

KINGROON

3D PRINTER

ShenZhen KeePang Technology Co.,Ltd

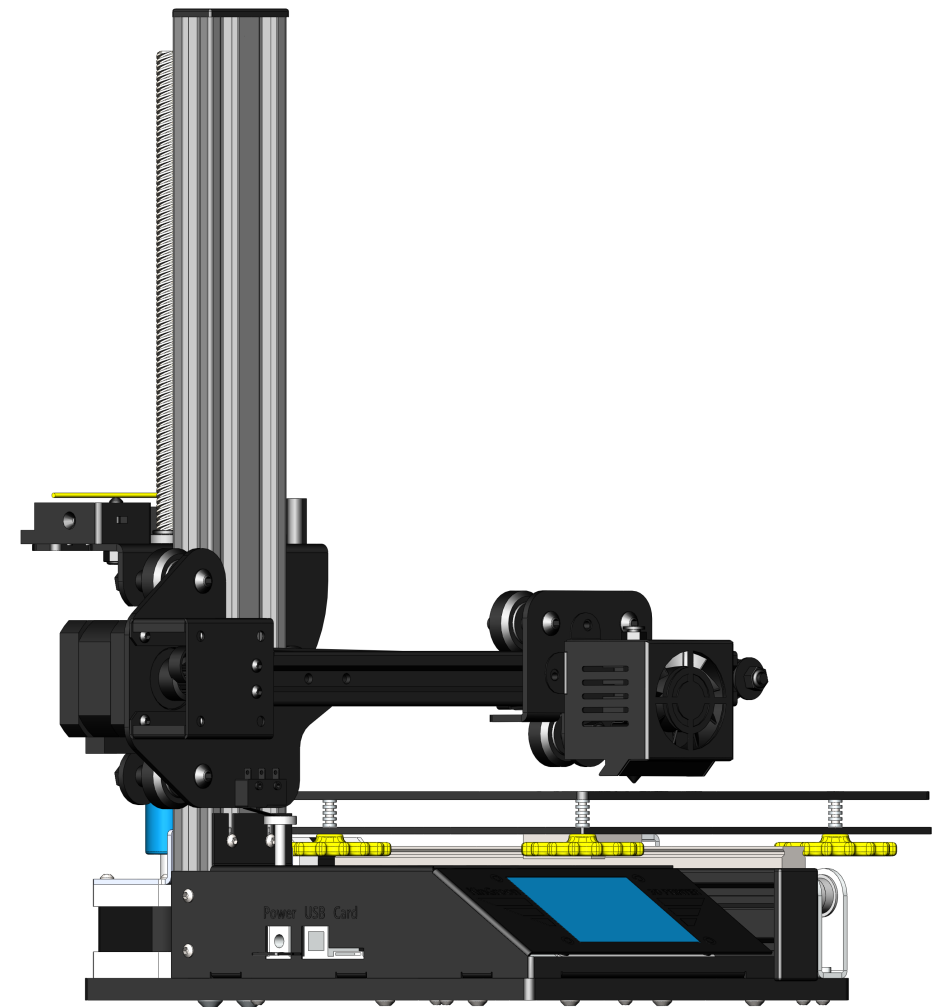
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KINGROON

3DP180-Instruction

FDM 3D Printer



Contents

14/2-----Product description

14/3-----Packing list

14/3-----Product size

14/4-----Touch Screen Introduction

14/5-6-----Assembly Instructions

14/7-----Operation usage instruction

14/8-----How to calibration!

14/9-----Filament insertion

14/10-----How to the Printing

14-11-13-----Instructions for software installation
and basic parameter setting

14/14-----Frequently asked questions

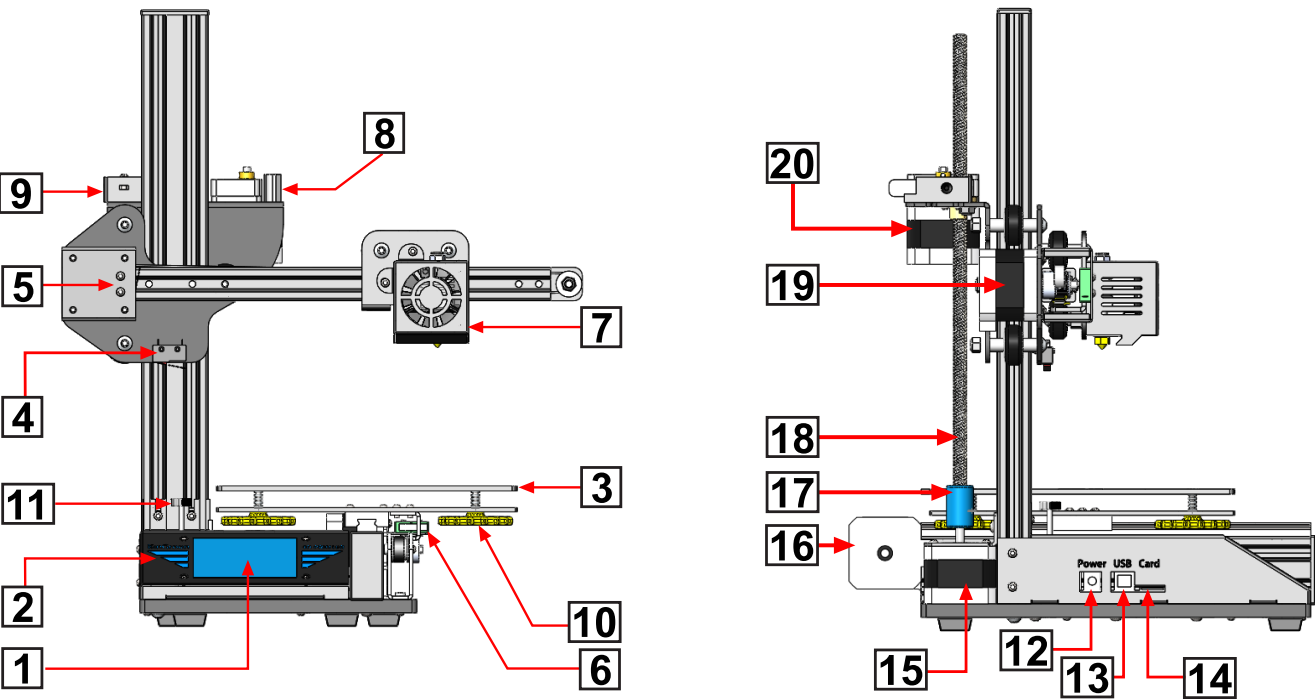
Notes:

Any Changes or modifications that are not approved by the authorities may prevent the user from operating the printer.

In order to use the product correctly, please read the manual completely before used it.

Select the correct input voltage to match your local mains (220V or 110V).

