

MACRO Prototyping Unit – High Temperature Specifications

Properties

Technology	Fused Filament Fabrication (FFF)
Build volume	W: 350 mm - D: 350 mm - H: 400 mm / W: 13.8" - D: 13.8" - H: 15.7"
Filament diameter	1.75mm
Print head	Dual extrusion with automatic nozzle lifting
Maximum nozzle temperature	500°C
Maximum chamber temperature	200°C, actively controlled
Layer resolution	Up to 20 µm
Extrusion flow	47 mm ³ /s (default) – 120 mm ³ /s (accessory)
Bed leveling	Automatic
Air filtration	HEPA filter and activated carbon
Supported materials	All Smart3D Materials, including PEEK CF, PEKK, PEI ULTEM 1010, PEI ULTEM 9085, PPSU Smart3D Material Partnership Program – Third-party materials

Mechanics and electronics

XY motion	Precision linear guides / Hybrid motors
Z motion	Precision leadscrews
Display	7" capacitive touch screen
Monitoring	Live camera
Smart3D Dry-Feeds (2X)	Moisture protection and advanced sensors
Connectivity	Ethernet, WiFi, USB, USB drive, NFC
Power requirements	110/230V, 50-60Hz
Operating temperature	10-30°C

Software

Supplied software	Smart3D Slicer, Smart3D Cloud, Smart3D LAN
Supported OS	Windows, Mac, Linux
File types	3Ds, 3MF, AMF, OBJ, STL, G-code

Size and weight

Product dimensions	W: 787mm D: 665mm H: 932mm W: 31" D: 26.2" H: 36.7"
Product weight	82kg / 181lb
Packaging dimensions	W: 890mm D: 800mm H: 1160mm W: 35" D: 31.5" H: 45.7"
Packaging weight	150kg / 330lb

