



## CrEatBot D600 3D Printer User Manual

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## USER MANUAL

Henan Suwei Electronics Technology Co., Ltd.

### Icon Conventions

	Tip icon to remind users to have a good method or technique.
	Note icon, to remind the user must be given adequate attention.
	Prohibition icons, prevents users from unauthorized operation.

### Read First

Thank you for choosing CreatBot 3D printer!





This manual contains important information about the installation, use, maintenance and common problems of CreatBot 3D printer. Please read this manual carefully before using 3D printer. All losses caused by the breach of the notes and the operation process of the operation process will be borne by the user. Please use the filament provided by CreatBot, or high quality filament by third manufacturers. Due to the use of third party inferior material caused by the failure of the printer, the loss will be borne by the user.

Software running environment, 2G or above processors, at least 1G memory, compatible with Windows, MAC, or




Linux, please use memory as much as possible.

I wish you have fun with CreatBot 3D printer!

## Danger Warning

	The nozzle's temperature will reach 300 degrees, don't touch.
	The platform's temperature will reach 120 degrees, don't touch.
	Please make sure that the printer connected to the ground.
	Do not attempt to open the case, be careful of electric shock.

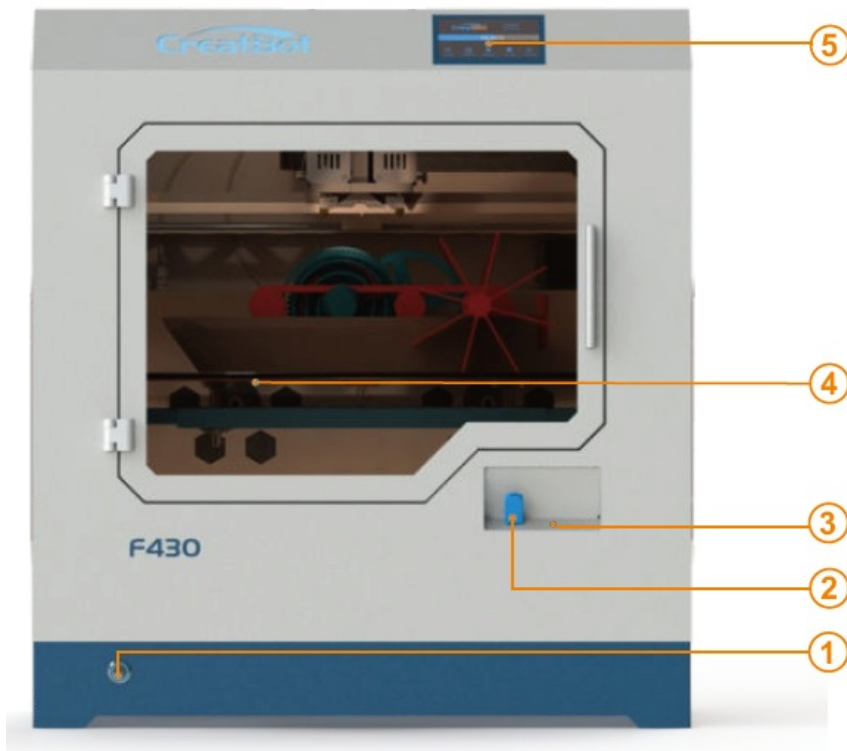
## Working Environment

	The 3D printer can work in the indoor environment of 5 °C to 30 °C.
	Long-term not use of the printer, be sure to dust, moisture.
	Long-term not use of the filament, please be sealed to prevent deterioration.

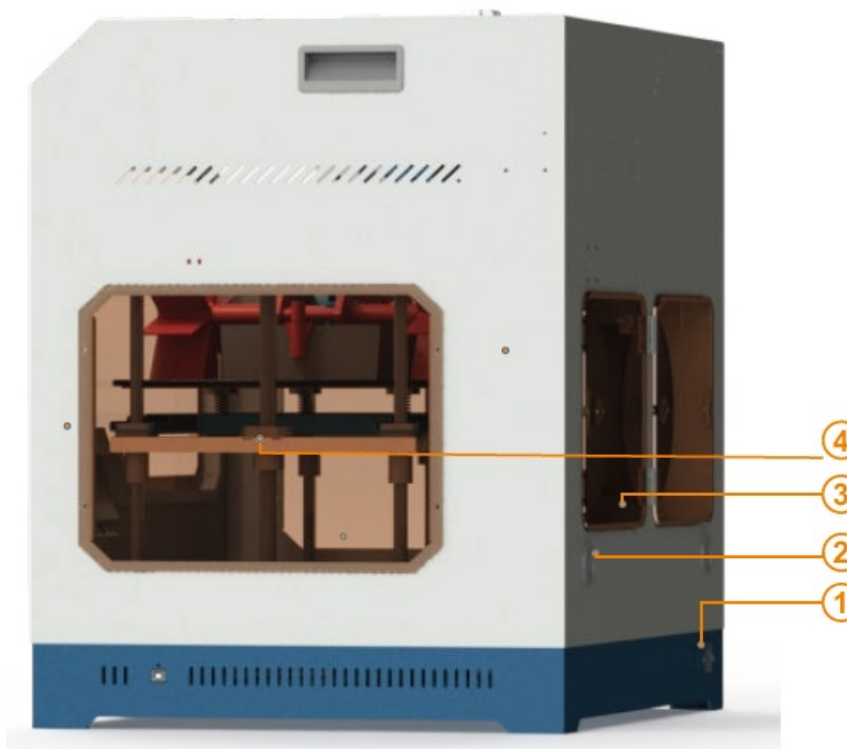
## Machine Diagram

Front and Back





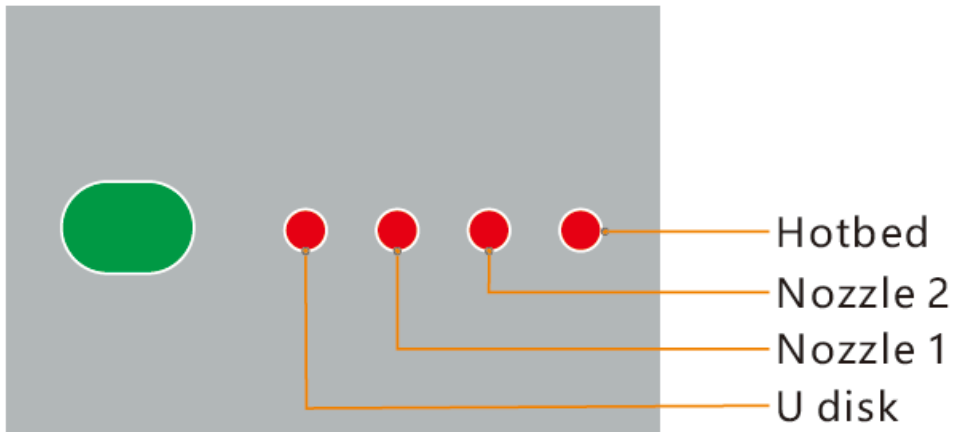
- 1.Power switch
- 2.Usb input
- 3.Indicator light
- 4.Hot bed
- 5.Touch screen



- 1.Power input
- 2.Air filter
- 3.Filament space
- 4.Z ball screw

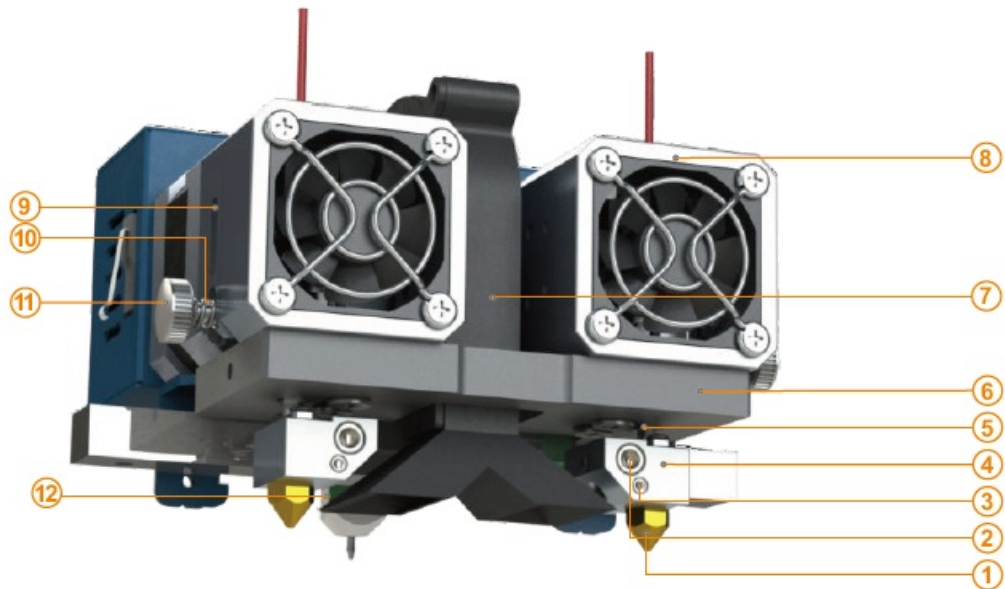
## Machine Diagram

Indicator light



## Printer Head

### Printer Head



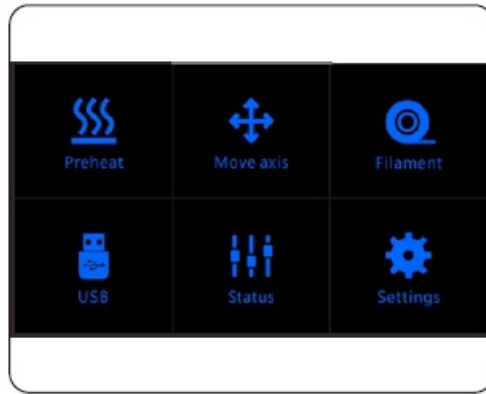
- |                   |                  |                    |
|-------------------|------------------|--------------------|
| 1.Nozzle          | 5.Heatbreak      | 9.Pressure arm     |
| 2.Heating tube    | 6.Extruder block | 10.Pressure spring |
| 3.Thermostat tube | 7.Cooling fan    | 11.Pressure nut    |
| 4.Heating block   | 8.Extruder box   | 12.steering engine |

## Hardware Installation

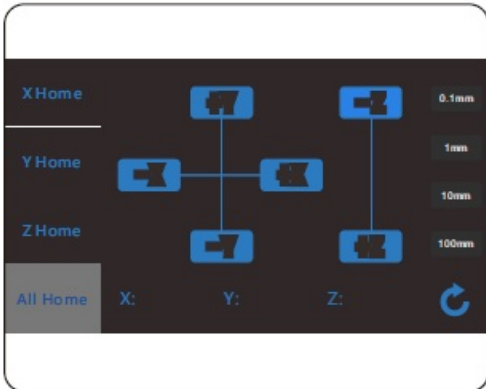
### Unpacking



Turn on printer



Up platform



Up platform

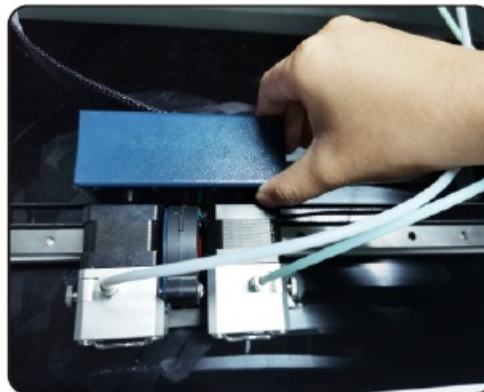
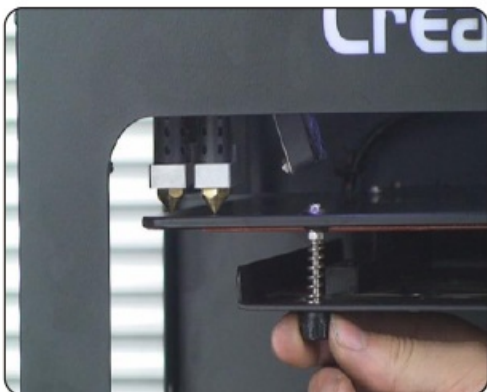


Take out filament

1. Ensure the packing is not broken.
2. Need two people at the same time.
3. Lift it out by grasping the frame, not the belt or rails.
4. Turn on the printer, enter "Move axis" menu, select "All home", the bracket will rise, now you can take out filament.