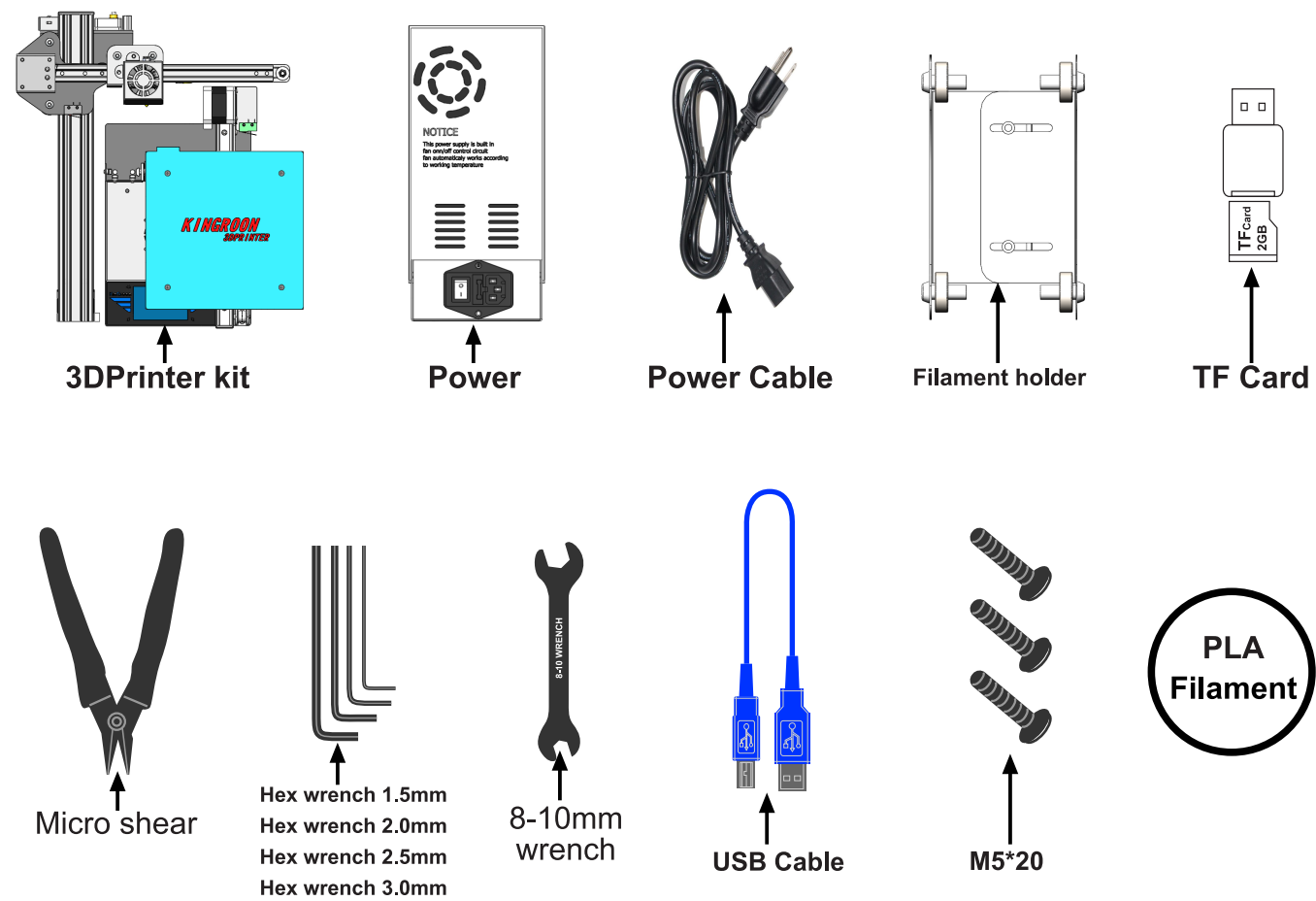
1.Product description



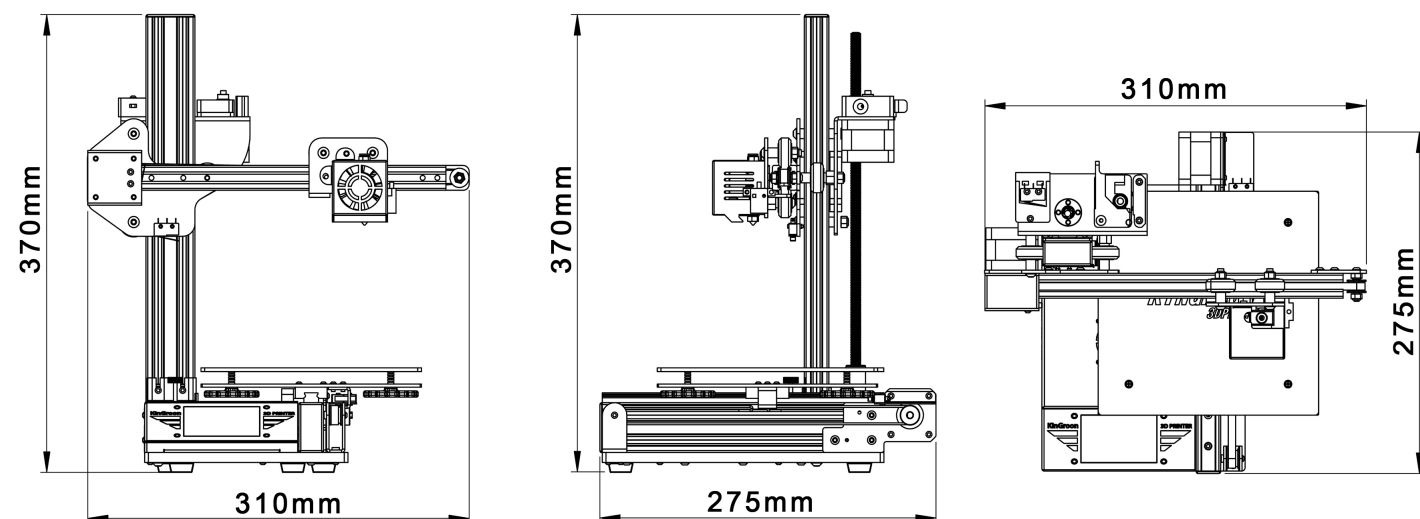
1. LCD Touch Screen
2. Mainboard control box
3. Heatbed
4. Z-axis limit switch
5. X-axis limit switch
6. Y-axis limit switch
7. Nozzle Part
8. Extruder
9. Filament Motor
10. Yellow Leveling Nut
11. Z leveling Nut
12. Power DC Port
13. USB Port
14. TF Card Port
15. Z-axis Motor
16. Y-axis Motor
17. Z-axis Coupling
18. Z-axis Thread Rod
19. X-axis Motor
20. E-axis Motor

Model Number	KP3
Printing Size	180*180*180mm
Machine Size	275*310*370mm
Net Weight	6kg
Nozzle Quantity	1
Print resolution(layer thickness)	0.1-0.4mm
Nozzle Diameter	0.4mm
Filament Diameter	1.75mm
Applicable Filament	PLA/Wood
Nozzle Temperature	260°C maximum
Hotbed Temperature	110°C maximum
Supported File Types	STL/OBJ/AMF
Print Via	USB cable and TF card
Software	Cura/Slicer/Repetier-Host
System Compatibility	Win XP/7/8/10,Mac, Vista, Linux
Screen Language	CN/EN/RU/ES/FR/IT
Movement Speed	200m/s maximum
Print Speed	100m/s maximum
Resume printing after a power outage or lapse occurs	Support
Filament Shortage Detection	Support
Auto leveling	Not Support
Machine Power	240W
Input Voltage	220V-50hz 110V-60hz
Power Supply	24V/15A/360W

