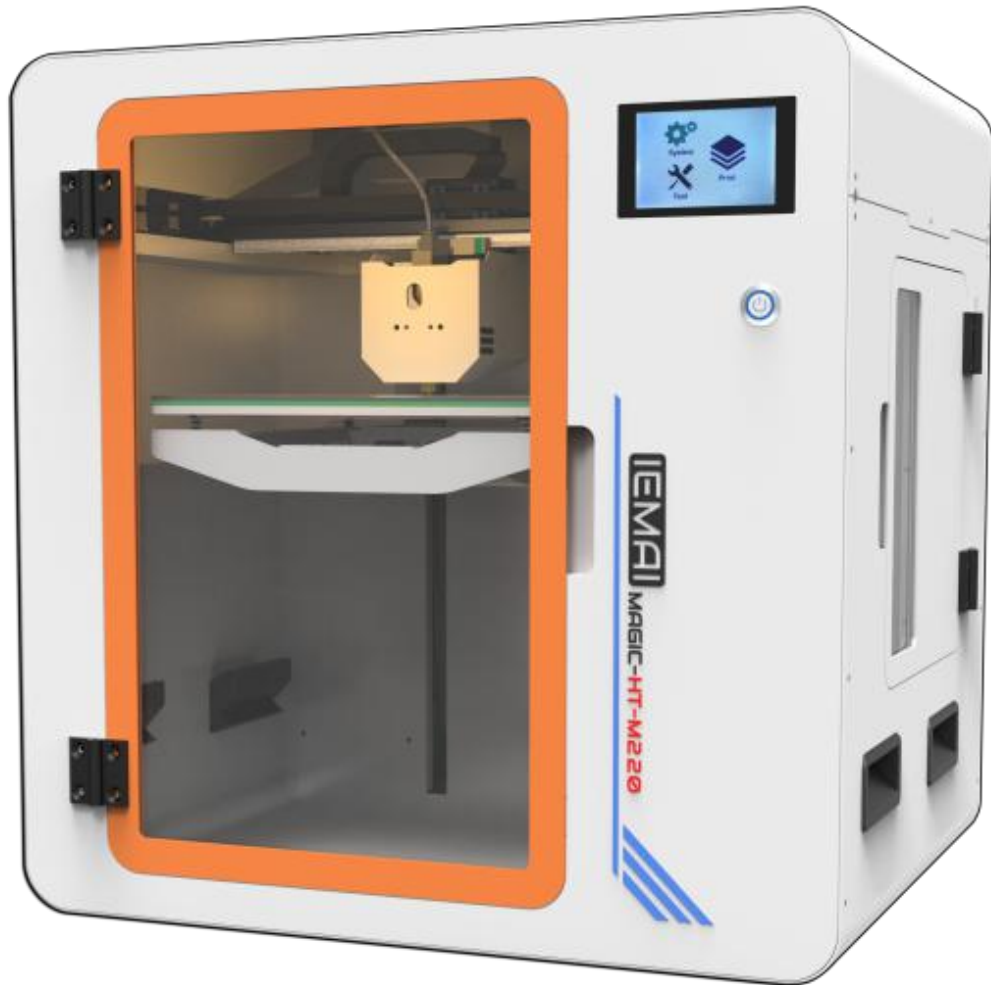




3D Printing's Solution Of High Performance Functional Materials

3D PRINTER FOR HIGH PERFORMANCE MATERIALS MAGIC-HT-M



Manufacturer: Dongguan Imai Intelligent Technology Co., Ltd.



Catalog

- Equipment Overview 1
- Parameter 2
- Machine show 3
- Product Advantage 4
- Company profile 5
- Our Certification 5
- Our service 5
- IEMAI High Performance Materials 3D Printing Solutions6
- Summary of Engineering Materials7
- Summary of Normal Materials8
- Peek printing Results show.....9
- Contact Us 10



● Equipment Overview

IEMAI High Performance Materials 3D Printer MAGIC-HT-M is a 3D printing device based on the principle of fuse deposition (FFF) technology, with a print temperature of up to 450°C and a hot bed temperature of 120°C.

And the cavity temperature of 90 °C, to support the vast majority of polymer 3D printing wire on the market, including special engineering plastics PEEK, PPSU, ULTEM, etc., supporting the quick release print head, creating a simple maintenance conditions.

