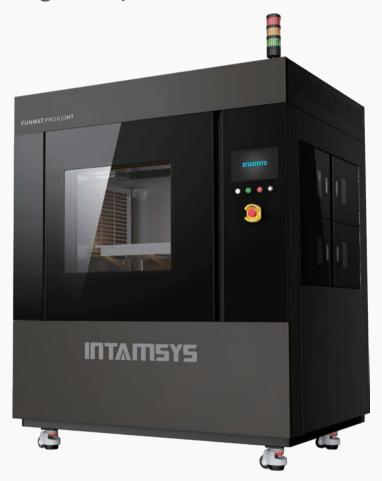
## **FUNMAT PRO 610HT**

Large Scale • High Temperature • Industrial Production





## **Printing Capability**

Ideal for printing High Performance
Polymers like PEI, PEEK, PEEK-CF, PEEK-GF,
PEKK, PPSU and many others.



## **Large Scale Production**

Filament auto-reloading function and a build volume of 610 x 508 x 508 mm.



# **Advanced Thermal Design**

Uniform 300 °C (572 °F) heated chamber, avoid warping and cracking.



# **High Precision & High Quality**

Advanced servo control system with high precision screw guide.

INTAMSYS has paved the way with their breakthrough FUNMAT PRO 610HT. Equipped to effectively handle the tough requirements needed to print with high-performance thermoplastics, this machine unlocks industrial-grade, high-quality additive manufacturing capabilities. The FUNMAT PRO 610HT is capable of handling almost every high-performance thermoplastic material available on the market. It comes with a dual extruder that can reach 500 °C and a heated chamber of 300 °C for premium repeatability with your part designs. This is INTAMSYS's biggest printer yet, this is a larger solution, boasting a build volume of 610 x 508 x 508 mm. The FUNMAT PRO 610HT has found its home in many settings including automotive, aerospace, oil & gas, and more.

### **Technical Parameters**

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Technology FFF (Fused Filament Fabrication) Materials\* PEI (ULTEM™) 9085, PEI (ULTEM™) 1010, PEEK, **Build Volume** 610 x 508 x 508 mm (24 x 20 x 20 in)

PEEK-CF, PEEK-GF, PEKK, PPSU, PPS, PC, **Layer Thickness** 0.1-0.5 mm PC-ABS, PPA-CF, PPA-GF, PA6/66, PA6-CF,

Number of Nozzles 2 PA12, PA12-CF, ABS+, ABS, ASA, etc.

Number of Spools 4 (Max 3 Kg/pc) Nozzle Temperature Max. 500 °C (932 °F) Filament Diameter 1.75 mm Chamber Temperature Max. 300 °C (572 °F) **Print Speed** Max. 160 mm/s Filament Chamber Max. 50 °C (122 °F)

Nozzle Diameter Default: 0.4 mm **Functions** Auto-cleaning Nozzles, Filament

(Optional: 0.6/0.8 mm) Auto-reloading, Filament Jam Warning, Filament Absence Warning, Remote Control, Leveling Auto Leveling

Remote Printing

### Machine

Voltage 3P 380 V 30 A/phase,  $50 \sim 60$ Hz or Filament Chamber 4 Independent Sealed Chambers, With

> 3P 200 V 50 A/phase,  $50 \sim 60$ Hz Active Heating And Dry Compressed Air

Max. Power (External Air Compressor Is Required), Keep 15 kW

Connectivity WiFi, Ethernet, USB Filament Dry During Printing, Auto Filament Screen 10"Touch Screen Feeding

**Build Plate** Flexible Buildplates with Vacuum **Travel Speed** Max. XY 400 mm/s, Max. Z 50 mm/s

Adsorption System Resolution XY: 12.5 μm; Z: 1.25 μm

**Build Chamber Printer Size** Fully Enclosed Printing Chamber With Warning Lights: 1710 x 1425 x 2350 mm

> Servo Control System With High (67.3 x 56.1 x 92.5 in)

Precision Ball Screw **Printer Weight** 1450 Kg (3086 lb)

Liquid Cooling System & Fan

### Safety

Cooling

**Motor System** 

Safety Design Independent Safety PLC, Electromagnetic Safety Door Lock, Over-temperature Protection, Overload Protection,

Emergency Stop Button, Double-layer Thickened Heat-insulated Front Door, Heat-resistant Shield, Three-color

Warning Light.

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**  $15 \,^{\circ}\text{C} \sim 30 \,^{\circ}\text{C} (59 \,^{\circ}\text{F} \sim 86 \,^{\circ}\text{F})$ 

**Working Humidity**  $30 \sim 70 \%$ 

Storage Temperature  $-10~^{\circ}\text{C} \sim 54~^{\circ}\text{C} (14~^{\circ}\text{F} \sim 129.2~^{\circ}\text{F})$ 

 $10 \sim 85 \%$ Storage Humidity

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