

Industrial 3D Printers High Performance Production Solutions





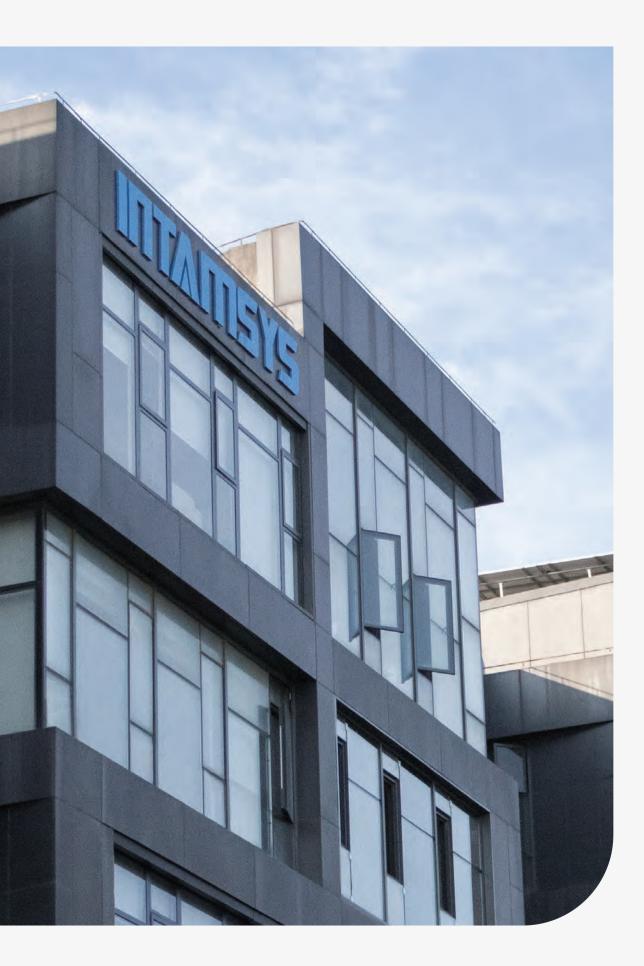


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About INTAMSYS

INTAMSYS is a world-leading additive manufacturing company, providing industrial 3D printers, software, high-performance materials and printing services. It was co-founded by a team of engineers from high-tech companies which were engaged in precision equipment development and high-performance materials research for many years.

INTAMSYS offers comprehensive additive manufacturing solutions including rapid prototyping, functional test prototyping, tooling, jigs and fixtures, end-use parts, and small batch production parts. These solutions are sought out on a widespread basis and provided to a variety of industries such as aerospace, automotive, electronics, manufacturing, consumer goods, healthcare, research and more.



COMPANY HISTORY

2016	INTAMSYS was founded and completed the angel round joint investment of Professor Li Zexiang, an early investor and chairman of DJI, and Professor Gao Bingqiang, an early investor of DJI and a well-known semiconductor scientist
•	Launched its first PEEK 3D Printer, the FUNMAT HT. Became one of the first manufacturers in the world to launch 3D printing solutions for PEEK materials, and continued to maintain its leading position in the industry
2018	Obtained the Pre A round of financing led by Clear Water Bay Capital, followed by Professor Gao Bingqiang and Brizan
•	Released the FUNMAT PRO 410 industrial 3D printer, providing complete 3D printing solutions for high-performance materials and composites, engineering materials, expand products to a wider range of industrial applications
2019	Established a subsidiary in Germany and opened a European Sales & Technical center to provide localized services
•	Launched the FUNMAT PRO 610HT large scale industrial 3D printer to enter the high-end manufacturing and production market
2021	Completed the A round of financing led by Sequoia Capital, and obtained the joint A+ round of financing from Porsche Ventures and Forebright Capital
•	Established a subsidiary in the United States and opened a Sales & Technical Center in the Americas to provide localized services
2022	Launched the FUNMAT PRO 310, providing real engineering material printing and bringing industrial performance to the desktop 3D printing
2023	Completed the B round of financing led by CMB International, followed by Forebright Capital and Porsche Ventures
•	Released a new generation of slicing software INTAMSUITE, providing an unparalleled industrial software experience
•	Released INTAMSYS HUB, a cloud printing platform management software

Self-Developed FFF (Fused Filament Fabrication) Core Technology

01

Advanced thermal design to support high performance, composite and engineering material printing

- Multi-point temperature gradient optimization in the chamber
- High temperature, high speed extrusion nozzle
- Liquid Cooling System on the printheads and motion motors



Intelligent monitoring and closed-loop control technology to support continuous material process improvement

