SMART3D Macro Models

Prototyping Unit

Definition

Target users	Designers, Engineers
Space	Office
Main industries	Product development Automotive Education/Research Aerospace
Main applications	Functional prototypes

Specifications

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	120°C, actively controlled
Layer resolution	Up to 20 µm
Extrusion flow	47 mm^3/s (default) – 120 mm^3/s (accessory)
Accuracy	± 0.2 mm or ± 0.002 mm per mm of travel (whichever is greater)
Bed leveling	Automatic
Air filtration	HEPA filter and activated carbon
Supported materials	Smart3D standard materials, composites and PEEK Third-party materials
XY motion	Precision linear guides
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
Supplied software	Smart3D Slicer, Smart3D Cloud, Smart3D LAN