CONTENTS

Notice .................................................. 3
Machine Diagram
  Front .............................................. 4
  New Printer Head .............................. 5
Printer Operation
  Leveling Platform ............................ 6
  Paving Crepe Paper ......................... 6
  Load Filament ................................. 7
  Unload Filament ............................ 8
  Main menu ..................................... 9
  Status page ................................... 10
  Detail page .................................... 11
  Printing page .................................. 12
  Axis operation ............................... 13
  Filament menu ................................ 14
  SD Card/U-disk ............................... 15
  Setting menu .................................. 16
  Info. menu ...................................... 16
Software Operation
  CreatWare Setup ............................ 18
  Quick Print UI ................................ 19
  Print Your First Model ................... 19
  Full Setting UI ............................... 20
  Mouse Operation ............................ 21
  Model Rotate/Scale ......................... 21
Model Mirror ................................. 22
View Mode ..................................... 23
Right Click on Model ....................... 24
Toolpath Structure ......................... 24
Basic Setting ................................... 25
Advanced Setting ......................... 26
Expert Setting ............................... 27
Skirt/Brim/Raft ................................ 28
Plugins .......................................... 28
Start/End GCode ............................. 29
Dual Head Printing ......................... 29
Align Dual Head Horizon ................. 30
Align Dual Head Vertical .................. 31
Add Multi Type Printer .................... 31
Using skills
  Installation section ....................... 32
  Software ...................................... 33
  Change filament ............................ 33
Frequently Asked Questions
  Paving Kapton ............................... 34
  Change Fuse .................................. 35
  Adjust Z Limit .............................. 35
  Print PLA and ABS .......................... 35
  Specifications .............................. 36

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.

7/22/ 2017

- 2 -
Notice

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 keep off dust, moisture.
⚠️ Long-term not use of the filament, please be sealed to prevent deterioration.
Machine Diagram

Front

1. USB input
2. Universal Wheel
3. Indicator light
4. U disk input
5. Power switch
6. Touch screen

1. PCB box
2. X limited switch
3. Extruder motor
4. Filament press button
5. Heatbreak
6. Heat block
7. Nozzle
8. Cooling fan
9. Thermistor
10. Heating tube
11. Heat sink
12. Extruder box
13. Connector
14. Feeding tube

Hotend 5+6+7
Machine Diagram

New Printer Head

1. PCB box
2. X limited switch
3. Extruder motor
4. Filament press button
5. Heatbreak
6. Heat block
7. Nozzle
8. Cooling fan
9. Thermistor
10. Heating tube
11. Heat sink
12. Extruder box
13. Connector
14. Feeding tube
5+6+7.Hotend
1. Turn on machine
2. On touch screen, choose “Move axis” -> “All home”, make nozzle close to platform.
3. Move the extruder by hand to 4 corners and focus on the distance between the nozzle and platform. The distance 0.2mm (1 piece of name card distance) is suitable.
4. If not suitable, please rotate knob to make platform up or down a little to correct distance.
5. All the leveling nut should uniform, nozzle can’t too close to the platform.
6. All will be subject to the actual effect of print, please make more little adjust at the beginning of printing.
   (Contact us for guide video or Youtube enter keywords “D600 Leveling bed”)

**Paving Masking Paper**

Platform need paste masking paper or Kapton to achieve best viscosity, and the model will be firmly fixed on the platform.
Kapton is double-sided tape, please tear film on both sides.
Printer Operation

Load Filament

1. Preheat the hotend before loading filament.
2. Straightened filament and check the filament do not self-winding.
3. Load filament and fix it on the filament shelf.
4. Twist off quick fitting, load the filament until filament beyond quick fitting. Insert filament to extruder hole manually and through it until melted and flowing naturally. (Or choose extrude filament on touch screen). Tight quick fitting.
5. Tighten the compression nut, tightness appropriately. Do same like the photo in red area. (Do not overtight, otherwise filament will be cut off.)