• High precision sensors

- In-line feed quality monitoring system
- Accurate control of print process rheology



High-speed, high-precision drive and control technology, making large-size modeling more precise

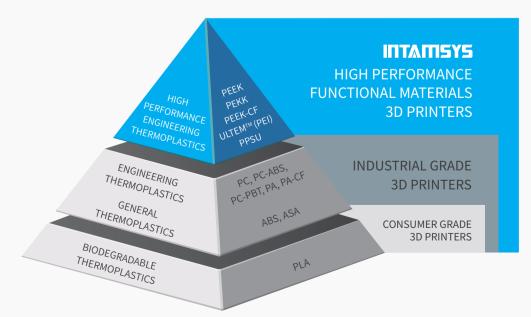
- Closed-loop servo motor drive system
- High precision screw guide drive system
- Overall high stability with structure

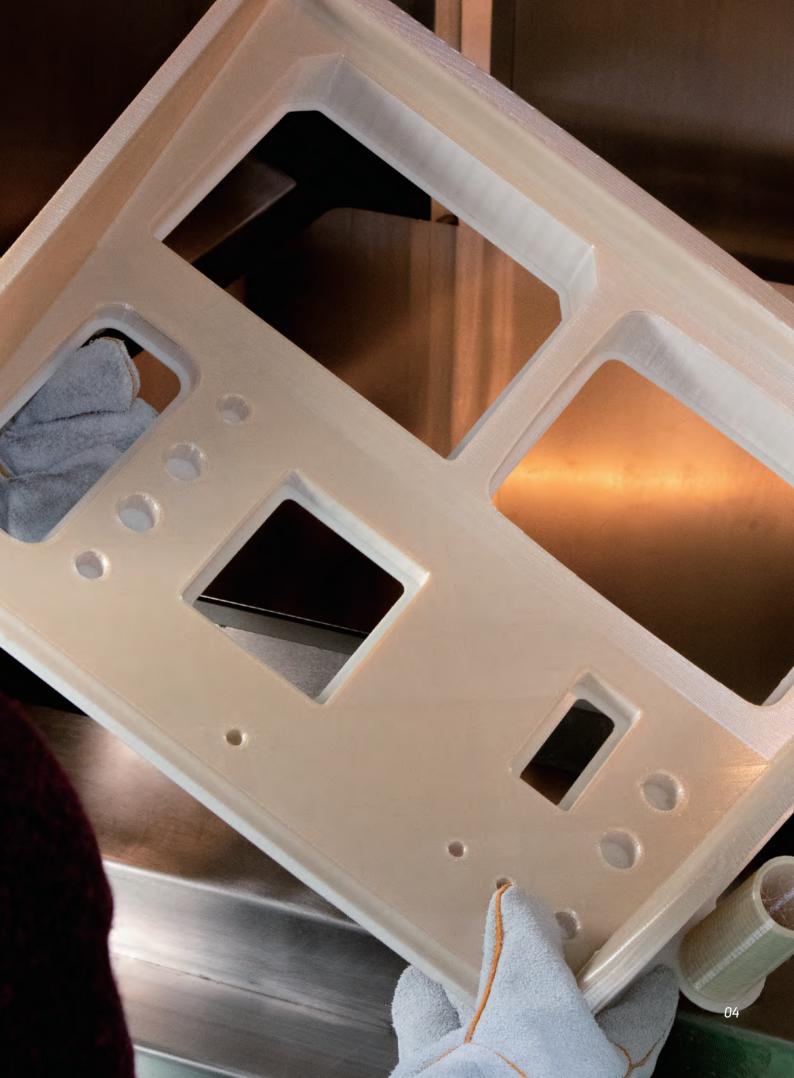


Full-process slicing software providing an integrated collaboration platform for additive manufacturing

- Intelligent path optimization technology that balances performance and structure
- Simulation technology based on big data analysis
- Geometric algorithms and finite element analysis techniques

