CREALITY

reddot winner 2025



K2 Pro

User Manual

K2 Pro 3D Printer

V 1.0_EN

Dear Users

Thank you for choosing Creality products. This quick guide introduces the steps for unboxing, installation, and debugging. Please read it carefully before use. For more detailed instructions, unboxing videos, and after-sales service tutorials, please visit the Creality Wiki platform.
The Creality team is always ready to provide you with quality service. If you encounter any problems during use, please contact us through the phone number and email provided at the end of this quick guide.

Bought a product but don't know how to use it? Don't worry, all your confusions will be resolved!

Creality official Wiki

https://wiki.creality.com

- Comprehensive understanding of the new product, immersive exploration of its features.
- Detailed operation guides to help you get started effortlessly.
- Professional after-sales support platform offering efficient solutions.

Creality Cloud – Your 3D Printing Universe Awaits! Discover the all-in-one 3D printing platform designed for all enthusiasts.

Creality Cloud App

https://www.crealitycloud.com

- 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.

NOTES

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. Children must be accompanied by an adult at all times when using or near the printer;
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.



Hot parts!
Burned fingers when handling the parts
Wait one-half hour after switching off before handling parts

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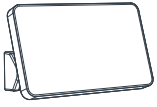
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1. Printer Information

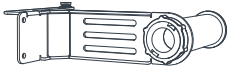
1.1 Packing List



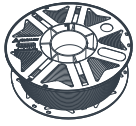
1 Printer



2 Touch Screen



3 Spool Holder



4 Filament



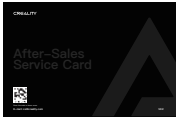
5 PTFE Tube



6 Power Cable



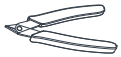
7 Quick Guide



8 After-sales services card

1. Printer Information

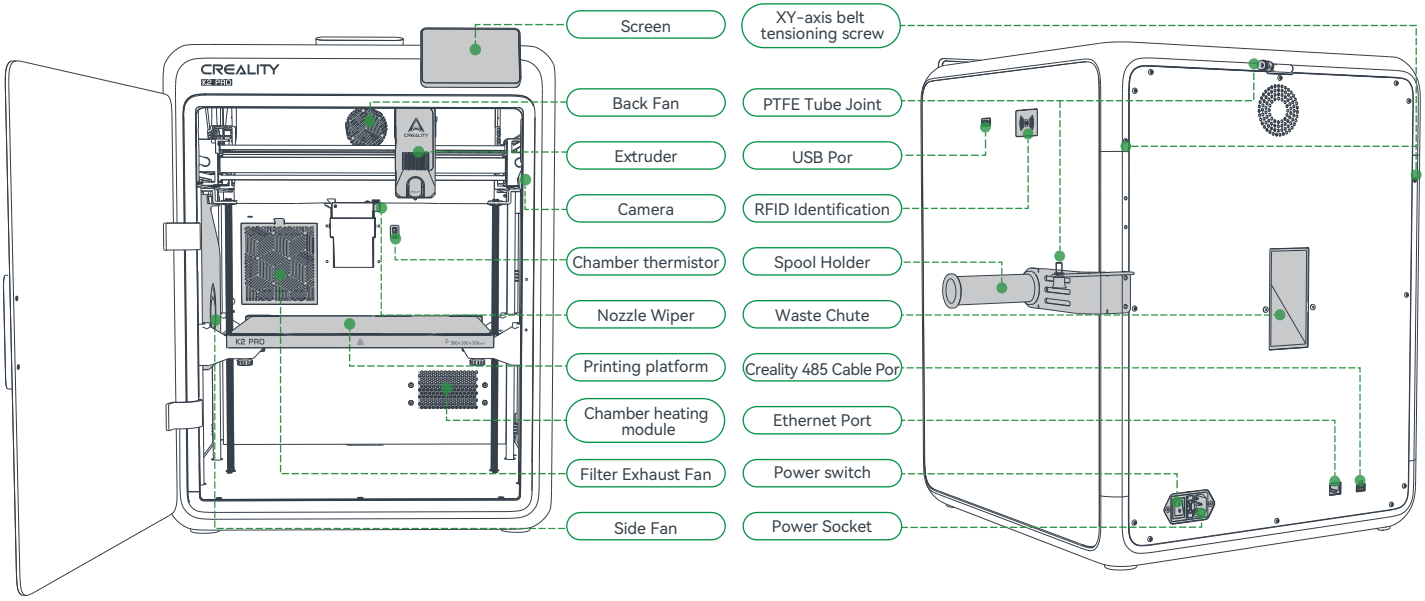
TOOL BOX

			
1 Hexagonal Wrench	2 Cutting Plier	3 Socket spanner	4 Nozzle Cleaner

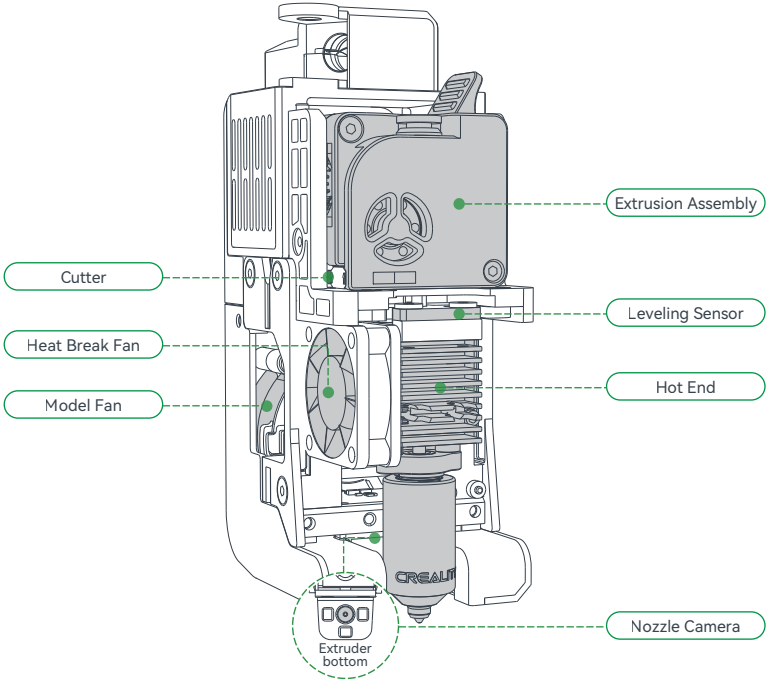
Tips: the above accessories are for reference only. Please refer to the physical accessories.

