

Fiber™ Printer Specifications

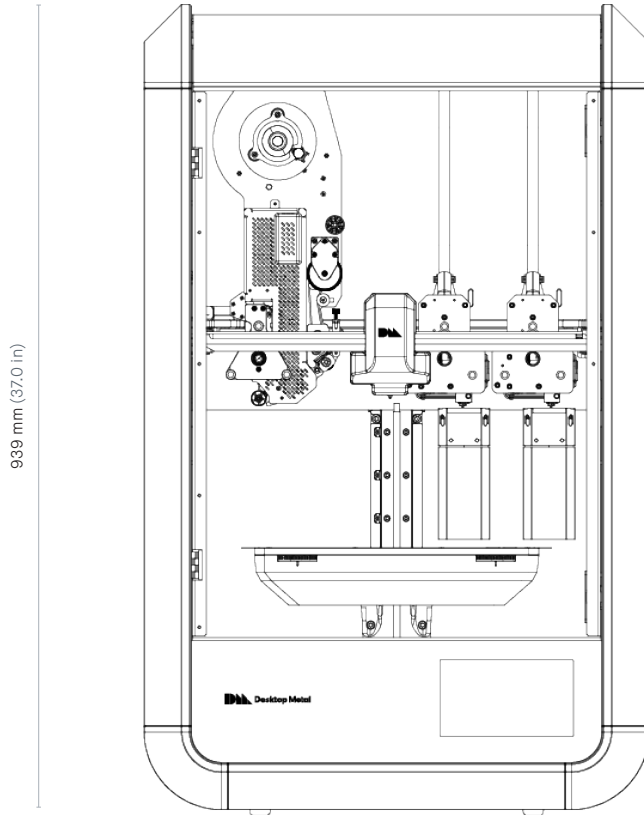
Fiber™ is the only composite 3D printer to use Micro Automated Fiber Placement (μAFP™)—unlocking exceptional composite part strength for a desktop printer. Featuring closed loop heat control, the μAFP™ head constructs a high-density, continuous fiber reinforcement while the FFF printhead enables a high-resolution exterior shell.

Utilizing tapes featuring standard modulus 12k tow carbon fibers, up to 60% fiber volume fraction, and exceptional resin impregnation, Fiber™ is able to achieve continuous fiber reinforcement with less than 1% porosity—delivering parts with up to 2x the strength of steel at 1/2 the weight of aluminum.

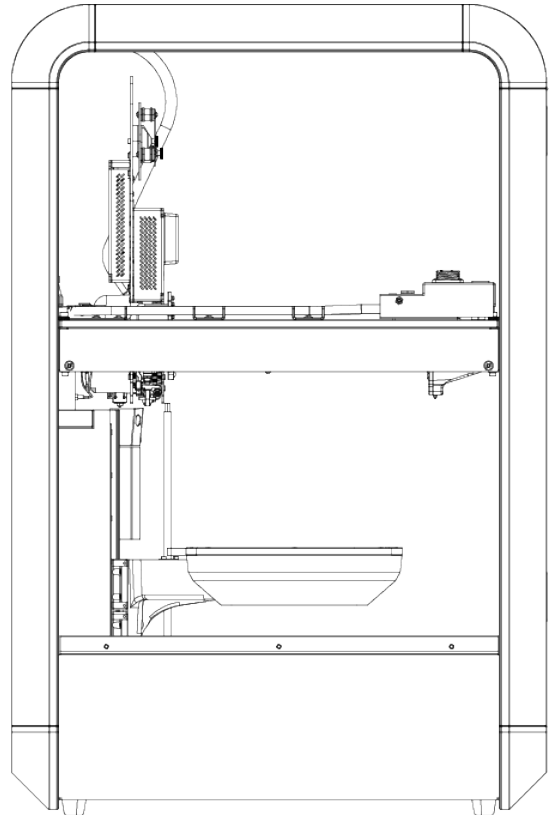
TECHNOLOGY	Print technology	Micro Automated Fiber Placement (μAFP™) Fused filament fabrication (FFF)
	Print system	CoreXY with robotic tool changer
PERFORMANCE	Max build rate	20 cm ³ /hr (1.2 in ³ /hr)
	Layer height	130 μm - 250 μm
PHYSICAL	External dimension	586 x 620 x 939 mm (23.1 x 24.4 x 37.0 in)
	Weight	68 kg (150 lbs)
	Build envelope	FFF: 305 x 245 x 270 mm (12.0 x 9.6 x 10.6 in) μAFP™: 230 x 230 x 270 mm (9.0 x 9.0 x 10.6 in)
	Build plate	Heated up to 149 °C (300 °F)
	Print Sheet	Magnetically coupled, flexible spring steel sheet, double-sided, reusable
	Nozzle diameter	0.40 mm
	Onboard controls	7-inch touchscreen display
ELECTRICAL	Power requirements	100(-0%) to 240 VAC, 50/60 Hz, 15 A, 1-phase
MEDIA	FFF build media	Thermoplastic filament + chopped fiber Diameter: 1.75 mm (0.07 in)
	μAFP™ build media	Thermoplastic μAFP™ prepreg tape + continuous fiber Width: 3 mm (0.12 in)
	Compatible material systems	Nylon(PA6)+Carbon Fiber Nylon(PA6)+Fiberglass PEEK+Carbon Fiber PEKK+Carbon Fiber
PLATFORM	Network connectivity	Ethernet, USB
	Software	Fabricate® Cloud (desktop options also available)

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DIMENSIONS



586 mm (23.0 in)
Front View



620 mm (24.4 in)
Side View