IEMAI produces PEEK, PPSU, PEI,ABS and high-temperature cleaning materials. Together with the 3D printer MAGIC-HT-M, it became the first domestic manufacturer to provide high-performance materials for 3D printed wire and high-temperature 3D printers, and solve the problem of cleaning high-performance materials.

Core Parameters	Core Functions
<ul style="list-style-type: none"> ● Printing size: 220*220*220mm ● Max printing temperature: 450°C ● Max chamber temperature: 90°C ● Max heat bed temperature: 110°C ● High success rate of PEEK: Like print PLA 	<ul style="list-style-type: none"> ● Detachable single printing head (HT or NT) ● Power Failure Recovery ● Filament Short Warning(filament sensor) ● WIFI control (cell phone APP)

Supported materials

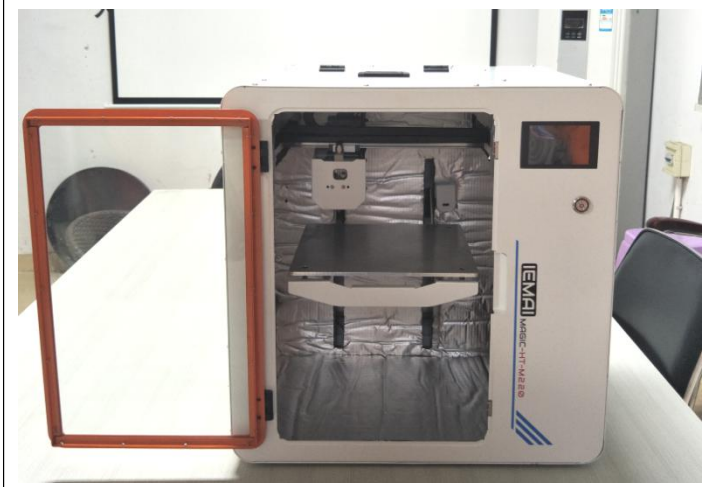
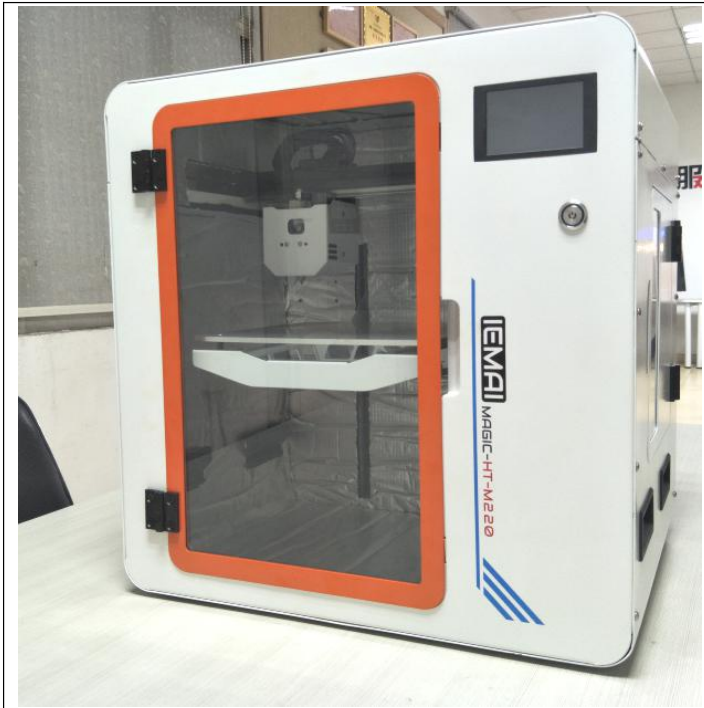
PEEK	ULTEM	PPSU	ASA	PC	PA	ABS	PETG
PLA	TPU	PVA	HIPS	WOOD	CARBON	SUPPORT