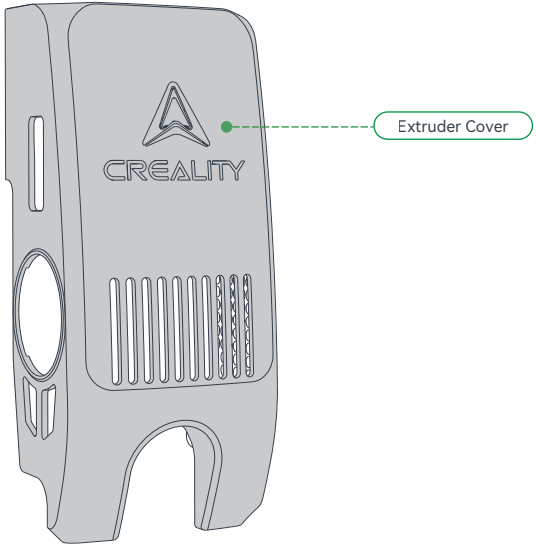
1. Printer Information

1.2 About the Printer



1. Printer Information



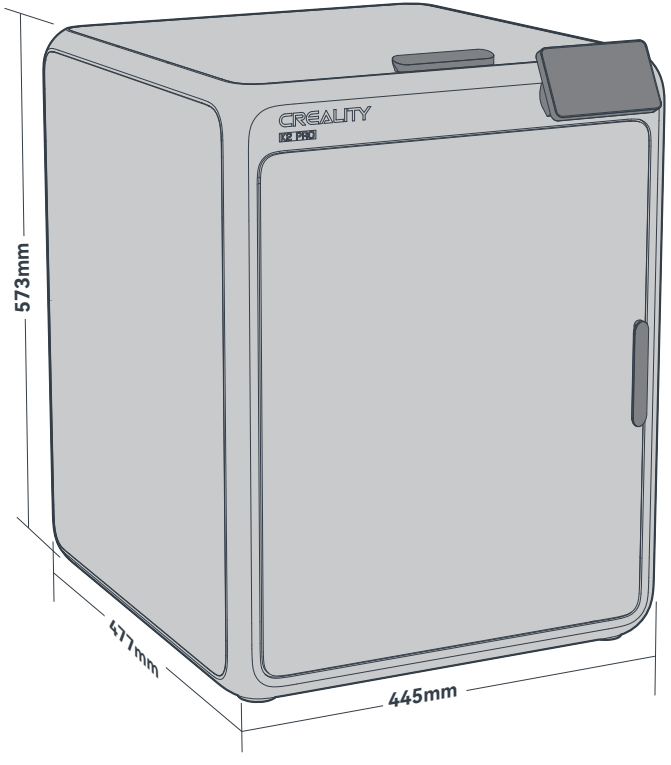


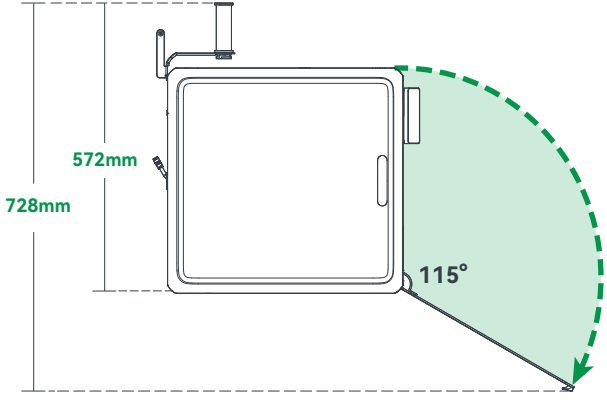
1. Printer Information

1.3 Equipment Specifications

Parameters	
Model	K2 Pro
Print size	300*300*300mm^3
Pinter size	445*477*573mm^3
Single set net weight	23.7kg
Supported filaments	PLA/ABS/PETG/PA-CF/PLA-CF/PET/ASA/PPA-CF
Extruder type	Proximal dual gear extruder
Printing speed	≤600mm/s
Acceleration	≤20000mm/s^2
Nozzle diameter	0.4mm (standard)
Nozzle temperature	≤300℃
Hotbed temperature	≤110℃
Rated Power	1300W
Rated voltage	100-240V~, 50/60Hz
Screen	4-inch color touch screen
AI camera	Yes
Power loss recover	Yes
Filament detection	Yes
Flow detection	Yes
Slicing software	Creality Print 6.0 and higher
Working mode	USB flash drive /Ethernet/Wi-Fi
Printing platform	PEI Spring steel platform plate
Leveling method	Automatic leveling
Ambient temperature	5℃~35℃

1.4 Equipment Size

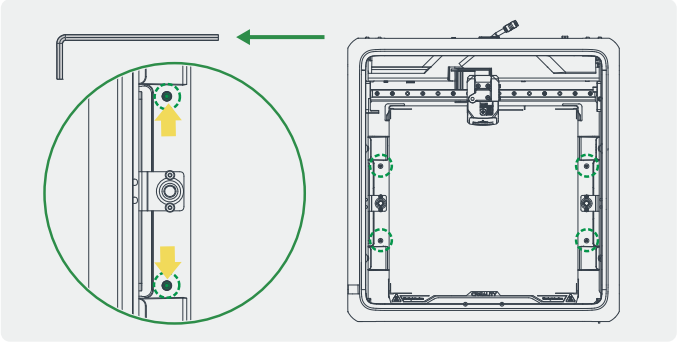




Overall machine dimensions (477×445×560), including the top cover handle, front door handle, and foot pads. Please ensure at least a 10 cm distance between the machine and the wall.

