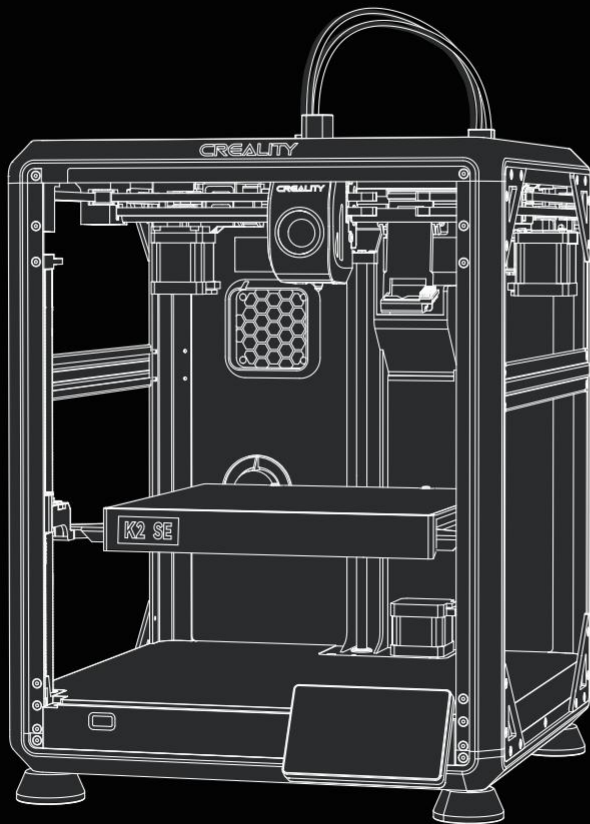




# K2 SE

# User Manual

K2 SE 3D Printer

V1.0\_EN

## To Our Dear Users

Thank you for choosing Creality. For your convenience, please read through this User Manual before you start and follow the instructions provided carefully.

Creality is always ready to provide you with high-quality services. If you encounter any issues or have any questions when using our products, please use the contact information at the end of this manual to contact us. To further improve your user experience, you can find more about our devices via the following methods:

User manual: You can find instructions and videos in the USB flash disk provided with the printer.

You can also visit our official website (<https://www.creality.com>) to find information regarding software, hardware, contact information, device instructions, device warranty information, and more.

## Firmware Upgrade

1. You can upgrade the firmware directly through the device screen;
2. You can upgrade the firmware via the Creality Cloud OTA;
3. Please visit the official website <https://www.creality.com>, click on “Support → Download Center” , select the corresponding model to download the required firmware, (Or click on “Creality Cloud → Downloads → Firmware”) , after installation is complete, you can use it.

## Product Operation and After-Sales Service Information

1. You can log in to the Creality Official Wiki (<https://wiki.creality.com>) to explore more detailed after-sales service tutorials.
2. Or contact our after-sales service center at +86 755 3396 5666, or send e-mail to [cs@creality.com](mailto:cs@creality.com).



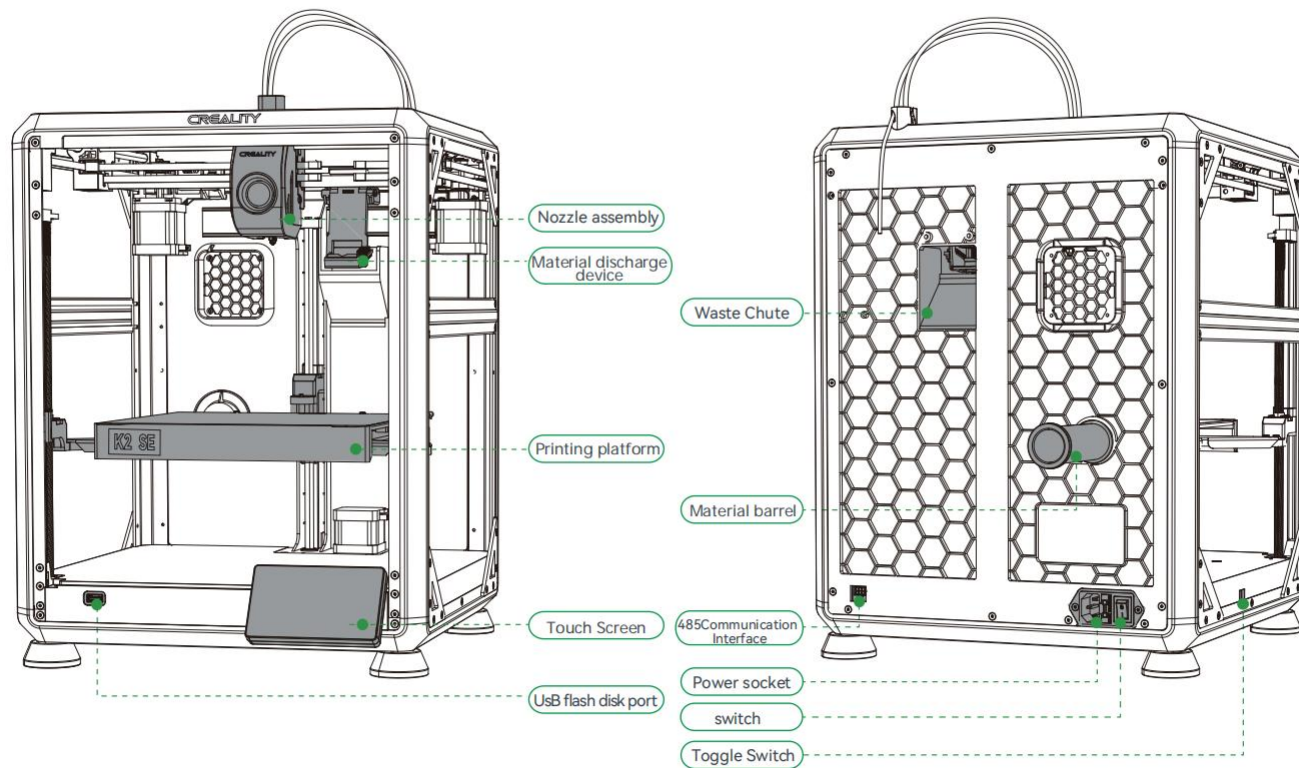
Creality Wiki

1. Do not use the printer in any way other than described herein in order to avoid personal injury or property damage;
2. Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, cool and dustless environment;
3. Do not expose the printer to a violent vibration or any other unstable environment, as this may cause poor print quality;
4. Please use recommended filaments to avoid clogging of the extrusion head and causing damage to the machine;
5. Do not use the power cable of other products during installation. Always use a grounded three-prong power outlet, which accompanies the printer;
6. Do not touch the nozzle and the heated bed during operation to avoid burns or personal injury;
7. Do not wear gloves or wraps while operating the machine to prevent entrapment of movable parts that could cause crushing and cutting injuries to bodily parts;
8. Use the provided tools to clean the filament from the extruder in time taking advantage of the residual temperature after printing. Do not touch the extruder directly when cleaning, otherwise it may cause burns;
9. Clean the printer frequently. Clean the printer body with a dry cloth regularly after powering off the printer, wipe away dust, bonded print filament and foreign objects on the guide rails;
10. It is not recommended for children under the age of 10 to use this machine directly to avoid personal injury.
11. Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used), abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes; Creality will not be responsible for any violators' legal liability under any circumstance;
12. Tip: Do not plug in or unplug wires on a charged basis.

