

FUNMAT PRO 310

Bring Industrial Performance to your Desktop



Industrial Performance

Thermostatic chamber and full-size printing capability.



IDEX

More possibilities with multi material printing and twice as fast with synchronized and mirror modes.



Independent Filament Box

Keep material continuously dry for high-quality prints.



Unparalleled User Experience

Intelligent design and whole-process control.

The FUNMAT PRO 310 responds to the growing demands of professional engineers with a thermostatic chamber and full-size printing capability on a desktop machine. The thermostatic chamber can reach up to 100 °C (212 °F) to print engineering plastics with a build volume of 305 x 260 x 260 mm. Plug & play and easy-to-remove modular IDEX design provides multiple printing modes.

With whole-process control, the FUNMAT PRO 310 offers engineering material capabilities such as ASA, ABS, PC, PC-ABS, PA and PA-CF with INTAMSYS user-friendly 3D model-slicing software, INTAMSUITE™.



Technical Parameters

Printing

Technology	FFF (Fused Filament Fabrication)	Nozzle Diameter	Default: 0.4 mm (Optional: 0.25/0.6 mm)
Build Volume	Single Nozzle: 305 x 260 x 260 mm (12 x 10.2 x 10.2 in) ; Dual Nozzle: 260 x 260 x 260 mm (10.2 x 10.2 x 10.2 in)	Leveling	Mesh Leveling (Max. 100 Points)
Layer Thickness	0.1-0.3 mm	Nozzle Temperature	Max. 300 °C (572 °F)
Number of Nozzles	2 (IDEX)	Chamber Temperature	Max. 100 °C (212 °F)
Filament Diameter	1.75 mm	Build Plate Temperature	Max. 160 °C (320 °F)
Print Speed	Max. 120 mm/s	Materials*	PC, PC-ABS, PA6/66, PA6-CF, PA12-CF, ABS, ABS+, SP3030, ASA, PLA, HIPS, PVA, ESD-safe, etc.
		Functions	Filament Runout Warning, Remote Control, Remote Printing

Machine

Voltage	100 – 132 V/15 A or 200 – 240 V/7 A. 50/60 Hz	Travel Speed	Max. XY 500 mm/s
Max. Power	1600 W	Nozzle Maintenance	Quick Release Design, Easy Installation And Disassembly
Connectivity	WiFi, Ethernet, USB	Filament Box	Overall Sealed Box, Built-in Reusable Molecular Sieve To Keep Dry, Temp. And Humidity Real-time Monitoring, Standalone
Screen	7" Touch Screen	Resolution	XY: 16 µm Z: 1.25 µm
Build Plate	Magnetic Flexible Buildplate	Filtering System	HEPA + Activated Carbon, replaceable
Build Chamber	Fully Enclosed Printing Chamber	Printer Size	700 x 655 x 700 mm (27.6 x 25.8 x 27.6 in)
Cooling	Fan		
Number of Spools	2 (Max. 1 Kg/pc)		

Safety

Safety Design	Safety Door Lock, Over Temperature Protection, Overload Protection, 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 ~ 30 °C (59 ~ 86 °F)
Working Humidity	30 ~ 70 %
Storage Temperature	0 °C ~ 35 °C (32 ~ 95 °F)
Storage Humidity	20 ~ 90 %

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

INTAM™ Box

Keep Your Materials Dried Longer



Independent
and sealed



Molecular sieve
desiccant



Anti-tangle
design



Temp. and humidity
monitoring

Technical Parameters

Number of filament spools	2 x 1 Kg
Spool size	Diameter 200 ± 4 mm, width 40 - 70 mm
Drying time	$\leq 10\%$ RH for 20 days
Environment temperature	-10 °C ~ 60 °C (14 °F ~ 140 °F)
Desiccant	4A molecular sieve, 900 g
Regeneration of desiccant	Dry at 200 °C (392 °F) for 2 hours
Product size	315 x 205 x 257 mm (12.4 x 8.1 x 10.1 in)
Product weight	2.45 Kg (5.4lb)



Reusable
Drying Unit

INTAM™ Cabinet

Meeting the Needs of Engineers for Convenient Work



Measurement

735 x 668 x 648 mm
28.9 x 26.3 x 25.5 in



Wheels for
easy movement



Folding
side table



Accessories
drawer



Filaments storage
drawer

Accessories Drawer Overview

- ① High temperature resistance glove x 1
- ② Copper brush x 1
- ③ Allen key with handle x 4
- ④ Allen key set x 1
- ⑤ Spatula x 1
- ⑥ Needle-nose plier x 1
- ⑦ Cutting plier x 1
- ⑧ PVP glue x 2 (additional purchase required)
- ⑨ Flash drive x 1
- ⑩ Leveling card x 1
- ⑪ Printhead x 1 (additional purchase required)
- ⑫ Nozzle x 6 (additional purchase required)
- ⑬ Tweezer x 1



The INTAM™ Cabinet is a customized accessory for the FUNMAT PRO 310