2. Unboxing

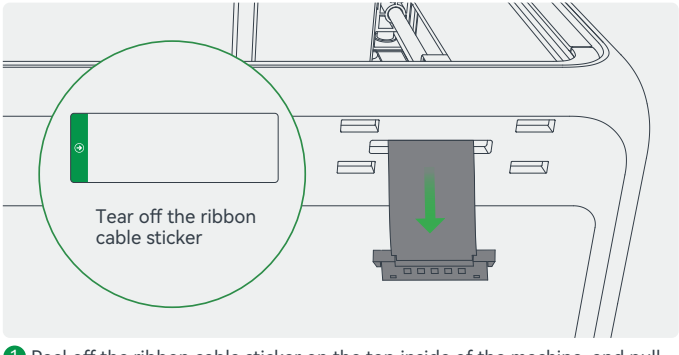
2.1 Remove the heated bed locking screws



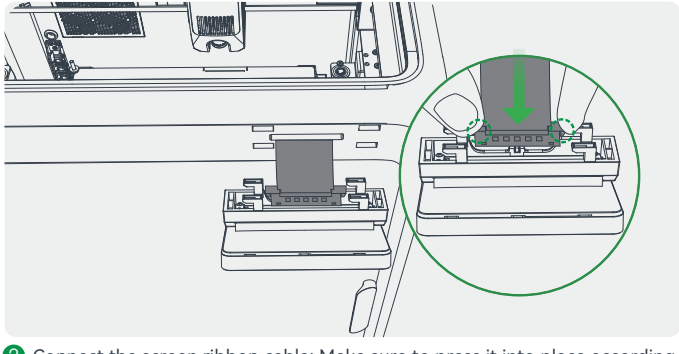
1 Use a hexagonal wrench to remove the four heated bed locking screws indicated by the yellow labels.

2.2 Install Accessories

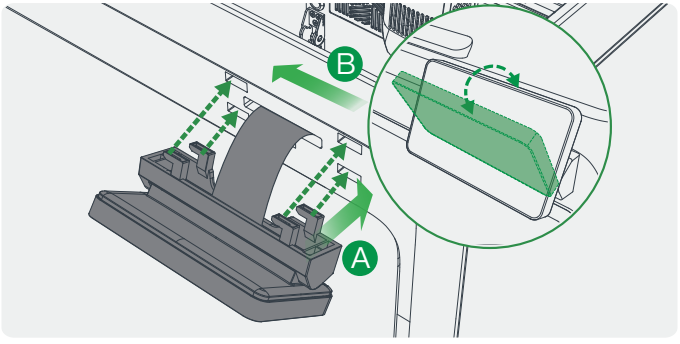
2.2.1 Install Printer Screen



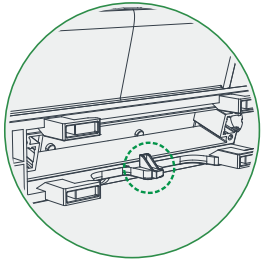
1 Peel off the ribbon cable sticker on the top inside of the machine, and pull the screen ribbon cable through the screen slot at the top of the machine.



2 Connect the screen ribbon cable: Make sure to press it into place according to the direction shown in the diagram.

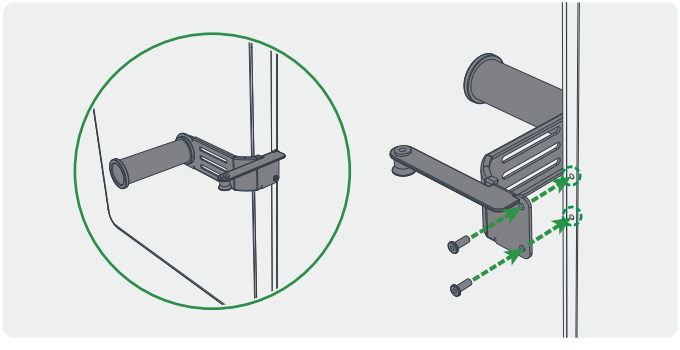


When removing the screen, simultaneously press the clip position at the center of the bottom with your hand to easily take out the screen. Avoid removing it forcefully to prevent damaging the clips, which could cause the screen to fail locking securely.

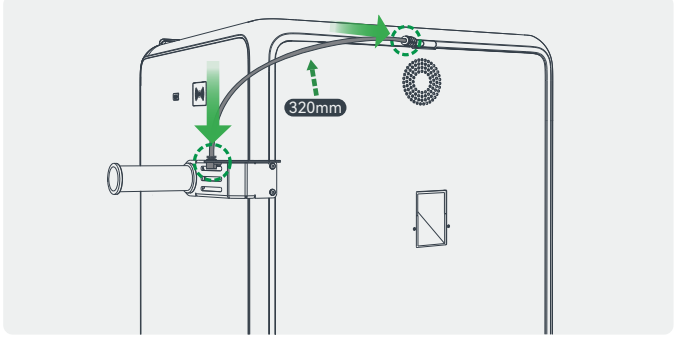


3 Insert the screen into the machine: A. Align the screen latch with the screen slot on the machine. B. Gently push to the left to lock it in place.

2.2.2 Install Spool Holder and PTFE Tube



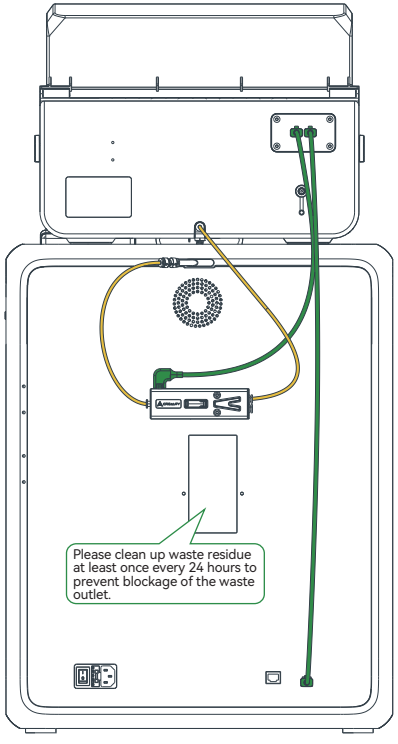
1 As shown in the figure, align the material rack with the hole on the back of the machine and tighten it with two material rack screws.



2 Connect the PTFE tube: As shown in the picture, connect both ends of the PTFE tube to the pneumatic fittings on the material rack and the machine.

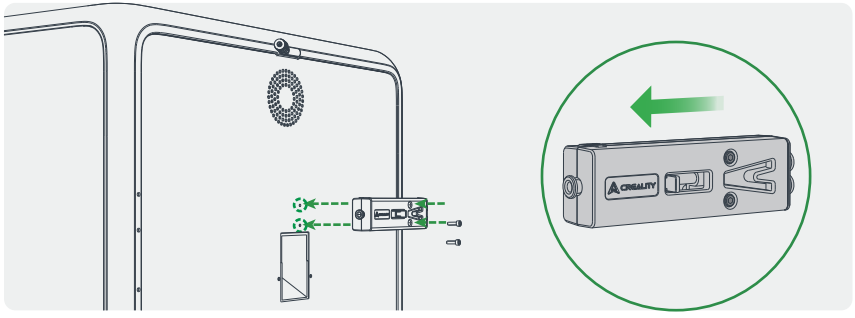
Tip: First, remove the screws from the spool holder position, then install the machine's spool holder according to the installation steps.