## Printer Operation

### Leveling Platform



#### I. Leveling platform manually

1. Turn on the printer.
2. On touch screen, press "Move axis" -> "All home"
3. Then "-Z" -> 100mm.

4. Move the extruder by hand to 4 corners of bed. Tighten or loosen 4 black nuts below the bed to make sure the distance between nozzle and bed is 0.2mm around. (Approximately the thickness of one piece of name card)
5. All home secondly.
6. "-Z"-->100mm secondly. Focus on the distance between the nozzle and bed. It needs to be 0.1mm around. If the distance too far, increase Servo Z offset value (+0.1mm each time). If too close or touch the bed, decrease Servo Z offset value. (-0.1mm each time).

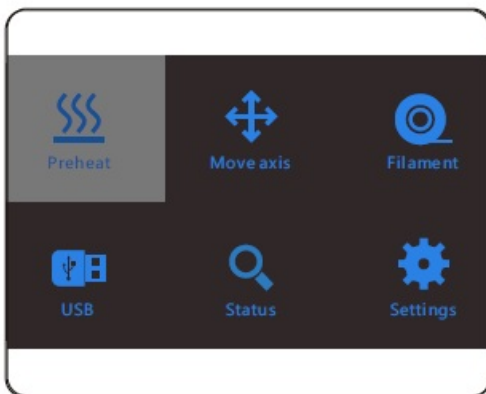
## II. Auto leveling

1: Enter "Setting"->"Auto leveling" ->"Probe". Machine will start to detect 25 points.

Note: Servo Z offset means vertical height between nozzle and detector when probe needle outstretch. It is a fixed value if you don't change hotend or detector.

Contact us for videos. Or Youtube enter keywords CreatBot F430 leveling bed

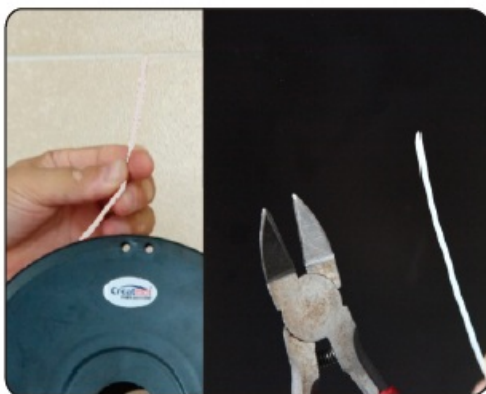
## Load Filament



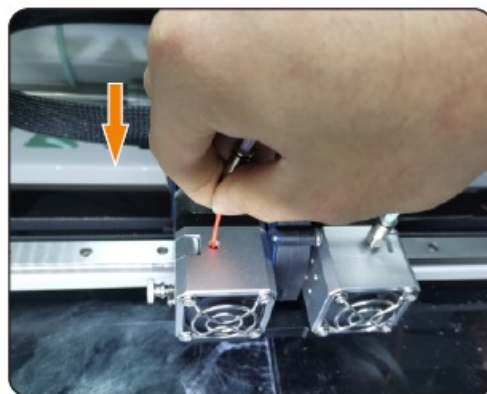
Preheat head



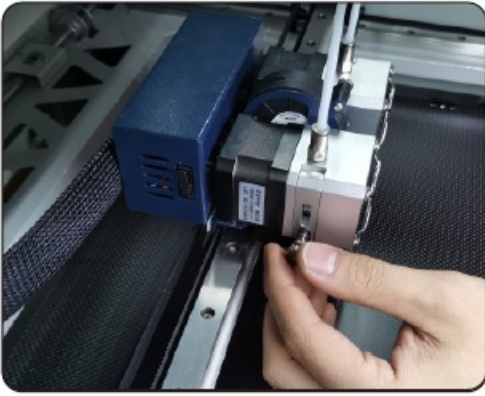
Load filament



Sharpen and straighten filament head



Get filament through

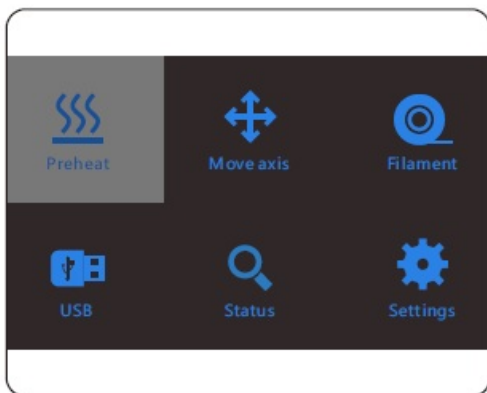


Tighten pressure nut

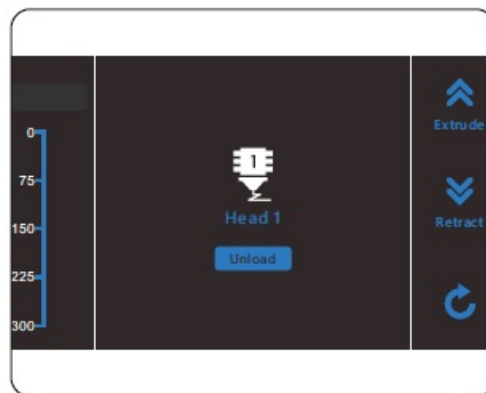
1. Preheat nozzle first.
2. Twist the printed parts, and load filament roll. Get filament through guide tube until extruder. Sharpen and straighten filament head, and check filament if they wind themselves.
3. Loosen pressure nut (no need to remove), put filament into extruder hold and press filament to nozzle, until filament is extruded well.  
(Using skills see page 34)
4. Tighten pressure nut. (twist pressure nut 8~12 times after nut touch spring. Neither too loose, nor too tight)

**Notice:** Pressed filament too tight or too loose will affect normal wire feeding.

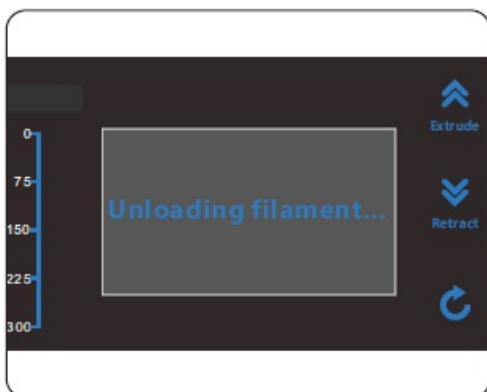
#### Unload Filament



Unload filament menu



Preheat head



Unloading filament



Pull out filament

1. Enter "Filament" menu -> "Unload filament", and select the head you want unload.

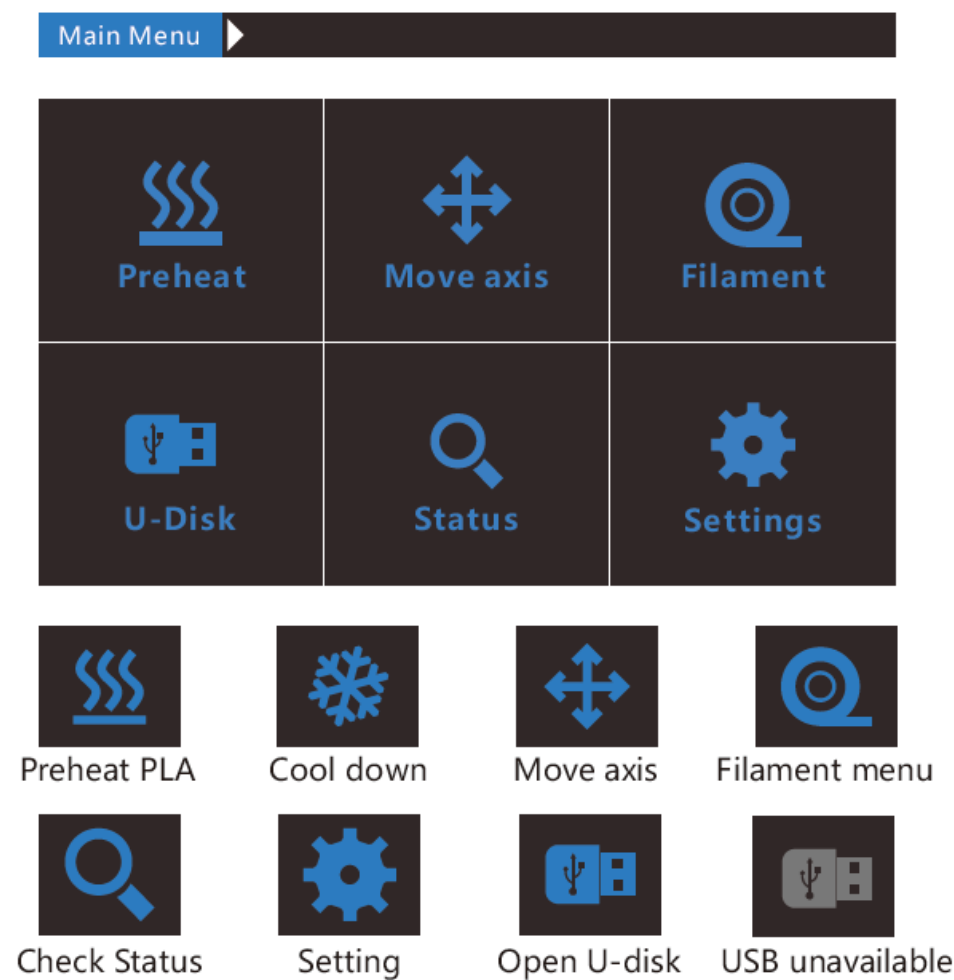


- 2. Wait for the nozzle heated to a suitable temperature.
- 3. After reching temperature, feeder will send a certain number of filament, and then automatically withdraw filament.
- 4. To manually unload filament, same as above mentioned.

**Warning:** It is strictly prohibited without heating nozzle.

**Tip:** If filament stuck in the guide tube, continue printing several lengths and retry.

**Printer Operation**



**Printer Operation**

210C



200C

210C



200C

45C



40C

70C



30C



Print speed: 100%

X: 0.00mm


Fan speed : 100%

Y: 0.00mm

Flow : 100%

Z: 0.00mm





210°C

200°C


Touch and set up the temp of the nozzle.

210°C

Target temp.1

200°C

Current Temp.1



45°C

40°C

Touch and set up the temp of the hotbed

45°C

Tar.hotbed.temp

40°C

Cur.hotbed.temp

Print speed: 100%

Fan speed : 100%

Flow : 100%

Printing speed

Fan speed


Flow

X:00.00


Y:00.00

Z:00.00

X,Y,Z current position of hotend.

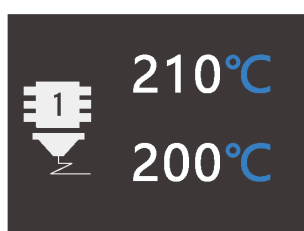


Use information



Back

Detail page



Touch and set up the temp of the nozzle.

**210°C** Target temp.1

**200°C** Current Temp.1



Touch and set up the temp of the hotbed.

**45°C** Tar.hotbed.temp

**40°C** Cur.hotbed.temp



Current printing progress

**Print speed:100%**  
**Fan speed:100%**

Printing speed

Fan speed

**Flow:100%**  
**Z: 0.00mm**

Flow

Current Z position



Use  
information

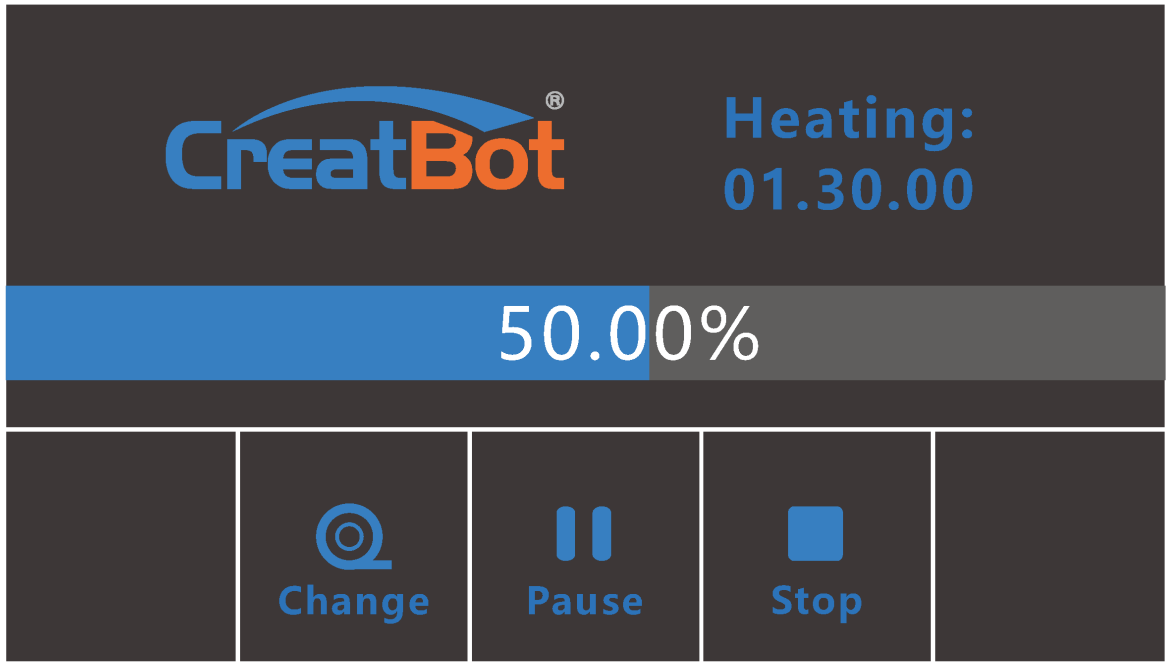


Setting



Back





The display will get darken when no operation in ten seconds and can be waken by clicking anywhere on the screen.

