PEEK-300

THE LEADER OF

ULTRA HIGH PERFORMANCE

3D PRINTER

- Ultra high temp. nozzle/bed
- Advanced Thermal System
- Direct Annealing System
- Water cooling/ Heat isolation system
- Medical/Industry application

Get a quote | Find material

ANIWAA BEST PEEK 3D PRINTER 2022 PEEK-300 CREATBOT

3D Printing Industry Awards 2022

2019 DIGITAL FABRICATION GUIDE Make: Best Large Format Pro2

Direct Annealing System

Direct Annealing System (DAS), the world's first and extraordinary technology by CreatBot.Annealing process is instant controllable during printing. It aims to provide best quality parts in one time without warping and cracking printing of big size functional materials. (The technology is patent protected and available by CreatBot only)

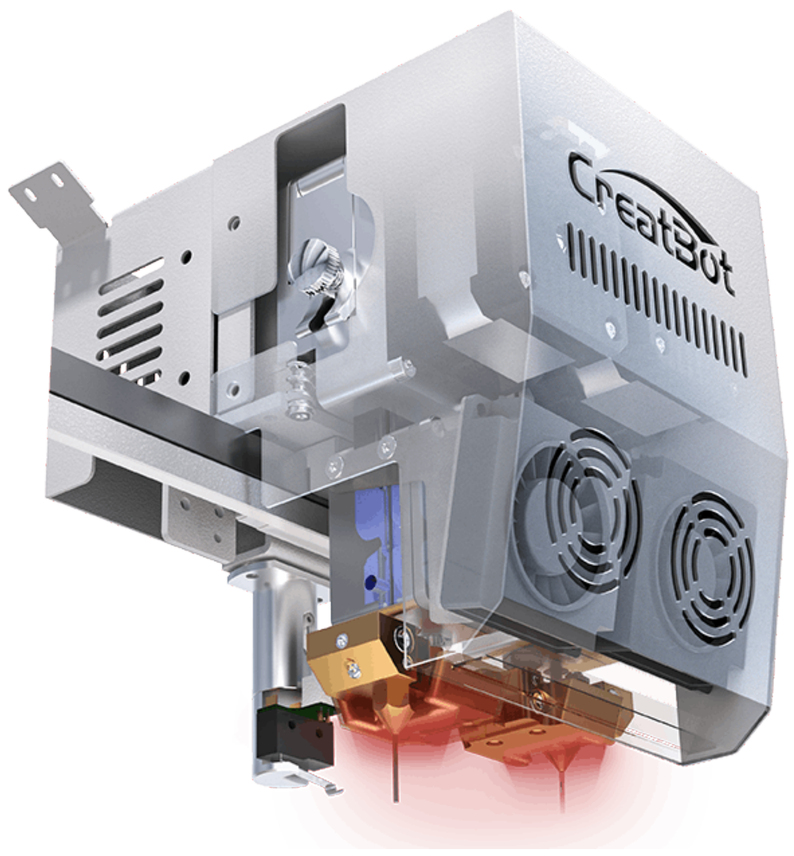
DAS annealing process features :

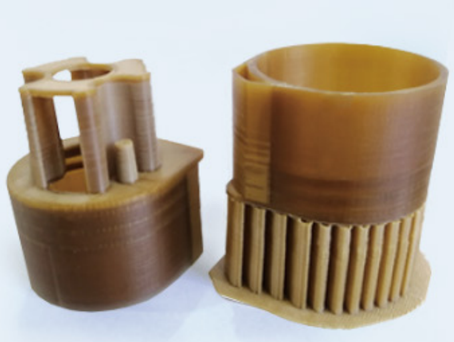
1）Instantaneously:Finished during printing process, no need secondary treatment in oven.

2）Completely:The annealing process point to every extruded filament, not the whole printed model. The internal structure of the whole model could not be fully crystallized or will deform in oven.

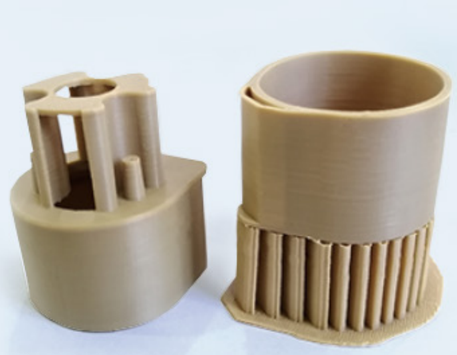
3）Controllable:The surrounding temperature can be adjusted to 0-200 ° C. the different requirements of toughness and strength can be met by adjusting the DAS temperature function at different material parts.

Contact us for more information about its principle and application.





Before Annealing



After Annealing

Before Annealing

After Annealing

What concept do you need know first?