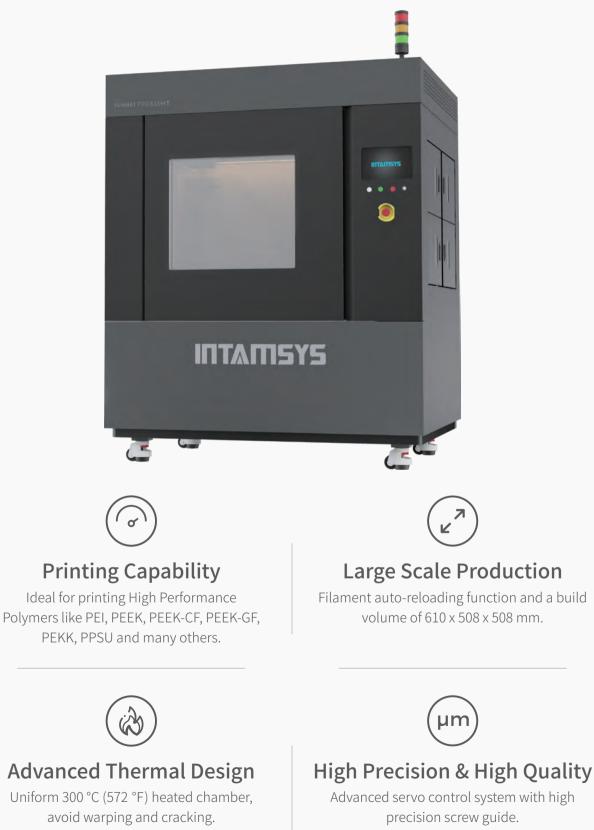
High-performance 3D printing solutions





FUNMAT PRO 610HT

Large Scale · High Temperature · Industrial Production



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' 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

Printing			
Technology Build Volume Layer Thickness Number of Nozzles	FFF (Fused Filament Fabrication) 610 x 508 x 508 mm (24 x 20 x 20 in) 0.1-0.5 mm 2	Materials*	PEI (ULTEM [™]) 9085, PEI (ULTEM [™]) 1010, PEEK, PEEK-CF, PEEK-GF, PEKK, PAEK, PPSU, PPS, PC, PC-ABS, PA6/66, PA6-CF,
Number of Spools	2 4 (Max 3 Kg/pc)	Nozzle Temperature	PA12, PA12-CF, ABS+, ABS, ASA, etc. Max. 500 °C (932 °F)
Filament Diameter	1.75 mm	Chamber Temperature	Max. 300 °C (932 °F) 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,
Leveling	Auto Leveling		Filament Absence Warning, Remote Control
			Remote Printing
Machine			
Voltage	3P 380 V 30 A/phase, 50 \sim 60Hz or	Filament Chamber	4 Independent Sealed Chambers, With
voltage	$3P 200 V 50 A/phase, 50 \sim 60Hz$	i nument enumber	Active Heating And Dry Compressed Air
Max. Power	15 kW		(External Air Compressor Is Required), Keep
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; Ζ: 1.25 μm
Build Chamber	Fully Enclosed Printing Chamber	Printer Size	With Warning Lights: 1710 x 1390 x 2250 mm
Motor System	Servo Control System With High		(67.3 x 54.7 x 88.6 in)
	Precision Ball Screw	Printer Weight	1450 Kg (3086 lb)
Cooling	Liquid Cooling System & Fan		
Safety			
Safety Design		-	temperature Protection, Overload Protection, ront Door, Heat-resistant Shield, Three-color
Safety Standards	EN60204		
Certification			
certification	CE, FCC, SGS		
Slicing	CE, FCC, SGS	Operating Enviro	onment
Slicing	INTAMSUITE™		25 °C ∼ 30 °C (59 °F ∼ 86 °F)
Slicing Slicing Software	INTAMSUITE™	Working Temperature	
Slicing Slicing Software			15 °C ∼ 30 °C (59 °F ∼ 86 °F)

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

FUNMAT PRO 410

Engineering: ABS, PC.

High Performance and Fiber Composite 3D Printer





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			
Technology	FFF (Fused Filament Fabrication)	Nozzle Temperature	Max. 500 °C (932 °F)
Build Volume	305 x 305 x 406 mm (12 x 12 x 16 in)	Build Plate Temperature	Max. 160 °C (320 °F)
Layer Thickness	0.1-0.5 mm	Chamber Temperature	Max. 90 °C (194 °F)
Number of Nozzles	2	Materials*	PEEK, PEEK-CF, PEEK-GF, PEKK, PPS, PC,
Number of Spools	2 (Max 3 Kg/pc)		PC-ABS, PA6/66, PA6-CF, PA12, PA12-CF,
Filament Diameter	1.75 mm		ABS, ASA, HIPS, PVA, Carbon Fiber-filled,
Print Speed	Max. 120 mm/s		Glass Fiber-filled, etc.
Nozzle Diameter	Default: 0.4 mm	Functions	Auto-cleaning Nozzles, Filament Jam
	(Optional: 0.25/0.6 mm)		Warning, Filament Absence Warning,
Leveling	Auto Leveling, Manual Leveling		Remote Control, Remote Printing
Machine			
Voltage	200-240 V, 15 A, 50/60Hz	Filament Chamber	Overall Sealed Design, Built-in Reusable
Max. Power	3 kW		Molecular Sieve To Keep Dry, Temp. And
Connectivity	WiFi, Ethernet, USB		Humidity Real-time Monitoring, Auto
Screen	7" Touch Screen		Filament Feeding
Build Plate	Ceramics Glass Plate with Magnetic	Travel Speed	Max. XY 300 mm/s, Max. Z 50 mm/s
	Fixations	Resolution	XY: 15.6 μm; Ζ: 1.56 μm
Build Chamber	Fully Enclosed Printing Chamber	Printer Size	728 x 684 x 1480 mm (35.0 x 34.6 x 66.5 in)
Motor System	High-precision Closed-loop Drive	Printer Weight	230 Kg (507 lb)
Cooling	Liquid Cooling System & Fan		
Safety			
Safety Design	Electromagnetic Safety Door Lock, Ov	er Temperature Protection, O	verload Protection, Leakage Protection,
, 0	Warning Labels		
Safety Standards	EN60204		
Certification	CE, FCC, SGS		
Slicing		Operating Enviro	nment
Slicing Software		Working Tomporature	15 °C ~ 20 °C (50 °E ~ 96 °E)