2.3 Connecting CFS



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

2.3.1 Install the filament buffer

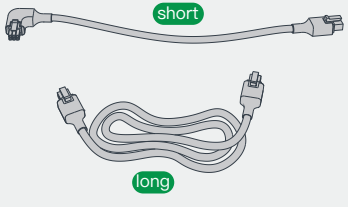


1. First, unscrew the two damper screws on the back panel, then install the damper on the back of the machine. Finally, re-tighten the two damper screws that were unscrewed. Pay attention to the direction of the damper, and do not install it in reverse.

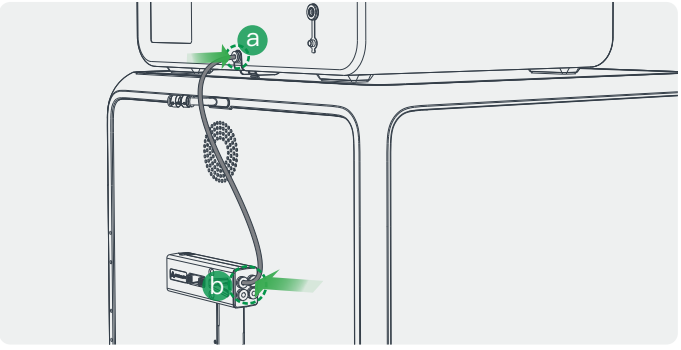
2.3.2 Connect the PTFE tube and 485 cable



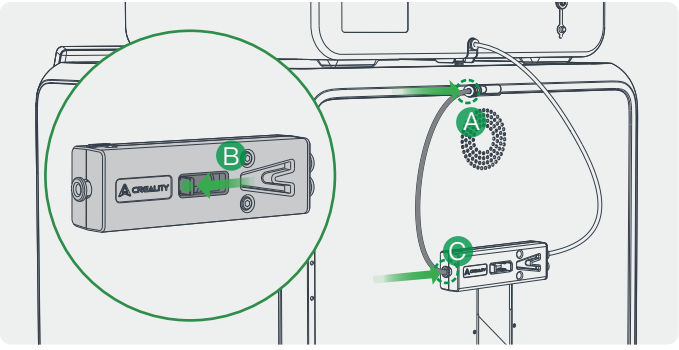
- The longer PTFE tube connects the CFS five-way connector to the buffer.
  The shorter PTFE tube connects the CFS buffer to the printer.



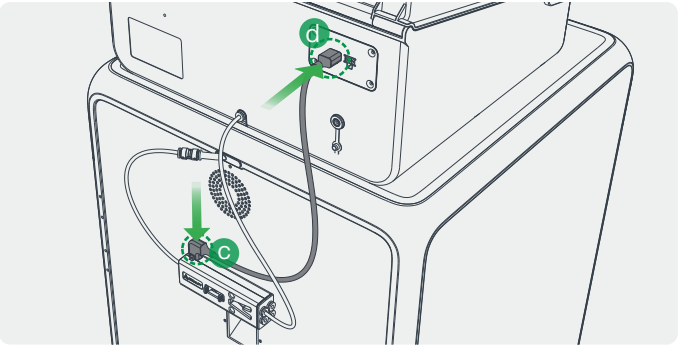
- The shorter 485 communication wire connects the CFS to the buffer.
  The longer 485 communication wire connects the CFS to the printer.



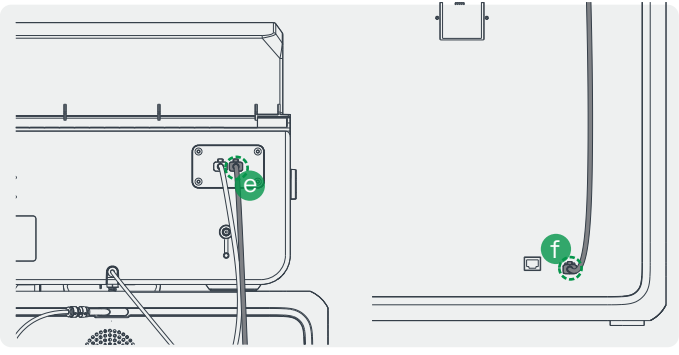
1 Connect CFS hub outlet and buffer: insert one end of the longer PTFE tube into the CFS hub outlet (position a); insert the other end into the buffer (position b, any of the four holes).



