Markforged

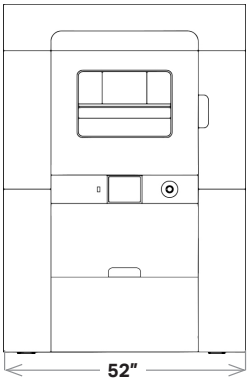
PRODUCT SPECIFICATIONS

FX20

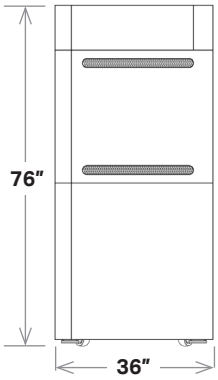
FX20 is the biggest, fastest, smartest printer in the Markforged lineup. Engineered to deliver strength, accuracy, and consistency, FX20 produces mission-critical parts for the most demanding applications, from the factory floor to the skies and beyond. Replace long lead-time metals with high-temperature thermoplastics and continuous fiber reinforced composites—with FX20 and the cloud-connected, continuously learning Digital Forge platform, globally distributed production at the click of a button is now a reality.

Printer Properties	**Process**	Fused Filament Fabrication, Continuous Fiber Reinforcement
	Build Volume	Single-nozzle builds: 525 x 400 x 400 mm (20.6 x 15.7 x 15.7 in) Multi-nozzle builds: 500 x 400 x 400 mm (19.7 x 15.7 x 15.7 in)
	Weight	530 kg (1170 lbs)
	Machine Footprint	1325 x 900 x 1925 mm (52.2 x 35.5 x 75.75 in)
	Temperature Control	Up to 200°C steady-state
	Print System	Direct-drive print head with three nozzles (two plastic, one fiber)
	Power	200-240 VAC 2W+PE 40A // 200-240 VAC 3Ø+PE 24A // 347-415 VAC 3Ø+N+PE 14A; 50-60 Hz
	Safety	IEC/UL/CSA 62368-1 certified, CE Marked, EU Machinery Directive compliant
Materials	**Plastics**	Vega™, ULTEM™ 9085 Filament, Onyx®, Onyx FR™, Onyx ESD™
	Continuous Fibers	Carbon Fiber, Fiberglass, Aramid Fiber (Kevlar®)*, Carbon Fiber HT, Carbon Fiber FR™
Part Properties	**Layer Height**	50 µm minimum, 250 µm maximum
	Accuracy	+/- 125 µm or +/- 0.0015 mm per mm (whichever is greater)
Software	**Eiger**	Secure digital library, powerful slicer, and printer management (premium options available at cost)
	Security	Two-factor authentication, org admin access, single sign-on, MFP print files encrypted by default and tamper resistant
	Connectivity	Eiger connection and over-the-air updates via Ethernet

FRONT VIEW



SIDE VIEW



* Material committed, but not yet compatible with FX20.

All specifications approximate and subject to change without notice. Support for Markforged plastic and fiber materials will be added over time, though not in every combination.
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