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

Working Humidity Storage Temperature Storage Humidity

Working Temperature 15 °C \sim 30 °C (59 °F \sim 86 °F) $30 \sim 70 \%$ $0 \degree C \sim 35 \degree C (32 \degree F \sim 95 \degree F)$ $20 \sim 90 \%$

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

FUNMAT PRO 310

Bring Industrial Performance to your Desktop





Industrial Performance

Thermostatic chamber and full-size printing capability.



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.



Unparalleld 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™.



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	Leveling	Mesh Leveling (Max. 100 Points)
	(12 x 10.2 x 10.2 in);	Nozzle Temperature	Max. 300 °C (572 °F)
	Dual Nozzle: 260 x 260 x 260 mm	Chamber Temperature	Max. 100 °C (212 °F)
	(10.2 x 10.2 x 10.2 in)	Build Plate Temperature	Max. 160 °C (320 °F)
Layer Thickness	0.1-0.3 mm	Materials*	PC, PC-ABS, PA6/66, PA6-CF, PA12-CF, ABS,
Number of Nozzles	2 (IDEX)		ABS+, SP3030, ASA, PLA, HIPS, PVA,
Filament Diameter	1.75 mm		ESD-safe, etc.
Print Speed	Max. 120 mm/s	Functions	Filament Runout Warning, Remote Control,
i intespece	Max. 120 mm/ 5	i uneciono	Remote Printing
			Kennote i fintiling
Machine			
Voltage	100 – 132 V/15 A or	Travel Speed	Max. XY 500 mm/s
0	200 – 240 V/7 A. 50/60 Hz	Nozzle Maintenance	Quick Release Design, Easy Installation And
Max. Power	1500 W		Disassembly
Connectivity	WiFi, Ethernet, USB	Filament Box	Overall Sealed Box, Built-in Reusable
Screen	7" Touch Screen		Molecular Sieve To Keep Dry, Temp. And
Build Plate	Magnetic Flexible Buildplate		Humidity Real-time Monitoring, Standalone
Build Chamber	Fully Enclosed Printing Chamber	Resolution	XY: 16 μm Z: 1.25 μm
Cooling	Fan	Filtering System	HEPA + Activated Carbon, replaceable
Number of Spools	2 (Max. 1 Kg/pc)	Printer Size	700 x 655 x 700 mm (27.6 x 25.8 x 27.6 in)
inamiser of opools	2 (100 X 000 X 100 Him (21.0 X 20.0 X 21.0 H)
Safety			
Surcey			

Technical Parameters

Safety Design Safety Standards Certification Safety Door Lock, Over Temperature Protection, Overload Protection, Warning Labels EN60204 CE, FCC, SGS

Slicing

Slicing SoftwareINTAMSUITE™Supported File Types.stl/.obj/.x3d/.3mf/.stp/.igesOperating SystemWindows

