

Built-in durability starts with hardened components and print heads to ensure longevity using abrasive composite materials. Sealed filament bays reduce material moisture exposure to maintain stable material mechanical properties, so printed parts meet strength specifications. A fully heated build chamber enables higher strength between layers than other printers in this class that use only a heated build platen. Together, these features offer unmatched reliability in an additive manufacturing system, with repeatable performance, print after print.



Simple setup and unattended operation.

You don't need special training or highly skilled technicians to operate F370CR printers. Job setup simply involves importing the part's CAD file using GrabCAD Print™ software and initiating the print. The printer requires no further oversight until the job is done.

GrabCAD Print software provides a simple and intuitive CAD-to-print workflow and includes advanced features to ensure successful prints. For users who want deeper control of print options, Insight™ software is also included on the F370CR. MTConnect capabilities make it easy to integrate the printers into a connected factory floor. This industry-standard communication API lets you collect, analyze and display machine data in a useful way.

Features that add to efficient and easy operation include printing in multiple resolutions from a single print head, avoiding print head changes. In addition, the F370CR includes an auto-changeover feature, so you won't have to interrupt a build to refill material. When a refill is needed, it's as easy as dropping the canister in place and inserting the filament into the feed slot. The printer takes it from there. Print head changes, if needed, involve only a quick snap-out/snap-in step.

Other convenience features include reusable build trays, a built-in camera for remote monitoring, and a 7-inch control touchscreen. F123CR printers are also easy to move since they roll on casters and power is supplied from standard wall outlets.

+ Application versatility enhanced by open materials.

F370CR printers offer application versatility by operating with a range of thermoplastic materials. In addition to high-strength composites, F370CR printers give you the flexibility to print with other engineering thermoplastics to cover more use cases. This multi-material capability offers the convenience of printing different jobs in different materials. There's no need for separate printers dedicated to composite and non-composite materials.

An open material platform enhances versatility even further by allowing you to expand your application space with new materials you develop or ones developed in partnership between Stratasys and a third party. The Stratasys open material ecosystem includes validated materials that have received basic reliability testing, and materials created outside the Stratasys material development process.

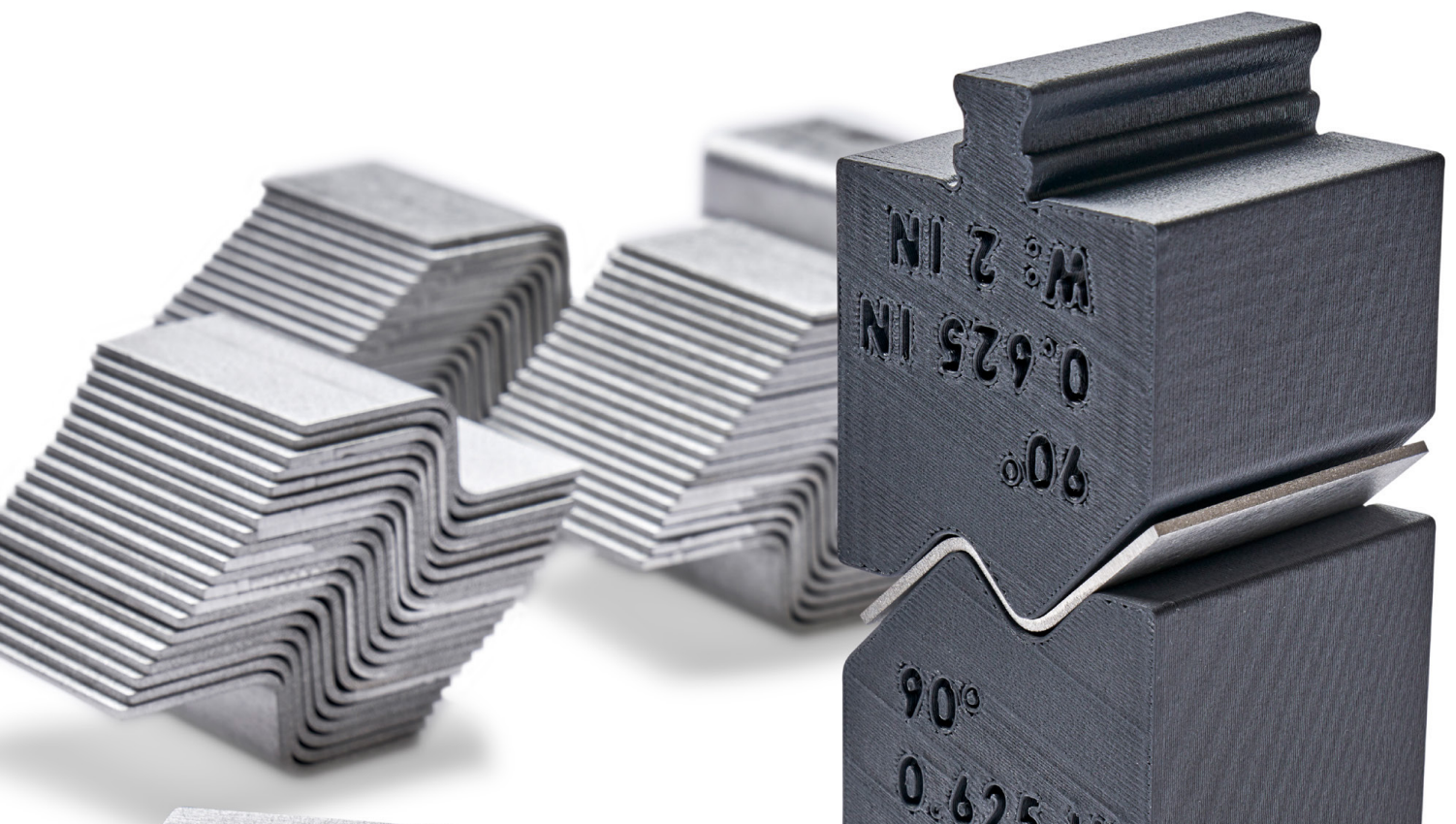
Keep your options open. With F370CR printers, you buy one printer but get the versatility of multiple materials, including soluble support, which offers the freedom to print any geometry without restriction.