|                                        |              |
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# 1. Printer Information

## 1.1 About the Printer



# 1. Printer Information

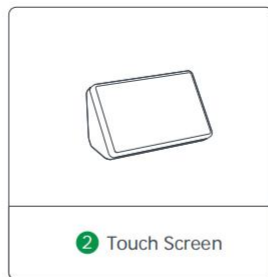
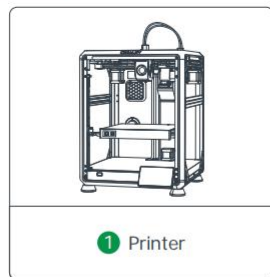


## 1.2 Equipment Specifications

| Equipment Specifications    |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Model                       | K2 SE                                                                   |
| Dimensions                  | 355*355*482mm                                                           |
| Machine Weight              | 10.24kg                                                                 |
| Max. Build Dimensions       | 220*215*245mm                                                           |
| Print Technology            | FFF                                                                     |
| Rated Voltage               | 100-120V~/200-240V~, 50/60Hz                                            |
| Rated Power                 | 350W                                                                    |
| Ambient temperature         | 10°C-35°C / 50°F-86°F                                                   |
| Extruder                    | Proximal extrusion                                                      |
| Supported Filament          | Hyper PLA/PLA/TPU/PETG                                                  |
| Max. Heated Bed Temperature | 100°C                                                                   |
| Max. Nozzle Temperature     | 300°C                                                                   |
| User Interface              | 3.97inch touch screen                                                   |
| Print Interface             | USB drive printing /Local Area Network Printing/Creality Cloud Printing |
| Power Loss Recovery         | Yes                                                                     |
| Filament Detection          | Yes                                                                     |
| Auto leveling               | Yes                                                                     |

# 1. Printer Information

## 1.3 Packing list



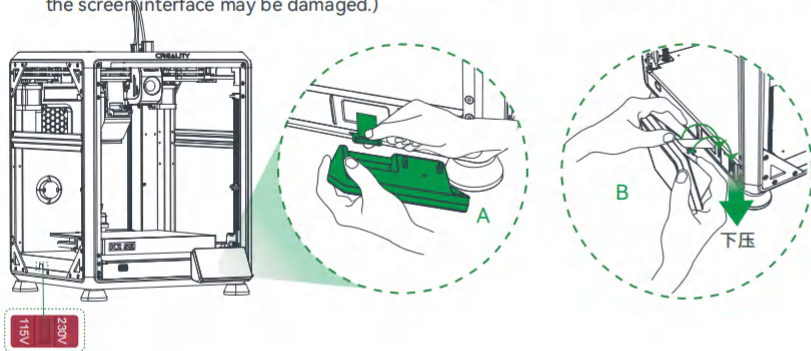
### Tool Box List

|                                       |                                                                                                     |                               |                                  |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|
| <p>1 Wrench and screwdriver ×1</p>    | <p>2 Material barrel ×1</p>                                                                         | <p>3 Cutting Plier ×1</p>     | <p>4 1.2mm Nozzle Cleaner ×1</p> |
| <p>5 USB flash disk ×1</p>            | <p>6 Power Cable ×1</p>                                                                             | <p>7 M6 Socket Spanner ×1</p> | <p>8 Quick Guide ×1</p>          |
| <p>9 After-sales services card ×1</p> | <p>Tips: the above accessories are for reference only. Please refer to the physical accessories</p> |                               |                                  |

## 2. Unboxing

### 2.1 Install the Product

- ① Take the touch screen out of the tool box and connect the touch screen to the flat cable extended from the base according to Figure A. Then snap the touch screen into the slot in the baseplate, as shown in Figure B. (The direction is as shown in the figure; otherwise, the screen interface may be damaged.)

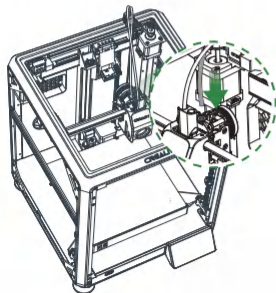


- ① Do not power up the machine while you are connecting or disconnecting the touch screen.
- ② The flexible flat cable of the base is pulled lightly and broken carefully.

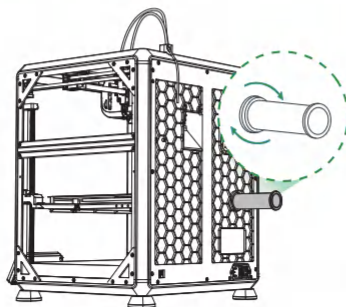
#### **Caution**

- Please ensure the correct position for the power supply switch and mains before supply connection, in order to avoid damage to the device.
- If the mains between 100V and 120V, please select the 115V for the power supply switch with a straight screwdriver
- If the mains between 200V and 240V, please select the 230V for the power supply switch (default is 230V) with a straight screwdriver.

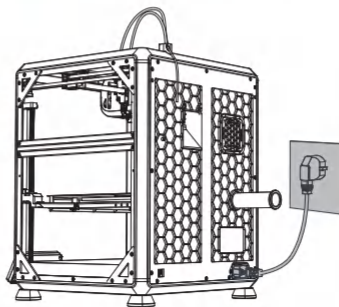
- ② Install the Teflon tube.



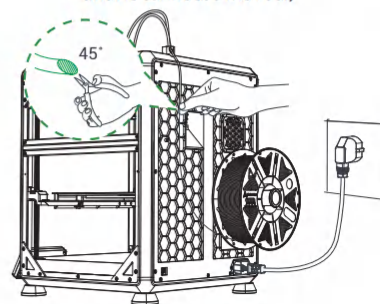
- ③ Install the material barrel.



- ④ Connection and power on.