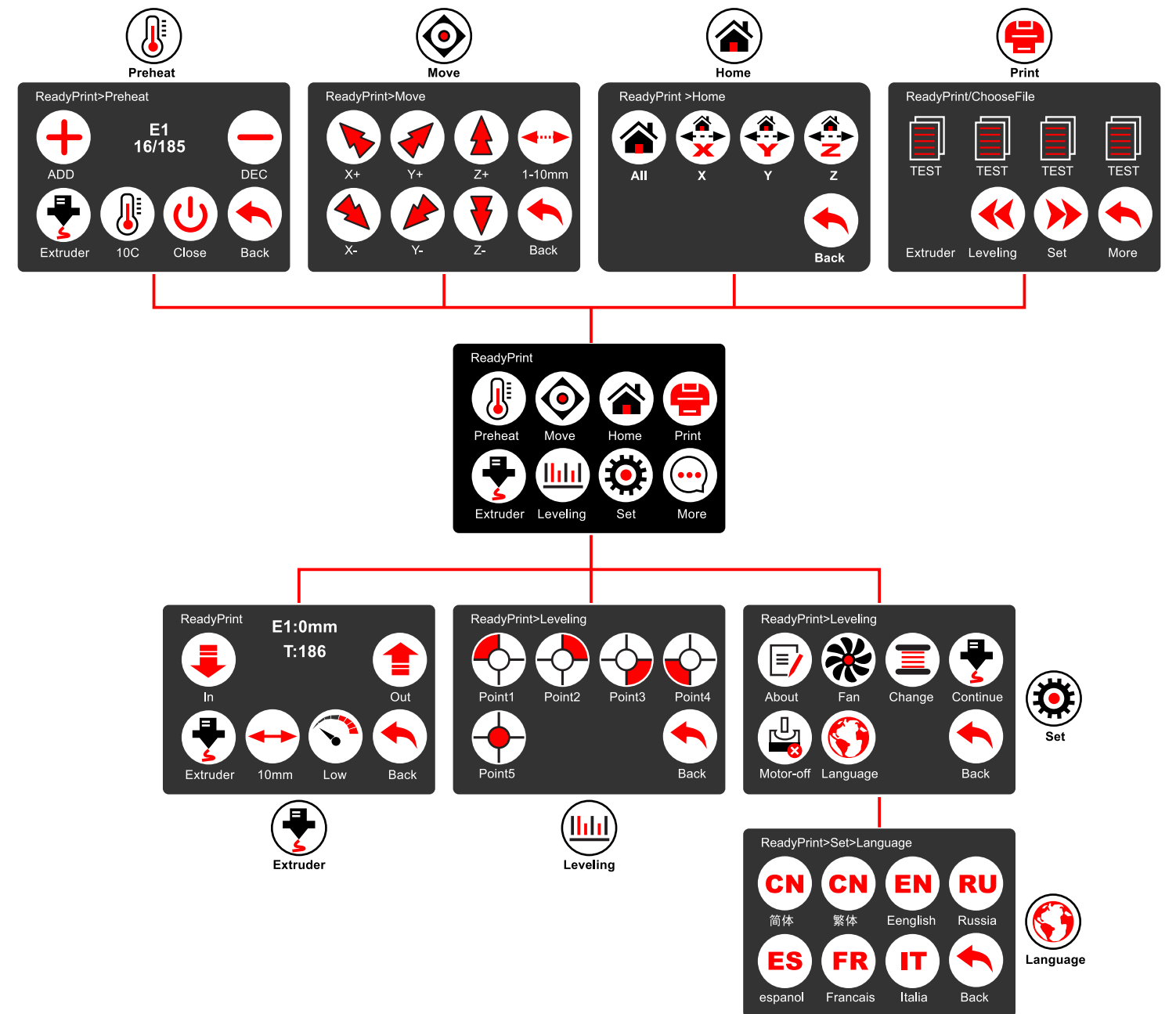
2.Packing list



3.Product size



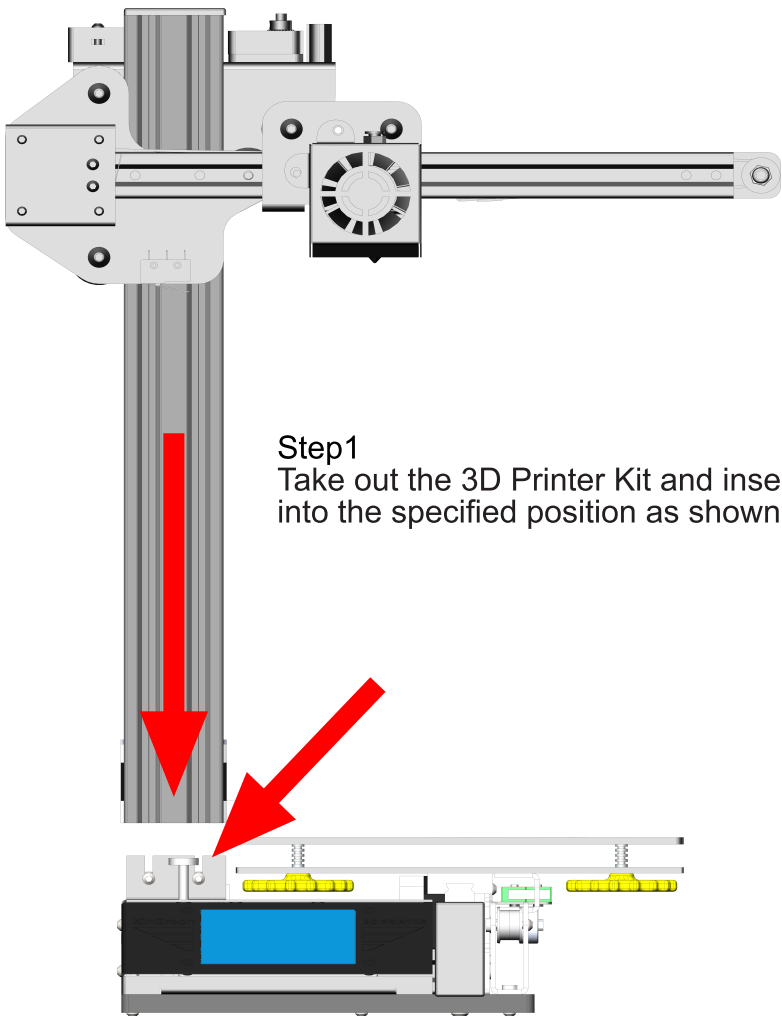
4.Touch Screen Introduction



Ready to Print

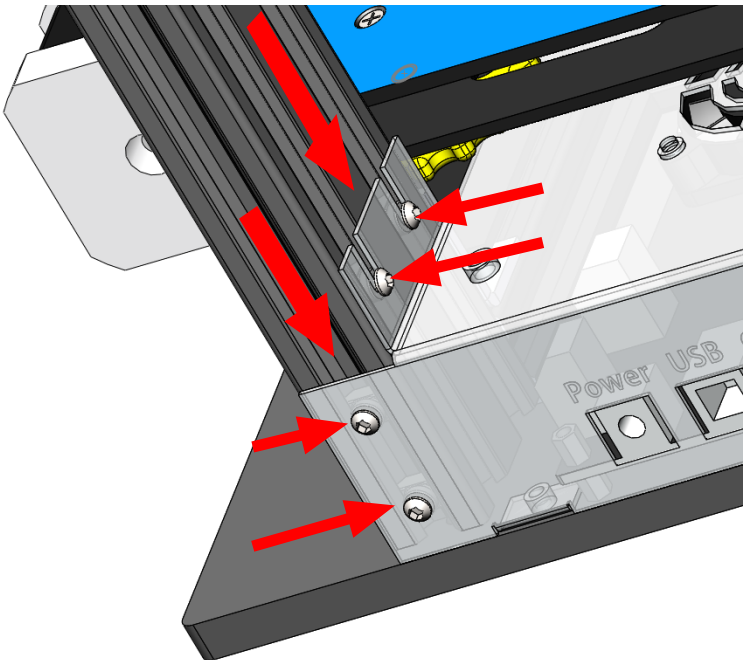
1. Preheat: Preheat the nozzle and heatbed.
2. Move: Select the axis and adjust the distance.
3. Home: XYZ axis move to the starting position (0 point).
4. Print: Select G-code and start to print.
5. Extruder: Extrude/exit filament, control the length and speed.
6. Leveling: Five-point assisted adjustment.
7. Set: About Fan control/ automatic refill/ Continue/ Motor off/ Language settings/ Back
8. More

5.Assembly Instructions

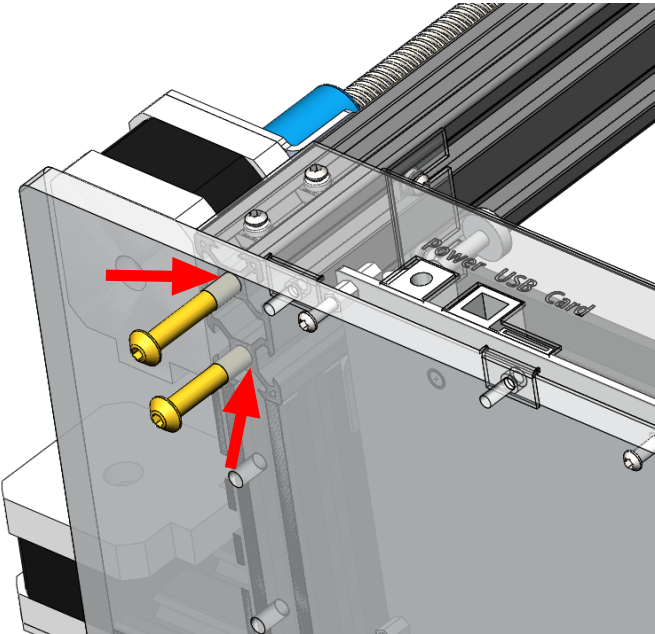


Step1
Take out the 3D Printer Kit and insert it into the specified position as shown.

