

Specifications



PRINTER & PRINTING PROPERTIES

Technology	Fused filament fabrication (FFF)
Print head	Independent dual extruders (direct, non-Bowden)
Build volume	Head 1 = 203 X 254 X 203 mm, Head 2 = 180 X 254 X 203 mm Mimeo Mode = 100 X 254 X 203 mm
Filament diameter	1.75 mm
Layer resolution	0.020 - 0.350 mm (20 - 350 μ)
Movement resolution	0.001 mm (1 μ) per micro-step
Print head travel speed range	30 - 450 mm/s
Build speed	0.35 mm nozzle: up to 18 mm ³ /s
Build plate	Borosilicate glass plate coated with polyimide film
Build plate temperature	5 - 130 °C (enclosed), 5 - 120 °C (not enclosed)
Assisted leveling	Yes
Assisted leveling method	True-Leveling™
Printable materials	ABS, ASA, HIPS, Nylon, PET-G, PET-T, PLA, polycarbonate, polypropylene, PVA, TPE, TPU, metal composites, wood composites, carbon fiber composites, and more.
Nozzle type & diameter	Brass 0.35 mm standard, .25 - 0.75 available Stainless steel 0.35 - 0.5 mm available
Nozzle temperature	180 - 300 °C
Nozzle heat up time	< 2 minutes (220 °C)
Build plate heat up time	< 4 minutes (70 °C)
Operating sound	< 65 dBA
Connectivity	Wi-Fi, LAN, USB
Monitoring	Remote Monitoring Upgrade Kit (coming soon)

PHYSICAL DIMENSIONS

Dimensions with spool & full range of motion	533 mm (21") x 610 mm (24") x 533 mm (21")
Unit weight	13.5 kg (29.5 lbs)
Shipping weight	21.5 kg (47 lbs)
Shipping box dimensions	533 mm (21") x 533 mm (21") x 635 mm (25")

POWER

AC Input	100 - 120 V (4 A)/220 - 240 V (2 A), 47 - 63 Hz 100 - 120 V (4 A)/220 - 240 V (2 A), 47 - 63 Hz
Power requirements / consumption	24 V DC @ 15 A / 360 W maximum

SOFTWARE

Supplied software	Simplify3D 4.0, OctoPrint for MakerGear
Printer interface	OctoPrint for MakerGear
Compatible software	With no proprietary software required, the MakerGear M3 is compatible with wide variety of free/commercial modeling, slicing, and hosting software programs.
Supported OS	MacOS, Windows, Linux, iOS, Android
File types	STL, OBJ, gCode