When the display shows the default print page, click anywhere except the buttons to turn back to the print details page.

Axis operation



X Home			
Y Home			
Z Home			
All Home			

1mm

Minimum units

X Home

Move X to home

±X/Y

Move X/Y axis

Y Home

Move Y to home

-Z

Z up

Z Home

Move Z to home

+Z

Z down

All Home

All axis to home

X:00.00

Y:00.00

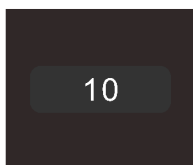
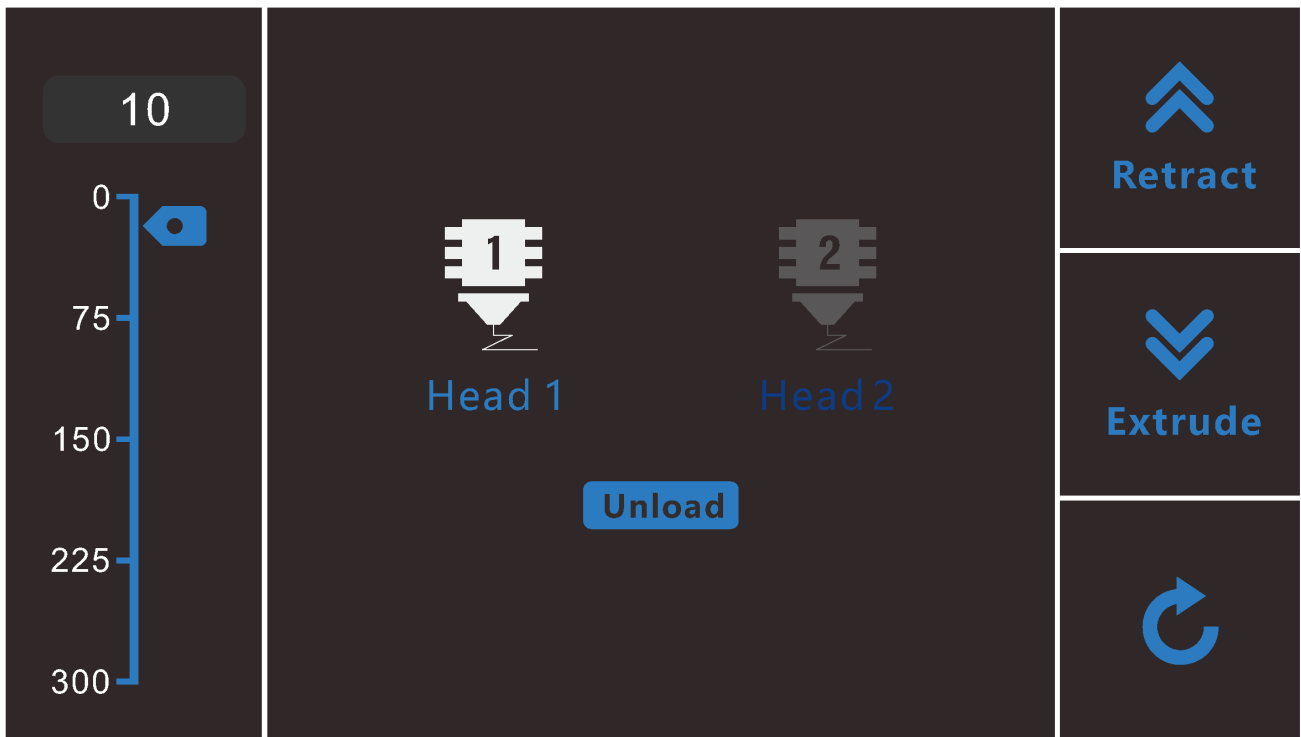
Z:00.00

X,Y,Z current  
position of  
hotend.

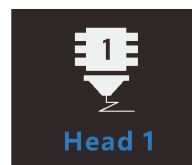


Back

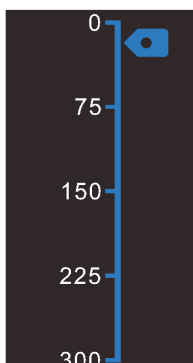
## Filament menu



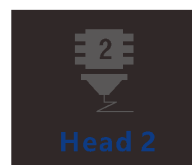
Click and enter  
a value



#1 extruder



Adjust value when  
extrude/retract  
filament



#2 extruder  
(unavailable)



Retract filament



Retract  
filament



Extrude  
filament



Back

When you want to remove the filament, you need first to heat the extruder.



file1.gcode  
file2.gcode

Click and choose a  
file to print



Last page






Next page



Superior menu



Back

Motor		 Reset
X step:	106.6666	Z step: 640.0000
Y step:	106.6666	E step: 130.0000
Preheat		 Save
Extruder temp.:	210°C	Fan speed : 0 %
Bed temp.:	45°C	More▼
		

Fan speed	
Sink fan speed :	
Filter fan speed :	

X step: 106.6666      Z step: 640.0000  
Y step: 106.6666      E step: 130.0000

X/Y/Z and extruder motor setting (range: 5-9999)

Extruder temp. 210°C      Fan speed : 0 %  
Bed temp. 45°C

Preheat setting.  
Hotend (range 0~400)  
Fan speed (range 0-100)  
Bed temp. (range 0-120).

Sink fan speed : 100 %  
Filter fan speed : 100 %

Sink fan speed (range 0-100)  
Filter fan speed (range 0-100)



Reset



Save



Back



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[sales@creatbot.com](mailto:sales@creatbot.com)

**Time used**

0000:00:00

**Firmware**

5.2.160810



V 4.3.2

**Time used**

0000:00:00

Print time used

V4.3.2 Screen version

**Firmware**

5.3

Firmware version



Back

**Software Operation****CreatWare Setup**

Download CreatWare installation package from the CD-ROM or [www.CreatBot.com](http://www.CreatBot.com), follow the prompts to install the software, try using the default installation path as well.



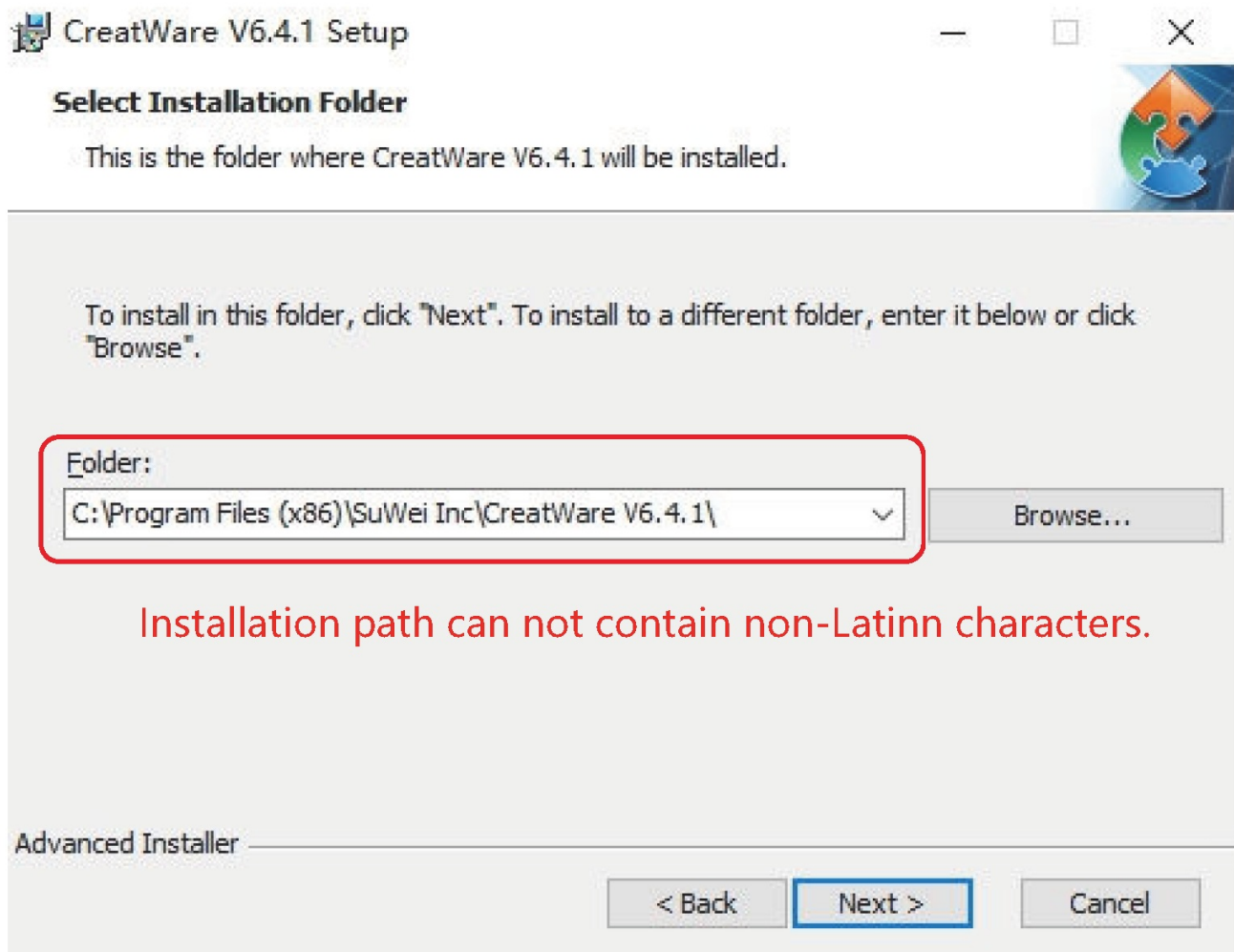
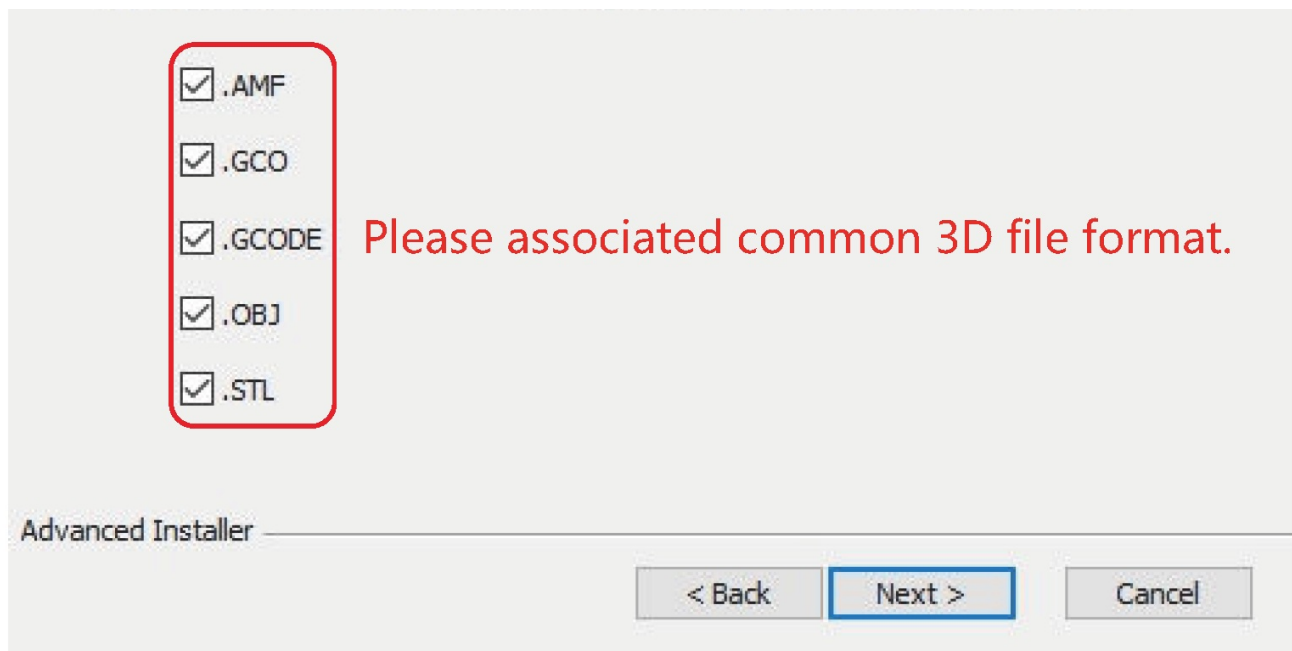
CreatWare V6.4.1 Setup