2 Connect the buffer to the printer following steps A, B, and C.

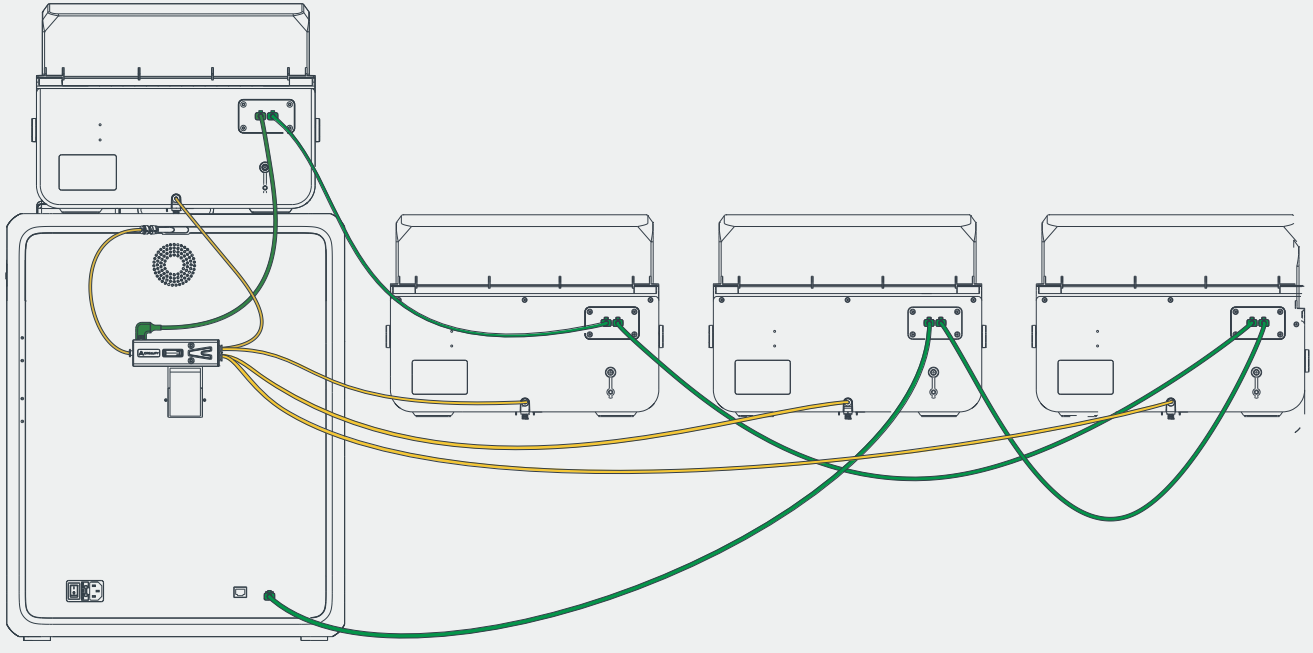


3 Connect CFS and buffer Creality 485 cable: Note that the elbow is inserted into the buffer position c, and the straight head is inserted into the CFS position d (either of the two 485 sockets of CFS).



4 Connect the CFS to the printer using the 485 communication wire: This cable has 6-pin straight connectors on both ends with no specific orientation. Insert one end into position e on the CFS and the other end into position f on the machine interface.

2.4 Connecting Multiple CFS



Users who have not purchased CFS can skip this step.

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

2. Unboxing

2.5 Power-on Guide

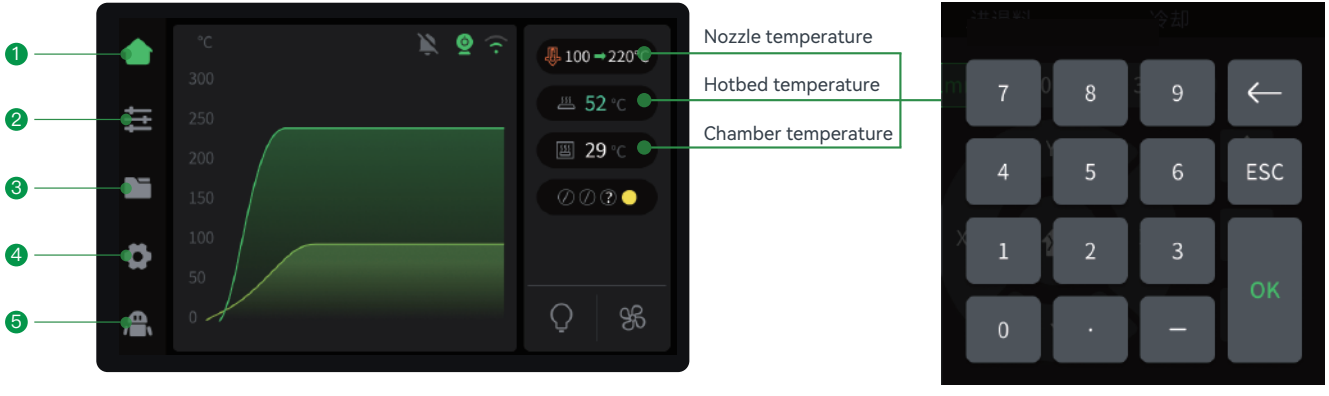


1. Follow the on-screen instructions to complete the startup guide; this process will take approximately 16 minutes.
② Los sonidos fuertes durante la optimización de vibración son normales.

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 User Interface



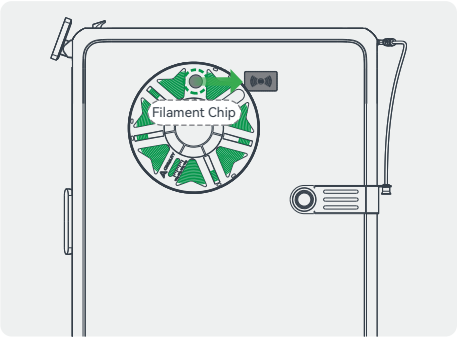
Parameters can be manually set

The left side is the navigation bar :

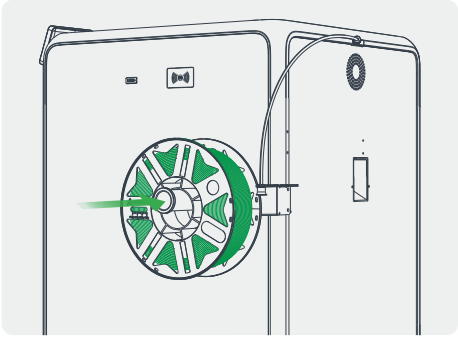
1. Home: In idle state, you can view the temperature of each part of the machine; during printing, you can view the model printing progress and other information on this interface.
2. Adjustment page: On this page, you can operate the machine to move, load filaments, etc.
3. File page: On this page, 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.

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.

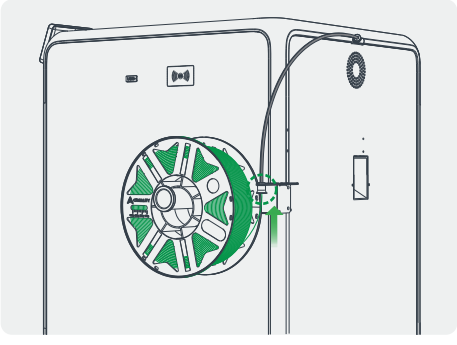
3.2 Loading Filament From Spool Holder



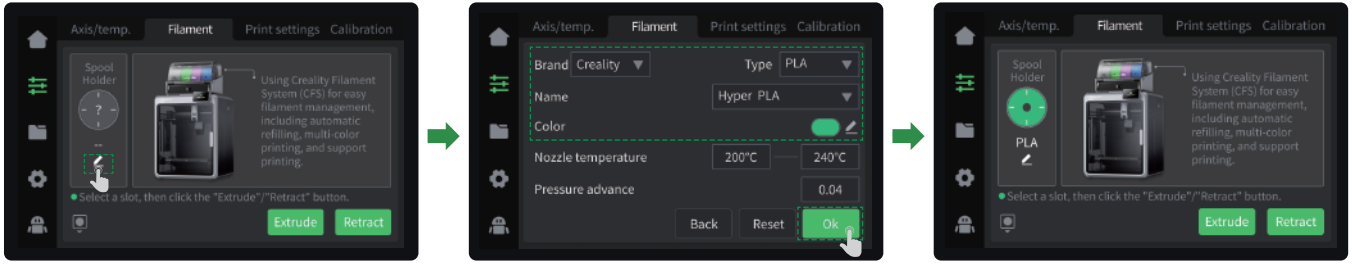
1 If the filaments support RFID recognition, align the chip on the filaments with the RFID recognition position of the machine body to scan the filaments, and the filament information can be automatically set.