Heat control system：

High temp. hotend

hotbed

hot chamber

Direct Annealing System

Cooling system：

liquid cooling

Air pump cooling

What new technology can we except?

The Direct Annealing System (DAS) is a revolutionary technology designed and patent protected by CreatBot. It is the most advanced technology applied to 3D printing high performance material.

What parameters make us exciting?

Hotend max. 480°C with dual extruder

Heatbed max.200°C

Hot chamber max. 120°C

Build volume: 300 x 300 x 400 mm

Triple heat isolation and liquid cooling system

What printing materials are available?

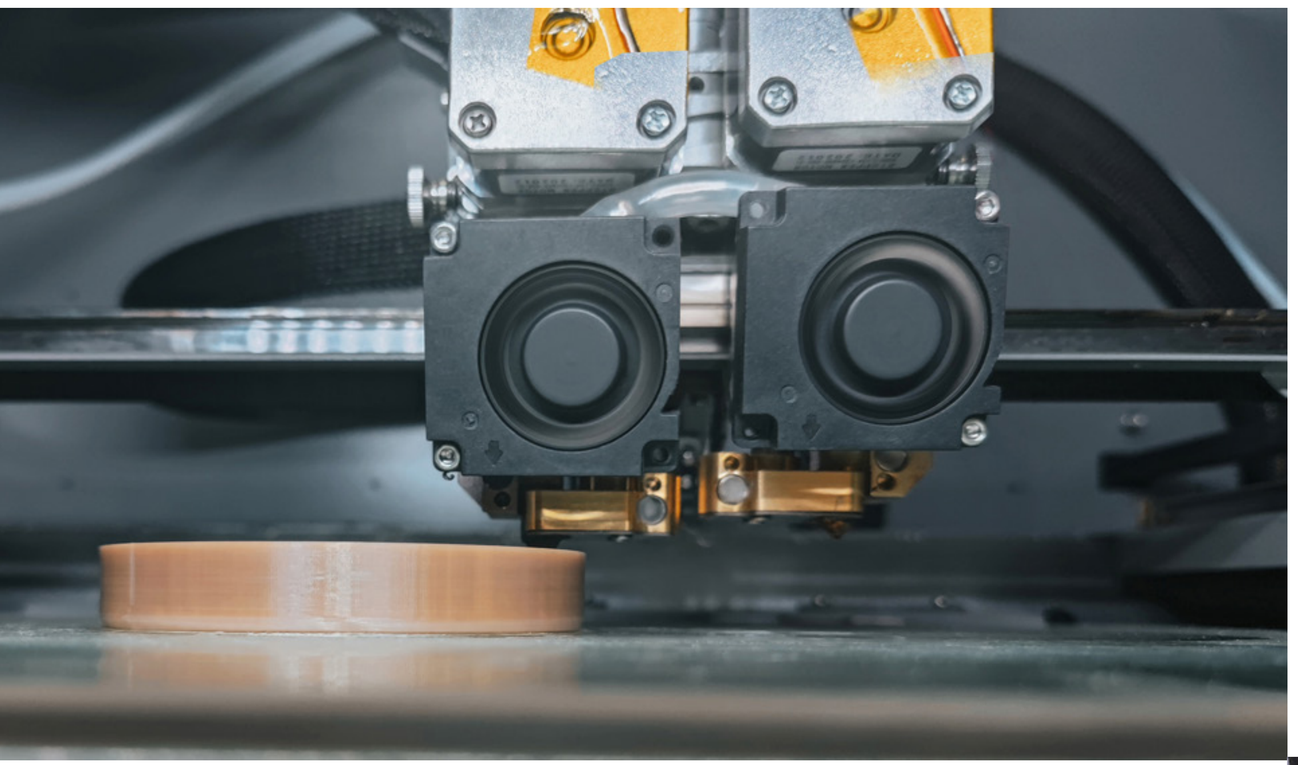
Engineering Plastics: PLA, PC, ABS, PA6, PETG, PVDF, POM-C, PP, TPU

High temperature Material: PPSU, PEI (ULTEM), PA12, PSU, PPS, PA-CF

Ultra performance material: Medical grade PEEK, PEEK, PEKK, PEEK-CF (Carbon fiber), PEEK-GF (glass fiber), etc

Smart Auto-rising dual extruders 480 °C

The PEEK-300 equipped with CreatBot new technology smart Auto-rising dual extruders. Water cooling, DAS system, Auto-rising extruders. The dual nozzle temperature up to 480° C. You can print any 3D printer materials in the world. We can say it is best choice of polymer materials.