Step 2
Please insert the T-nut into the profile.

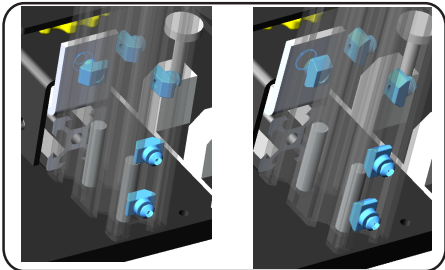
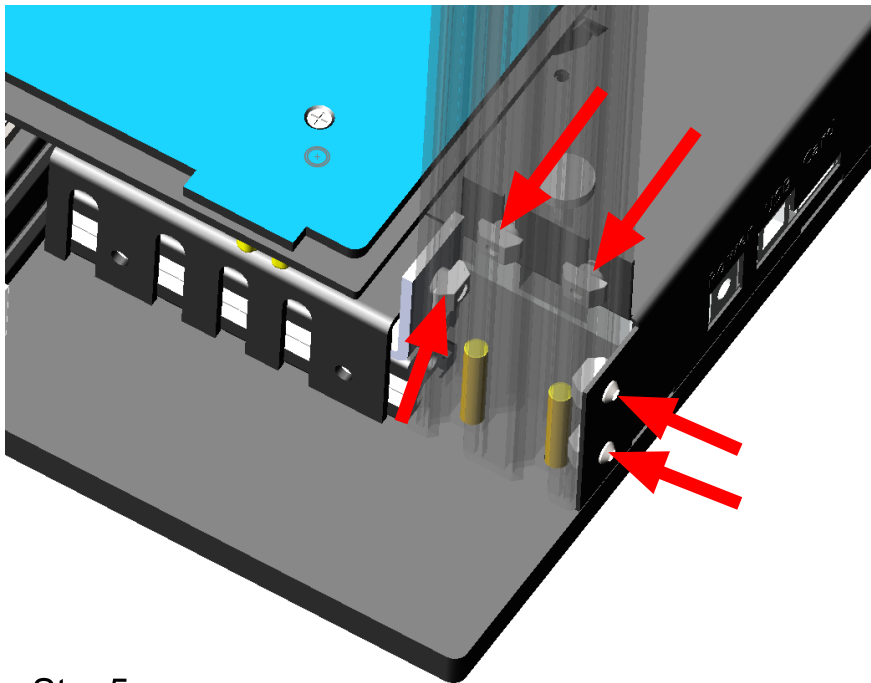


Step 3
Take out the 3# hex wrench and fix the xz axis from bottom with the M5 screws, after all the screws are installed, tighten them up.



5.Assembly Instructions

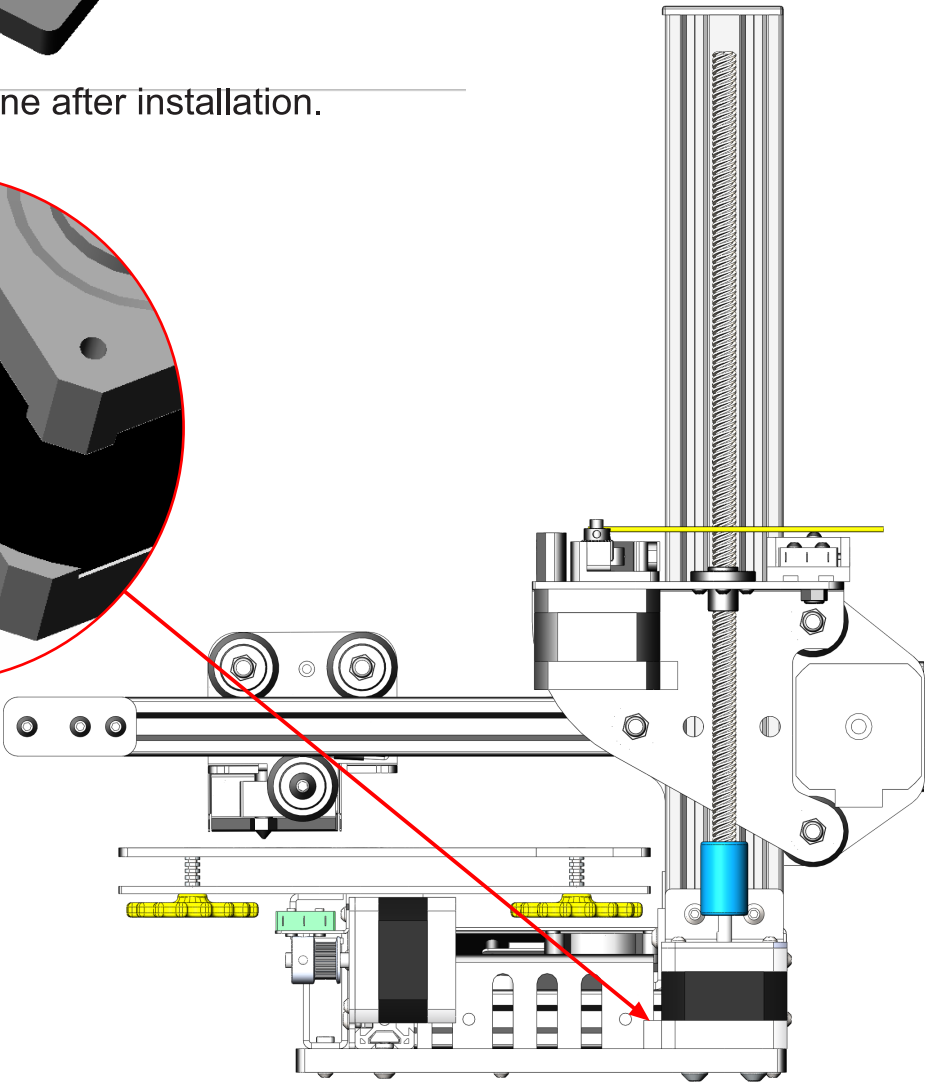
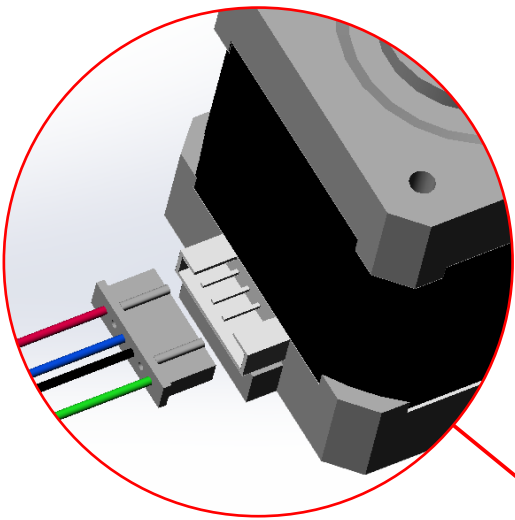
Step 4
Take out the 2# hex wrench to lock the screws on Sheet metal and profile. Please pay attention to the matching direction of the T-nut with the profile.