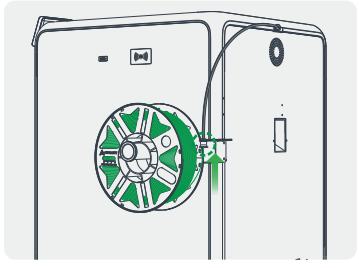
2 Hang the filament on the spool holder.

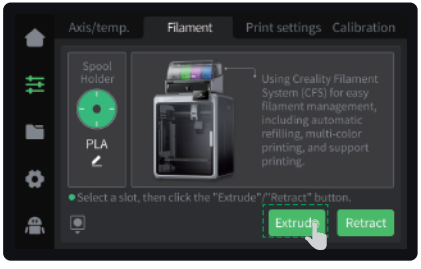


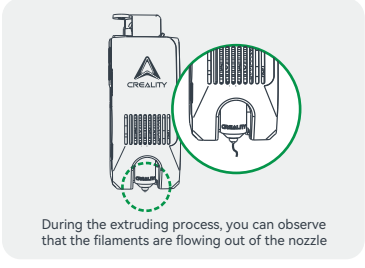
3 Thread the filaments into the Teflon tube and push gently until they cannot be pushed.



4 If the filaments do not support RFID recognition, you need to manually click on the screen to set the filament information: Adjustment page → Filaments → Edit (as shown below the material rack), set the filament brand-type-name-color respectively, and finally click OK to save the settings.

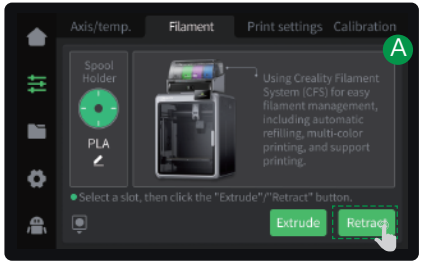


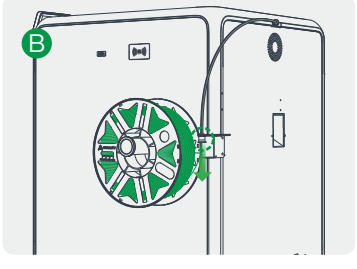




During the extruding process, you can observe that the filaments are flowing out of the nozzle

5 Extrude: Push the filament gently by hand, and click “Extrude” on the filament interface. The machine will automatically set the current filament temperature, and will automatically extrude the filament after the heating is completed.





6 Retract: A. Click Retract on the filament management page, and the extruder will automatically move to the left front to cut off the filament for retraction.
B. Wait for the retraction to end, and extract the filament from the Teflon tube behind the machine.

During extruding, you can observe whether there is filament flowing out of the nozzle. If no flow-out is observed, you can gently push the filament toward the extruder at the Teflon tube behind the machine, and then click “Extrude” again.

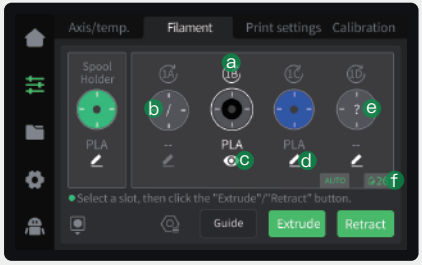
The current interface is for reference only. Please refer to the latest software/firmware UI on the official website for updates.

3. Product Usage

3.3 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.

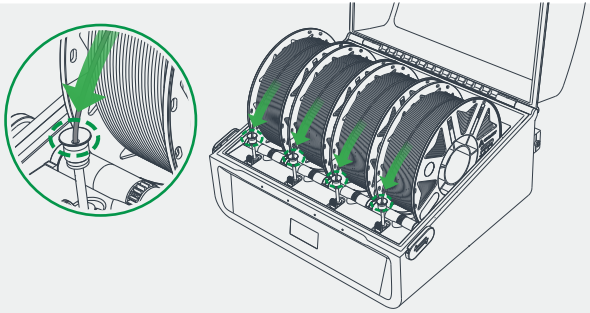
c means that the RFID filament is read, the eye icon is for viewing filament information, RFID filament only support viewing; if this is RFID and you want to use non-RFID next time, click the pre-loading button, wait for the reading to complete, and then click the filament editing button.

d is ordinary filament, which support editing.

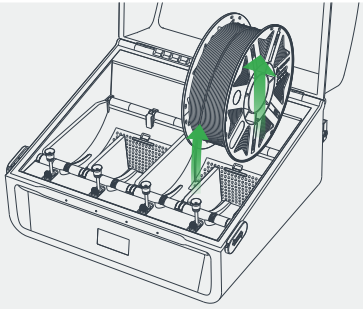
e is the state where RFID is not read, the filament display "?". At this time, you need to click the edit button to manually edit the filament information.

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.

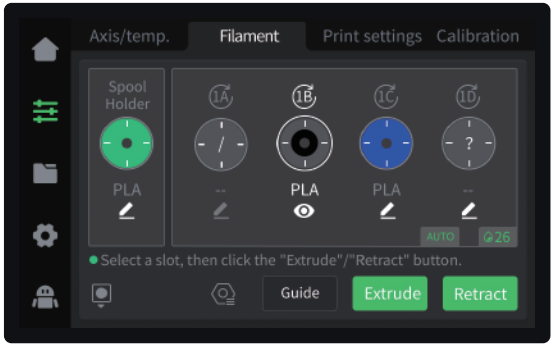


Unloading filament: First, make sure that the filament is not in the extruder, in this case, just pick up the filament and pull it out; if it is in the extruder, click the Retract button first, wait for the filament to return to the CFS, and then take out the filament.