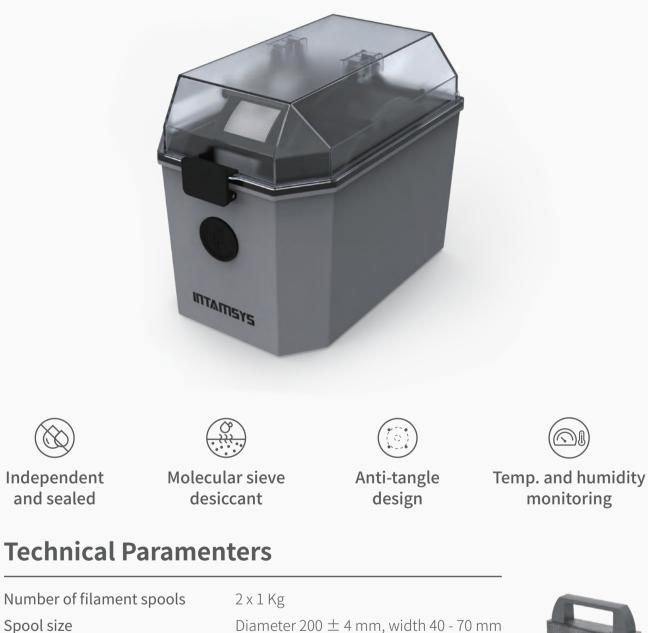
Operating Environment

Working Temperature	15 °C \sim 30 °C (59 \sim 86 °F)
Working Humidity	$30 \sim 70 \%$
Storage Temperature	0 °C \sim 35 °C (32 \sim 95 °F)
Storage Humidity	$20 \sim 90 \%$

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

INTAM[™] Box

Keep Your Materials Dried Longer



Spool size Drying time Environment temperature Desiccant Regeneration of desiccant Product size Product weight

Shameter 200 \pm 4 mm, when 40 - 70 mm $\leq 10\%$ RH for 20 days -10 °C ~ 60 °C (14 °F ~ 140 °F) 4A molecular sieve, 900 g Dry at 200 °C (392 °F) for 2 hours 315 x 205 x 257 mm (12.4 x 8.1 x 10.1 in) 2.45 Kg (5.4lb)



Reusable Drying Unit

INTAM[™] Cabinet

Meeting the Needs of Engineers for Convenient Work



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

FUNMAT HT

Desktop High-performance 3D Printer





Multi-material printing capability

Can print high-performance materials such as PEEK, PEEK-CF, PEEK-GF, PEKK and other materials such as PA-CF, PA, PC, ABS.



Advanced Thermal Design

90 °C (194 °F) heated chamber, 160 °C (320 °F) build plate and 450 °C (842 °F) nozzle.



Maximized build volume ratio

Build volume can be up to 260 x 260 x 260 mm.



Intelligent Design

Auto-leveling, filament runout warning, remote video monitoring.

The advanced design of the FUNMAT HT makes it easy to adapt to lab and workshop environments. It offers a print size up to 260 x 260 x 260 mm with excellent part performance. With the FUNMAT HT you can print common engineering filaments as well as high-performance filaments such as PEEK, PEEK-CF, PEEK-GF, PEKK, and third-party materials.



Technical Parameters

Printing			
Technology	FFF (Fused Filament Fabrication)	Leveling	Auto Leveling, Manual Leveling
Build Volume	260 x 260 x 260 mm (10.2 x10.2 x 10.2 in)	Materials*	PEEK, PEEK-CF, PEEK-GF, PEKK, PPS, PC,
Layer Thickness	0.1-0.5 mm		PC-ABS, PA6/66, PA6-CF, PA12, PA12-CF,
Number of Nozzles	1		ABS, ASA, HIPS, PVA, Carbon Fiber-Filled,
Number of Spools	1 (Max1Kg/pc)		Glass Fiber-Filled, ESD-safe, etc.
Filament Diameter	1.75 mm	Nozzle Temperature	Max. 450 °C (842 °F)
Print Speed	Max. 120 mm/s	Build Plate Temperature	Max. 160 °C (320 °F)
Nozzle Diameter	Default: 0.4 mm	Chamber Temperature	Max. 90 °C (194 °F)
	(Optional: 0.25/0.6/0.8 mm)	Functions	Filament Runout Warning, Remote Monitor
Machine			
Voltage	100 \sim 132 V/15 A or	Build Chamber	Fully Enclosed Printing Chamber
	200 \sim 240 V/7 A. 50/60 Hz	Motor System	High Performance Standalone Driver
Max. Power	1200 W	Cooling	Fan
Connectivity	SD Card	Travel Speed	Max. XY 200 mm/s
Screen	3.2" Touch Screen	Resolution	XY: 15.6 μm; Ζ: 1.56 μm
Build Plate	Ceramic Glass Plate, with Magnetic	Printer Size	542 x 501 x 645 mm (21.3 x 19.7 x 25.4 in)
	Fixations	Printer Weight	63 Kg (139 lb)
Safety			
Safety Design	Overload Protection, Closed Chamber, V	Varning Labels	
Safety Standards	EN60204		
Certification	CE, FCC, SGS		
Slicing		Operating Enviro	nment

