

# MACRO Prototyping Unit

## Specifications

### Properties

<b>Technology</b>	Fused Filament Fabrication (FFF)
<b>Build volume</b>	W: 350 mm - D: 350 mm - H: 400 mm / W: 13.8" - D: 13.8" - H: 15.7"
<b>Filament diameter</b>	1.75mm
<b>Print head</b>	Dual extrusion with automatic nozzle lifting
<b>Maximum nozzle temperature</b>	500°C
<b>Maximum chamber temperature</b>	120°C, actively controlled
<b>Layer resolution</b>	Up to 20 µm
<b>Extrusion flow</b>	47 mm <sup>3</sup> /s (default) - 120 mm <sup>3</sup> /s (accessory)
<b>Bed leveling</b>	Automatic
<b>Air filtration</b>	HEPA filter and activated carbon
<b>Supported materials</b>	Smart3D ABS, ASA, BVOH, PA 6/66, PA12, PAHT, PAHT CF, PC-ABS v0, PEEK, PET-g ESD, PP CF, PVA, Tough PLA, TPE 60A, TPU 98A - Smart3D Material Partnership Program - Third-party materials

### Mechanics and electronics

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

### Software

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

### Size and weight

<b>Product dimensions</b>	W: 787mm D: 665mm H: 1047mm W: 31" D: 26.2" H: 41.2"
<b>Product weight</b>	75kg / 165lb
<b>Packaging dimensions</b>	W: 890mm D: 800mm H: 1160mm W: 35" D: 31.5" H: 45.7"
<b>Packaging weight</b>	135kg / 298lb