**Select File Associations**

Select the extensions you want associated with CreatWare V6.4.1



Please select the file types you want to automatically open with CreatWare V6.4.1:

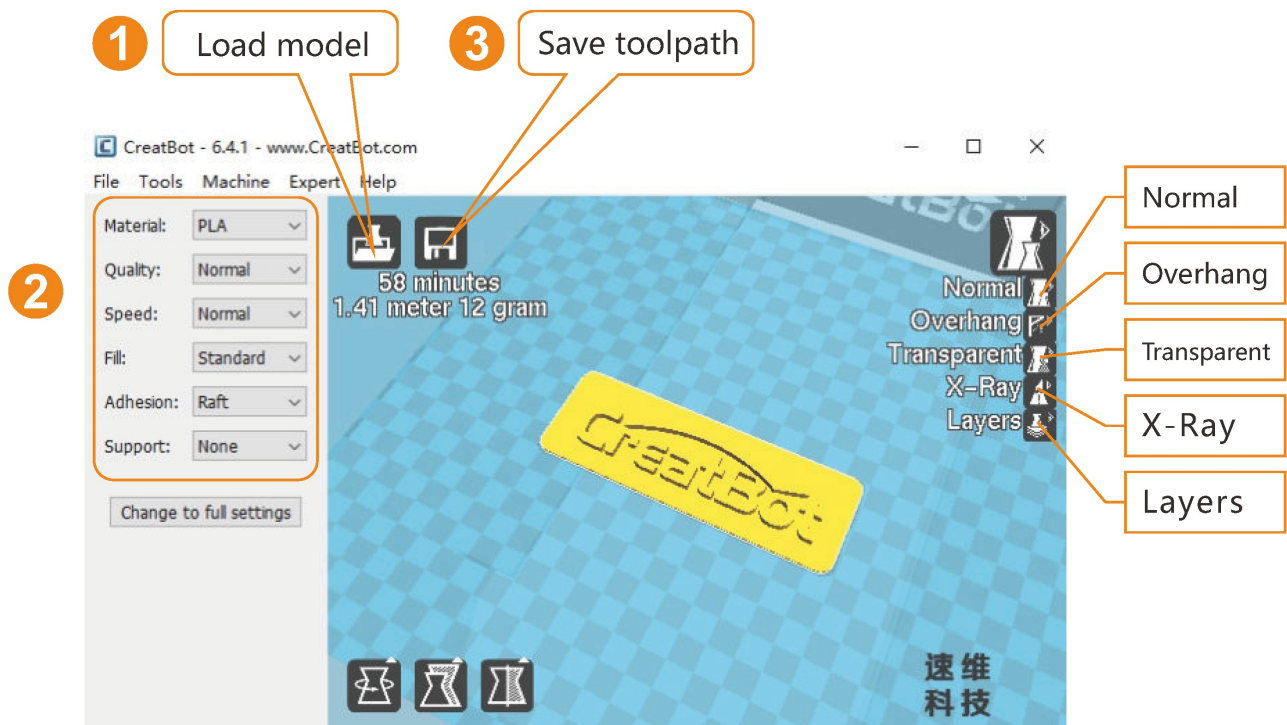


Please associated common 3D file format.

When there is a driver digital signature, please choose to agree. When finished the driver folder will locate at installation directory.

The software will select the correct language according to your OS, please select the right machine type and number of nozzles and ignore the other option and guide.

## Quick Print UI



*When insert SD card, the toolpath will saved to the SD card.*

*The file name can not contain non-Latin characters.*

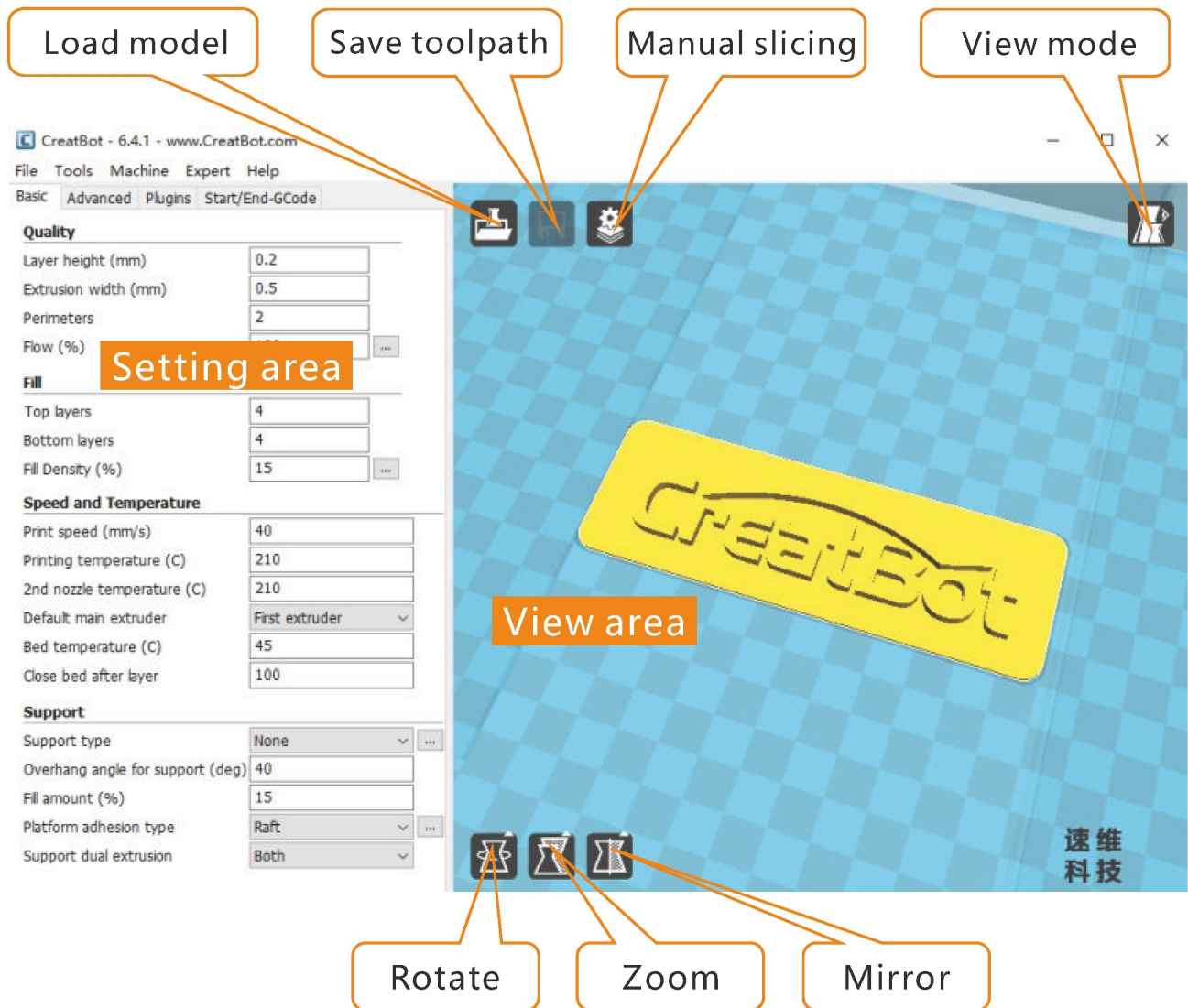
## Print Your First Model

Insert U-Disk to the card reader, open the CreatWare, load 3D model file[1], choose correct filament and option [2], finally click save button[3], you can now finish slice model.

Insert U-Disk to the printer, browse and select the Gcode file you just saved, the printer will automatically start to heating, when the temperature reaches, the printing will start.

## Full Setting UI





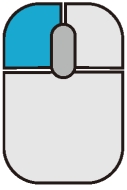
As you can see from the complete UI, the left side of the software is setting area, the right side is view area. The setting area contain "Basic", "Advanced", "Plugins", "Start/End GCode" four tabs. The Basic tab is the most common settings, usually the most frequently used parameters are here. Each parameter has a mouse-over tips, you can set parameters according the prompt. If you want to restore the default settings, please click on the menu "Tools"->"Restore Default".

Tip: Double-click view area can quickly load 3D model file.

The view mode and edit icon will appear when you select the 3D mode

## Mouse Operation

# Mouse Operation



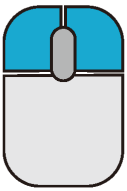
## Left click

Select model, hold and move to change position, double-click to load 3D models.



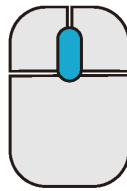
## Right click

Hold and move to rotate the viewpoint around the 3D model.



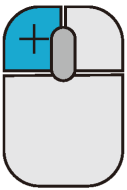
## Left + Right

Hold and move the mouse to zoom.



## Scrollwheel

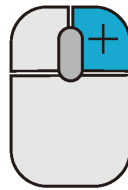
Use the scroll wheel to zoom in or out.



Shift

## Left + Shift

Click and drag in rotary model can according to each 1 degree angle.



Shift

## Right + Shift

Hold and move the mouse to pan the 3D view.

# Keyboard Shortcut

**Ctrl+L** Load model/Picture

**Ctrl+S** Save model as

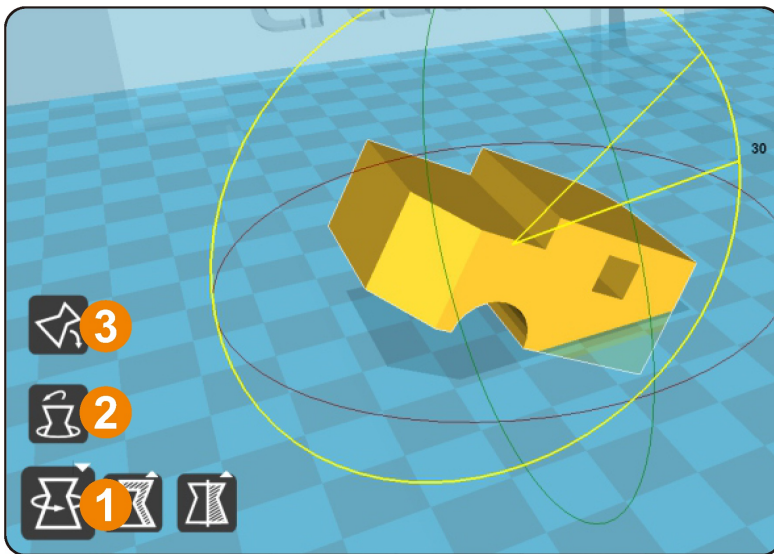
**Delete** Remove model

**F5** Refresh view area

**Ctrl+E** Export setting

**Ctrl+,** Preferences

# Model Rotate



Click on the left corner of the rotate button [1], you can see three ring line around the model, respectively along the X, Y, Z direction. The default rotation angle is 5 degrees, press the Shift key can restrict the rotation angle to 1 degree.

Button [2] to is the reset button, can restore rotate status to the default state.

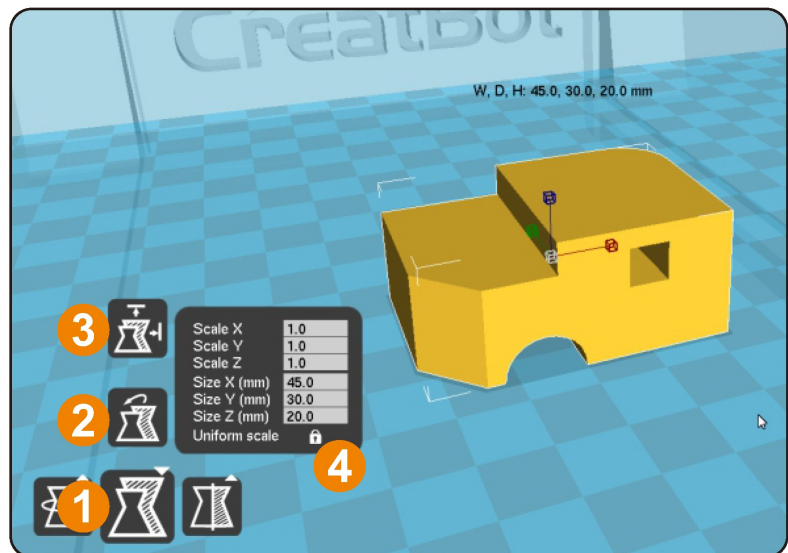
Button [3] is lay flat button, can lay the model flat on the platform automatically.