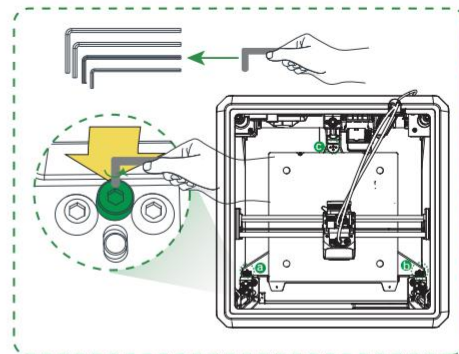
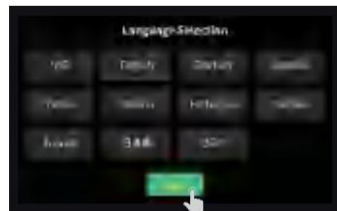


- ⑤ Load filaments. (insert the filaments into the deepest part of Teflon tube until it cannot be moved.)

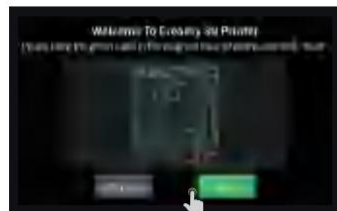


## 2. Unboxing

- 6 Select a language and click "Next", Remove three screws a, b and c according to position indicated by the yellow arrow. click "Next" on the screen.



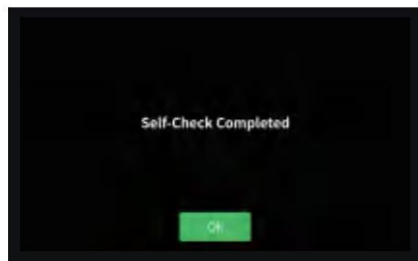
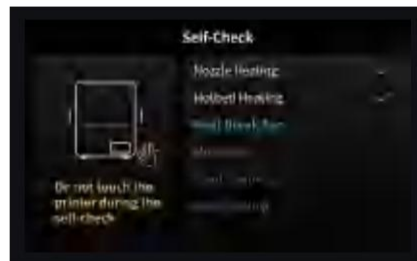
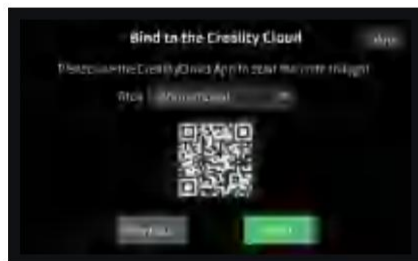
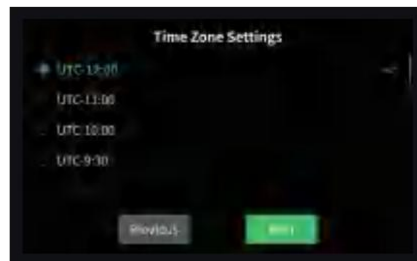
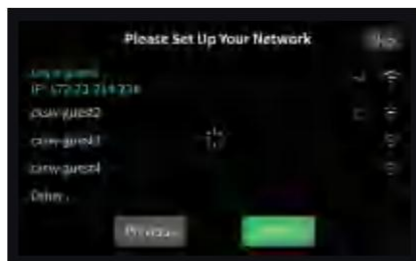
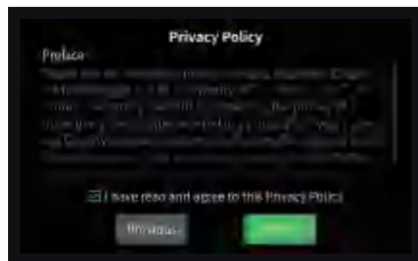
- 7 Keep the green cube in the figure clean of debris and then click "Next".



Translation: The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 2. Unboxing

### 2.2 Power-on Guide



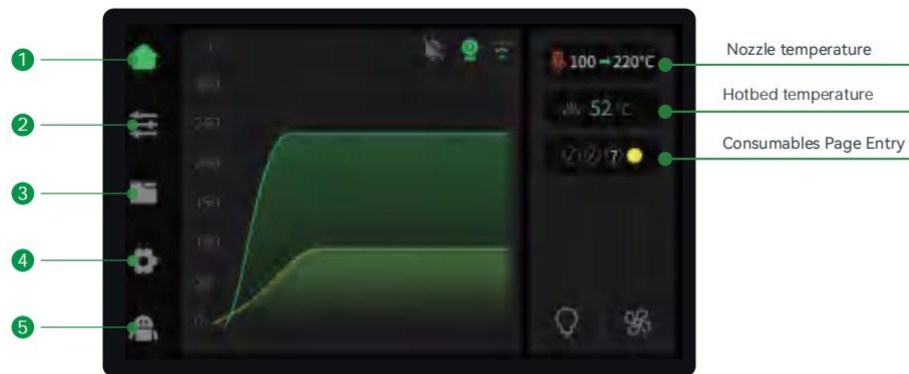
Reminder: When the printing time of the device exceeds 300 hours, or if the printing platform or nozzles have been replaced, the distance between the platform and nozzles may change that caused the first layer of the model may not stick firmly, resulting in printing failure. Please calibrate the platform regularly.



Translation: The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 3. Product Usage

### 3.1 Main、Prepare



Parameters can be manually set

The left side is the navigation bar :

- ① Home: In idle state, you can view the temperature of each part of the machine; during printing, you can view the model printing progress and other information on this interface;
- ② Adjustment page: On this page, you can operate the machine to move, load filaments, etc.;
- ③ File page: On this page, you can choose to print files and operate printing;
- ④ Function setting page: You can set network, camera and other functions; you can also view machine information;
- ⑤ Help page: You can export logs or view machine wiki.