Slicing Software **Operating System**

INTAMSUITE™ Supported File Types .stl/.obj/.x3d/.3mf/.stp/.iges Windows

Working Temperature Working Humidity Storage Temperature Storage Humidity

15 °C ∼ 32 °C (59 ∼ 89.6 °F) $30 \sim 70 \%$ 0 °C \sim 54 °C (32 \sim 129.2 °F) $10 \sim 85 \%$

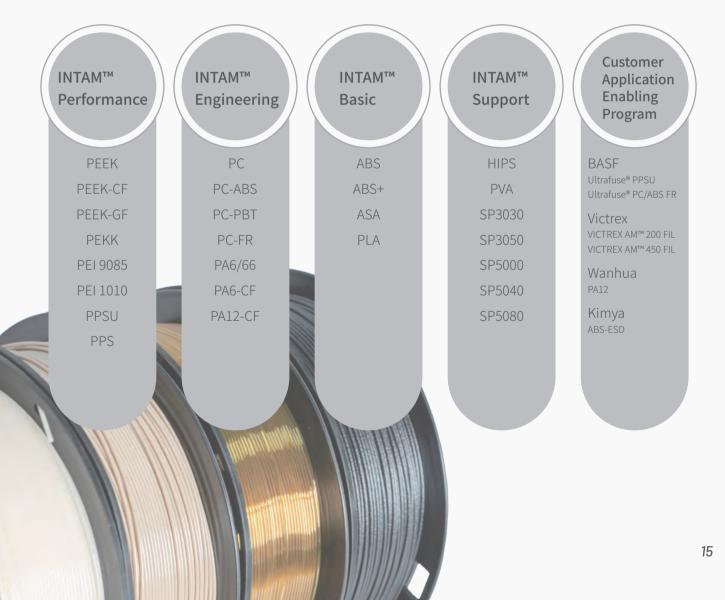
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3D Printing Material Solutions Innovative | Professional | High Quality

INTAMSYS, a global leader in the additive manufacturing industry, is focused on customer applications by providing innovative additive manufacturing solutions. The INTAMSYS FUNMAT 3D printer series has been on the market for years, providing customers with the perfect combination of industrial 3D printers and high-performance materials.

Through years of active insight into customer demands, INTAMSYS has accumulated a wealth of knowledge in materials and in printing processes. By developing industrial filament solutions that closely resemble commonly used production materials, the INTAM[™] series of high-quality filaments were launched. INTAM[™] Filament and the FUNMAT 3D printer series, along with the optimized slicing software INTAMSUITE[™] bring customers an unparalled printing experience.

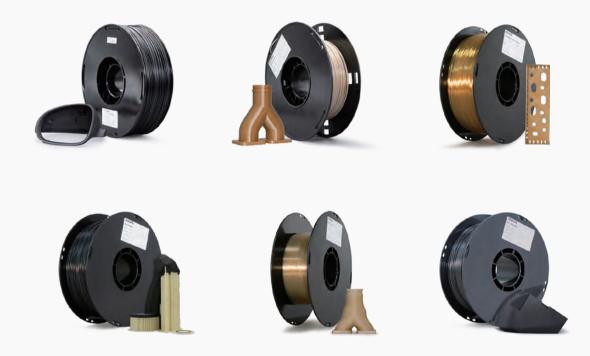
INTAMSYS is committed to providing continued custom material development and third-party material evaluation and certification.



INTAMSYS Materials Mission

The INTAM[™] Filament range is strictly tested and optimized for process parameters, resulting in a library of specialized materials and optimized printing settings. INTAMSYS phylosophy is to incorporate "ready-to-print" settings to its additive manufacturing solutions.

INTAMSYS industrial 3D printing solutions also feature an Open Material System. The printers openness allow customers an infinite choice of materials available on the market (from basic-, engineering-, high-performance-grade materials and more).



Material Partners

CAEP (Customer Application Enabling Program) was launched to bring value to the filament portfolio in 2019. The CAEP focuses on the specialized customer's applications with the well-chosen filaments. All qualified filaments are validated into the INTAM[™] Filament solution allowing compatible printing parameters with INTAMSYS printers.