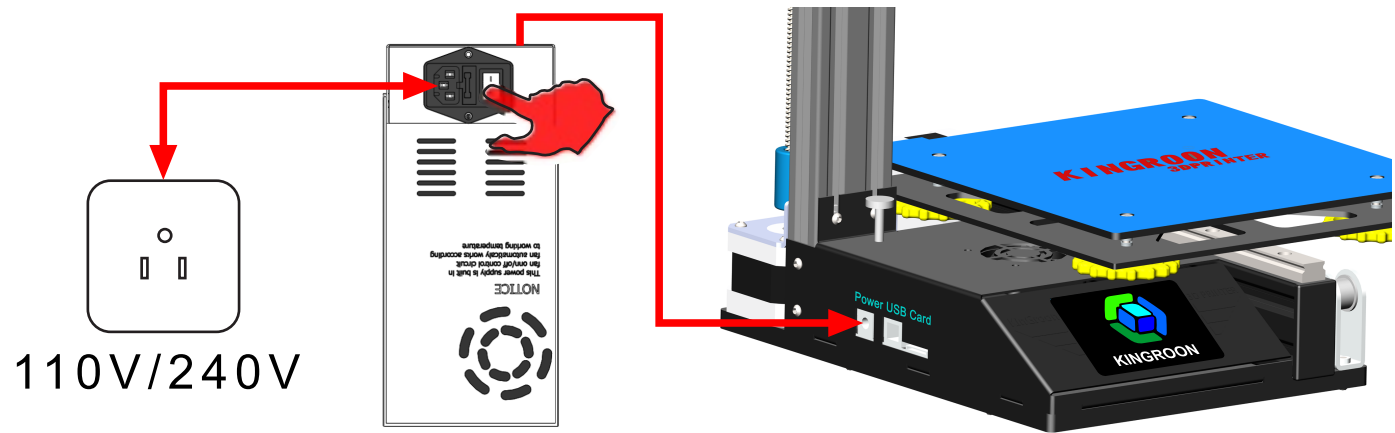
✓
Correct

✗
False

Step5
Contact Z-axis motor line after installation.



6.Operation usage instruction



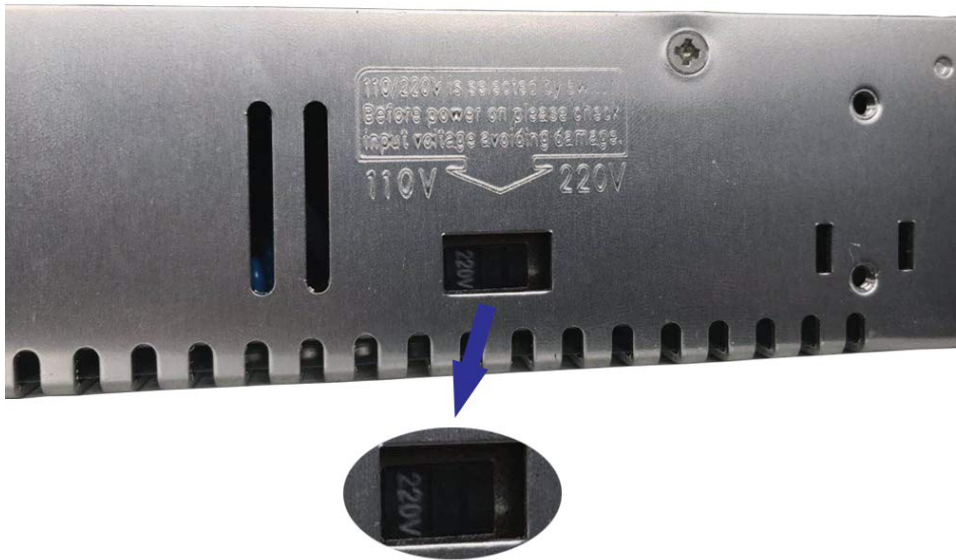
ReadyPrint

Preheat Move Home Print

Extruder Leveling Set More

Error

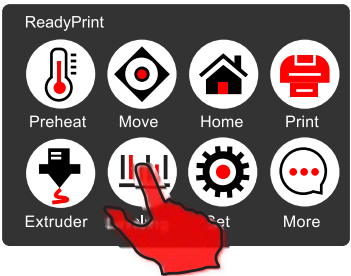
Contact the power and turn on the power switch to start the 3D Printer.
If the Touch Screen display prompts an error message after booting,
please contact with the customer service team.



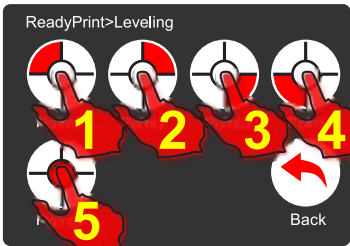
**Note:Pls switch the power adapter
from 220V to 110V**

7.How to calibration!

Step 1: Click Leveling to adjust the distance between nozzle and heatbed.



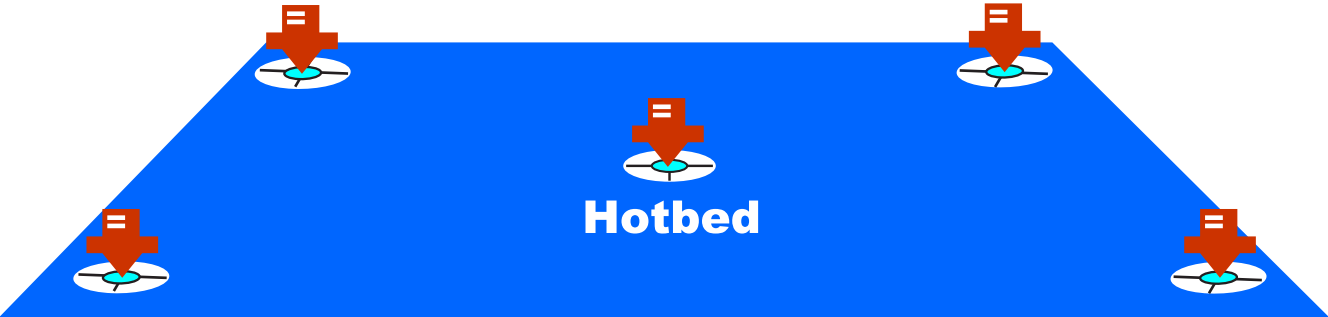
Step2: Click on the five points to see the distance between the nozzle and the hotbed, and adjust the yellow nut slightly for calibration.



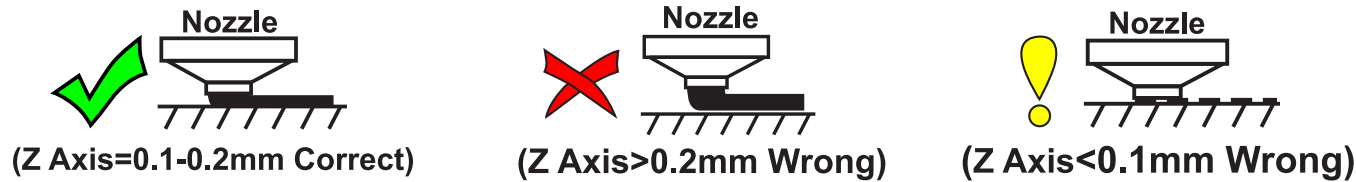
Step1:
Adjust the distance between the nozzle and the platform by T-screw

The correct distance is 0.1-0.2mm, which can be adjusted by using ordinary A4 paper for assistance.

