

Filament Maker ONE



Key Features



High-Temperature Capacity

Reaches up to 450°C, accommodating a broad range of materials for diverse 3D printing applications.



Material Mixing Option

An optional section for mixing materials enables the creation of custom filaments with unique properties.



Multi-Zone Heating

The advanced heating system with up to 4 zones allows for precise material processing.



Durable Extruder Screw

Features a swappable, nitride-hardened steel screw for long-term performance and the ability to create complex material blends.



Precision Diameter Control

Delivers filament diameters from 0.5 to 3.0 mm with a tight tolerance of 0.05 mm, ensuring consistent print quality.



Flexible Start Modes

Offers automatic and manual start options for extrusion, catering to different user preferences.

Filament Maker - Product Specifications

Heating System	Temperature max.	350 series max temperature of 350 °C 450 series max temperature of 450 °C Ceramic
Output	RPM range Filament diameter range Optical sensor accuracy Nozzle extruder	2 - 15 RPM 0.5 - 3 mm (0.02 - 0.12 inches) 43 microns (1.69 mils) Diameter 4 mm (0.16 inches) - Replaceable
Extruder System	Screw/Barrel alloy Hardening treatment Compression Extruder design Material mixing zone	High chromium and molybdenum steel alloy Nitrided 3 stage Swappable Composer series ONLY
Energy	Consumption average Consumption max. Voltage Frequency	300 - 400 W 1300 W 110 - 230 V 50 - 60 Hz
Capacity	Hopper volume Spool holder Spool size	2 liters 1 Diameter 240 mm (9.4 inches) Width 120 mm (4.7 inches)
Size & Weight	Dimensions Weight	506 x 216 x 448 mm 19.2 x 8.5 x 17.6 inches Extruder (Without box) 24.5 kg (54 lbs) Extruder + box 27 kg (59.5 lbs)
Connection	Firmware updates Extrusion data analysis Connectivity	Regular updates DevoVision application USB
Composer Series (350 & 450 Models)	Purpose Screw	For mixing, compounding & experimentation Mixing screw
Precision series (350 & 450 Models)	Purpose Screw	For high-quality mass production High-flow screw
Models	350 model 450 model	Max temperature of 350 °C for engineering polymers PLA, ABS, PC, PS, PETG, TPU, TPE, PPS, PVA, Bio PE, NEW PET and PA (6,12, 66) Max temperature of 450 °C for engineering polymers AND high-performance polymers PEEK, PC, PS, PEKK, PAEK, PEI, PSU, PES, PTFE, PVD+