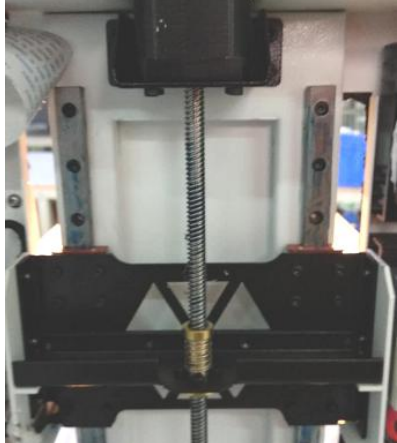
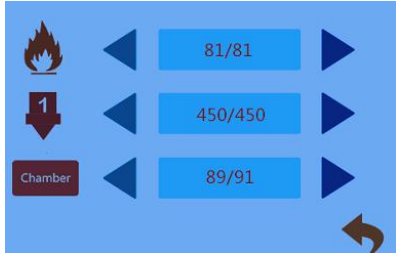
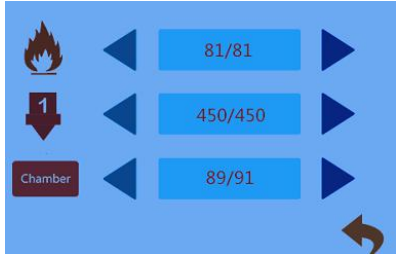
● 3D PRINTER FOR HIGH PERFORMANCE MATERIALS: MAGIC-HT-M

3D Printer Parameters	
Printing Technology : FFF	Printing Size : 220*220*220 mm
Product Size: 505*435*515 mm	Packing Size : 535*465*675 mm
Max Printing Temperature : 450°C/842°F	Max Chamber temperature: 90°C/194°F
Product weight: 35 kg	Packing weight : 51 kg
Platform : High viscosity fiberboard	Layer Thickness: 0.05-0.3 mm
Printing Head : Single	Nozzle Diameter : 0.4 mm for Standard, available for Customizing.
Printing Speed : 0-150 mm/s	Supported File Type : STL、OBJ、g-code
Platform Temperature: up to 120°C, but Just need 80°C for all materials (Due to the excellent performance of the Platform)	Supported Material: PEEK, ULTEM, PPSU, PA/CF, PC, PC Alloys, PA, ABS, Carbon Fiber-Filled, Metal Filled, ASA, TPU, Fiberglass-Filled, HIPS, PVA, PETG, etc.
Filament Diameter: 1.75mm	Position Accuracy : X/Y: 12.5 μm Z: 2.5 μm
Input: 220V 50~60 Hz 980W	Output: DC 24V
Connect Method: SD Card, USB, Wi-Fi	Warranty: 12 months
Screen : 3.5' Touchscreen	Software: IEMAI, Cura, Simplify 3D, Compatible with other.

● Machine Show



● Product Advantages

Advantages	Pictures	Description
<p>Detachable Printing head</p>		<p>Independently developed special high temperature print head. Easy to replace and maintain.</p>
<p>Precision Ball Screw + Linear Guide</p>		<p>High precision transmission; (With High temperature resistant belt);</p>
<p>Printing Temp 450°C</p>		<p>Print high performance materials;</p>
<p>Chamber Temp 90°C</p>		<p>Keep the temperature gradient;</p>
<p>Power Failure Recovery</p>	<p>/</p>	<p>Recovery of power off accident printing;</p>
<p>Filament Short Warning</p>	<p>/</p>	<p>Alarm the shortage of filament</p>
<p>Constant temperature system</p>	<p>/</p>	<p>Ensure a constant chamber temperature;</p>

Our Certifications



CE



ROHS



Software copyright



Invention Patent

● IEMAI High Performance Materials 3D Printing Solutions



Application: Aerospace
Material: PEEK



Application: Automotive
Material: ULTEM










Application: Medical
Material: PEEK







Application: Automotive
Material: PEEK

● Summary of Engineering Materials




Pictures	Material	Key Characteristics	Applications
	ABS	Multifunctional(strong)	High requirement prototype
	PETG	Transmittance	Tail lens and steering lamp Perspective, functional prototype
	ASA	UV stability and best aesthetic sense	End use parts for outdoor use Sports goods Building material
	PC	Sturdy (tension)	High requirement prototype Manufacturing tools, fixtures and carriers Composite tools and moulds and metal bending
	PA	Sturdy (impact)	Functional prototype High impact products and Applications Fixture and fixtures, fixture, product carrier

	ULTEM	Mechanical performance matured	Interior decoration panels and components: aircraft, buses, trains Mold style suitable for metal bending, composite laminated and fixed
	PEEK	Food grade Bio-compatibility	Medical tools, manufacturing tools, cooling fixtures, functional types

● Summary of Normal Materials

Pictures	Material	Key Characteristics	Applications
	PLA	Environmental degradation	Education
	TPU	Flexible material	Clothes & Accessories
	TPE	Elastic material	Suitable for soles, uppers
	Carbon PLA	Low density	Education, Automotive

● Peek Printing Objects Show

Moving gear	Bracket	Bones
		

Shell	Dentistry	Gear
		

