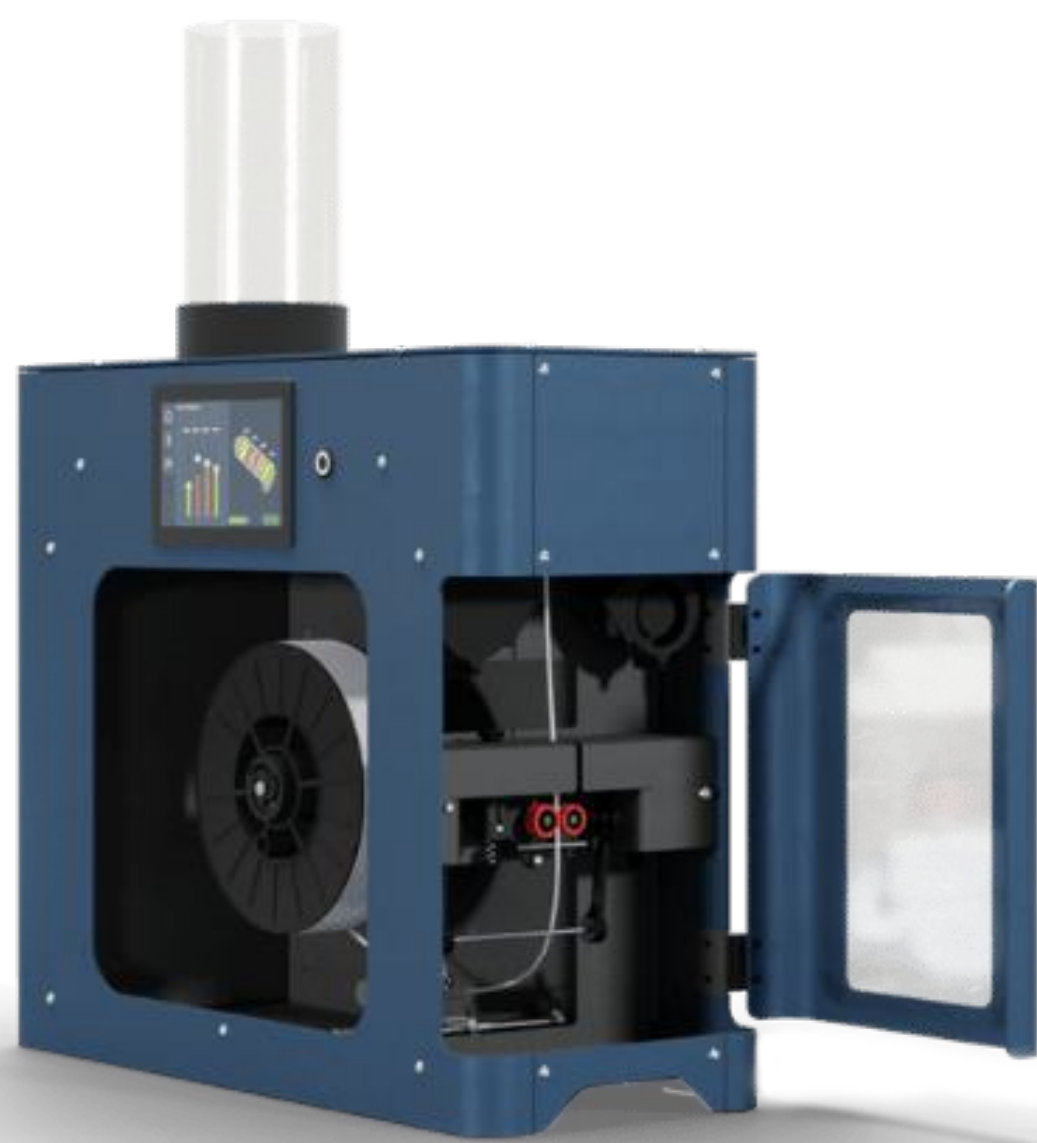




Filament Maker TWO

At the core of material workflows

Filament Maker TWO is a controlled extrusion system designed to support material validation, process development, and consistent filament production across research and industrial environments.

It enables teams to understand how materials behave during extrusion, establish stable processing conditions, and produce filament that can be tested, validated, and used in real-world applications.

Compatible Inputs

Thermoplastics: ABS, ASA, HDPE, HIPS, LDPE, PA12, PA6, PA66, PCL, PC, PAEK, PEEK, PEI, PEKK, PES, PET, PETG, PHB, PLA, POM, PP, PPSU, PS, PSU, PVA, PTFE, TPE, TPU, SLS & MJF Waste Powder, Biopolymers, +

Additives: Carbon Fiber, Ceramic Powder, Chemical Additives, Metal Powder, Wood, Glass Fiber, Nanoparticles, Blends of Polymers, +

Key Features

- High-speed 3-axis filament sensor
- Automatic spool fullness detection
- Real-time data logging + remote access
- Extended screw design
- Material and spooling presets
- Open integration & add-on capabilities
- Up to 3 kg spool capacity
- Accessible component design

Technical Data

Size and Weight	Dimensions Weight	606 x 258 x 526 mm (23.8 x 10.1 x 20 in) 42 kg (92 lb)
Extrusion Drive	Max. torque RPM	40 Nm 0 – 15 RPM
Hopper System	Volume Active cooled	2.6 L Yes
Band Heaters	Max. Temperature Heating zones Heater power	450 °C 4 230W per zone
Compression Screw	Screw Material Hardening treatment Compression Screw Type Compression Ratio L/D ratio	High Chromium and Molybdenum steel alloy Nitrided 3 stages Interchangeable 2,25 17,75
Filament sensor	Type Resolution Framerate Measurements Measurements axis Thermal sensor	Optical 10 µm 5 fps > 25 per second 3 Yes
Puller	Low Temp High Grip Max. High Temp Nonstick Max. Puller Tensioner	100 °C 380 °C Adjustable
Spooling	Max. Spool diameter Spool Inner diameter Max. Spool width Max. Spool weight Automatic tensioner Friction wheel Spooling system	300 mm (11.81 in) 49 - 55 mm (1.92 - 2.16 in) 100 mm (3.93 in) 3 kg (6.6 lb) Yes Yes Self tightening spool holder
Energy	Consumption average Consumption Max. Voltage Frequency	300 – 400 W 1300 W 230 V or 110 V 50 – 60 Hz
Connections	CAN-bus Networking Power plug USB	2 ports Ethernet Schuko male to C13 USB - B

Specifications subject to change without notice; performance depends on material and operating conditions.