Unparalleled support, when you need it.

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

When you need help, our worldwide support staff is here to assist, from professional installations to application guidance to on-site troubleshooting. Whether optimizing your print results, solving a problem, or providing training, Stratasys service and support have the experience and global reach to keep you operational.

To learn more about the Stratasys F370CR printers, contact us at sys-uk.com/contact.



See the specs.

Product Specifications

| | |
|------------------------|---|
| System Size and Weight | 626v x 864 x 711 mm (64 x 34 x 28 in.) 500 lbs (227 Kg) |
| Build Tray Dimensions | 355 mm x 254 mm x 355 mm (14 x 10 x 14 in.) |
| Material Delivery | 4 material spool bays, 2 for model, 2 for support located in a drawer on the front of the unit |
| Achievable Accuracy | Parts are produced within an accuracy of +/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater |
| Network Connectivity | Wired: TCP/IP protocols at 100 Mbps minimum 100 base T, Ethernet protocol, RJ45 connector Wireless-ready: IEEE 802.11n, g, or b; Authentication: WPA2-PSK, 802.1x EAP Encryption: CCMP, TKIP |
| Operator Attendance | Limited attendance for job start and stop required |
| Software | GrabCAD Print software, MTConnect enabled |
| Operating Environment | Operating: Temperature: 15 – 30 °C (59 – 86 °F), Humidity: 30 – 70% RH Storage: Temperature: 0 – 35 °C (32 – 95 °F), Humidity: 20 – 90% RH |
| Power Requirements | 100-132V/15A or 200-240V/7A. 50/60 Hz |
| Regulatory Compliance | CE (low-voltage and EMC directive), FCC, EAC, cTUVus, FCC, KC, RoHs, WEEE, Reach, RCM |
| Operating System | Windows 10 (64 bit only) and Window 11 with a minimum of 4GB RAM (8GB or more recommended) |

Material Specifications

Layer Thickness

| Material | 0.013 in. (0.330 mm) | 0.010 in. (0.254 mm) | 0.007 in. (0.178 mm) | 0.005 in. (0.127 mm) |
|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| ABS-M30 | ● | ● | ● | ● |
| ASA | ● | ● | ● | ● |
| PC-ABS | ● | ● | ● | ● |
| ABS-ESD7 | | ● | | |
| Diran 410MF07 | ● | ● | ● | |
| FDM TPU 92A | | ● | ● | |
| ABS-CF10 | ● | ● | ● | |
| FDM Nylon-CF10 | ● | ● | ● | |



Ready to transform your manufacturing?

Learn more about the F370 CR
3D printer at sys-uk.com.



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