

# FUNMAT PRO 410

High Performance and Fiber Composite 3D Printer



## Smart Design

Dual nozzle, auto-leveling, auto-feeding, jam warning, remote monitoring.



## Advanced Thermal Design

90 °C (194 °F) heated chamber and 500 °C (932 °F) nozzle, uniform chamber with liquid cooling system.



## Multi-material Printing Capability

High Performance: PEEK, PEKK, PPS  
Fiber Composite: PA-CF, PEEK-CF  
Engineering: ABS, PC.



## Dry Filament Chamber

Overall sealing design, built-in molecular sieve, can keep filament dry for over 30 days.

The FUNMAT PRO 410 is an industrial-grade FFF (Fused Filament Fabrication) 3D printer system characterized by its high-performance capabilities. Combining a respectable build volume with excellent print quality, the system is a great choice for professional and industrial users looking to 3D print high-performance parts with engineering-grade materials.



## Technical Parameters

### Printing

<b>Technology</b>	FFF (Fused Filament Fabrication)	<b>Materials*</b>	PEEK, PEEK-CF, PEEK-GF, PEKK, PPS, PC, PC-ABS, PPA-CF, PPA-GF, PA6/66, PA6-CF, PA12, PA12-CF, ABS, ASA, HIPS, PVA, Carbon Fiber-filled, Glass Fiber-filled, etc.
<b>Build Volume</b>	305 x 305 x 406 mm (12 x 12 x 16 in)	<b>Nozzle Temperature</b>	Max. 500 °C (932 °F)
<b>Layer Thickness</b>	0.1-0.5 mm	<b>Build Plate Temperature</b>	Max. 160 °C (320 °F)
<b>Number of Nozzles</b>	2	<b>Chamber Temperature</b>	Max. 90 °C (194 °F)
<b>Number of Spools</b>	2 (Max 3 Kg/pc)	<b>Functions</b>	Auto-cleaning Nozzles, Filament Jam Warning, Filament Absence Warning, Remote Control, Remote Printing
<b>Filament Diameter</b>	1.75 mm		
<b>Print Speed</b>	Max. 120 mm/s		
<b>Nozzle Diameter</b>	Default: 0.4 mm (Optional: 0.25/0.6 mm)		
<b>Leveling</b>	Auto Leveling, Manual Leveling		

### Machine

<b>Voltage</b>	200-240 V, 15 A, 50/60Hz	<b>Filament Chamber</b>	Overall Sealed Design, Built-in Reusable Molecular Sieve To Keep Dry, Temp. And Humidity Real-time Monitoring, Auto Filament Feeding
<b>Max. Power</b>	3 kW	<b>Travel Speed</b>	Max. XY 300 mm/s, Max. Z 50 mm/s
<b>Connectivity</b>	WiFi, Ethernet, USB	<b>Resolution</b>	XY: 15.6 µm; Z: 1.56 µm
<b>Screen</b>	7" Touch Screen	<b>Printer Size</b>	728 x 684 x 1480 mm (35.0 x 34.6 x 66.5 in)
<b>Build Plate</b>	Ceramics Glass Plate with Magnetic Fixations	<b>Printer Weight</b>	230 Kg (507 lb)
<b>Build Chamber</b>	Fully Enclosed Printing Chamber		
<b>Motor System</b>	High-precision Closed-loop Drive		
<b>Cooling</b>	Liquid Cooling System & Fan		

### Safety

<b>Safety Design</b>	Electromagnetic Safety Door Lock, Over Temperature Protection, Overload Protection, Leakage Protection, Warning Labels
<b>Safety Standards</b>	EN60204
<b>Certification</b>	CE, FCC, SGS

### Slicing

<b>Slicing Software</b>	INTAMSUITE™
<b>Supported File Types</b>	.stl/.obj/.x3d/.3mf/.stp/.iges
<b>Operating System</b>	Windows

### Operating Environment

<b>Working Temperature</b>	15 °C ~ 30 °C (59 °F ~ 86 °F)
<b>Working Humidity</b>	30 ~ 70 %
<b>Storage Temperature</b>	0 °C ~ 35 °C (32 °F ~ 95 °F)
<b>Storage Humidity</b>	20 ~ 90 %

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