

# FUNMAT PRO 610HT

Large Scale • High Temperature • Industrial Production



# The Next-Generation in Large Scale FFF Printing

## Your Path to Production

Industrial 3D printing technology enables customers to print functional prototypes, tooling and end-use parts that optimize the entire design to manufacturing process. 3D printing technology has enabled customers to print end-use parts that are both lighter and stronger, while creating tools that have pushed the boundaries of industrial applications. Aerospace and automotive have been huge benefactors of 3D printing as well as early adopters of the end-use capabilities that 3D printing now provides.

INTAMSYS has paved a way with their breakthrough FUNMAT PRO 610HT. Unlocking the potential of industrial-grade, high-quality 3D printing, equipped to effectively handle the tough requirements needed to print with high-performance thermoplastics.

### FUNMAT PRO 610HT



#### Increased Efficiency

Print continuously with automatic filament reloading



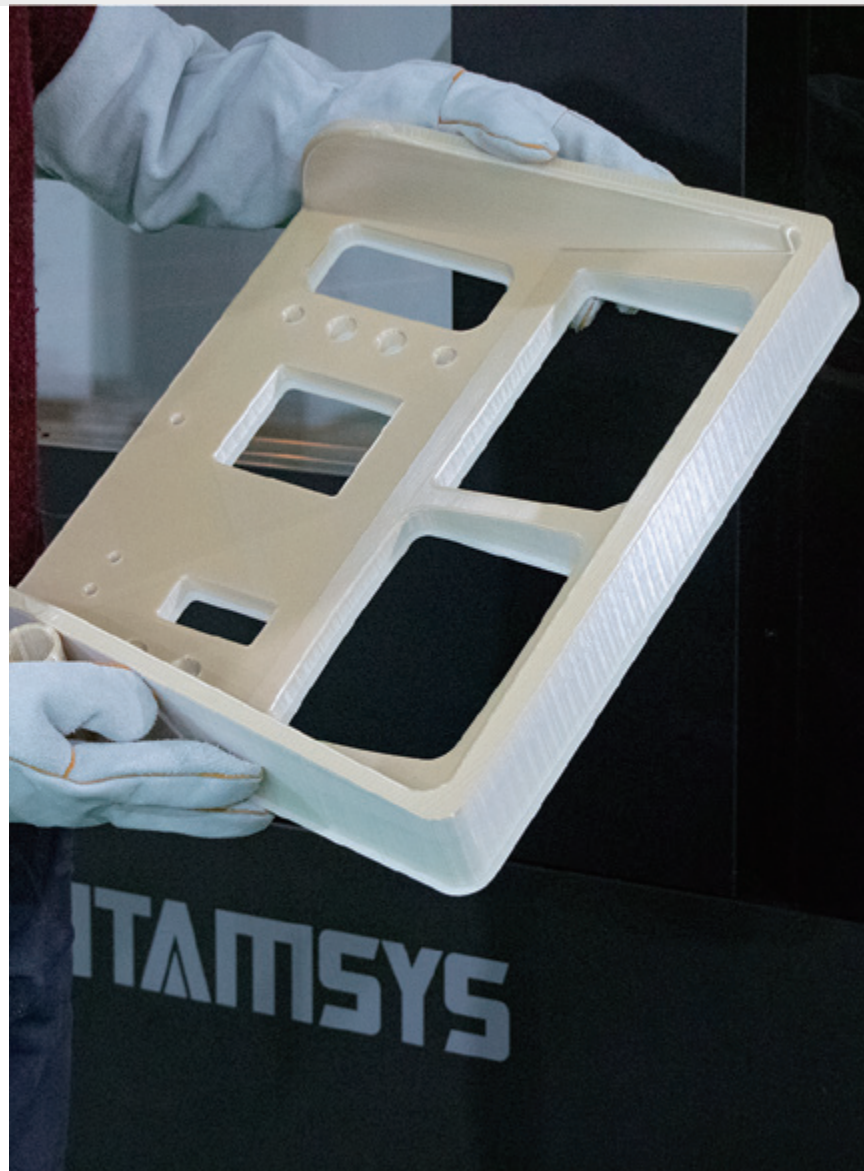
#### Industrial Design

Increased print speed with high precision motion systems



#### Cost Effective

Save up to 50% on material costs with our open material platform while allowing you to choose the best material for each application





### High Printing Quality

Optimized 3D printing environment with an advanced servo control system provides you with premium print quality



### Production Graded System

Print volume up to 610x508x508mm (24x20x20in), allowing you to print large parts or multiple small parts for low volume production runs



### Advanced Thermal Design

Specialty high-temperature 3D print nozzles, up to 500°C and 300°C chamber temperature unlocks the ability to utilize advanced materials. This combination solves the issues of part warpage while offering consistent, quality parts every time



### Safety Design

Best class safety components are equipped, CE (EMC/RED/LVT) certified for industry-grade application standard

## Open Material System with Infinite Possibilities

The FUNMAT PRO 610HT can support almost every high-performance thermoplastic material available on the market including PEEK, PEKK, PAEK, ULTEM™, PPSU, PC, PA, ASA, ABS and others.



# Technical Parameters

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Model	FUNMAT PRO 610HT
Printing Technology	Fused Filament Fabrication (FFF)
Machine Size	1,710×1,390×2,080mm (67.3×54.7×80.1in)
Machine Netweight	1,450 kg/3197lb
Build Volume	610×508×508mm (24×20×20in)
Build Platform	Vacuum Absorption Platform
Leveling	Automatic Leveling
Layer Thickness	0.15-0.3mm
Max Travel Speed	XY: Max. 400mm/s Z: Max. 50mm/s
Printing Nozzles	2 Printing Nozzles Without Scratching
Extruder Temperature	Max. 500°C/932°F
Chamber Temperature	Max. 300°C/572°F
Filament Chamber Temperature	Max 50°C/122°F, with dry compressed air (external air compressor is required)
Input File Type	.Stl/.Obj/.X3d/.3mf
Filament Diameter	1.75mm
Position Resolution	XY: 12.5µm Z: 1.25µm
Motor Drive	High Precision Servo System
Smart Monitor & Control	Auto-Cleaning Nozzles/Filament Jam Warning/Filament Absence Warning/ Liquid Cooling System & Vacuum Absorption Platform/Over Heat Protection/Automatic Filament Reloading
Safety Certification	FCC/CE
Connectivity	WiFi/Ethernet /USB
Supported Materials*	PEEK/PEEK-CF/PEEK-GF/PEKK/ULTEM™ (PEI)/PPSU/PC-HT/PC/PC Alloys/ PA-HT/PA/PA-CF/ASA/ABS/HIPS/Carbon Fiber-Filled/GlassFiber-Filled/ ESD-Safe and others.

\*results of part printing may vary depending on material and/or design and size of the printed part



INTAMSYS is a world-leading high-tech company providing 3D printing and industrial direct additive manufacturing solutions for high-performance materials. It is co-founded by a team of engineers from world-class high-tech companies engaged in precision equipment development and high-performance materials research for many years.

Focusing on aerospace, aviation, automotive, electronic manufacturing, consumer goods, healthcare, scientific research and other industries, the company provides comprehensive additive manufacturing solutions from functional test prototyping, tooling and fixture manufacturing to direct mass production of final products, covering equipment, software, high-performance materials and printing services.

## | Global Sales Network



★ Headquarters    📍 Offices    📍 Resellers

**INTAMSYS**

[www.intamsys.com](http://www.intamsys.com)  
[info@intamsys.com](mailto:info@intamsys.com)

🐦 @intamsys\_3d  
🌐 @intamsys  
📘 @intamsys

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