Hotbed 200 °C

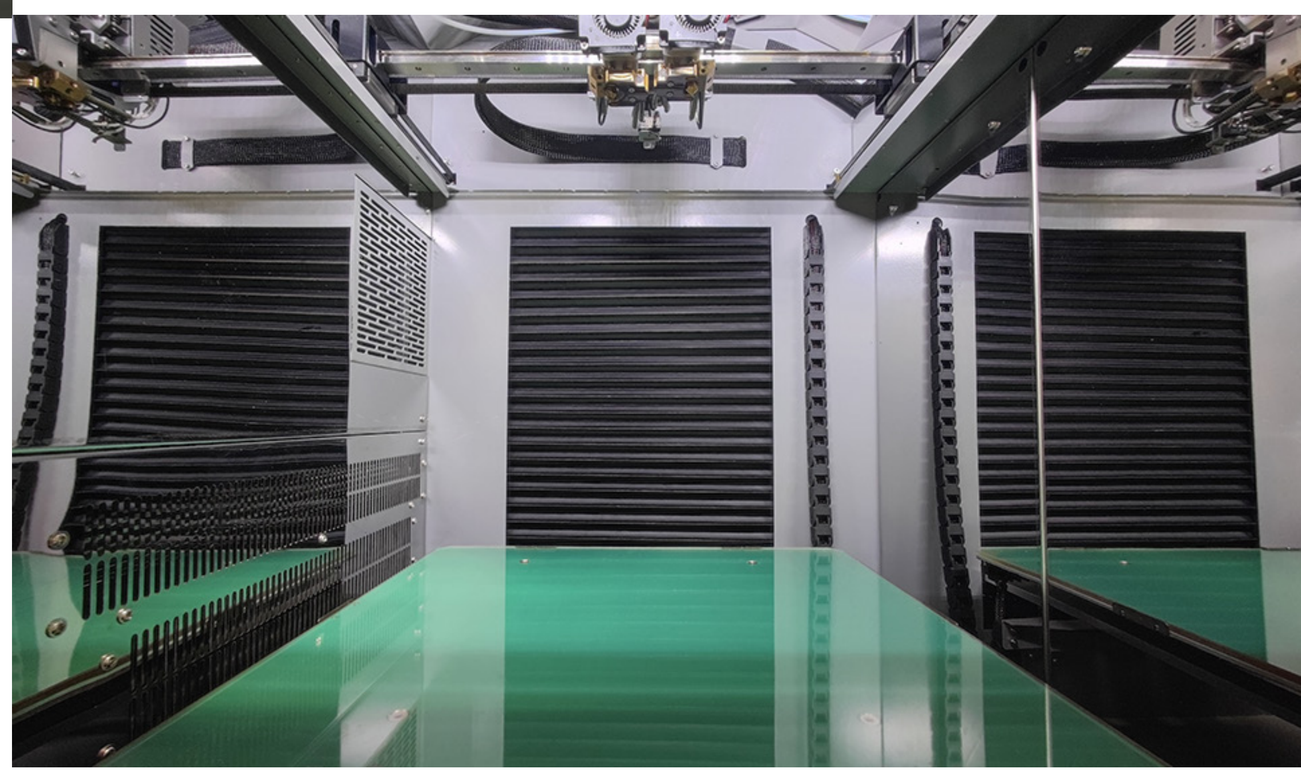
Common but necessary.

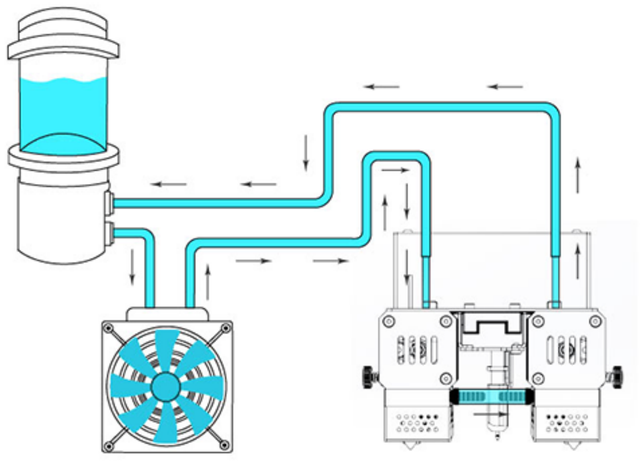
Base of printing big models with no warping.。

Hot Chamber 120°C

Outstanding and important.

The protector of no-crack printing.





Cooling System

The cooling system is one of the important parts that constitute the whole thermal system. It consists of
(1) liquid cooling with circulating liquid that can be used effectively for a long time.
(2) air pump cooling. The air pump provides cold air from outside instead of hot air inside the chamber.