# Model Scale

Click the left corner of the zoom button [1], you can see a contour line around the model, and shows the current size of the model. You can input the value of the zoom ratio in Scale X / Y / Z , may also directly enter the size you need. Button [4] indicates locking scaling.

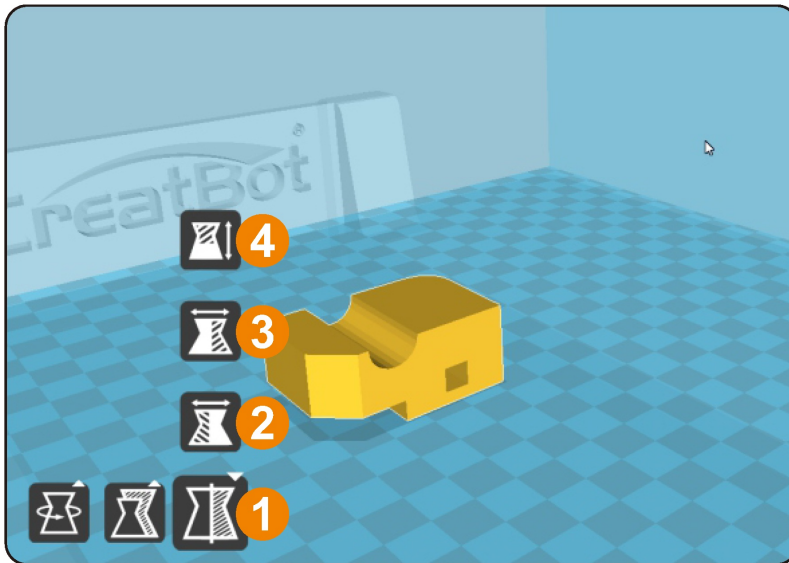
Button [2] is zoom reset button, you can restored the model to the default size.

Button [3] for the zoom model size to the maximum print size.



## Model Mirror

# Model Mirror



Click the mirror button [1], you can pop up the mirror menu.

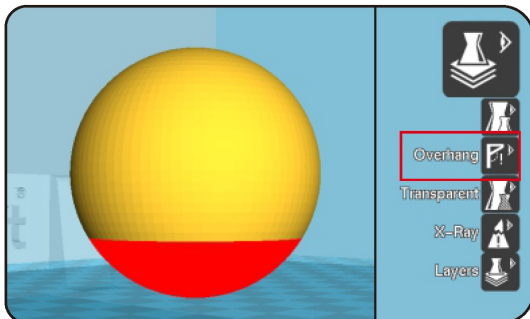
Button [2] is a mirror along the X axis.

Button [3] is a mirror along the Y axis.

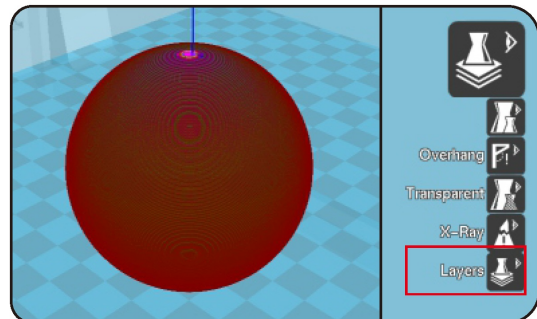
Button [4] is a mirror along the Z axis.

Note that the mirror transformation is different from the rotation, such as the mirror transformation will lead to a change in the direction of rotation, and the rotation will not change the model.

## View Mode



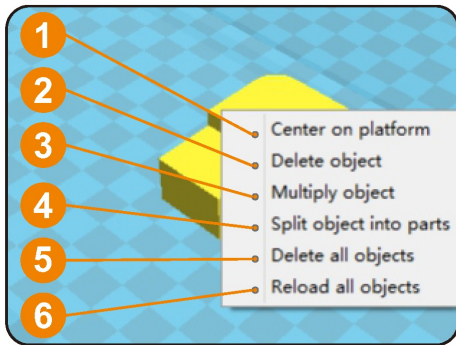
From the overhang view, you can see the suspended part of the model which is shown in red color. By changing the supporting angle can be seen suspended parts size is dynamically changing.



By slice view can easily observe the generated path, you can easily observe the different layers of sliced by slicing altitude indicator, use Ctrl + arrow keys can also be observed layer-by-layer.

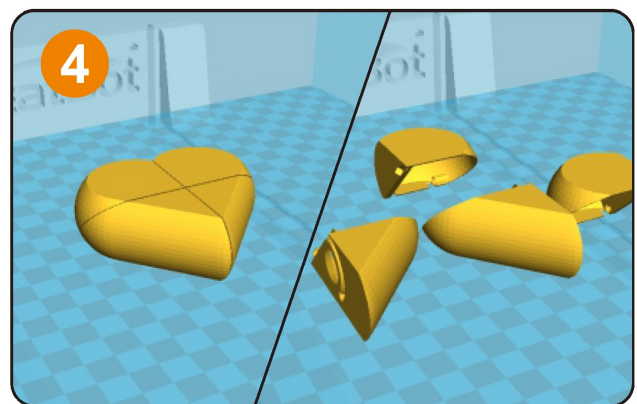
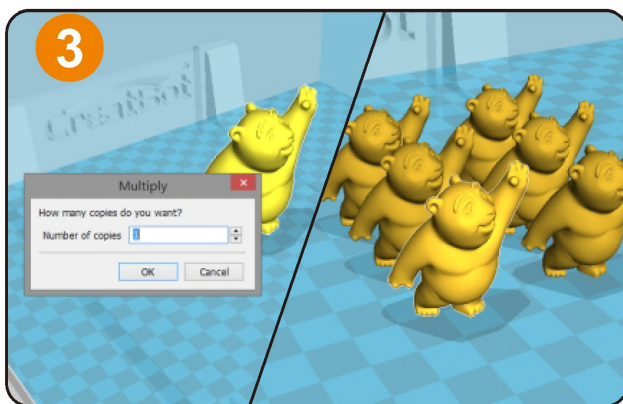
**Right Click on Model**



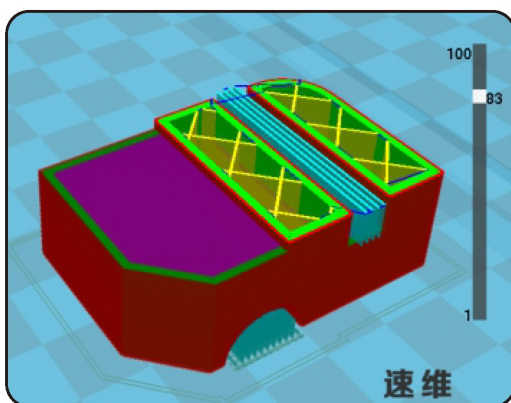


Right-click on the model pop-up shortcut menu, here are more features:

[1] "Centered" make the model back to the center position of the platform. [2] "Delete" to remove the currently selected model. [3] "Multiply" to copy the currently selected model and automatically position, which is useful for printing more than one model at a time. [4] "Split" multi-component model can be split into its separate components, this process more time-consuming, try to split the model in the modeling software, models splitted can be printed individually and then assembled together. [5] "Delete All" to delete all the models loaded. [6] "Reload all" Reload all models, same as F5.




## Toolpath Structure



- |   |   |
|---|---|
| <span style="display: inline-block; width: 15px; height: 15px; background-color: red; margin-right: 5px;"></span> Red represents "outer shell"                | <span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; margin-right: 5px;"></span> Yellow represents "infill"   |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> Green represents "inner shell"            | <span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; margin-right: 5px;"></span> Blue represents "support" |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: purple; margin-right: 5px;"></span> Purple represents "bottom and top shell" |   |

Drag layer indicator can browse different level paths, Ctrl + arrow keys to browse layer by layer. 3D printing is the superposition of these different layers and built layer by layer.

### Basic Setting


CreatBot - 6.4.6 - [www.CreatBot.com](http://www.CreatBot.com)

FileToolsMachineExpertPurchase

BasicAdvancedPluginsStart/End-GCode

### Quality

Layer height (mm)	0.2
Extrusion width (mm)	0.4
Perimeters	2
Flow (%)	100

### Fill

Top layers	4
Bottom layers	4
Fill Density (%)	15

### Speed and Temperature

Print speed (mm/s)	50
Printing temperature (C)	210
2nd nozzle temperature (C)	210
Default main extruder	First extruder
Bed temperature (C)	0
Close bed after layer	100

### Support

Support type	None
Overhang angle for support (deg)	30
Fill amount (%)	15
Platform adhesion type	None
Support dual extrusion	Both

Layer height: This is the most important setting to determent the quality of your print, maximum value not exceed 80% of the nozzle diameter.

Shell thickness: Refers to the total thickness of the inner and outer walls, the outer wall is only one, the inner wall

can be more, set this value to an integer multiple of the diameter of the nozzle.

Flow: Refer to the amount of printing material, 100% standard dosage, the more material the model prints more plump.

top/bottom thickness: Is the thickness of the upper and lower models, usually a multiple of layer height.

Fill density: Control how density filled the insides of your print will be, a value around 20% is usually enough, 0% for hollow.

Print speed: Speed at which printing happens. Print speed is affected by many factors, it is recommended to use low speed for complex model, high speed will cause the feed shortage, need improve nozzle temperature to compensate.

Nozzle temperature: Is the melting temperature of filament, general use 200 °C for PLA and 240 °C for ABS.

Bed Temperature: General use 45 °C for PLA and 70 °C for ABS.

Default main head: The default is the first nozzle, can also be set to other nozzles, this can reduce the times of changing filament.

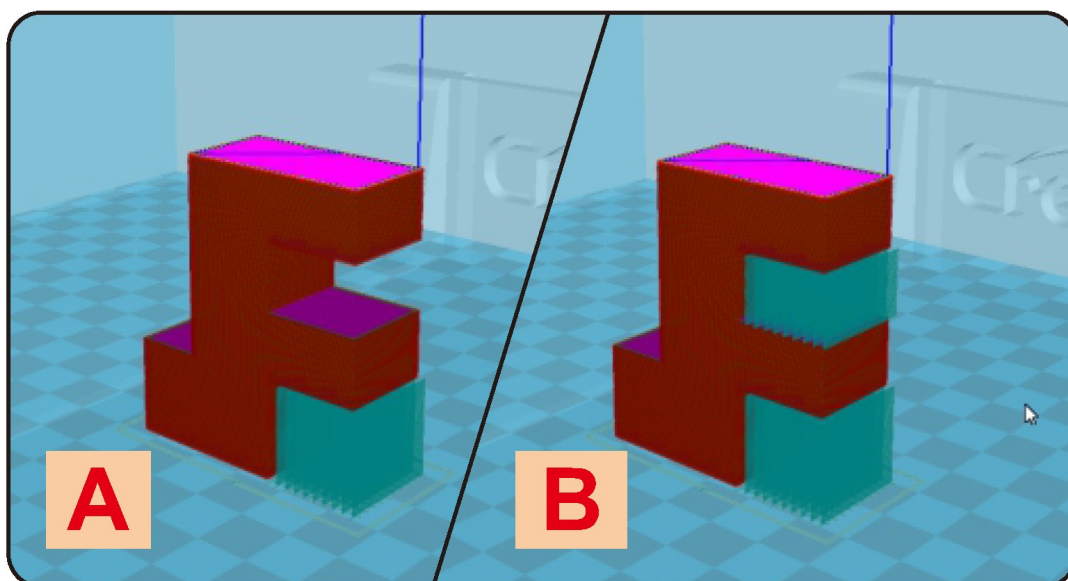
Support type: The touching build plate support type is shown in figure [A], everywhere support is shown in figure [B].

Support angle: The larger the angle, the more support generate.


Fill amount: The larger the fill, the more support generate.

Platform adhesion type: The model which is not easy adhesion on the platform please use Brim, which easy to warped or ABS filament please use Raft.