2 Load/unload filament.

4. First Use

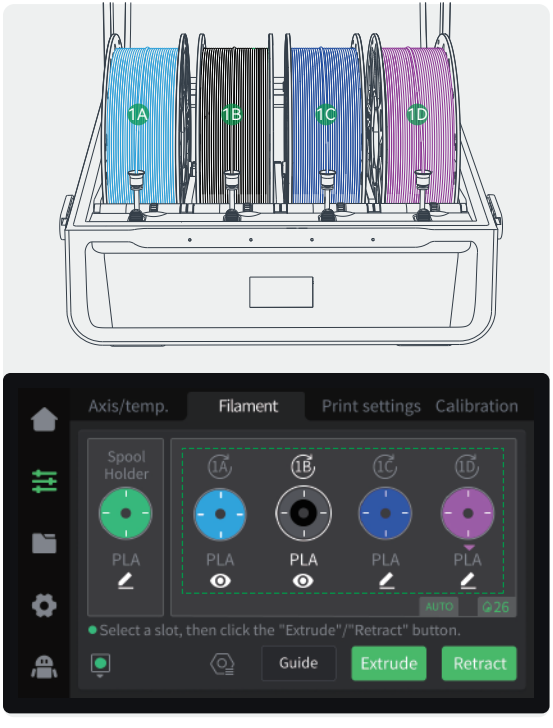
4.1 Filament Setup



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).

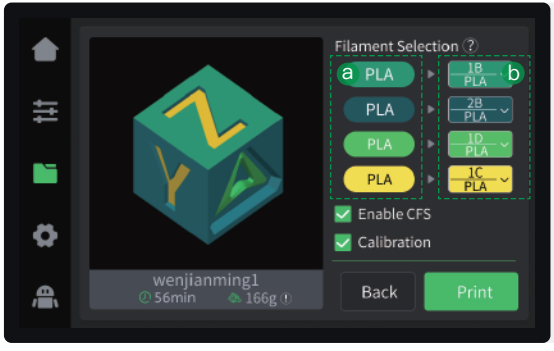
Users who have not purchased CFS can skip this step.

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.



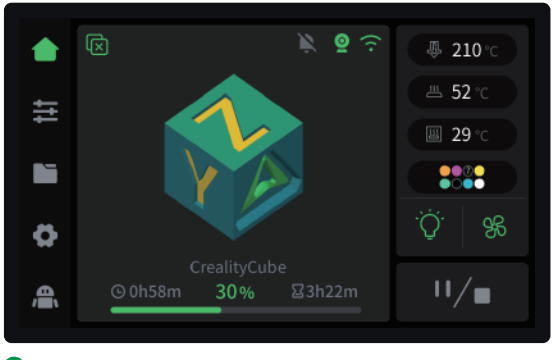
2 Check whether the filament information displayed on the screen corresponds to the filament in CFS.

4.2 Print



- 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.

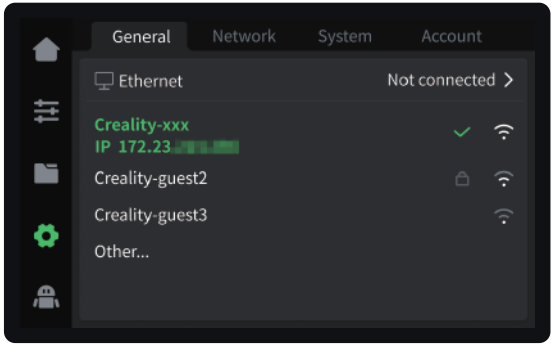
4.3 Creality Print Slicing

4.3.1 Software Download and Installation

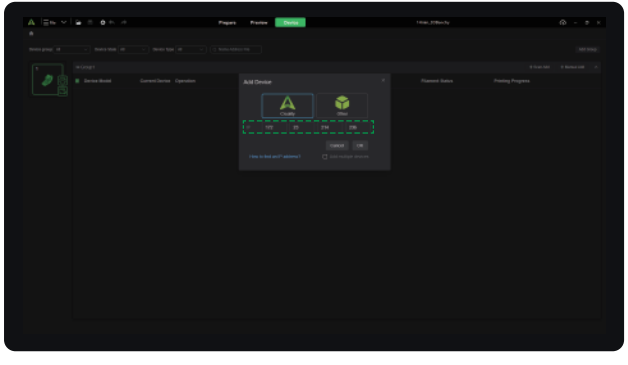
Creality Print

Log in to the Creality Cloud website to download the latest Creality Print slicing software:
https://www.crealitycloud.com/software-firmware/software/creality-print ;

4.3.2 Bind Machine to LAN



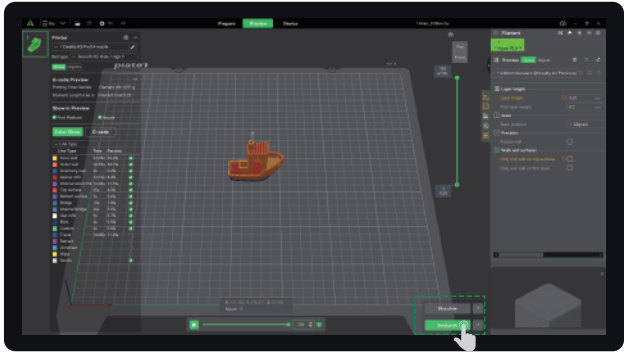
1 Check the machine IP on the machine screen: Settings → Network.



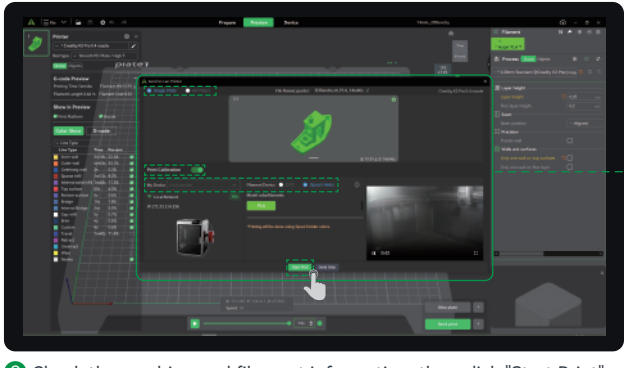
2 Enter the machine IP in the slicing software for binding: Manually add → Enter IP.

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.

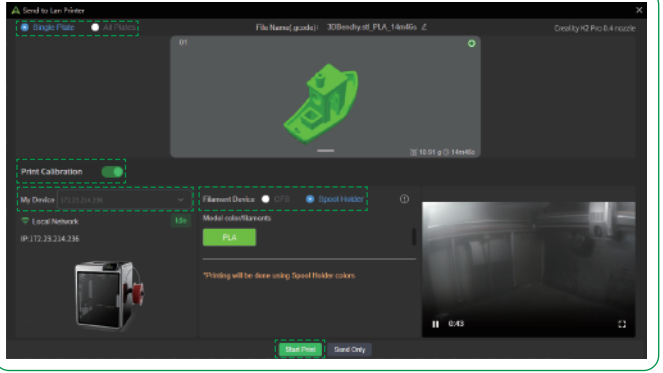
4.3.3 Slice and Send to Print



1 Click "Slice Plate" , and after slicing is complete, click "Send Print".



2 Check the machine and filament information, then click "Start Print".



For more detailed slicing software usage tutorials, please log in to the Creality 3D official Wiki:
https://wiki.creality.com/en/software/update-released

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.

