

F123CR Composite Series

The F123CR printer series comprises the F190[™]CR and F370[®]CR composite printers, equipped with hardened components to operate with composite materials. Both systems are available with ABS-CF10 and FDM[®] Nylon-CF10 carbon fiber-reinforced composite materials. These materials operate with dedicated print heads for extended life. In addition, up to six engineering-grade thermoplastics are available for broader application versatility. Hands-free soluble support material enables printing highly complex parts and hands-free post-processing.

F123CR composite series printers have 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 on the F370CR 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

F190CR and F370CR Printer and Material Specifications				
System Size/Weight	1626 x 864 x 711 mm (64 x 34 x 28 in.)			
	500 lbs (227 Kg)			
Build Tray Dimensions	F190CR: 305 mm x 254 mm x 305 mm (12 x 10 x 12 in.)			
	F370CR: 355 mm x 254 mm x 355 mm (14 x 10 x 14 in.)			
Material Delivery	F190CR: 2 material spool bays, 1 for model, 1 for support located in a drawer on the front of the unit			
	F370CR: 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	F190CR: GrabCAD Print software, MTConnect enabled			
	F370CR: GrabCAD Print and Insight 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)			



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Materials	
Printer	Model Material
F190CR	ABS-M30, ASA, FDM [®] TPU 92A, ABS-CF10, FDM Nylon-CF10
E370CB	ABS-M30, ASA, FDM TPU 92A, ABS-ESD7™, PC-ABS™, Diran™ 410MF07,
F3700n	ABS-CF10, FDM Nylon-CF10

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	•	•	٠	٠
ASA	٠	٠	٠	٠
PC-ABS	٠	٠	٠	٠
ABS-ESD7		•		
Diran 410MF07	•	•	٠	
FDM TPU 92A		•	٠	
ABS-CF101	•	•	٠	
FDM Nylon-CF10 ²	•	•	٠	

¹ Hardened print head is recommended for extended head life but will also operate using standard F123 and ABS-CF10 print heads.

² Dedicated FDM Nylon-CF10 hardened print head required.



alphacam GmbH Erlenwiesen 16 D-73614 Schorndorf Tel.: +49 7181 9222-0 info@alphacam.de alphacam austria GmbH Handelskai 92, Gate1 / 2. OG / Top A A-1200 Wien Tel.: +43 1 3619 600-0 info@alphacam.at alphacam swiss GmbH Zürcherstrasse 14 CH-8400 Winterthur Tel.: +41 52 26207-50 info@alphacam.ch



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Spec Sheet

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