Step2:
Adjust the distance between the platform and the nozzle by the yellow nut

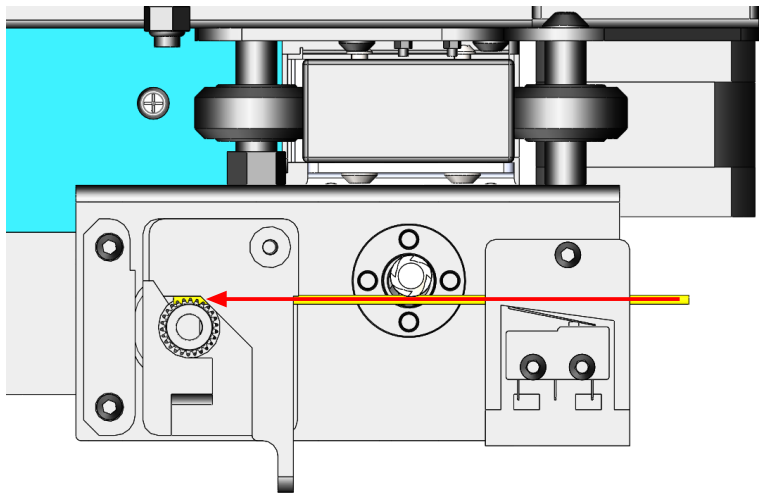


- 1.The distance between nozzle and platform is from 0.1mm-0.2mm, the squeezing filament is able to stick to the platform perfectly. Then go on printing.
- 2.The distance between nozzle and platform is less than 0.1mm, the nozzle is not able to squeeze filament completely. Please adjust the the yellow nuts below the platform until to an appropriate distance.
- 3.The distance between nozzle and platform is over than 0.2mm, the squeezing filament is not able to stick to the platform. Please adjust the the yellow nuts below the platform until to an appropriate distance.



8.Filament insertion

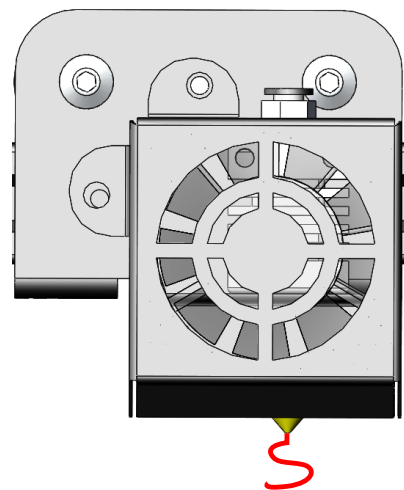
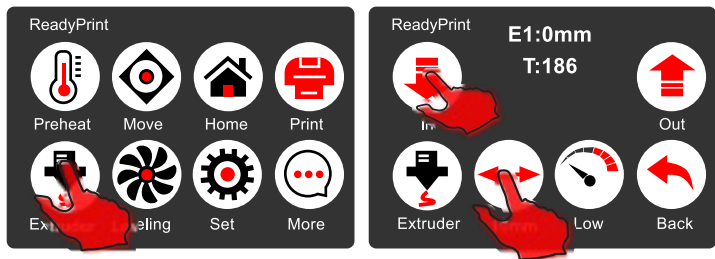
Step1 Insert the Filament into Storage detection switch,then into Extruding gear.



Step 2 Preheat the nozzle up to 180°C or above.



Step 3 Click “ Extruder-in” button repeatedly

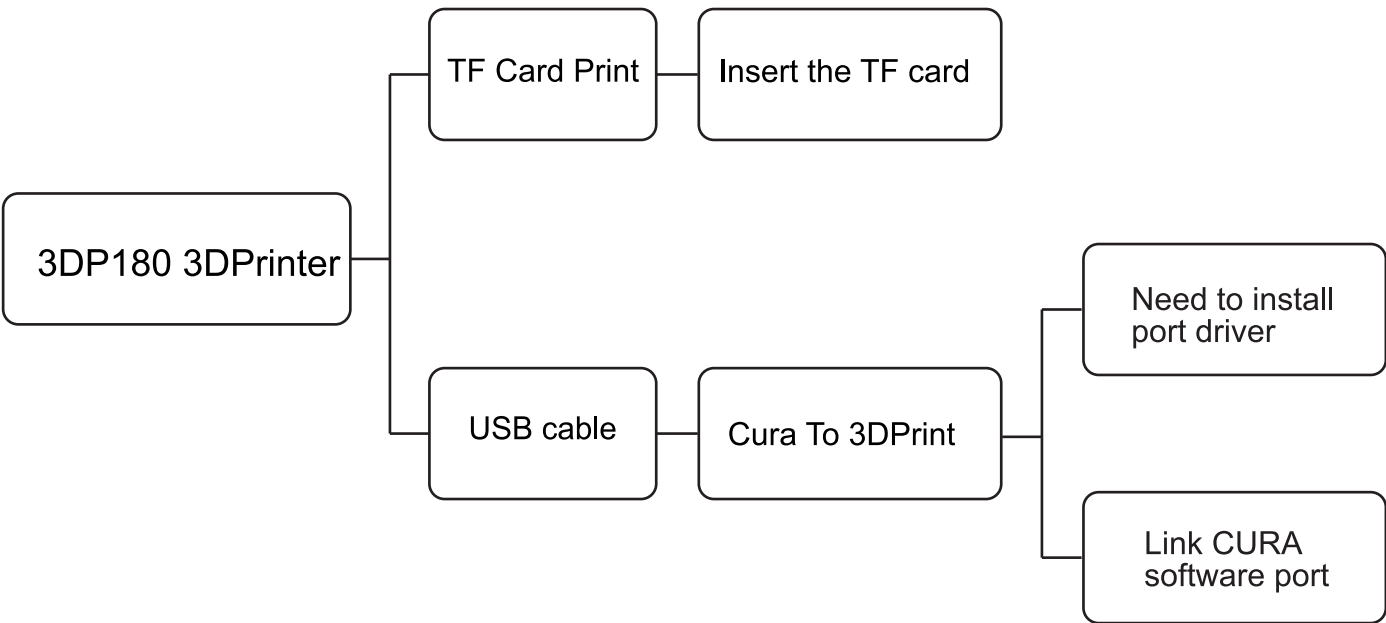


Step 4 If the melt filament flow out from nozzle smoothly and continuously, it means the installation is successfully.

