FUNMAT PRO 310 APOLLO

From PEEK-Ready to PAEK at Production Scale

APOLLO





ІПТАМ5Ү5



High-Performance Material Printing

Supports the full PAEK family with 2 \times higher Z-axis mechanical strength and 40+ MPa tensile strength.

Delivers reliable mechanical performance under high temperature and load-bearing conditions for aerospace and medical critical applications.



High-Speed Printing System

Dual independent extruders optimized for PAEK achieve speeds up to 200 mm/s, $3\times$ faster than conventional printers.

Combines speed and mechanical strength to cut lead times and enable true production throughput.



Continuous Production Solution

Built for continuous manufacturing with a 3 kg active-drying filament box and INTAMQuality data tracking.

Ensures week-long printing, full traceability, and consistent high-temperature performance.



Intelligent Control Platform

Driven by INTAMSUITE NEO, integrating multi-physics control of temperature, flow, and path.

Smart monitoring and remote management deliver stable, efficient, and predictable high-performance printing.



The FUNMAT PRO 310 APOLLO marks a new era of industrial-grade FFF 3D printing - combining high-performance materials, ultra-fast printing, and production-level consistency.

From PEEK prototyping to PAEK end-use part manufacturing, INTAMSYS redefines the benchmark for industrial FFF performance and reliability.

Technical Parameters

Operating System

Printing			
Technology	FFF (Fused Filament Fabrication)	Filament Diameter	1.75 mm
Build Volume	Single nozzle: 305 x 260 x 260 mm;	Materials*	PEEK, PEEK-CF/GF, PEKK, VICTREX AM 200 FIL, PC,
	Dual nozzle: 260 x 260 x 260 mm		PC-ABS, PC-FR, ABS-HS, PPA-CF/GF, PA6/66, PA12, AS
Layer Thickness	0.1 - 0.3 mm		PPS, PPS-CF/GF, and various fiber-reinforced and
Number of nozzles	2 (IDEX)		support materials
Nozzle Temperature	Max. 450 °C	Functions	Nozzle clogging alarm, platform over-temperature
Printing Speed	Max. 500 mm/s PAEK: Max. 200mm/s		alarm, filament run-out detection, printing recovery
Printing Acceleration	Max. 8000 mm/s ²		from power loss, remote monitoring, remote control,
Chamber Temperature	Max. 100 °C		remote printing, software and hardware OTA, filamer
Platform Temperature	Max. 160 °C		auto-loading, material Identification, dual side
Leveling	Mesh Leveling (Max.100 Points)		brushes (for prime tower removal), INTAMQuality
	Dual-extruder auto calibration		
Machine			
Voltage	100-120V/16A or	Cooling	Fan
	200-240V/8A 50-60Hz	Filament Box	3 kg sealed chamber with
Max. Power	1800 W		reusable molecular sieve, real-time temp/humidity
Connectivity	WiFi, Ethernet, USB		monitoring, and 65°C internal heating
Screen	7-inch Touch Screen	Number of Spools	2 (Max. 3 Kg/pcs)
Build Plate	HPP build plate; EP build plate	Resolution	XY:16 μm; Z:1.25 μm
Build Chamber	Fully enclosed heated chamber	Filtering System	HEPA +Activated Carbon, Replaceable
Nozzle Maintenance	Modular design for fast maintenance	Overall Dimensions	700 x 655 x 700 mm
	and quick replacement		
Safety			
Safety design	Safety door lock, over temperature protection, overload protection, warning labels		
Slicing		Operating Environment	
Slicing Software	INTAMSUITE NEO		0°C ~ 30°C (32°F ~ 86°F)
Supported File Types	.stl/.3mf/.obj/.x3d/.g/oltp/.stp/	Working Humidity	20 % ~ 70 %
	.step/.iges	. ,	-20°C ~ 55°C (-4°F ~ 131°F)
On a ratio a Custom	Windows 10/11	Storago Humidity	

Storage Humidity

 $10\% \sim 90\%$

Windows 10/11

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