

CreatBot PEEK-300



1. Direct Annealing Temperature: 0-400°C

Direct Annealing System (DAS), the world's first and extraordinary technology by . 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 only)



2. Smart Auto-rising dual extruders 500 °C

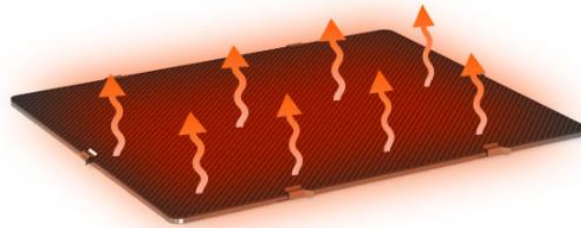
The PEEK-300 equipped with new technology smart Auto-rising dual extruders. Water cooling, DAS system, Auto-rising extruders. The dual nozzle temperature up to 500°C. You can print any 3D printer materials in the world. We can say it is best choice of polymer materials.



3. Hotbed 200 °C

Common but necessary.

Base of printing big models with no warping.



4. Hot Chamber 120°C

Outstanding and important.

The protector of no cracking printing.



5. Triple Heat Isolation

Triple heat isolation is made of double insulation chamber, advanced insulation materials and vacuum double PC boards. It is guarantee of ultra performance and safety.

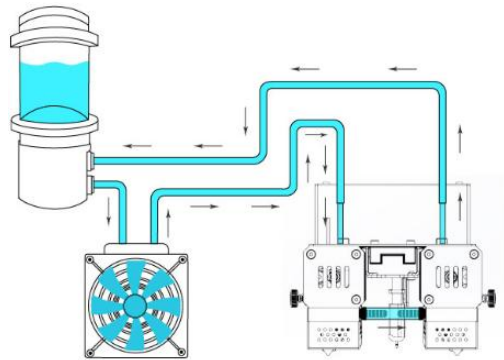


6. Cooling System

Cooling system is one of the important parts to constitute the whole thermal system. It is made of

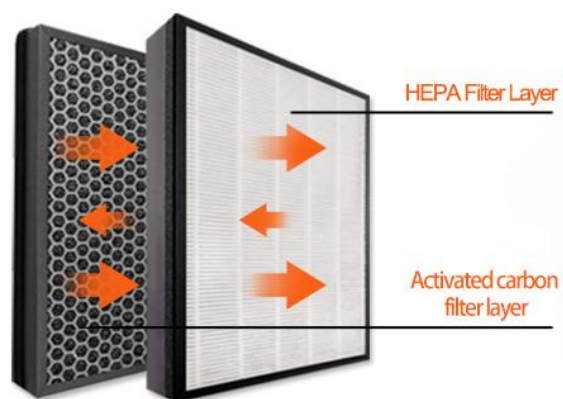
(1) liquid cooling. Circulating liquid can be used effectively for a long time.

(2) Air pump cooling. Air pump provide cold air from outside instead of hot air inside chamber.



7. HEPA Air Filtration

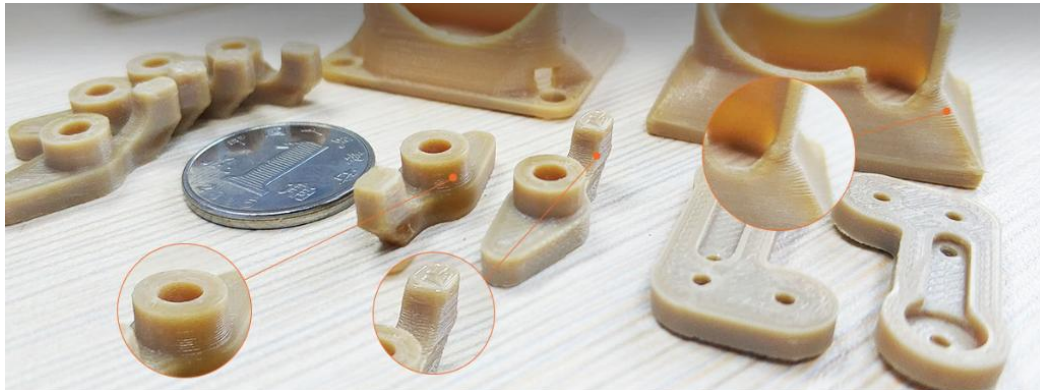
The air filter system can adsorb impurities and gases that generated by printing special filament, more safe and environmental protection which is more suitable for house, school, office space.



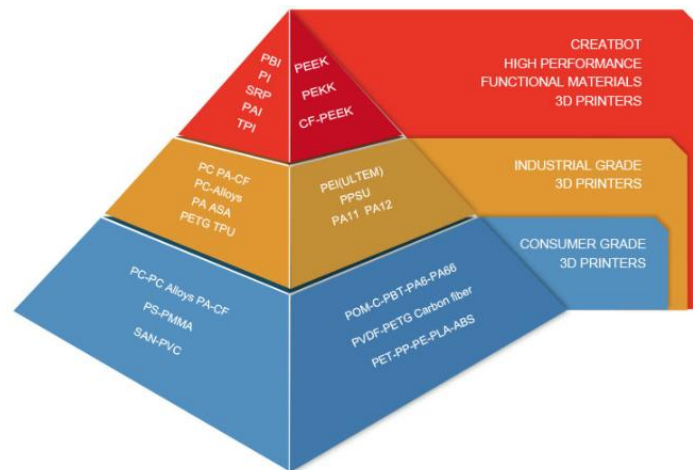
8. Resolution 0.04mm

0.04mm is an available resolution for normal plastics, but it is an extraordinary resolution for high warping

and high deformation materials. 3D printing high performance material need not only high temperature, but better cooling. For high resolution with high small details, high temperature will ruin layers to a mess if heat and cooling are not in a balance.



9. Material Performance Comparison Chart



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.
Software	
Software	Creatware, Simplify3D, Cura, Slic3r
Operating Systems	Win7/8/10
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.
Temperature	
Nozzle Max. Temperature	500℃
Chamber Temperature	120℃
Platform Max. Temperature	200℃
Direct Annealing Temperature	0~400℃
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
Electrical	
Input Power	200V~240V, 20A

Rated Power	4600W
Screen	4.3" full color touch screen, multi-language
Print Method	USB Connectivity/USB Disk
Size & Weight	
Machine Size	650*600*750 mm
N.W	100 kg
Packing Size	820*720*1080mm
G.W	130 kg