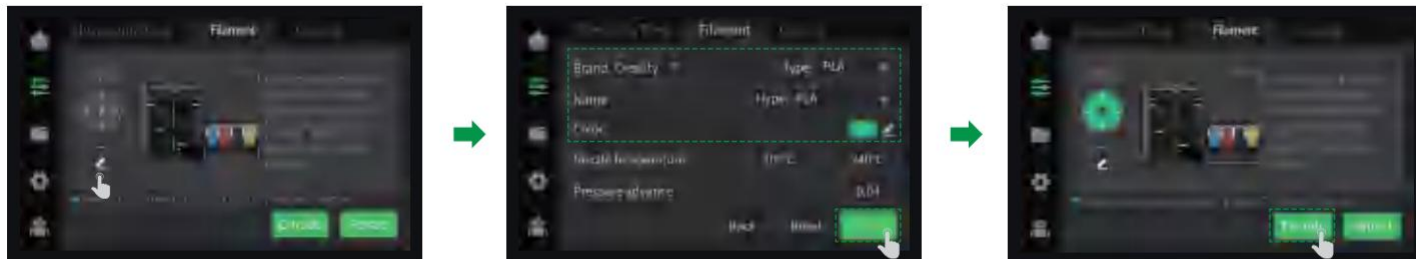


Translation: The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 3. Product Usage

### 3.2 Extrude, Retract

Extrude



Retract



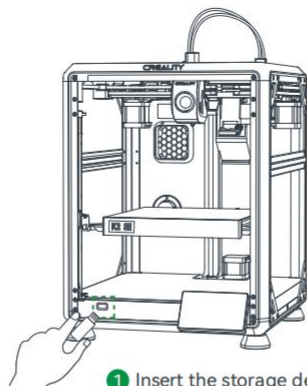
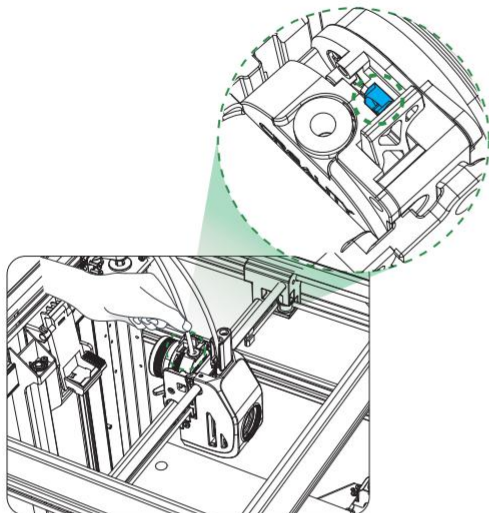
NOTE: The nozzle temperature must be set according to the filament properties.



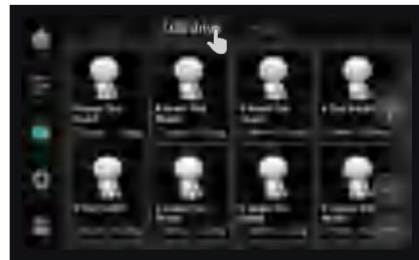
The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 3. Product Usage

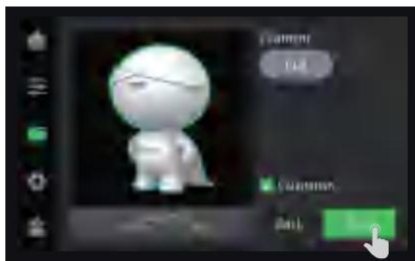
### 3.3 USB flash disk Printing



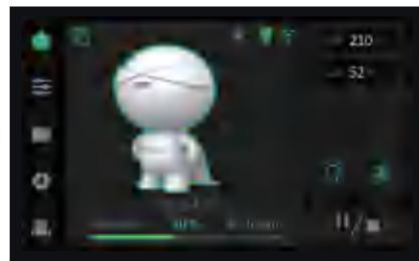
1 Insert the storage device



2 USB flash drive model



3 Select to print



4 Printing

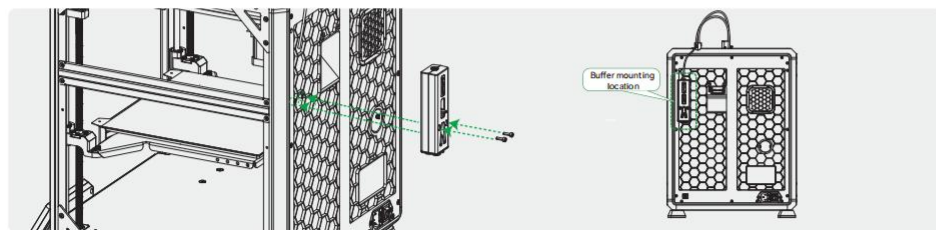
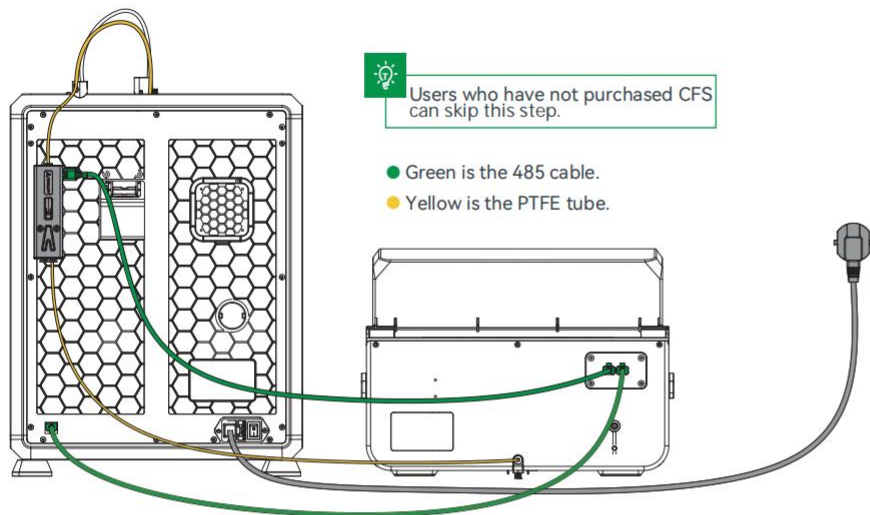
Note: Insert consumables and proceed with the feeding operation once the out-of-material detection light is on.

**Warm prompt:** Selecting print calibration can improve print quality.

**Translation:** The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 4. CFS connection and usage

### 4.1 The steps to connect to CFS



- 1 Install the filament buffer on the back of the printer and tighten it with two buffer screws; pay attention to the direction of the buffer, do not install it in a wrong direction.



CFS comes with a 2.0m long PTFE tube.



Cut the long PTFE tube (included with the CFS material box) to an appropriate length (approximately 90 cm) for connecting the CFS five-way connector to the buffer.



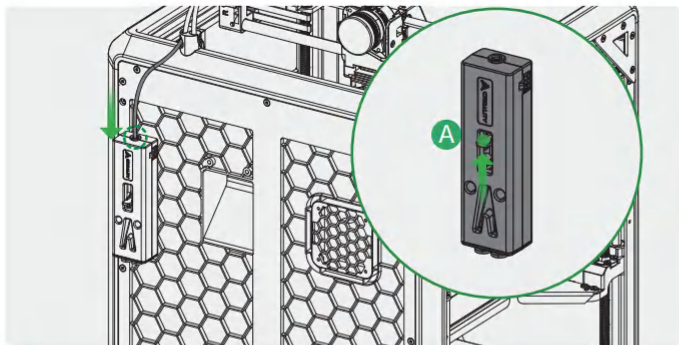
Connect the 2 pieces of 485 cables (provided with the CFS) between the CFS and the buffer.