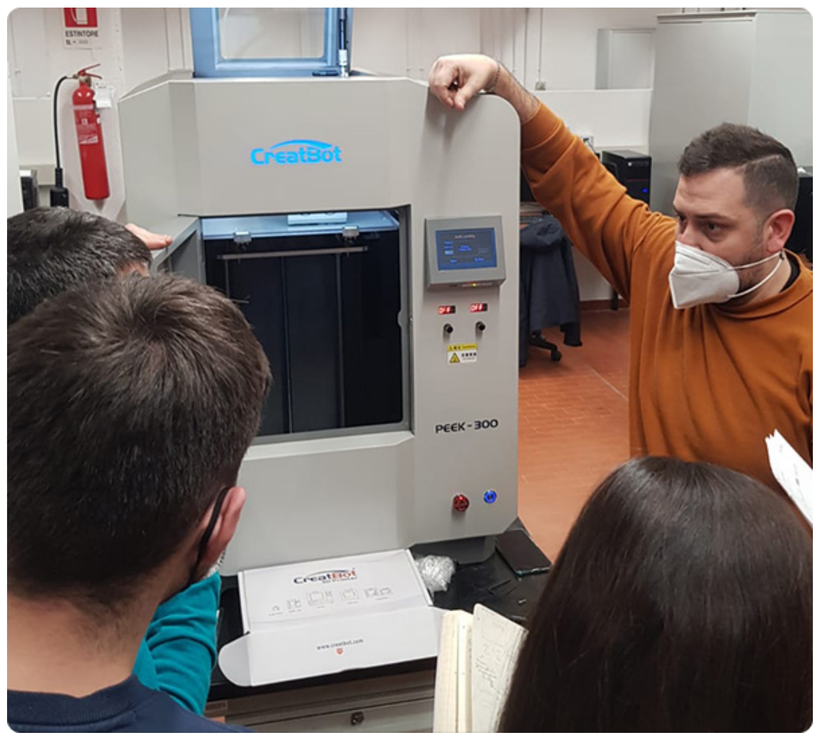
Printing in single and dual-extrusion modes

Get your model printed

According to your application scenarios and requirements, we can customize the selection of material types and model design suggestion. To a certain extent, you can get your models printed for free to verify your industry applications first.

Need local support?

If online support can not solve your problem, please contact us. We will ask our local team contact with you and provide services to you. if necessary, we can provide on-site services, technical support and training for you.



Product Parameter

Printing	
Build Volume	Single Extrusion: 300*300*400 mm Dual Extrusion: 240*300*400 mm
Filament Diameter	1.75mm
Number of Nozzles	Dual Extruder
Print Speed	10–120mm/s
Nozzle Diameter	0.4mm (0.3~1.0mm optional)
Filament Compatibility	Engineering Plastics: PLA, ABS, ASA, PC, Nylon, PETG, PVDF,TPU,Carbon Fiber; High temperature Material: UltraPA, UltraPA-GF, UltraPA-CF, PPSU, PEI(ULTEM); Ultra-performance material: PEEK,CF-PEEK (Carbon fiber), GF-PEEK (glass fiber), PEKK, etc.

Electrical	
Input Power	200V~240V，20A
Rated Power	4600W
Screen	4.3” full color touch screen, multi-language
Print Method	USB Connectivity/USB Disk

Mechanical	
Cooling	Air pump cooling & water cooling
Platform	PCB aluminum + PEEK print board
Positioning Precision	X Y axis 0.0127mm, Z axis 0.00125mm
Extruder	Directly Drive
Machine Construction	Fully enclosed hot chamber
Bed Leveling	Manually/Automatic

Temperature	
Nozzle Max. Temperature	480℃
Chamber Temperature	120℃
Platform Max. Temperature	200℃
Direct Annealing Temperature	0~400℃

Software	
Software	Creatware, Simplify3D, Cura, Slic3r
Operating Systems	Windowsall, macOS
Print File Type	STL, OBJ, AMF, Gcode

Special Function	
Outage Restored	Save data when power is off
Filament Detection	Pause printing when filament run out
Direct Annealing System (DAS)	Annealing process is instant controllable during printing. It aims to provide best quality parts in one time without warping and cracking printing of big size functional materials.
Heat insulation	Triple heat insulation
Emergency stop switch	Support emergency stop
High temperature accessories	High temperature resistance motors, linear rails, belts and circuits to ensure long time high temperature printing.

Size & Weight	
Machine Size	650*600*750mm
N.W	100kg
Packing Size	820*720*1080mm
G.W	145kg

LinkedIn

Youtube

Facebook

Henan CreatBot Technology Limited

Website: www.creatbot.com

Email: sales@creatbot.com

Address: Address: No.150 Lamei Road
Zhongyuan District,
Zhengzhou 450000, China

CreatBot