

FUNMAT HT

Desktop High-performance 3D Printer



Multi-material printing capability

Can print high-performance materials such as PEEK, PEEK-CF, PEEK-GF, PEKK and other materials such as PA-CF, PA, PC, ABS.



Maximized build volume ratio

Build volume can be up to 260 x 260 x 260 mm.



Advanced Thermal Design

90 °C (194 °F) heated chamber,
160 °C (320 °F) build plate and 450 °C (842 °F) nozzle.



Intelligent Design

Auto-leveling, filament runout warning,
remote video monitoring.

The advanced design of the FUNMAT HT makes it easy to adapt to lab and workshop environments. It offers a print size up to 260 x 260 x 260 mm with excellent part performance. With the FUNMAT HT you can print common engineering filaments as well as high-performance filaments such as PEEK, PEEK-CF, PEEK-GF, PEKK, and third-party materials.



Technical Parameters

Printing

Technology	FFF (Fused Filament Fabrication)	Leveling	Auto Leveling, Manual Leveling
Build Volume	260 x 260 x 260 mm (10.2 x 10.2 x 10.2 in)	Materials*	PEEK, PEEK-CF, PEEK-GF, PEKK, PPS, PC, PC-ABS, PA6/66, PA6-CF, PA12, PA12-CF, ABS, ASA, HIPS, SP3030 etc.
Layer Thickness	0.1-0.5 mm		
Number of Nozzles	1		
Number of Spools	1 (Max 1 Kg/pc)	Nozzle Temperature	Max. 450 °C (842 °F)
Filament Diameter	1.75 mm	Build Plate Temperature	Max. 160 °C (320 °F)
Print Speed	Max. 120 mm/s	Chamber Temperature	Max. 90 °C (194 °F)
Nozzle Diameter	Default: 0.4 mm (Optional: 0.25/0.6/0.8 mm)	Functions	Filament Runout Warning, Power Outage Recovery (UPS), Camera Monitoring

Machine

Voltage	100 ~ 132 V/15 A or 200 ~ 240 V/7 A. 50/60 Hz	Build Chamber	Fully Enclosed Printing Chamber
Max. Power	1200 W	Motor System	High Performance Standalone Driver
Connectivity	USB (INTAMSUTE slicing software only), SD Card	Cooling	Fan
Screen	3.2" Touch Screen	Travel Speed	Max. XY 200 mm/s
Build Plate	Ceramic Glass Plate, with Magnetic Fixations	Resolution	XY: 15.6 µm; Z: 1.56 µm
		Printer Size	543 x 501 x 645 mm (21.3 x 19.7 x 25.4 in)
		Printer Weight	63 Kg (139 lb)

Safety

Safety Design	Overload Protection, Closed Chamber, Warning Labels
Safety Standards	EN60204
Certification	CE, FCC, SGS

Slicing

Slicing Software	INTAMSUITE NEO
Supported File Types	.stl/.3mf/.obj/.x3d/.g/oltp/.stp/.step/.iges
Operating System	Windows

Operating Environment

Working Temperature	15 °C ~ 32 °C (59 ~ 89.6 °F)
Working Humidity	30 ~ 70 %
Storage Temperature	0 °C ~ 54 °C (32 ~ 129.2 °F)
Storage Humidity	10 ~ 85 %

*Printing materials are not limited to this table, recommended printing materials are fully validated on the printer.