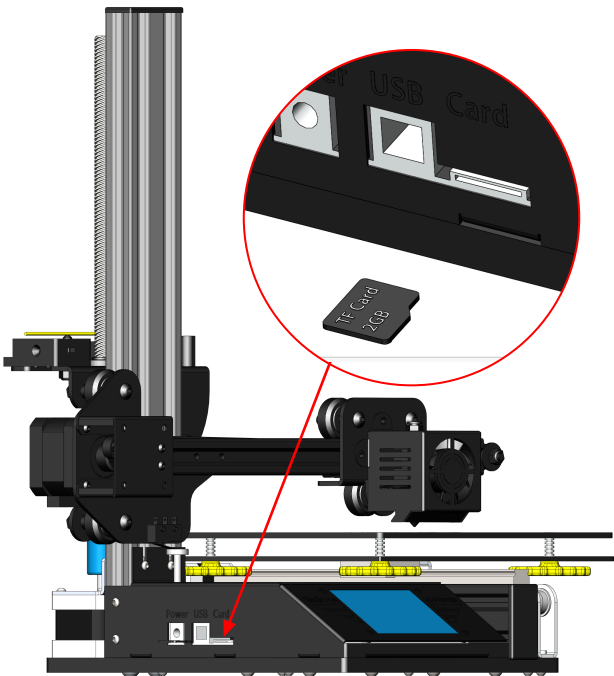
9.How to the Printing

Printing method: Online printing and TF card printing

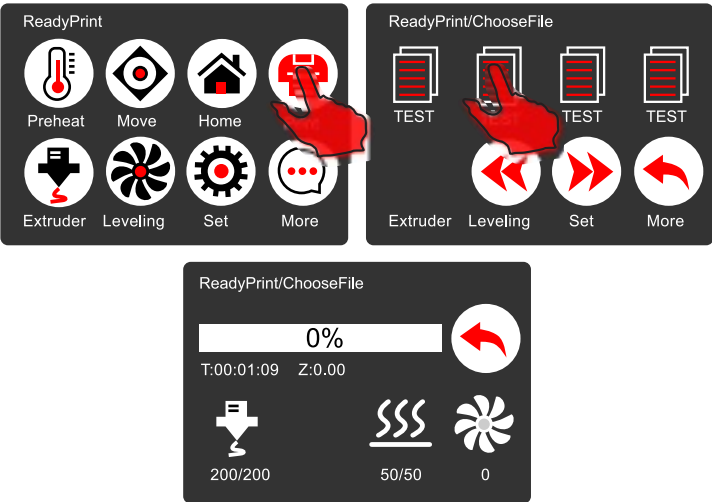
- 1. Online printing:The computer connects to the printer via the USB port, and the chip software, for example Cura, is used to control the printer work. Due to the fact that it's easy to be interfered and interrupted via the USB cable, this way is not highly-recommended.
- 2. TF card printing: After Leveling, insert the TF card into the printer and select the file to print by touching the LCD screen.



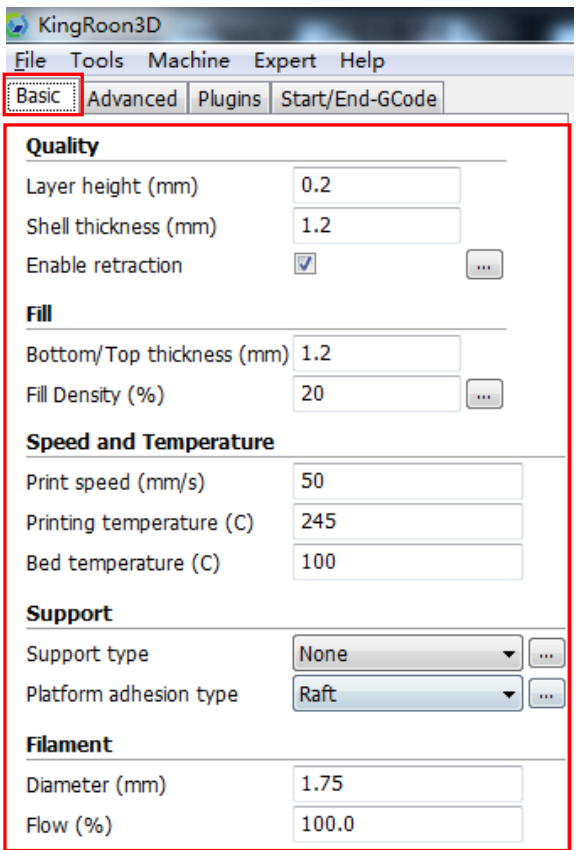
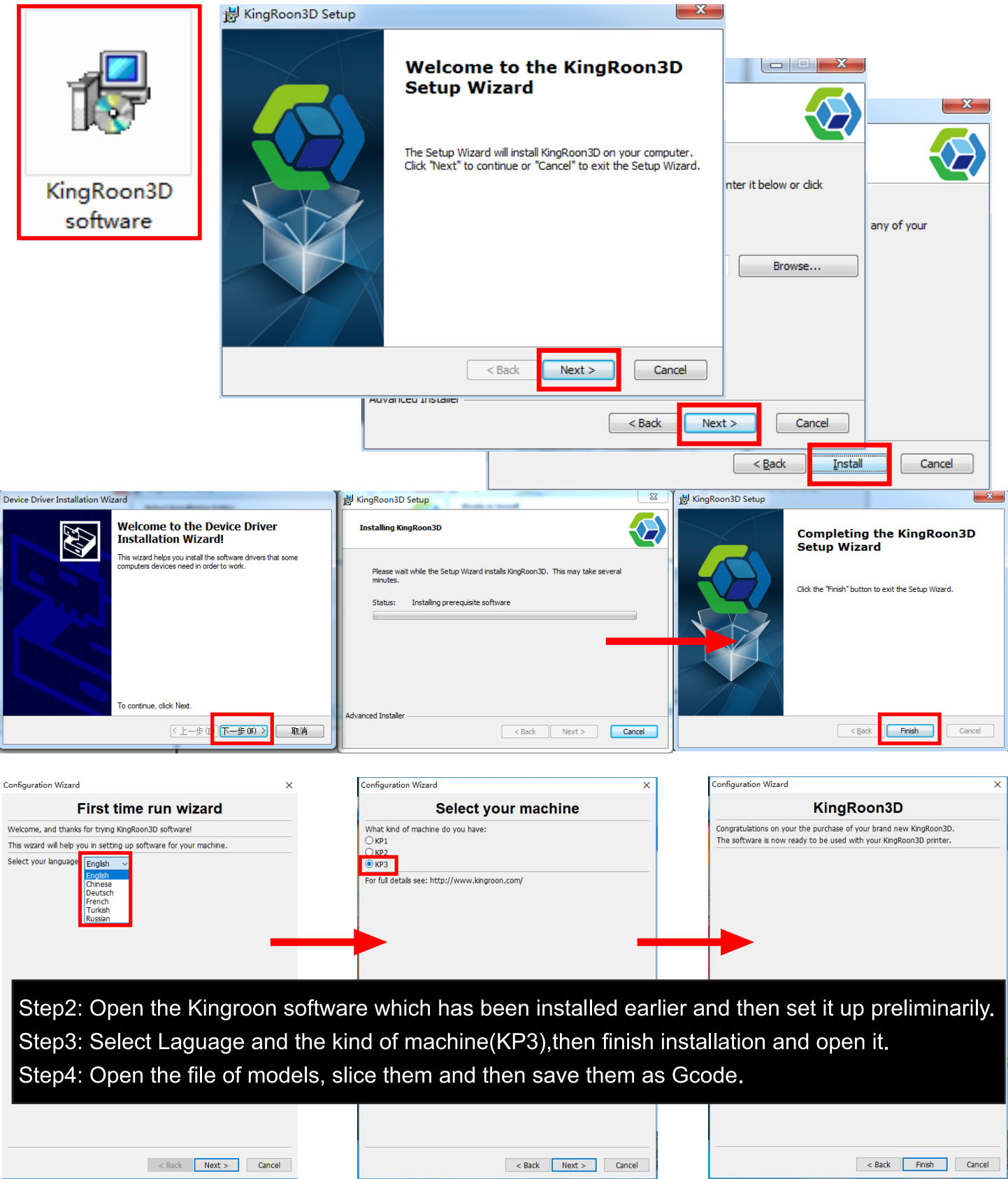
Step1:
Insert the TF card into the port.



Step2:
Click”Print” button, choose a printing file to print.