### Support Type





 CreatBot - 6.4.6 - [www.CreatBot.com](http://www.CreatBot.com)

File Tools Machine Expert Purcha

Basic **Advanced** Plugins Start/End-GCod

**Infill**

Solid infill top	<input checked="" type="checkbox"/>
Solid infill bottom	<input checked="" type="checkbox"/>

**Retraction**

Enable retraction	<input checked="" type="checkbox"/>
Speed (mm/s)	30
Distance (mm)	1.2

**Quality**

Initial layer thickness (mm)	0.2
Initial layer Flow (%)	100
Cut off object bottom (mm)	0

**Speed and Temperature**

Travel speed (mm/s)	70
Bottom layer speed (mm/s)	25
Solid layer speed (%)	80
Outer shell speed (%)	80
Inner shell speed (%)	90
Infill speed (%)	100

Solid fill top: Refers to whether to print the top surface of the model, uncheck will print it with infill method.

Solid fill bottom: Same as above, and so on.

Spiralis print: Refers to the method of spiral printing the outer wall of the model (single layer), and this feature is very suitable for print glass vase model.



Enable retraction: When the nozzle is moving over a nonprinted area, withdraw a certain length length filament to prevent overflow.

Retract speed: The speed of retraction, too fast can lead motor out of step, too slow increase printing time.

Retract distance: The length of the filament when enable retraction.

First layer thickness: Height of the first layer of printing, generally greater than 0.15mm.

First layer flow: When the set of the first layer is too high, it can be appropriate to increase the extrusion.

Cut off object bottom: This can be used for objects that do not have a flat bottom.

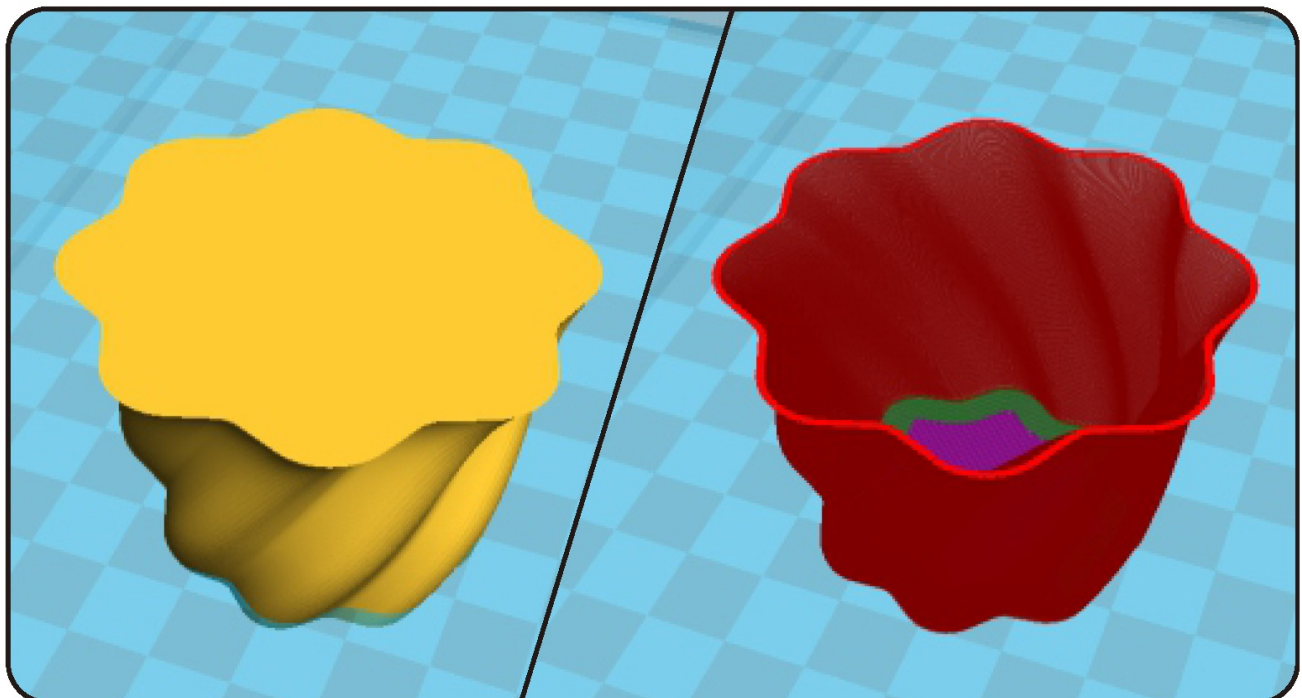
Continue print: Being “power outages continued” be substituted.

Travel speed: The speed when moving over a non-printed area.

First layer speed: Slightly slow speed can enhance adhesion model on the platform.

Solid layer speed: The speed is a percentage here, which reference to the global print speed, a combination of different speeds, you can both get a good print quality and a faster print time.

### **Spiralise Printing**



### **Export Setting**

Nozzle size: Set the nozzle size.

Diameter: Accurate measurement of your filament gives better quality prints.

Minimum travel: The minimum distance which can trigger filament retract.

Minimum extrusion: The minimal amount of extrusion that needs to be done before retracting.

Enable combing: Combing is the act of avoiding holes in the print for the head to travel over.

Wipe tower: Is a small tower next to your print where the nozzle wipes itself clean when switching nozzles.

Dual extrusion switch amount: Amount of retraction when switching nozzle with dual extrusion, a value of 15mm seems to generate good results.

Cooling fan: The extra cooling fan is essential while printing small model, but when print ABS material, the max fan speed should not more than 50%.

Skirt: The skirt is a line drawn around the model at the first layer. This helps to prime your extruder, and to see if the model fits on your platform.

Brim: The amount of lines used for a brim, more lines means a larger brim which sticks better.

**Nozzle**

Nozzle size (mm)	0.4
------------------	-----

**Filament**

Diameter (mm)	1.75
---------------	------

Diameter2 (mm)	1.75
----------------	------

**Retraction**

Minimum travel (mm)	2
---------------------	---

Minimal extrusion before retracting (mm)	0.06
--	------

Z hop when retracting (mm)	0
----------------------------	---

Enable combing	All
----------------	-----

**Dual extrusion**

Wipe&prime tower	<input type="checkbox"/>
------------------	--------------------------

Tower volume per layer (mm3)	15
------------------------------	----

Ooze shield	<input type="checkbox"/>
-------------	--------------------------

Dual extrusion overlap (mm)	0.1
-----------------------------	-----

Dual extrusion switch amount (mm)	15
-----------------------------------	----

**Infill**

Infill overlap (%)	10
--------------------	----

Infill prints after perimeters	<input checked="" type="checkbox"/>
--------------------------------	-------------------------------------

Infill Flow (%)	110
-----------------	-----

**Black Magic**

Spiralize the outer contour	<input type="checkbox"/>
-----------------------------	--------------------------

Only follow mesh surface	<input type="checkbox"/>
--------------------------	--------------------------

**Skirt**

Line count	1
------------	---

Start distance (mm)	3
---------------------	---

Minimal length (mm)	260
---------------------	-----

**Cool**

Enable cooling fan	<input checked="" type="checkbox"/>
--------------------	-------------------------------------

Minimal layer time (sec)	5
--------------------------	---

Fan full on at height (mm)	1
----------------------------	---

Fan speed min (%)	70
-------------------	----

Fan speed max (%)	100
-------------------	-----

Minimum speed (mm/s)	10
----------------------	----

Cool head lift	<input type="checkbox"/>
----------------	--------------------------

**Support**

Structure type	Lines
----------------	-------

Distance X/Y (mm)	1
-------------------	---

Distance Z (mm)	0.1
-----------------	-----

Support Flow (%)	120
------------------	-----

**Brim**

Brim line amount	5
------------------	---

**Raft**

Extra margin (mm)	5
-------------------	---

Line spacing (mm)	3.0
-------------------	-----

Base thickness (mm)	0.3
---------------------	-----

Thickness (mm)	0.25
----------------	------

Airgap (mm)	0.2
-------------	-----

Layers	3
--------	---

**Fix horrible**

Combine everything (Type-A)	<input checked="" type="checkbox"/>
-----------------------------	-------------------------------------

Combine everything (Type-B)	<input type="checkbox"/>
-----------------------------	--------------------------

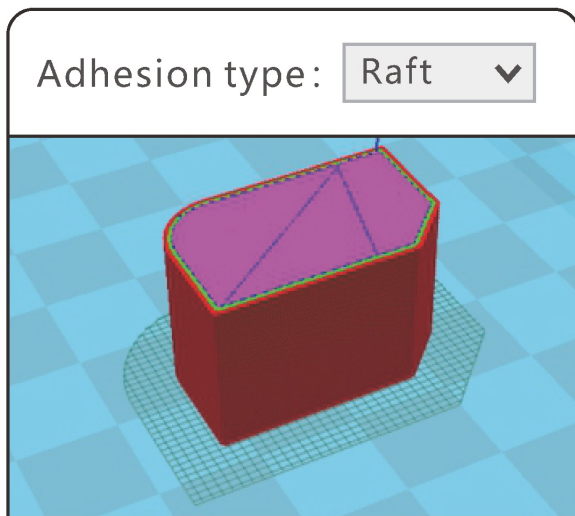
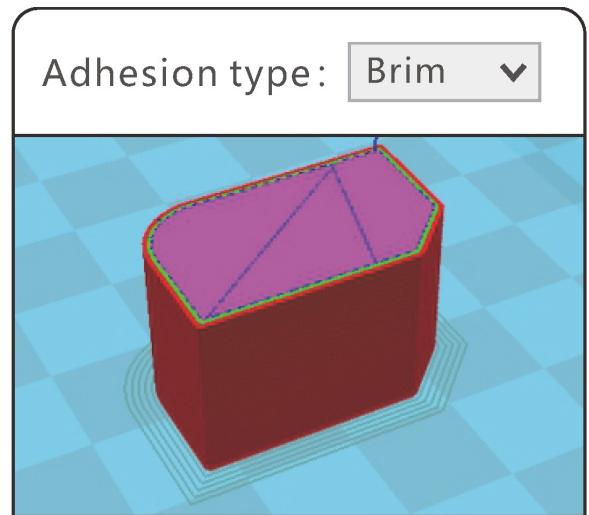
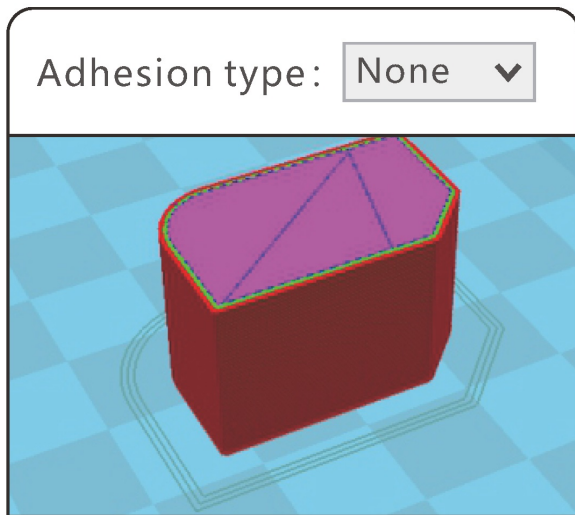
Keep open faces	<input type="checkbox"/>
-----------------	--------------------------

Extensive stitching	<input type="checkbox"/>
---------------------	--------------------------

Ok
----

Notice: Most of the setting have been optimized, If you want restore default configuration, use the menu "Tools" -> "Reset profile to default".

