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 x10.2 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, PVA, Carbon Fiber-Filled, Glass Fiber-Filled, ESD-safe, etc.
Layer Thickness	0.1-0.5 mm		
Number of Nozzles	1		
Number of Spools	1 (Max 1 Kg/pc)		
Filament Diameter	1.75 mm	**Nozzle Temperature**	Max. 450 °C (842 °F)
Print Speed	Max. 120 mm/s	**Build Plate Temperature**	Max. 160 °C (320 °F)
Nozzle Diameter	Default: 0.4 mm (Optional: 0.25/0.6/0.8 mm)	**Chamber Temperature**	Max. 90 °C (194 °F)
		Functions	Filament Runout Warning, Remote Monitor

Machine

Voltage	100 ～ 132 V/15 A or 200 ～ 240 V/7 A. 50/60 Hz	**Build Chamber**	Fully Enclosed Printing Chamber
		Motor System	High Performance Standalone Driver
Max. Power	1200 W	**Cooling**	Fan
Connectivity	USB, SD Card	**Travel Speed**	Max. XY 200 mm/s
Screen	3.2" Touch Screen	**Resolution**	XY: 15.6 μm; Z: 1.56 μm
Build Plate	Ceramic Glass Plate, with Magnetic Fixations	**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™
Supported File Types	.stl/.obj/.x3d/.3mf/.stp/.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.