# F370CR Composite Printer

**The F370®CR is a composite-ready 3D printer capable of printing engineering thermoplastics and composite carbon-filled materials. Hardened components and dedicated print heads provide the durability for extended life necessary when printing with carbon-filled plastics. The combination of composite and standard polymers offers the versatility to cover many manufacturing applications with one printer. Hands-free soluble support material enables printing complex geometries and hands-free post-processing.**

The F370CR printer has multiple features designed for ease of use and high uptime.

- GrabCAD Print™ and Insight™ software provide a simple workflow and in-depth print process control
- Fully heated build chamber enables consistent print results with multiple infills from sparse to fully dense
- Material bays located in pullout drawers allow for easy accessibility and fast changes
- Auto changeover capability extends print times
- Built-in camera provides visual remote print monitoring
- Power is supplied by standard wall outlets
- Printers are mounted on casters for easy mobility

The F370CR, under new part number 123-80010, is GREENGUARD Certified per UL 2904 when using ABS, ASA, Nylon-CF10 with QSR and SUP4000B support materials. GREENGUARD Certification validates that the printer and material combination meet low chemical emission limits.

| F370CR Printer and Material Specifications | |
|---|---|
| **System Size/Weight** | 1,626 x 864 x 711 mm (64 x 34 x 28 in.)<br>500 lbs (227 Kg) |
| **Build Tray Dimensions** | 355 x 254 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** | **XY part accuracy:** ± 0.200 mm or ± 0.002 mm/mm (± 0.008 in. or ± 0.002 in./in.), whichever is greater.<br>**Z part accuracy:** ± 0.200 mm or ± 0.002 mm/mm (± 0.008 in. or ± 0.002 in./in.), whichever is greater, plus one layer height.<br>Accuracy is geometry and material dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield. |
| **Network Connectivity** | **Wired:** TCP/IPv6 protocols at 100 Mbps minimum 100 base T, Ethernet protocol, RJ45 connector<br>**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, GrabCAD Print Pro[1], and Insight Software, MTConnect enabled |
| **Operating Environment** | **Operating Temperature**: 15 – 30 °C (59 – 86 °F), Humidity: 30 – 70% RH<br>**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 and 11 (64 bit only) with a minimum of 8GB RAM (16GB or more recommended) |
| **Certifications[2]** | GREENGUARD Certified per UL 2904 when using ABS-M30, ASA, Nylon-CF10 with QSR and SUP4000B support materials |

[1] GrabCAD Print Pro is available on a subscription basis.
[2] GREENGUARD Certification is available on new F370CR systems under part number 123-80010.

## Material Options

### Stratasys Preferred Materials

| Material | Layer Thickness 0.13 mm (0.005 in.) | 0.18 mm (0.007 in.) | 0.25 mm (0.010 in.) | 0.33 mm (0.013 in.) | Support Structure | Available Colors |
|---|---|---|---|---|---|---|
| ABS-CF10 | ● [1] | ● | ● | ● | Soluble | ■ Black |
| ABS-ESD7 | ○ | ○ | ● | ○ | Soluble | ■ Black |
| ABS-M30™ | ● | ● | ● | ● | Soluble | ■ Natural, ■ Black, □ White, ■ Dark Gray, ■ Blue, ■ Red, ■ Green, ■ Yellow, ■ Orange |
| ASA | ● | ● | ● | ● | Soluble | ■ Natural, ■ Black, □ White, ■ Dark Gray, ■ Light Gray, ■ Dark Blue, ■ Green, ■ Yellow, ■ Orange, ■ Red |
| Diran 410MF07 | ○ | ● | ● | ● | Breakaway | ■ Dark Gray |
| FDM® Nylon 12CF [2] | ○ | ○ | ● | ○ | Soluble / Breakaway | ■ Black |
| FDM Nylon-CF10 [3] | ○ | ● | ● | ● | Soluble / Breakaway | ■ Dark Gray |
| FDM TPU 92A [4] | ○ | ● | ● | ○ | Soluble | ■ Black |
| PC-ABS | ● | ● | ● | ● | Soluble | ■ Black, □ White |

### Stratasys Validated Materials

| Material | Layer Thickness 0.13 mm (0.005 in.) | 0.18 mm (0.007 in.) | 0.25 mm (0.010 in.) | 0.33 mm (0.013 in.) | Support Structure | Available Colors |
|---|---|---|---|---|---|---|
| FDM TPU 92A [4] | ○ | ○ | ● | ○ | Soluble | ■ Red |

[1] F123 T14H Head (123-00603-S) is the only approved head for 0.13 mm (0.005 in.) with ABS-CF10.
[2] Dedicated N20H hardened print head (123-00901-S) is required to print with FDM Nylon 12CF.
[3] Dedicated FDM Nylon-CF10 hardened print head (123-00602-S) is required to print with FDM Nylon-CF10.
[4] Dedicated elastomer extrusion head (123-00321-S) is required to print with FDM TPU 92A.

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