INTAM[™] Performance

High-performance materials suitable for various demanding environments

Semi-crystalline polymer, high strength, good chemical resistance, long-term use temperature PFFK of 260 °C (500 °F). It meets ISO10993-5, ISO10993-10 and has a UL94 V0 grade fire resistance. Widely used in aerospace, automotive, oil and gas, energy, medical, dental and scientific research industries. Carbon fiber reinforced PEEK, high dimensional stability and weight-to-strength ratio, HDT/A PEEK-CF 315 °C (599 °F) allows short term usage at even higher temperatures. Commonly used for extreme environments such as aerospace & oil and gas industries. **PEEK-GF** Glass fiber reinforced PEEK, high dimensional stability and electrical insulation. HDT/A 315 °C (599 °F) allows short term usage at even higher temperatures. Commonly used in extreme environments such as aerospace & oil and gas industries. PEKK High strength, good wear and chemical resistance, high dimensional stability. Able to withstand hot and humid environments. PEI 9085 Made with ULTEM[™] 9085 resin which complies with FAR 25.853 and OSU 65/65 standards with low flame, smoke and toxicity rating (FST). Ideal for aerospace and military applications, this includes aviation and railway as well. PEI 1010 High temperature resistance, high strength and rigidity, strong flame retardancy. Suitable for aerospace, automotive, medical and other industries. **PPSU** Excellent heat resistance, corrosion resistance, electrical insulation and hydrolysis resistance. Widely used in electronic and electrical equipment manufacturing as well as tooling for the medical industry. PPS Excellent heat resistance and corrosion resistance, good flame retardancy and mechanical properties. Used in electronics, automobiles, machinery and other fields.

INTAM[™] Basic

Economical and easy-to-print basic materials

 ABS Durable, high temperature resistance, good toughness. Suitable for automobiles, consumer goods, etc.
 ABS+ Featured ABS with access to water soluble support material.
 ASA Excellent UV and weather resistance. Suitable for outdoor applications such as agriculture and construction.
 PLA Bio-based polymer material, environmentally friendly and degradable, easy to print, economical and practical.

Suitable for a variety of prototypes.

INTAM[™] Engineering Selective, economical and practical engineering materials

PC	High strength, excellent durability, and printability. Used for product models, brackets, mechanical parts, etc.
PC-ABS	Good toughness, high temperature resistance and smooth surface finish. Suitable for automotive interiors, lighting equipment, high heat-resistant parts, etc.
PC-PBT	PC-PBT polymer blend, high corrosion resistance, maintains high toughness at low temperatures. Used in auto parts, electronic equipment, etc.
PC-FR	Highly flame-retardant PC material, achieves V0 performance in the UL94 flame-retardant test, high heat resistance and high mechanical strength. Used in industries with high flame retardant requirements.
PA6/66	High mechanical strength and toughness, high temperature, ductility and fatigue resistance. Suitable for industrial parts used in harsh environments.
PA6-CF	Good strength, high rigidity, and matte surface finish. Used as electronic equipment, fixtures, auto parts, etc.
PA12-CF	High strength and rigidity, low water absorption, good interlayer adhesion and high dimensional stability. Used in automotive and aviation industries, as well as mechanical assemblies and other

products.