## 4. CFS connection and usage

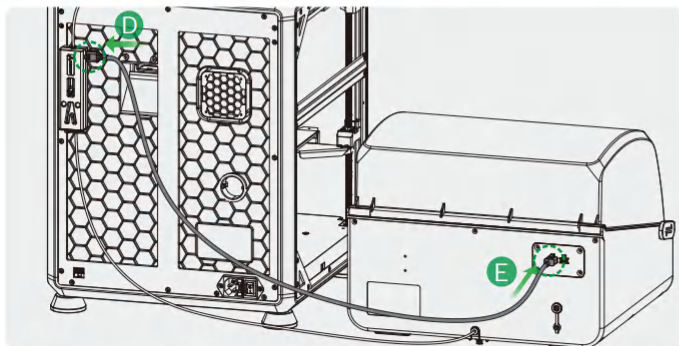
### 4.1 The steps to connect to CFS



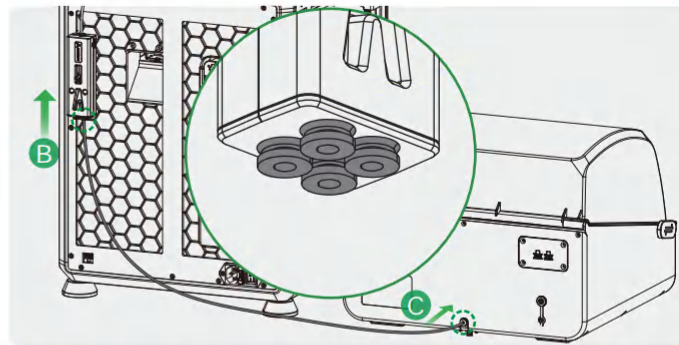
Users who have not purchased CFS can skip this step.



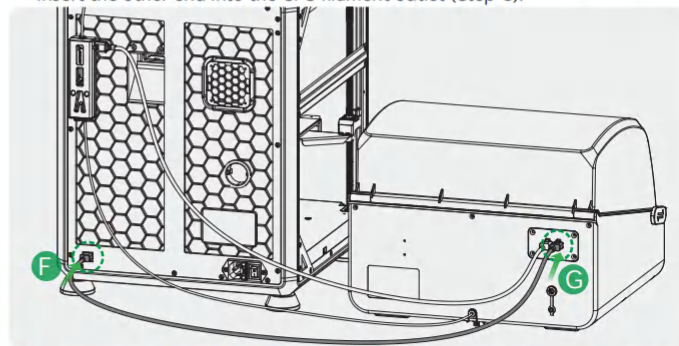
- 1 Push the lever to the top according to Step A, and insert the PTFE tube into the printer to connect the buffer and the printer.



- 3 Connect CFS and Buffer: Follow steps D and E to connect the 485 cable to the machine and CFS (either of the two 485 ports on CFS can be used).



- 2 Connecting the CFS to the buffer: Insert one end of the longer PTFE tube into the buffer (Step B, any one of the four available holes will suffice); insert the other end into the CFS filament outlet (Step C).



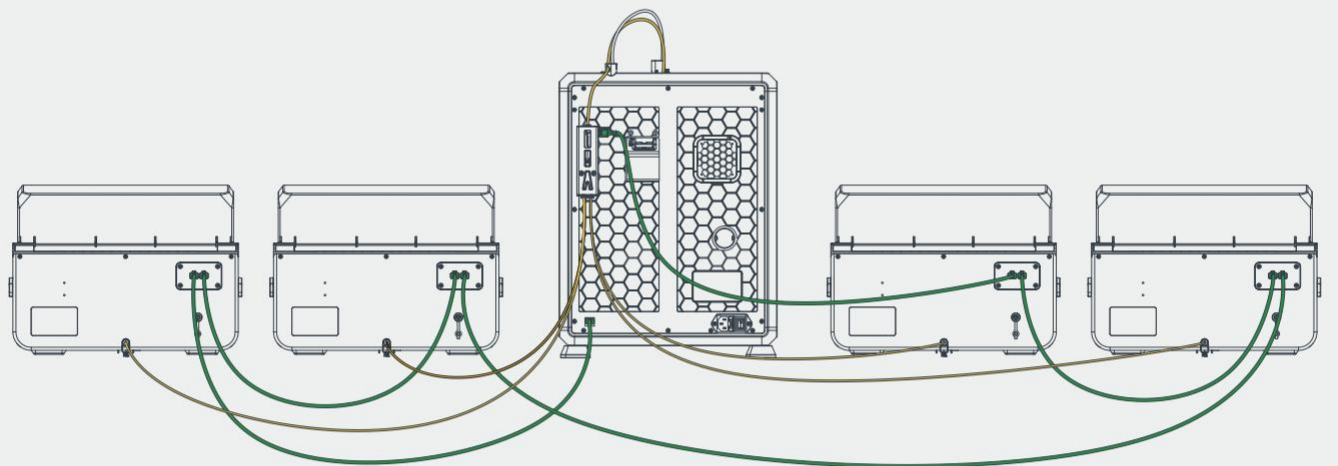
- 4 Connect CFS and buffer: Connect the 485 cable to the machine and CFS according to steps F and G.

## 4. CFS connection and usage

### 4.2 Connecting Multiple CFS



Users who have not purchased CFS can skip this step.



- Green is the 485 cable.
- Yellow is the PTFE tube.

## 4. CFS connection and usage

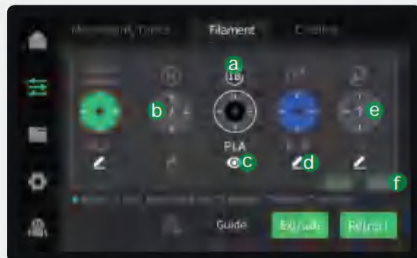
### 4.3 Loading Filament From CFS



Users who have not purchased CFS can skip this step.