Skirt · Brim · Raft

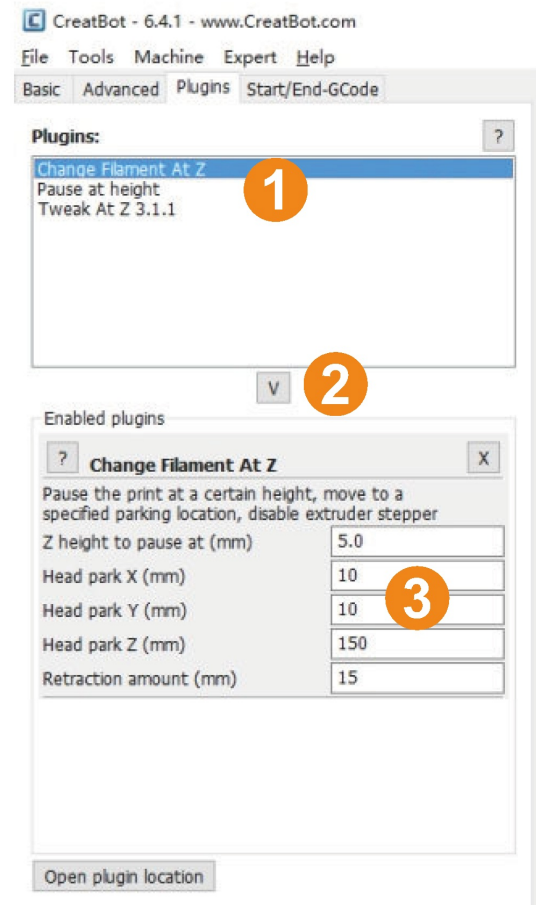


## Plugins

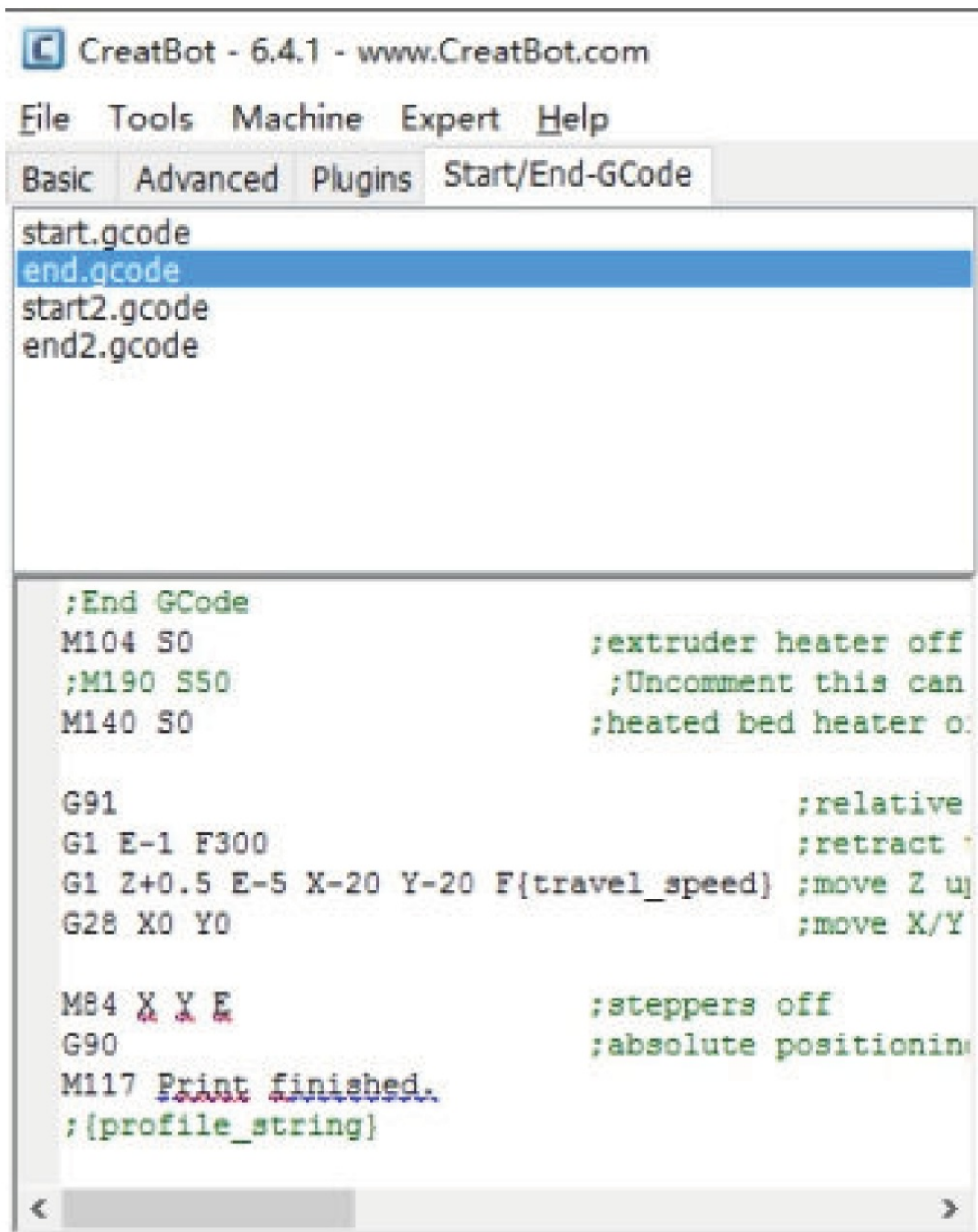
Plugin enable you to easily include your own features, without having to modify the source code or Gcode. In the screen shot above, these can be enabled by clicking on the arrow down button, then you can configure the plugin.



*Notice: Please remove the plugin before you close the software.*

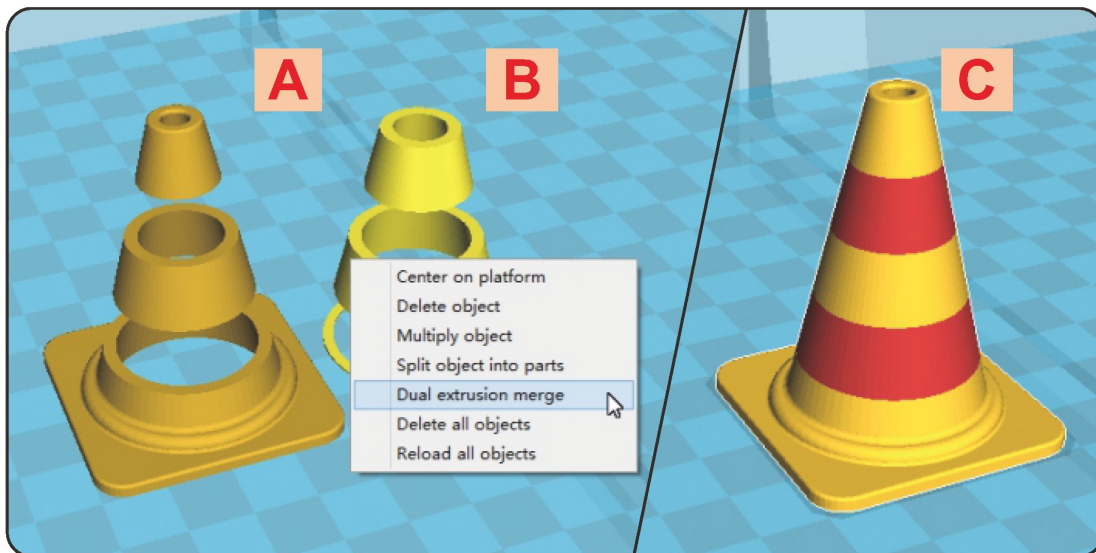


The start and end gcode are the startup and end procedure of the print, editing this requires knowledge of GCode. If you want to set the automatic heating station after printing, you can remove the “;” in the code “;M190 S50”. start.gcode is the start code of single extruder, start2.gcode is the start code of double extruder, and so on.



## Dual Head Printing





Step 1: Load 2 models you want as shown in figure [A] and [B].

Step 2: First click [A], then right click on [B], you will get the option: dual extrusion merge, this will merge both models into one model [C].

Step 3: Set parameters like ordinary single color model and save the GCode.

Tip: The model select first will print by main extruder, the right clicked one by second extruder.

## Align Dual Head Horizontal

Machine settings ×

CreatBot\_F430

**Printer settings**

E-Steps per 1mm filament	<input type="text" value="0"/>
Maximum width (mm)	<input type="text" value="400"/>
Maximum depth (mm)	<input type="text" value="300"/>
Maximum height (mm)	<input type="text" value="300"/>
Extruder count	<input type="text" value="2"/>
Heated bed	<input checked="" type="checkbox"/>
Machine center 0,0	<input type="checkbox"/>
Build area shape	<input type="text" value="Square"/>

**Extruder 2**

Offset X	<input type="text" value="73"/>
Offset Y	<input type="text" value="0.0"/>

**Printer head size**

Head size towards X min (mm)	<input type="text" value="75.0"/>
Head size towards Y min (mm)	<input type="text" value="18.0"/>
Head size towards X max (mm)	<input type="text" value="18.0"/>
Head size towards Y max (mm)	<input type="text" value="35.0"/>
Printer gantry height (mm)	<input type="text" value="60.0"/>

**Communication settings**

Serial port	<input type="text" value="AUTO"/>
Baudrate	<input type="text" value="AUTO"/>

Ok

Add new machine

Remove machine

Change machine name

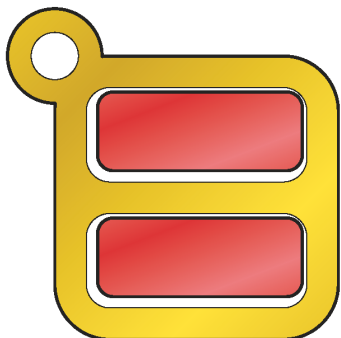
There are alignment problem while printing dual color model, this is because the small difference in multi-nozzle assembly, CreatWare built fine-tuning features.

Click menu "Machine">"Machine settings", default X offset is: 20.0, default Y offset is: 0.0, adjustment method as shown below:

### Extruder 2

Offset X:

Offset Y:



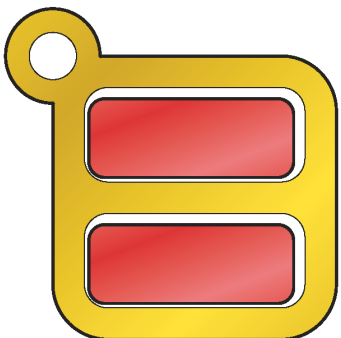
■ Extr. 1

■ Extr. 2

### Extruder 2

Offset X:

Offset Y:

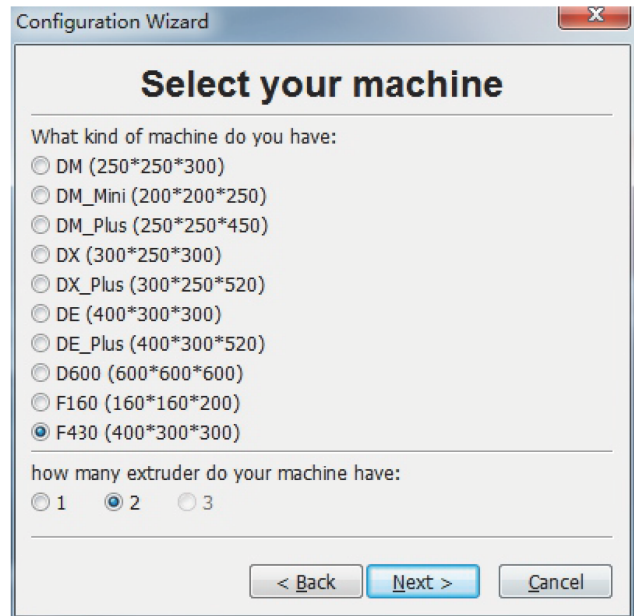
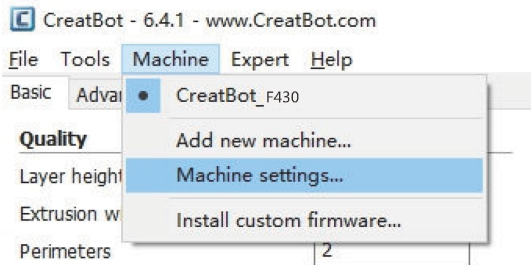


■ Extr. 1

■ Extr. 2

**Add Multi Type Printer**

You can add more than one type of CreatBot to the software, and easily switch between them without re-config all the different machine settings.



## Print Setting Of Different Filament

	Nozzle temperature	Hot bed	Platform adhesion type	Fully enclose or not
PLA	190~210°C	None/45°C	None/Raft	Can open
ABS	240~250°C	90°C	Brim/Raft	Enclosed
Nylon	240~270°C	100°C	Brim/Raft	Enclosed
HIPS	230~260°C	100°C	None/Brim	Enclosed
PETG	230~260°C	100°C	None/Brim	Enclosed
Flexible	210~230°C	None/45°C	None	Can open
Wood	190~220°C	None/45°C	None	Can open
PC	230~260°C	100°C	Brim	Enclosed
PEEK	380~430°C	Bed 120°C/Air 70°C	Raft	Enclosed

\* The data is only for reference, different environmental data will be different. F160 and F430 can print PEEK.