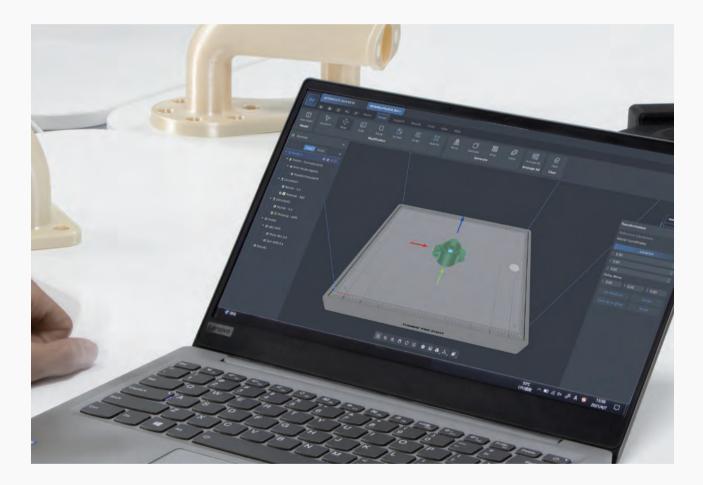
INTAM[™] Support

Support materials to help complex structure printing

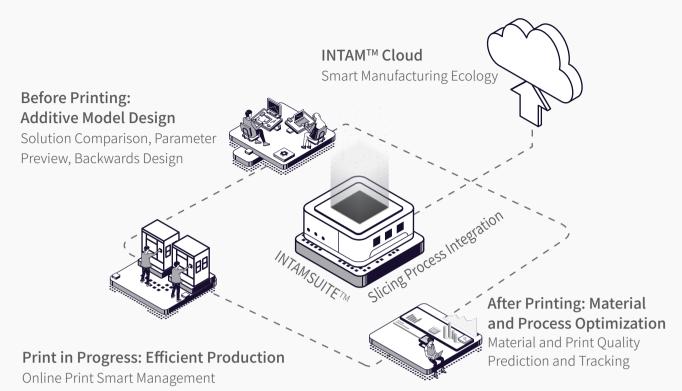
HIPS	Breakaway support material, suitable for ABS, PC, PC-ABS, PC-PBT, PC-FR, ASA and other materials.
PVA	Water-soluble support material, suitable for PLA and other materials.
SP3030	Water-soluble support material for PA6/66, PA6-CF, ABS+.
SP3050	Breakaway support material. Suitable for PA12 and PA12-CF.
SP5000	The preferred breakaway support material for PEEK, PEEK-CF, PEEK-GF, PEKK, and PAEK. Easily removed with the aid of solvents.
SP5040	Breakaway support material, easy to remove. Suitable for PEI 9085.
SP5080	Breakaway support material. Suitable for PEI 1010.

Slicing Software

INTAMSUITE[™] is an all-in-one collaboration platform that combines model design and repair, automated model slicing, online monitoring and print process optimization. It provides the best slicing experience for users of FUNMAT[™] series printers. Preparing the print file before printing is a critical step in ensuring quality. INTAMSUITE[™] provides a friendly user interface, ensuring that what you see is what you get. Compared to conventional slicing software for 3D printing, INTAMSUITE[™] is heavily optimized for material processes, slicing procedures, and system integration. INTAMSUITE[™] provides the necessary support for design and manufacturing at all stages, while comprehensively laying out the future intelligent manufacturing ecosystem.



Core Functions





Data compatibility and processing capabilities



Set printing parameters by model







Adaptive line width function



Customized support structure



Extensive library of material processes

Printing process data reading



Open slicing parameter settings





Model checking, mesh repair

Industry and Application Solutions



Aerospace

3D printing technology enables metal substitution of some aerospace products for shape verification of prototype, direct product manufacturing and mold making to meet "lighter, faster, lower cost, higher performance" design and manufacturing needs.

Sample name: Cubesat

Solution: Choosing PEEK and PEEK-CF dual-material printing, the satellite case are required to cope with the complex space environment, and has the advantages of high strength, temperature resistance, and radiation resistance. The cost advantage of small batch production of 3D printing is obvious.





Defense Industry

Based on the characteristics of the military industry which are research and development, single prototypes, small and medium batch, multi-variety and defense production. 3D printing solves the painful problems of high price and low efficiency of traditional processing and rapid production of spare parts druing regular maintenance, bringing high added value to on-demand manufacturing.

Sample Name: Turbine

Solution: This underwater turbine structure is complex, requiring high and low temperature resistance, anti-corrosion, and low water absorption. Still, traditional processing is more difficult. PEEK material can meet the demanding situation, while by 3D printing, users can significantly reduce costs and cycle time.





Education and Research

Additive manufacturing processes, new material researches, cross-disciplinary researches, and cutting-edge applicationrelated disciplines have contributed to the maturing of additive manufacturing. It has also contributed to the training of high-end talents in the manufacturing industry.

Sample Name: Research on wave-absorbing materials and structures

Solution: Prototype testing of different materials (PEEK, PA, etc.) and structures combined with rapid validation and iteration to find materials and structures that meet the needs of the application.





Medical

PEEK material itself has excellent biocompatibility, and mechanical properties very close to bone. It has been widely used in human implantation. The use of 3D printing technology can perfectly match the individual needs of patients and has huge market potential.

Sample name: Sternal bone repair implant **Solution:** PEEK is biocompatible for medical implantation. It has a density similar to bone, and can be clearly imaged under X-ray for post-operative observation. 3D printing can be customized and processed on an individual patient basis.



🐃 Automotive

3D printing technology is used throughout the entire automotive production cycle. It covers rapid prototyping, functional prototype verification, tooling and other auxiliary tools such as customized modifications and production of spare parts for small batch models.

Sample name: Steering wheel prototype

Solution: Large scale/batch printing shortens the iteration cycle. Rapid prototyping at a time, Only 2-3 days for monolithic manufacturing. PC-ABS material was chosen to bring out the best benefits of the combination of PC and of ABS. PC brought temperature resistance and strength to the part while ABS gave to the part its smooth surface quality.





General Manufacturing

Unlimited design freedom, customization, lightness, intuitiveness, precision, and efficiency help companies achieve flexible production of complex structures and rapid iterations.

Sample name: Pipe joint bracket

Solution: This pipe joint bracket printed of nylon material embodies high wear-resistance and toughness. Fixing methods can be designed according to the pipe size and site conditions.



Global Sales & Support Networks





Localized Services

Quick response to customer needs



Professional Support

Well-trained distribution team



Contact us

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