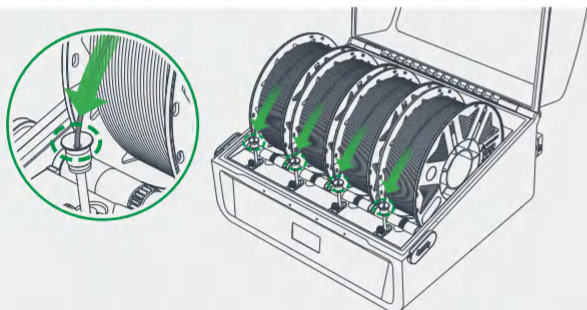


To avoid filament spool getting stuck, do not use cardboard spool with untreated edges or cardboard spool that are deformed as a whole;

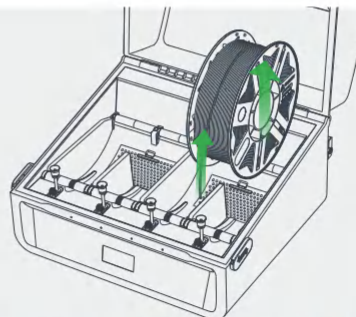


- a is the Refresh RFID button, which can be used to read filament. If the reading is successful, the remaining filament and filament color will be displayed. If the reading fails, the filament editing button will be displayed, and the filament will be displayed as "?";
- b is the empty slot state, displayed as "?", and editing is not supported;
- c means that the RFID filament is read, the eye icon is for viewing filament information, RFID filament only support viewing; if this is RFID and you want to use non-RFID next time, click the pre-loading button, wait for the reading to complete, and then click the filament editing button;
- d is ordinary filament, which support editing;
- e is the state where RFID is not read, the filament display "?". At this time, you need to click the edit button to manually edit the filament information;
- f is the CFS humidity status. Green means the humidity is appropriate, orange means the humidity is slightly higher, and red means the humidity is very high. The desiccant may need to be replaced.

- 1 Introduction to the filament management interface: The filament management page is divided into two parts: the spool holder [left] and the CFS [right]. The code above the filament in the CFS, such as 1A, indicates the slot number;



Loading filament: Put the filament into the CFS, align the filament head with the Teflon tube of corresponding silo, push it in gently, and let go after feeling the pulling force. The filament will be automatically loaded.

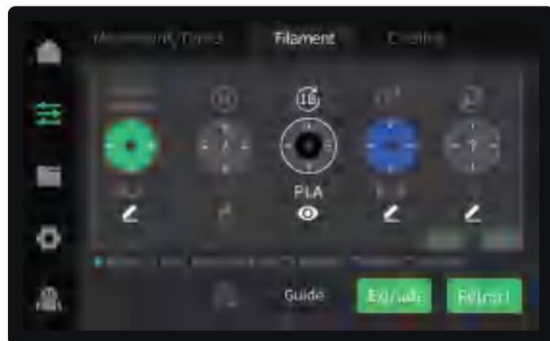


Unloading filament: First, make sure that the filament is not in the extruder, in this case, just pick up the filament and pull it out; if it is in the extruder, click the Retract button first, wait for the filament to return to the CFS, and then take out the filament.

- 2 Load/unload filament.

## 4. CFS connection and usage

### 4.4 Filament Setup



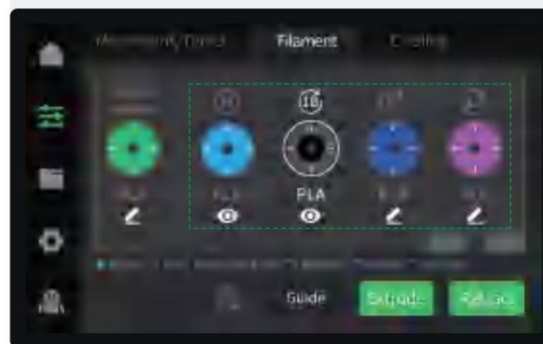
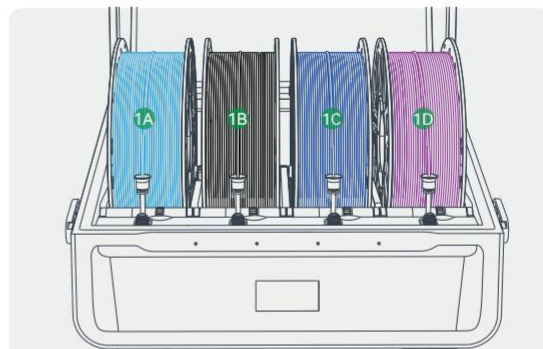
- 1 Put in filament and wait for tightening (RFID filament does not need to be edited, in case of non-RFID filament, "?" will be displayed after reading, and filament needs to be edited manually);



Users who have not purchased CFS can skip this step.



Translation: The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.



- 2 Check whether the filament information displayed on the screen corresponds to the filament in CFS.

## 4. CFS connection and usage

### 4.5 Print consumables mapping



- The area **a** is the color and type of the material contained in the print file. For example, the green background PLA in the figure indicates that green PLA is required;
- The area **b** is the state after the mapping of the print file to the filament bin is completed. For example, there is no green PLA in the filament bin, and the blue PLA is automatically selected;
- When the mapping fails, '--' will be displayed, and the user needs to manually select the material;
- Enabling CFS means printing with CFS filament, otherwise the material rack filament will be used for printing, and the multi-color file will be regarded as a single-color file;
- Checking print calibration will perform automatic leveling, AI calibration and other functions.

- 1 Click the file on the screen, confirm the filament mapping status, and click Print;



- 2 Printing.....



The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 5. Network printing

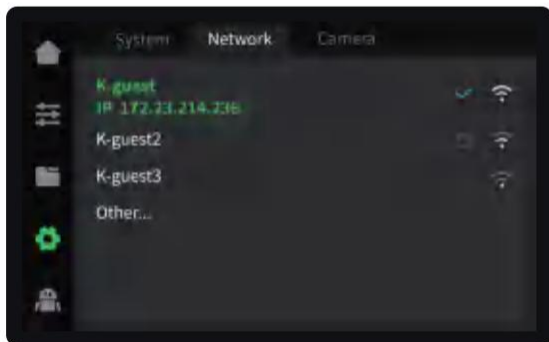
### 5.1 LAN Printing

#### 5.1.1 Software Download and Installation

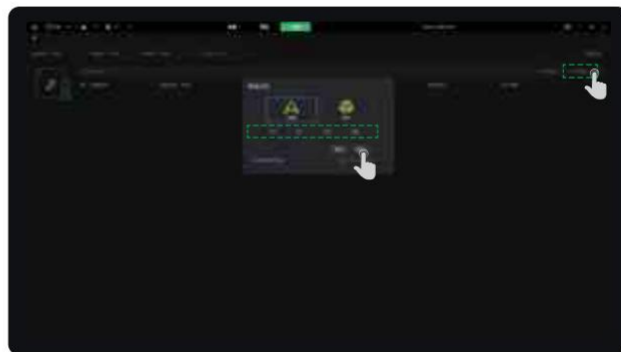


Log in to the Creality Cloud website to download Creality Print 5.0 or above slicing :  
<https://www.crealitycloud.cn/software-firmware/software/creality-print> ;

#### 5.1.2 Bind Machine to LAN



- 1 Check the machine IP on the machine screen: Settings → Network;



- 2 Enter the machine IP in the slicing software for binding: Manually add → Enter IP;



The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

## 5. Network printing

### 5.1.3 Slice and send to print.



1 Click "Slice Single Disk", and after slicing is complete, click "Send to Print".



2 Check the machine and consumables information, and click "Start Printing."



To explore more detailed slicing software tutorials, please log in to the Creality official Wiki:

<https://wiki.creality.com/zh/software/update-released>



Translation: The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.