⚠️ Notice: Pressed filament too tight or too loose will affect normal wire feeding.
Unload/Change 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 reaching temperature, feeder will send a certain number of filament, and then automatically withdraw filament.
4. To manually unload filament, same as above mentioned.
Printer Operation

Touchscreen

Unpack / Change Filament

Printer Operation

Move axis

Settings

Preheat

Filament

U-disk

Status

Settings

Main Menu

Unload filament menu

Preheat PLA

Cool down

Move axis

Filament menu

Check Status

Setting

Open U-disk

USB unavailable
Printer Operation

Print speed: 100%  Flow: 100%
Fan speed: 100%  Z: 0.00mm

Touch and set up the temp of the nozzle.
Target temp.1
Current Temp.1

Touch and set up the temp of the hotbed.
Tar.hotbed.temp
Cur.hotbed.temp

Current printing progress

Print speed: 100%  Printing speed
Fan speed: 100%  Fan speed
Flow: 100%  Flow
Z: 0.00mm  Current Z position

Use information  Setting  Back
Printer Operation

Status Page

<table>
<thead>
<tr>
<th>Icon</th>
<th>Temp 1</th>
<th>Temp 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="hotbed.png" alt="" /></td>
<td>210°C</td>
<td>210°C</td>
</tr>
<tr>
<td><img src="nozzle.png" alt="" /></td>
<td>200°C</td>
<td>200°C</td>
</tr>
</tbody>
</table>

**Print speed:** 100%
**Fan speed:** 100%
**Flow:** 100%
**X:** 0.00mm
**Y:** 0.00mm
**Z:** 0.00mm

**X:** 0.00mm **Y:** 0.00mm **Z:** 0.00mm

Touch and set up the temp of the hotbed:

- **Target temp.1**
- **Current Temp.1**

Touch and set up the temp of the nozzle:

- **Target temp.1**
- **Current Temp.1**

Use information

Back
Printer Operation

Pause and Change filament.
Pause print
Z up

Continue printing
Cancel print
Z down

Current printing progress: 50.00%
Time printed: 01.30.00
Heating: 01.30.00

Printing page
Printer Operation

Axis operation

<table>
<thead>
<tr>
<th>X Home</th>
<th>+Y</th>
<th>-Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>-X</td>
<td>+X</td>
<td>+Z</td>
</tr>
<tr>
<td>-Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

X:000.00  Y:000.00  Z:000.00

- Minimum units 1mm
- Move X to home
- Move X/Y axis
- Move Y to home
- Z up
- Move Z to home
- Z down
- All axis to home

X,Y,Z current position of hotend.
Click and enter a value

Adjust value when extrude/retract filament

Retract filament

Extrude filament

Retract filament

Back
Printer Operation

SD Card/U-disk

file1.gcode
file2.gcode

Click and choose a file to print

file1.gcode
file2.gcode

Last page
Next page

Superior menu
Back
Printer Operation

Info. page

Time used
Print time used
0000:00:00

Firmware
Firmware version
5.3

Screen version
V4.3

Back

X/Y/Z and extruder motor setting (range: 5-9999)
Preheat setting.
Hotend (range 0~400)
Fan speed (range 0-100)
Bed temp. (range 0-120)
Sink fan speed (range 0-100)
Filter fan speed (range 0-100)

X step:
Y step:
Z step:
E step:

Reset
Save
**Printer Operation**

### Setting Menu

#### Motor

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

#### Preheat

| Extruder temp | 210°C |
| Bed temp     | 45°C  |
| Fan speed    | 0 %   |

#### Fan speed

| Sink fan speed | 100 % |
| Filter fan speed | 100 % |

---

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

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

Sink fan speed (range 0-100)
Filter fan speed (range 0-100)
Software Operation
CreatWare Setup

Download CreatWare installation package from the CD-ROM or www.CreatBot.com, follow the prompts to install the software, try using the default installation path as well.

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.
Software Operation

Quick Print UI

1. Load model
2. 
3. Save toolpath

When insert U-disk, the toolpath will saved to the U-disk.
The file name can not contain non-Latin characters.

Print Your First Model

Insert U-disk to the 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.
Software Operation
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.
Software 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.

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

Right + Shift
Hold and move the mouse to pan the 3D view.