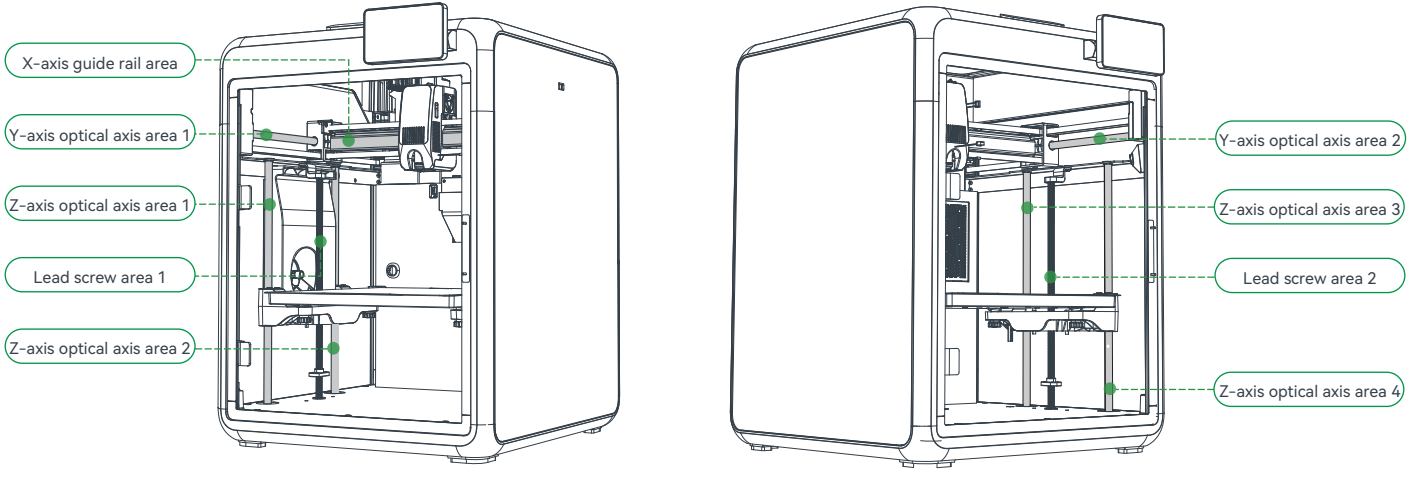
Precautions for Printing TPU Filament:
1. Only support printing TPU filaments with an external spool holder on this machine, requiring a hardness of TPU95 or higher.
2. Remove the top cover during printing, and insert the filament directly into the extruder from above.

5. Tips and Routine Maintenance

5.1 Printing Precautions

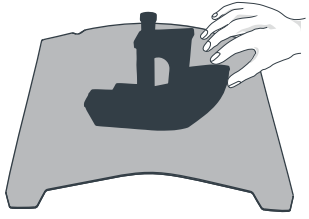
5.1.1 When the operating voltage is 110V and the ambient temperature is below 15℃, the chamber heating function of the product may take a longer time to reach the target temperature. To ensure that filaments like ABS can be printed properly, it is recommended to add appropriate insulation measures to the exterior of the machine.

5.1.2 Lubrication and maintenance

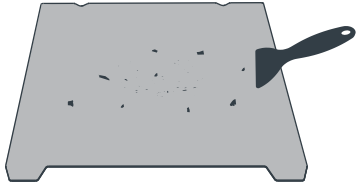


300-hour Routine Maintenance: Please lubricate the indicated area regularly with grease. Apply grease only to the central section and then distribute it evenly through movement. (Users can purchase grease on their own to maintain the machine.)

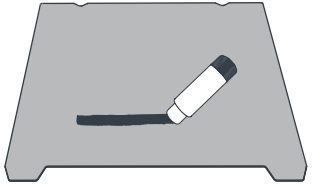
5.1.3 Using and Maintaining a Spring Steel Platform



1. After the printed model has cooled, remove it along with the spring steel platform from the device. Gently bend the platform slightly to separate the model from it. (Be careful not to over-bend the platform, as this could cause permanent deformation that renders it unusable.)

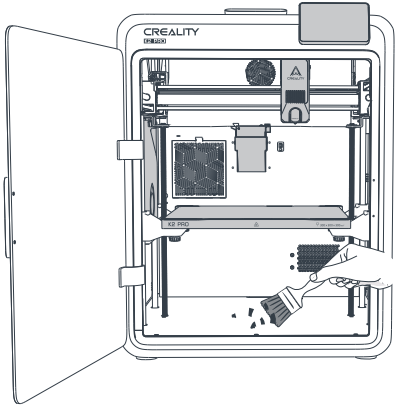


2. Residual material on the platform can be scraped off with a putty knife. Exercise caution to ensure safety while doing this.



3. If the model's first layer does not adhere properly, it is recommended to apply solid glue evenly on the surface of the platform. After printing, the residual solid glue can be rinsed off with water.

5.1.4 Cleaning of debris inside the chassis



Friendly Reminder: When the device has been printing for more than 300 hours or after replacing the printing platform or nozzle, the distance between the platform and the nozzle may change, which could result in poor adhesion of the first layer and lead to print failure. Please perform platform calibration regularly.

Friendly Reminder: The printing platform is a consumable part; regular replacement is recommended to ensure proper adhesion of the first-layer model.

5.2 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	Check if the wire output is normal, if not, please check if the extruder is blocked.	After each change of filaments
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 axis and lead screw lubrication.	Cumulative print time per 300 hours
Air filtration	Replace the air filter cartridge.	Cumulative print time per 300 hours
Equipment self-test	Optimization of vibration veins.	Cumulative print time per 300 hours
	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. Please scan the K2 Pro Wiki QR code to view more detailed after-sales service tutorials (you can also check the product unboxing steps, video guides, user instructions, and CFS device installation, etc.).
2. Or contact our after-sales service center at +86 755 3396 5666, or send e-mail to cs@creality.com.

K2 Pro Wiki

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 differentfrom 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.

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