## 5. Network printing

### 5.2 Creality Cloud Printing

#### 5.2.1 Download and install software

1. **Method 1:** Scan the QR code below to download and install the Chuangxiangyun App.

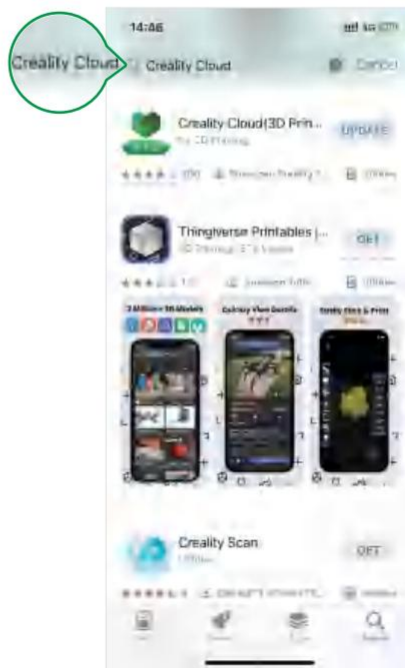
<https://www.crealitycloud.cn> 🔍

- ✓ Access a vast library of high-quality models.
- ✓ Built-in cloud slicing and Print Settings make printing easier than ever
- ✓ Control remotely and print with just one click, anytime, anywhere.



Creality Cloud App

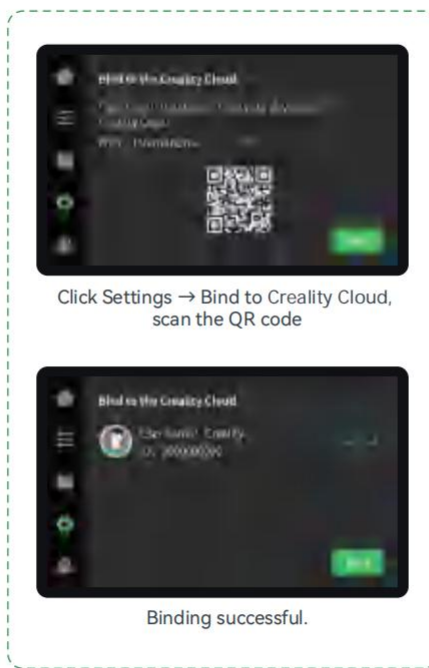
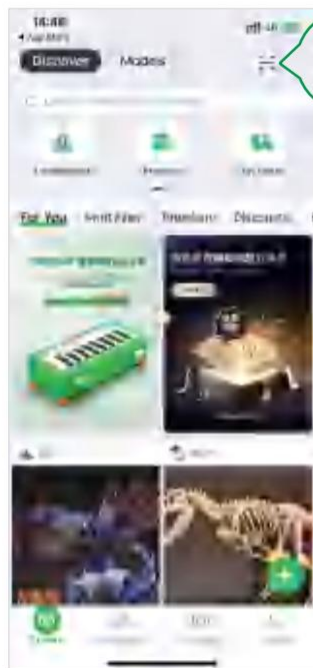
2. **Method 2:** Search for “Creality Cloud” in the App Store, download and install it



## 5. Network printing

### 5.2.2 Bind and add device

Use the Creative Cloud App mobile application to scan the QR code on the printer screen to link the printer with your account.



## 6. Tips and Routine Maintenance



### 6.1 Maintenance Items

| Maintenance instructions |                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Machine cleanup          | Clean the debris inside the machine to ensure that its operation is not affected.                                                                                                                                                                                                                                                                                                                              | Before each print                   |
| Hot end                  | Solution to extruder blockage: After preheating and removing the filaments, raise the temperature of the extruder and poke into the extruder from top to bottom using an extruder cleaner until the blocked filaments are poked out.                                                                                                                                                                           | After extruder blockage             |
|                          | Replace the nozzle.                                                                                                                                                                                                                                                                                                                                                                                            | Cumulative print time per 500 hours |
|                          | Check if the wire output is normal, if not, please check if the extruder is blocked.                                                                                                                                                                                                                                                                                                                           | After each change of filaments      |
|                          | Check the nozzle for filament residue, if so, heat the nozzle and remove it with a tool.                                                                                                                                                                                                                                                                                                                       | Before each print                   |
| Printing platform        | Check the surface of the platform for residual filaments and glue, if so, clean the surface of the platform.                                                                                                                                                                                                                                                                                                   | Before each print                   |
| Motion mechanism         | XYZ optic axis lubrication.                                                                                                                                                                                                                                                                                                                                                                                    | Cumulative print time per 500 hours |
| Equipment self-test      | Axis movement.                                                                                                                                                                                                                                                                                                                                                                                                 | Cumulative print time per 300 hours |
|                          | Optimization of vibration veins.                                                                                                                                                                                                                                                                                                                                                                               |                                     |
|                          | Auto Leveling.                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| Filament replacement     | Replacement of filaments of the same kind: follow the normal Retreat - Feed process.                                                                                                                                                                                                                                                                                                                           | /                                   |
|                          | Replacement of different filaments: Preheat the nozzle to reach the target temperature of the current filament; then retreat it, replace with the target filament, and preheat the nozzle to the higher filament extrude temperature of the two filaments; feed for 30s until the filament has been completely extruded, and finally set the nozzle temperature to the temperature of current filament nozzle. |                                     |