Keyboard Shortcut

Ctrl+L Load model/Picture
Delete Remove model
Ctrl+E Export setting

Ctrl+S Save model as
F5 Refresh view area
Ctrl+, Preferences
Software Operation

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.
Software Operation

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.
Software Operation

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 splited 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

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.
Software Operation

Basic Setting

Layer height: This is the most important setting to determine 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℃ for PLA and 240℃ for ABS.

Bed Temperature: General use 45℃ for PLA and 70℃ 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

A

B
Software Operation

Advanced Setting

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 none-printed 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
Software Operation

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.

---

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

Skirt · Brim · Raft

Adhesion type: None

Adhesion type: Brim

Adhesion type: 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.
Software Operation

Start / End GCode

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.
Software Operation

Align Dual Head Horizontal

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:
Software Operation

Align Dual Head Vertical

**Step 1:** loose the 2 screws with red circle.
**Step 2:** raise or lower hotend with heads after cooling nozzle
**Step 3:** Lower left nozzle step by step same with right nozzle.
(Note: every time you raise or lower nozzle, you need to adjust the offset value in autoleveling menu)

💡 Tip: You can rising right nozzle as long time not use.

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
Frequently Asked Questions

Paving Kapton

1. Clean the platform first.
2. Kapton is a double-sides adhesive.
3. Paste the first side on platform.
4. Then another side.
5. Pierce the bubble.

Tip: Kapton temperature resistance up to 120 ℃, the film can be reused until not sticky so far.
Frequently Asked Questions

Change Fuse

Note: Please use the 10A fuse.

Open fuse tray

Change new fuse

Adjust Z Limit

If the nozzle can’t touch the platform even loosen all the leveling nut, you can move Z stop limit a little up, as you can see from figure.

Print PLA and ABS

<table>
<thead>
<tr>
<th></th>
<th>Nozzle</th>
<th>Bed</th>
<th>Close bed</th>
<th>Adhesion</th>
<th>Cooling</th>
<th>Tape</th>
<th>Enclosed</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA</td>
<td>200°C</td>
<td>45°C</td>
<td>Timed close</td>
<td>None/Brim</td>
<td>Max. 100%</td>
<td>masking</td>
<td>Can open</td>
</tr>
<tr>
<td>ABS</td>
<td>240°C</td>
<td>90°C</td>
<td>Always</td>
<td>Brim/Raft</td>
<td>Max. 50%</td>
<td>Kapton</td>
<td>Enclosed</td>
</tr>
</tbody>
</table>

* The data is only for reference, different environmental data will be different.
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
Printing Troubleshoot

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 flat.

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 +-0.1mm. 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 wrapped.

