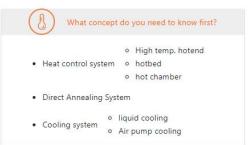
# CreatBot PEEK-300











#### 1.Direct Annealing Temperature: 0-400°C

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)





## 2.Smart Auto-rising dual extruders 500 °C

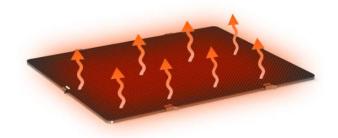
The PEEK-300 equiped with CreatBot new technology smart Auto-rising dual extruders. Water cooling, DAS system, Auto-rising extruders. The dual nozzle temperature up to 500°C. You can print any 3D printer materials in the world. We can say it is best choice of polymer materials.



#### 3.Hotbed 200 ℃

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

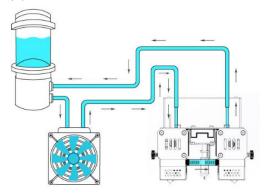
Triple heat isolation is made of double insulation chamber, advanced insulation materials and vacuum double PC boards. It is guarantee of ultra performance and safety.



#### 6. Cooling System

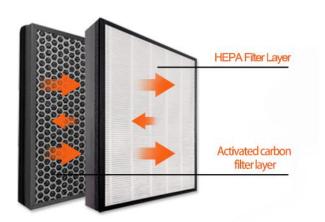
Cooling system is one of the important parts to constitute the whole thermal system. It is made of

- (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.



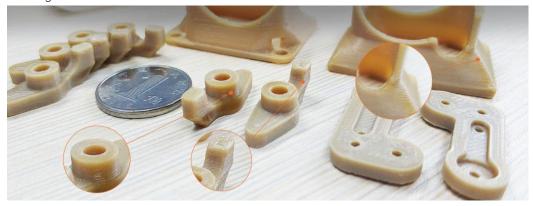
#### 7. HEPA Air Filtration

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.

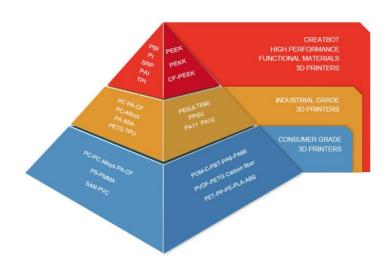


#### 8.Resolution 0.04mm

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	300*300*400 mm
Print Resolution	0.04 mm-0.4 mm
Filament Diameter	1.75 mm
Number of Nozzles	Dual Extruder
Print Speed	10-150 mm/s
Nozzle Diameter	0.4 mm (0.3~1.0 mm optional)
Filament Compatibility	Engineering Plastics: PLA, TPU, PC, ABS, PA6, PETG, PVDF, TPU High temperature Material: PPSU, PEI (ULTEM), PA12, PSU, PPS, PA-CF, POM, PP

	Ultra-performance material: Medical grade PEEK, PEEK, PEKK, CF-PEEK (Carbon fiber), GF-PEEK (glass fiber), etc.					
Software						
Software Bundle	Creatware, Simplify3D, Cura, Slice3r					
Operating Systems	Win7/8/10, 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	Suppor	t emergency stop				
High temperature accessories	High temperature resistance motors, linear rails, belts and circuits to ensure long time high temperature printing.					
Temperature						
Nozzle Max. Temperat	ure	500 °C				
Chamber Temperature		120 ℃				
Platform Max. Temperature		200 ℃				
Direct Annealing Temperature		0~400 °C				
Mechanical						
Cooling	Air pump cooling & water cooling					
Platform	PCB aluminum + PEEK print board					
Positioning Precision	X Y axis 0.01mm, Z axis 0.0025mm					
Extruder	Directly Drive					
Machine Construction	Fully enclosed hot chamber					
Bed Leveling	Manually/Automatic					
Electrical						
Input Power	200~240 V, 120A					
Max. Power	3 000 W					
Screen	4.3" full color touch screen, multi-language					
Print Method	USB Connectivity/USB Disk					
Size & Weight						
Machine Size	650*600*750 mm					
G.W	100 kg					
Packing Size	820*720*1080mm					
N.W	135 kg					

# Specs Comparison With Other Brands

	CreatBot PEEK-300	Stratasys F370	Intamsys Funmat Pro410	Apium M220
Place of origin	China	USA	China	Germany
Build Volume (mm)	300*300*400	355*254*355	305*305*406	170*170*130
Max Nozzle temperature	500 °C	300 °C	450 °C	540 °C
Max Chamber temperature	120 °C	90 °C	90 °C	
Max hot bed temperature	200 °C		160 °C	
Temperature around the part is controlled	0-400 °C	None	None	0-200 °C
Min layer resolution	0.04 mm	0.013 mm	0.05 mm	0.1 mm
Number of extruder	2	2	2	1
Build platform	Carbon fiber sheet		Ceramic Glass	Medical grade material
Materials	PEKK, PEEK, medical PEEK, Carbon-PEEK, ULTEM, PEI, PPSU, PA/CF, PC, PA Alloys, PA6, PA12, ABS, Carbon Fiber, Nylon, ASA, PETG, ESD-Safe, HIPS, TPU, PLA, PVA, TPU 65A,ETC.	PLA, ABS, ASA, PC-ABS, TPU 92A	PEEK,PEI,PPSU, PA/CF, PC, PC Alloys, PA, ABS, Carbon Fiber-Filled, Metal-Filled, Fiberglass-Filled, Nylon, ASA, PETG, ESD-Safe, HIPS, TPU, PLA, PVA, ETC.	Medical PEEK
Machine size	650*600*750	964*711*1 626	720*680*1 470	850*685*675
Weight	120 kg	227 kg (with cabinet)	200 kg (with cabinet)	66 kg