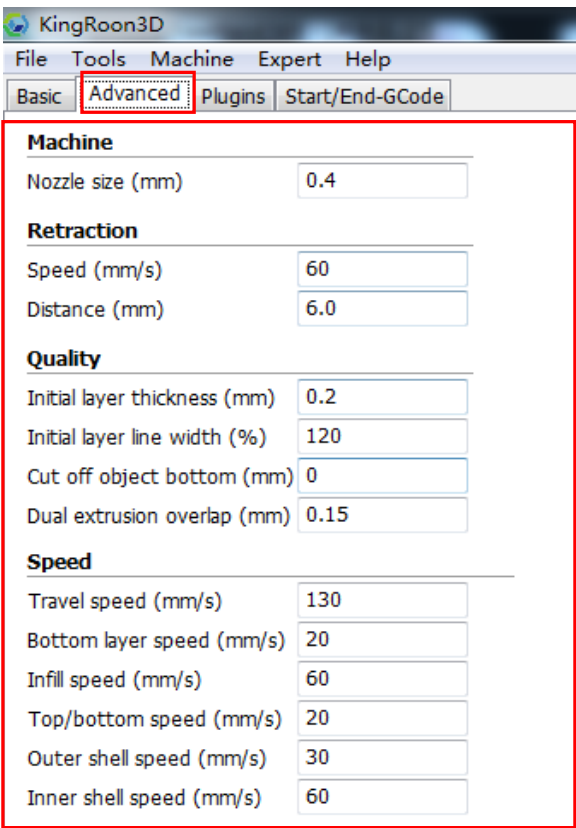


Step1: Find the software in the TF card and then install it according to the guidance. Please see the following pictures.



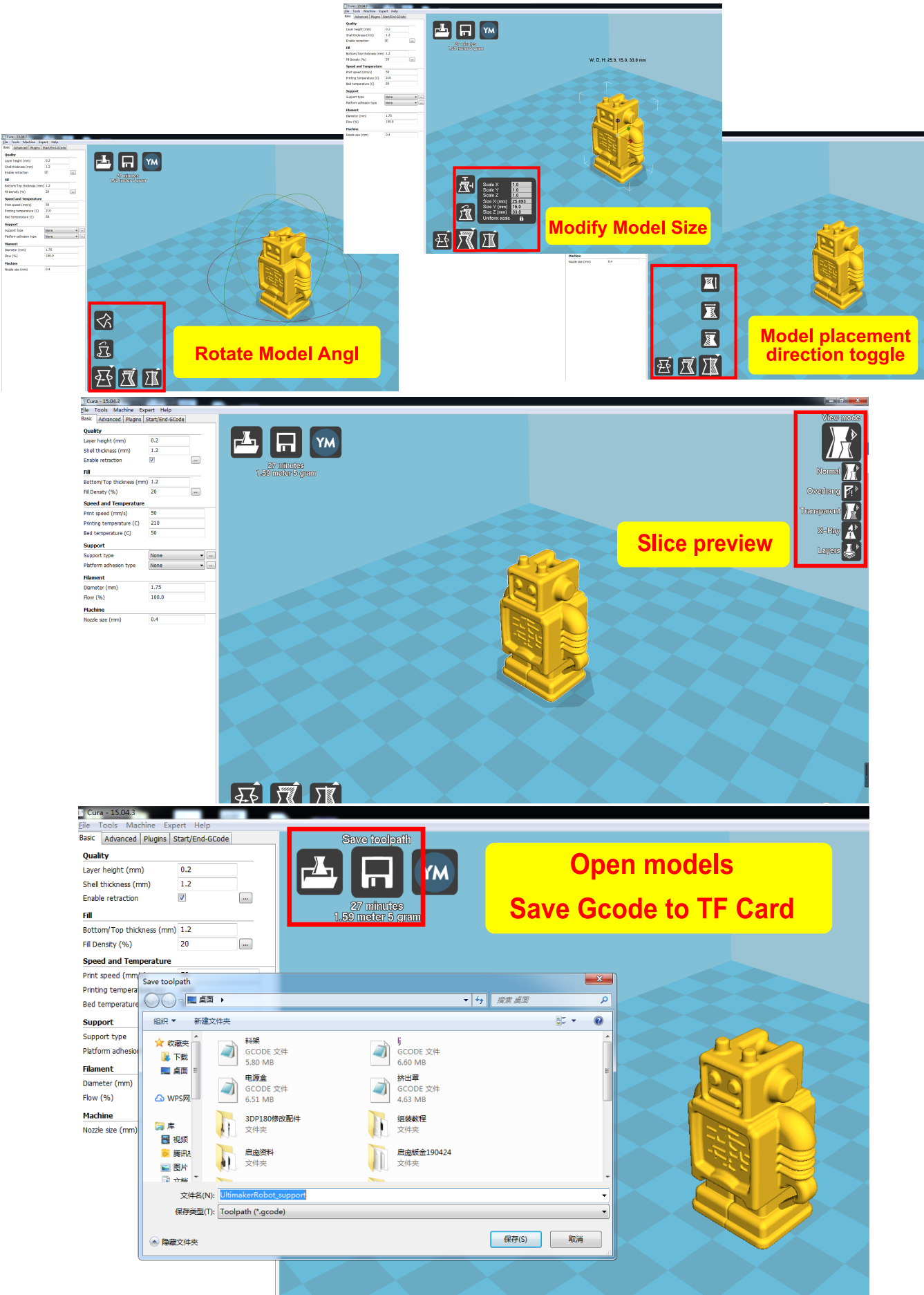
Basic setup

Layer height(mm) 0.05-0.3mm,0.2mm recommended
Shell thickness(mm)0.8-1.6mm,>0.8mm
Bottom/Top thickness(mm)0.8-1.6mm,>0.8mm
Fill Density(%)0-50,>0
Print Speed(mm/s)30-150mm/s,30-50mm/s recommended
Printing temperature:190-220°C (PLA) 220-250°C (ABS)
Bed temperature:40-60°C (PLA) 80-100°C (ABS)
Support type: Models support type
Platform adhesion type:Make models and Bed better attached
Filament Diameter(mm):1.75
Flow(%):100.0
Machine Nozzle size(mm):0.4



Advanced setup

If stringings appear during printing process,
Please modify the retraction.
Retraction Speed(mm/s):40-80mm/s
Retraction Distance(mm):4-8mm
About Quality,Speed, Cool, you can keep their
default parameters.



Frequently asked questions

Safety Instructions

Note:Each 3D printer has been tested before leaving the factory. If there is a little filament remaining in the nozzle or a slight scratch on the printing platform, it is normal and it will not affect the performance.

Safe Working Environment

The KINGRRON 3D Printer should be equipped with an original transformer or power supply. Otherwise, the machine could be damaged or even cause a fire.

Always place the printer on a stable base where it cannot fall of tip over.

Please ensure the printer is far away from flammable gas, liquid and dust while it is being operated. (The high temperature generated by the operation of the printer may react with the dust, liquid or flammable gases in the air, which may cause a fire.)

The ambient temperature recommended for using the printer is 10°C-30°C, and the humidity 20%-70%. Using the print outside theses ranges may cause poor printing results.

Please never expose the printer to moisture or heat. Never use the printer during an electrical storm. The printer is for indoor-use only.

If you are not suing the printer for a long time, please turn off the printer and unplug the power cord.

Safety Manual

1. When the printer is working, DO NOT TOUCH the heat generating parts,NOT even with gloves, as the extreme heat can melt the gloves causing severe burns. WARNING: THE NOZZLE TIP CAN HEAT TO 260 °C AND THE PRINT BED CAN HEAT TO 100°C.
2. DO NOT TOUCH any working parts while printer is printing. The nozzle tip and other mechanical parts will run at high speed. Contact with any running parts may cause damage and injury.
3. When printing with PLA or Wood materials ensure the printer is in a well ventilated environment, due to the fumes released by the plastic materials.
- 4.NEVER allow children or untrained people to operate the printer.

Daily Maintenance

Please do dust removal maintenance and lubricate the printer every month. If you are not using the printer for a long time, please remove the filament and keep the storage environment dry, dust-free. The printer should place in a temperature-stable environment. The sudden drop in temperature can affect the printing quality. When the print nozzle is squeezing, please make sure there is enough space between the nozzle and the platform; otherwise the nozzle will be blocked.

- 1.Clean/Maintain the print platform, replace the tape if used.
- 2.Preheat the nozzle and extrude a small amount of filament.
- 3.While the nozzle is still hot, use a steel brush on it to clean any excess filament.
- 4.Preheat the print bed and level it.