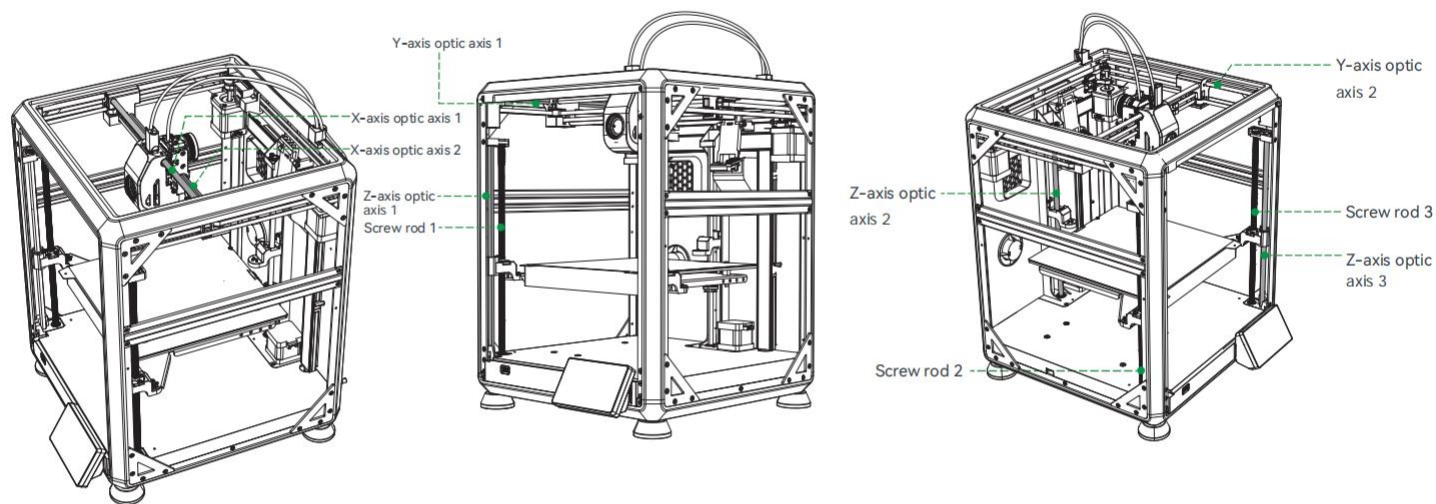
If the above issues cannot be resolved:

- 1 You can log in to the Creality Official Wiki (<https://wiki.creality.com>) to explore more detailed after-sales service tutorials.
- 2 Or contact our after-sales service center at +86 755 3396 5666, or send e-mail to [cs@creality.com](mailto:cs@creality.com).

## 6. Tips and Routine Maintenance

### 6.2 Precautions for printing

#### 6.2.1 Lubrication and maintenance



Tips: please grease and lubricate the designated areas regularly (as shown in the picture). (Users may buy the grease themselves for machine maintenance.)

## 6. Tips and Routine Maintenance

### 6.2.2 Use and maintenance of flexible platform



#### Features

- Stronger model adhesion, easy to remove the model after printing.
- Double-sided epoxy resin coating, both sides can be used for printing.
- Epoxy resin coating does not blister, textured surface is easy to clean.

#### Precautions for use

- If the heated bed temperature is too low during printing, poor adhesion may occur.
- If there is oil or hand sweat on the platform surface, poor adhesion may occur.
- Excessive nozzle pressure or forcefully removing the model with a metal spatula can easily damage the epoxy coating.



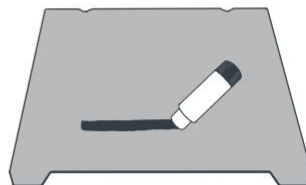
If you want to buy the above flexible platform, you can enter the mall <https://vip.creality.com/en/goods-detail/2105> for purchase.



- 1 Together with the flexible platform after the printed model has been cooled down Remove from the device and partially bend the platform slightly to separate the model from the platform.(No excessive bending of the platform to prevent it from being deformed and unusable)



- 2 The residue of the platform filaments can be scraped off with a blade. Be cautious of safety when using.



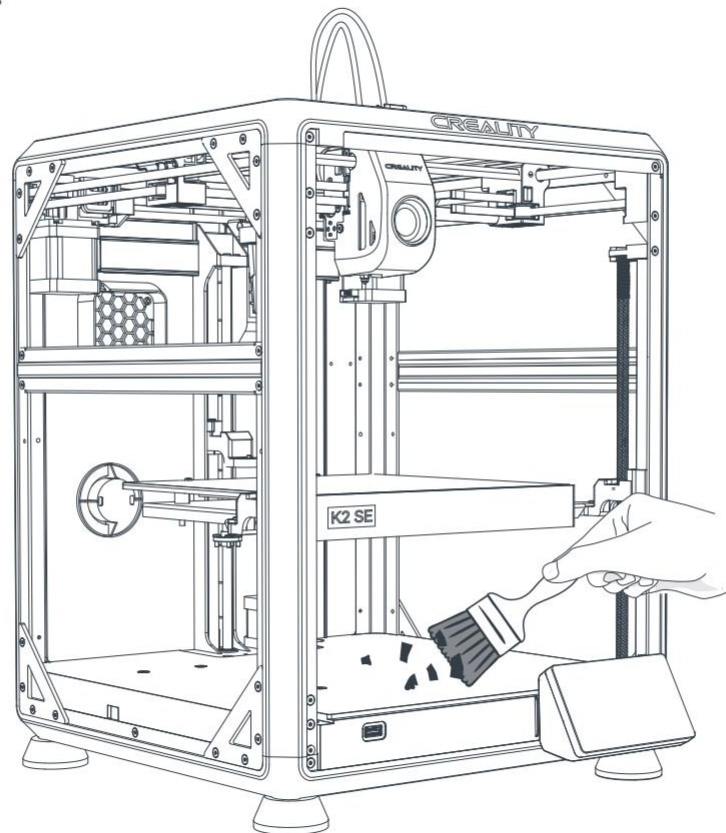
- 3 When the first layer of the model is not glued, it is recommended to apply glue stick evenly on the surface of the platform.



Reminder: Since the printing platform is quick-wear, it is recommended to replace the printing platform regularly to ensure that the first layer of the model is adhered.

## 6. Tips and Routine Maintenance

### 6.2.3 Cleaning of debris inside the chassis



## FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

Due to the differences between different machine models, the actual objects and the images can differ. Please refer to the actual machine. The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.



SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.

18th Floor, JinXiuHongDu Building, Meilong Road, Xinniu Community,  
Minzhi Street, Longhua District, Shenzhen City, China.

Official Website: [www.creality.com](http://www.creality.com)

Tel: +86 755-8523 4565

E-mail: [cs@creality.com](mailto:cs@creality.com)

