

# SMART3D Macro Models



Additive Manufacturing  
unleashed

# SMART3D Macro Models

## For the office



**Macro Prototyping Unit**  
Entry-level industrial 3D printer



**Macro Prototyping Unit**  
**High Temperature**  
Best office solution for high performance materials



**Macro Wide Format**  
Largest 3D printer for the office

## For the factory



**Macro Wide Format**  
**High Temperature**  
High speed solution for large,  
high performance parts



**Macro Production Module**  
Low volume manufacturing platform



**Macro Production Module**  
**High Temperature**  
Low volume manufacturing  
in high performance materials

# SMART3D Macro Models

## Features



	<b>PU</b>	<b>PU HT</b>	<b>WF</b>	<b>WF HT</b>	<b>PM</b>	<b>PM HT</b>
Build volume	350 x 350 x 400 mm 13.8 x 13.8 x 15.7"	350 x 350 x 400 mm 13.8 x 13.8 x 15.7"	710 x 400 x 400 mm 28 x 15.7 x 15.7"	710 x 400 x 400 mm 28 x 15.7 x 15.7"	4 units 350 x 350 x 400 mm 13.8 x 13.8 x 15.7"	4 units 350 x 350 x 400 mm 13.8 x 13.8 x 15.7"
Chamber temperature	120°C	200°C	120°C	200°C	120°C	200°C
Motion system	Belts	Hybrid – Beltless	Hybrid – Beltless	Servo motors	Hybrid – Beltless	Hybrid – Beltless
Extrusion system	Bowden	Direct	Direct	Direct	Direct	Direct
Accuracy	± 0.2 mm or ± 0.002 mm per mm of travel (whichever is greater)	0.05 mm	0.05 mm	0.005 mm	0.05 mm	0.05 mm
Built-in Hybrid Drying Technology™	No	No	Yes	Yes	Yes	Yes
Automatic material back-up	No	No	Yes	Yes	Yes	Yes
Dedicated computer	No	No	No	No	Yes	Yes
Cloud/LAN connectivity	Included	Included	Included	Included	Included	Included
Serverless connectivity	Via upgrade	Via upgrade	Via upgrade	Included	Included	Included
Supported materials	Most FFF materials excluding ULTEM, PEKK and PPSU	All FFF materials including ULTEM, PEKK and PPSU	Most FFF materials excluding ULTEM, PEKK and PPSU	All FFF materials including ULTEM, PEKK and PPSU	Most FFF materials excluding ULTEM, PEKK and PPSU	All FFF materials including ULTEM, PEKK and PPSU

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## Production Module High Temperature Definition

Target user	Production Engineer
Space	Factory
Main industries	Manufacturing Automotive Aerospace Medical Railway
Main applications	Low volume manufacturing

## Specifications

Technology	Fused Filament Fabrication (FFF)
Build volume per print chamber	W: 350 mm - D: 350 mm - H: 400 mm W: 13.8" - D: 13.8" - H: 15.7"
Print chambers	4
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 <sup>3</sup> /s (default) – 120 mm <sup>3</sup> /s (accessory)
Accuracy	0.05 mm
Bed leveling	Automatic
Air filtration	HEPA filter and activated carbon
Supported materials	All Smart3D Materials All third-party FFF polymer materials
XY motion	Precision linear guides / hybrid motors
Z motion	Precision leadscrews
Dedicated computer	Yes
Displays	4 1" LCDs
Monitoring	Live camera
Material drying	Built-in Hybrid Drying Technology™
Material capacity	4 spools per print chamber
Material backup	Automatic
Connectivity	Ethernet, WiFi, USB, USB drive, NFC
Power requirements	Three-phase
Supplied software	Smart3D Slicer, Smart3D Cloud, Smart3D LAN, Smart3D Serverless, Print Queuing