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 4mm, and the speed not less than 10mm/s.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>F160</th>
<th>F430</th>
<th>D600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build volume</td>
<td>160<em>160</em>200</td>
<td>400<em>300</em>300</td>
<td>600<em>600</em>600</td>
</tr>
<tr>
<td>Nozzles</td>
<td>Single</td>
<td>Single/Dual</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>0.4mm(0.3/0.6/0.8/1.0mm can be customized)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>400 °C</td>
<td>360 °C</td>
<td></td>
</tr>
<tr>
<td>Nozzles Type</td>
<td>Direct drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hot bed</td>
<td>140 °C</td>
<td>Bed 120 °C/Air 70 °C</td>
<td>100 °C</td>
</tr>
<tr>
<td>Min. Layer</td>
<td>0.04mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>X、Y、Z axis 0.01mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Print Speed</td>
<td>120mm/s (inner/outter, top/bottom, fill, first layer speed can be set separately)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel Speed</td>
<td>200mm/s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>ABS, PLA, TPU, PETG, HIPS, PVA, PA, PC, Carbon Fibre, PEEK, etc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fila. Diameter</td>
<td>1.75mm</td>
<td>3.0mm (1.75mm)</td>
<td></td>
</tr>
<tr>
<td>Motion Structures</td>
<td>Optic axis</td>
<td>Rectilinear orbit</td>
<td></td>
</tr>
<tr>
<td>Auto Turnoff</td>
<td>Yes (pwr manager + relay)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continue Play</td>
<td>Yes (Power outage, lower plate and save data)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fila. Check</td>
<td>Yes (pause printing when filament finish, and lower platform)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adj. Head</td>
<td>Yes (height-adjustable-nozzles)</td>
<td></td>
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</tr>
<tr>
<td>OS</td>
<td>Windows, Linux, Mac OS, OSX</td>
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<tr>
<td>Languages</td>
<td>Chinese, English multi-language</td>
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<tr>
<td>Software</td>
<td>CreatWare Muti-language</td>
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<tr>
<td>File Format</td>
<td>STL, OBJ, GCode, Amf</td>
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</tr>
<tr>
<td>Printing Field</td>
<td>Full closed covering</td>
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</tr>
<tr>
<td>Display</td>
<td>4.3 inches color touch screen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pwr Supply</td>
<td>110/220V 180W</td>
<td>110/220V 1300W</td>
<td>110/220V 1000W</td>
</tr>
<tr>
<td>Dimension</td>
<td>280<em>280</em>470mm</td>
<td>660<em>470</em>560mm</td>
<td>910<em>840</em>1100mm</td>
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<tr>
<td>Weight</td>
<td>22Kg</td>
<td>60Kg</td>
<td>170Kg</td>
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### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DX</th>
<th>DX Plus</th>
<th>DE</th>
<th>DE Plus</th>
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<tbody>
<tr>
<td>Build volume</td>
<td>300<em>250</em>300</td>
<td>300<em>250</em>520</td>
<td>400<em>300</em>300</td>
<td>400<em>300</em>520</td>
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<tr>
<td>Nozzles</td>
<td>Single</td>
<td>Dual/Tris</td>
<td></td>
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</tr>
<tr>
<td>Diameter</td>
<td>0.4mm(0.3/0.6/0.8/1.0mm can be customized)</td>
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<tr>
<td>Temperature</td>
<td>400 °C</td>
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<tr>
<td>Nozzles Type</td>
<td>print head/new print head</td>
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<tr>
<td>Hot bed</td>
<td>120 °C (can be closed after certain layers)</td>
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<tr>
<td>Min. Layer</td>
<td>0.04mm</td>
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<tr>
<td>Accuracy</td>
<td>X, Y, Z axis 0.01mm</td>
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<tr>
<td>Print Speed</td>
<td>120mm/s (inner/outter, top/bottom, fill, first layer speed can be set separately)</td>
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<tr>
<td>Travel Speed</td>
<td>200mm/s</td>
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<tr>
<td>Materials</td>
<td>ABS, PLA, TPU, PETG, HIPS, PVA, PA, PC, Carbon Fibre, etc</td>
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<tr>
<td>Fila. Diameter</td>
<td>3.0mm (1.75mm optional)</td>
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<tr>
<td>Keypad</td>
<td>Yes (nine key)</td>
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<tr>
<td>Auto Turnoff</td>
<td>Yes (pwr manager + relay)</td>
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<tr>
<td>Continue Play</td>
<td>Yes (Power outage, lower plate and save data)</td>
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<tr>
<td>Fila. Check</td>
<td>Yes (pause printing when filament finish, and lower platform)</td>
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<tr>
<td>Adju. Head</td>
<td>Yes (height-adjustable-nozzles)</td>
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<td>OS</td>
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<tr>
<td>Chipset</td>
<td>Atmega 2560-16AU (AVR 8 Bit 16MHz, 256KB Flash)</td>
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</tr>
<tr>
<td>Display</td>
<td>4.3 inch colored touch screen</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pwr Supply</td>
<td>110/220V 360W</td>
<td>110/220V 700W</td>
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<tr>
<td>Dimension</td>
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<td>420<em>380</em>790</td>
<td>590<em>430</em>570</td>
<td>590<em>430</em>790</td>
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<tr>
<td>Weight</td>
<td>35 Kg</td>
<td>40Kg</td>
<td>45Kg</td>
<td>55Kg</td>
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</table>
Henan Suwei Electronics Technology Co., Ltd.

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Website: www.CreatBot.com
Email: sales@creatbot.com
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