## Using skills

### Change Fuse



## Change Fuse

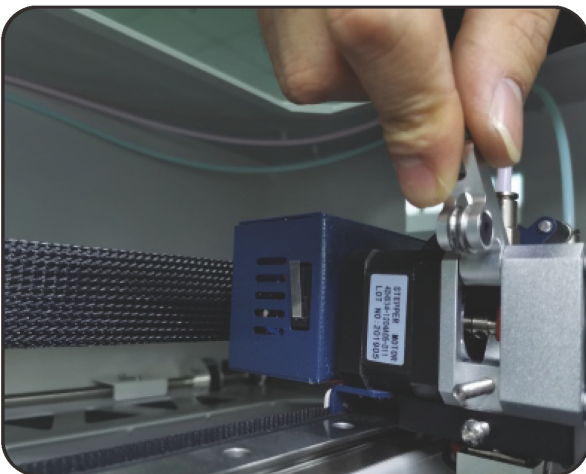
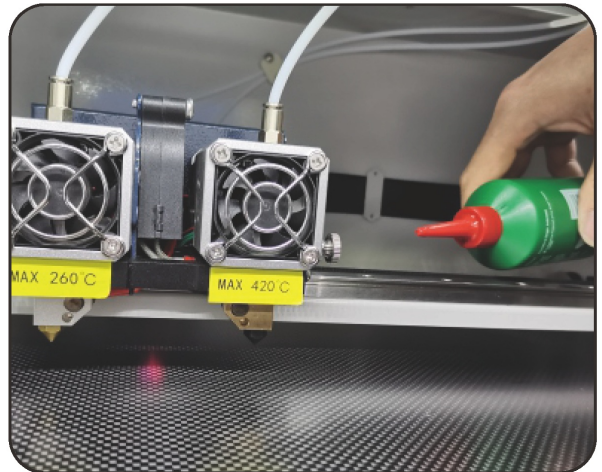


Open fuse tray



Change new fuse

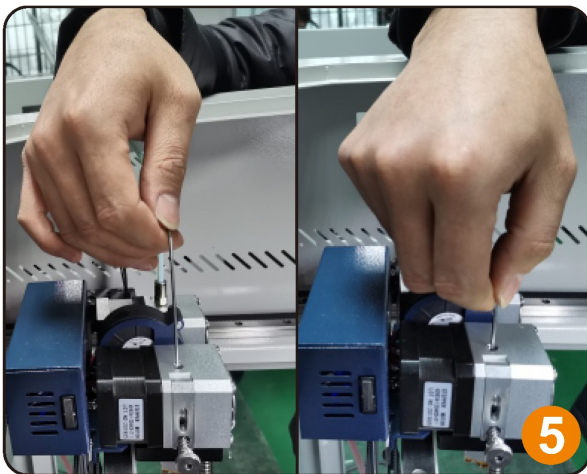
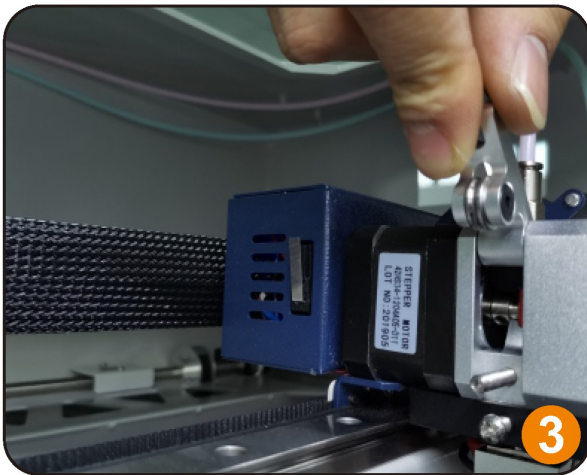
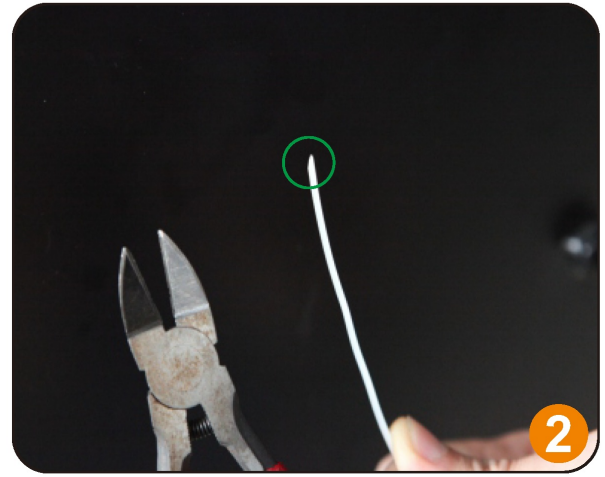
## Routine Maintenance



1. Frequent cleaning stains on the rail.
2. Lubricate the four guide rail.
3. Frequent cleaning feeder gear.



*Notice: Don't add too much lubricating oil.*



1. Better to use printed spool holders. According to curl direction of filament, Get filament through guide tube can prevent winding filament.
2. After preheating nozzle, Sharpen and straighten filament head is necessary. This will get filament through extruder easily.
3. If you can't send filament through nozzle well, remove pressure nut and pressure spring first. Then open pressure arm and clear filament scrap. Sight guide hole and send filament well.
4. Tighten pressure nut. (twist pressure nut 8~12 times after nut touch spring. Neither too loose, nor too tight)
5. Extrude filament for a while and pull out quickly when you change filament. Otherwise, filament may block inside heatbreak. Or choose "Change Filament" on touch screen.

Use the small stick to poke filament out if there are filament scrap block inside heatbreak or nozzle

## Software

- 1.If your machines are equipped with different diameter nozzle (default 0.4mm). You have to setting: Expert-open expert setting... Nozzle size (same to yours) Basic-Quality-Extrusion width (same to yours)
  - 2.Small objects need lower hotend temperature around 190~200°C.  
Large objects better to use Support-Raft. Easy to stick when start printing.Easy to remove when finish printing.
- 

## Frequently Asked Questions

### Hardware Troubleshoot

#### 1. Display “MINTEMP” ?

The environment is too low, or temperature sensor is damaged, please keep the room temperature above 0 °C .

#### 2. Display “MAXTEMP” ?

Temperature of nozzle or bed too high, or temperature sensor is damaged, please keep their temperature in a suitable range.

#### 3. USB connection problems ?

Please specify the correct port and baud rate (250000), or change a shorter USB cable.

#### 4. Nozzle heats up too slowly ?

Temperature in door is too low, or use a fan duct, or turn up output voltage (24.5v).

#### 5. Print head stuck ?

Clean the guide rail and add lubricating oil.

#### 6. Print head can not move ?

Stepper motor chipset burned, or belt damaged, or belt wheel screw loose.

#### 7. Print head hit the framework ?

Corresponding axis stop limit or circuit fault.

#### 8. Unable to power on ?

Power switch is damaged or fuse is burned, and please check whether the power adapter is working properly or power check board is damaged.

### Printing Troubleshoot

#### 1. How to set the temperature of the nozzle ?

Different filament temperature is different, general as follows:

PLA temperature 190 °C ~210 °C ,bed 45-60 °C

ABS temperature 230 °C ~250 °C ,bed 80-100 °C

You must leave enough time for filament heating, so the faster printing speed need the higher temperature, 60mm/s temperature need raise about 10°C. In the same way, larger thickness need higher temperature.

#### 2. How to set the temperature of the hot bed ?

The main purpose of the hot bed is to prevent model wrapped, PLA need about 45°C and 70°C for ABS is enough,

but due to the environment and filament, we often need to increase the temperature, the highest temperature not over 120°C, and you can close the bed above 100mm except printing ABS or other high-temperature required filaments.

### **3. The model not stick on the platform ?**

Please paste masking paper or Kapton tape on the platform, or the nozzle is too far away from the platform, or the bottom of the model is not leveled.

### **4. No or less silk coming on the first layer ?**

The distance between nozzle and platform is too small, or the filament has not been sent to the nozzle.

### **5. Why nozzle is not spit silk ?**

The filament is not pressed or too tight, or print temperature is too low, or the filament feeder not working.

### **6. How to prevent model become warped ?**

Increase hot bed temperature or use Kapton, or change platform adhesion type to Raft, or cover the baffle, or reduce indoor ventilation.

### **7. How far from nozzle to platform appropriate ?**

Distance should be 0 in theory, but there is no absolutely flat platform, so the distance should  $\pm 0.1$ mm. Finally, with the actual printing effect as the standard, too close will lead to a silk blocked, too far will cause the model not stick on the platform.

### **8. How to determine whether the temperature is too high ?**

PLA temperature is too high will appear liquefaction, ABS will be the carbide, that will block the nozzle.

### **9. What reasons will causing nozzle blocked ?**

Filament are impurities or print environment dust too much, bad of thermal conductivity between the nozzle and the heating block.

### **10. Model surface is loose with crack ?**

The layer is too high or the printing speed too fast, nozzle temperature too low or filament press nut too loose, or filament is blocked.

### **11. How to print a small model ?**

Multiple the model, and print them at a time.

### **12. Dual color model not aligned ?**

Adjust offset of second nozzle in machine settings.

### **13. Dual color model color interference ?**

Align two nozzle in vertical direction





### **14. There is too much silk drag on the model ?**




Please enable filament retraction, and specified proper retract speed, and distance, the retract distance should not less than 2mm, and the speed not less than 30mm/s.

---

## **Specifications**



				
Model	DX	DX Plus	DE	DE Plus
Build volume	300*250*300	300*250*520	400*300*300	400*300*520
Nozzles	Dual/Tris			
Diameter	0.4mm(0.3/0.6/0.8/1.0mm can be customized)			
Temperature	350 °C			
Nozzles Type	print head/new print head			
Hot bed	100 °C (can be closed after certain layers)			
Min. Layer	0.04mm			
Accuracy	X、Y、Z axis 0.01mm			
Print Speed	120mm/s (inner/outer, top/bottom, fill, first layer speed can be set separately)			
Travel Speed	200mm/s			
Materials	ABS,PLA,TPU,PETG,HIPS,PVA, PA,PC,Carbon Fibre,etc			
Fila. Diameter	3.0mm (1.75mm optional)			
Keypad	Yes (nine key)			
Auto Turnoff	Yes (pwr manager + relay)			
Continue Play	Yes (Power outage, lower plate and save data)			
Fila. Check	Yes (pause printing when filament finish, and lower platform)			
Adju. Head	Yes (height-adjustable-nozzles)			
OS	Windows, Linux, Mac OS, OSX			
Languages	Chinese, English multi-language			
Software	CreatWare Muti-language , Simplify3d			
File Format	STL, OBJ, GCode, Amf			
Chipset	Atmega 2560-16AU (AVR 8 Bit 16MHz , 256KB Flash)			
Display	128*64 monochrome multi-language (support color TFT)			
Pwr Supply	110/220V 360W		110/220V 700W	
Dimension	420*380*570	420*380*790	590*430*570	590*430*790
Weight	35 Kg	40Kg	45Kg	55Kg

			
Model	F160	F430	D600
Build volume	160*160*200	400*300*300	600*600*600
Nozzles	Single	Single/Dual	
Diameter	0.4mm(0.3/0.6/0.8/1.0mm can be customized)		
Temperature	400℃		350℃
Nozzles Type	Direct drive		
Hot bed	140℃	Bed 120℃/Air 70℃	100℃
Min. Layer	0.04mm		
Accuracy	X、Y、Z axis 0.01mm		
Print Speed	120mm/s (inner/outer, top/bottom, fill, first layer speed can be set separately)		
Travel Speed	200mm/s		
Materials	ABS,PLA,TPU,PETG,HIPS,PVA, PA,PC,Carbon Fibre,PEEK,etc		
Fila. Diameter	1.75mm		3.0mm
Motion Structures	Optic axis		Rectilinear orbit
Auto Turnoff	Yes (pwr manager + relay)		
Continue Play	Yes (Power outage, lower plate and save data)		
Fila. Check	Yes (pause printing when filament finish, and lower platform)		
Adju. Head	Yes (height-adjustable-nozzles)		
OS	Windows, Linux, Mac OS, OSX		
Languages	Chinese, English multi-language		
Software	CreatWare Muti-language		
File Format	STL, OBJ, GCode, Amf		
Printing Field	Full closed covering		
Display	4.3 inches color touch screen		
Pwr Supply	110/220V 180W	110/220V 1300W	110/220V 1000W
Dimension	280*280*470mm	660*470*560mm	910*840*1100mm
Weight	22Kg	60Kg	170Kg


**Q: What should I do if the nozzle temperature reaches 300 degrees?**

A: Do not touch the nozzle when it reaches 300 degrees to avoid burns or injuries.

**Q: Can the printer work in extreme temperatures?**

A: The recommended working environment is between 5°C to 30°C. Operating outside this range may affect performance.

## Documents / Resources

	<p><b><a href="#">CrEatBot D600 3D Printer</a></b> [pdf] User Manual V7.3 F430, D600 3D Printer, D600, 3D Printer, Printer</p>
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## References

- [🔗 large-scale & High performance 3D printers | CreatBot](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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