

Geeetech A20 3D Printer

User Manual (v3.10)



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Thank you for choosing Geetech products!



[Important] Please read the instruction manual carefully before using this machine.



Official site: <https://www.geetech.com/>



Email us for technical support: https://www.geetech.com/contact_us.htm



Facebook Group:



1 Attention

1.1 Safety instructions

- Please switch to the correct local voltage (110V-220V) before turning on the printer. Be sure the switch is in the correct position or it will damage the power supply unit (PSU).



- Be sure all wires are correctly connected before turning on the printer.
- Don't touch the extruder head or hot bed when printing as they generate high temperature which may cause burn.
- Don't leave the printer unattended when printing.

1.2 Factory test before delivery

In order to ensure the quality, each printer is tested in the factory before delivery. As a result, there may be residue in the extruder head or on the hot bed, but it should not affect normal use. We provide the spare nozzle in the accessory kit just in case.

2 Parameters

- **Printing parameters**

Printing technology: FDM

Printing volume: 250*250*250mm³

Printing accuracy: 0.1~0.2mm

Positioning precision: X/Y: 0.011mm Z: 0.0025mm

Printing speed: 60mm/s

Nozzle quantity: 1-in-1-out single nozzle

Nozzle diameter: 0.4mm

Filament: Diameter 1.75mm; ABS/ PLA, etc

Environment temperature: 10°C-40°C

Operating system: Windows/Mac/Linux

Slicing software: Repetier-Host, EasyPrint 3D, Cura

File format: .STL/.Gcode

- **Electrical parameters**

Power input: 115/230V AC, 50/60Hz

Power output: DC24V-15A Max, 360W

Connectivity: TF card, USB

LCD screen: LCD 12864 screen

- **Mechanical parameters**

Printer size: 442x447x480 mm³





Package size: 510x495x305 mm³

Net weight: ~7.8kg

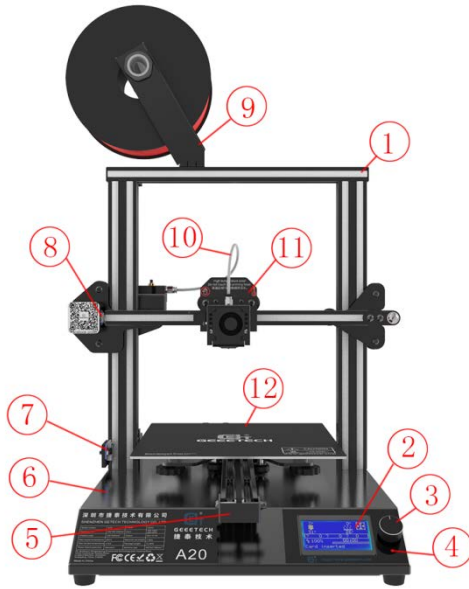
Gross weight: ~10.2kg

3 Packing list

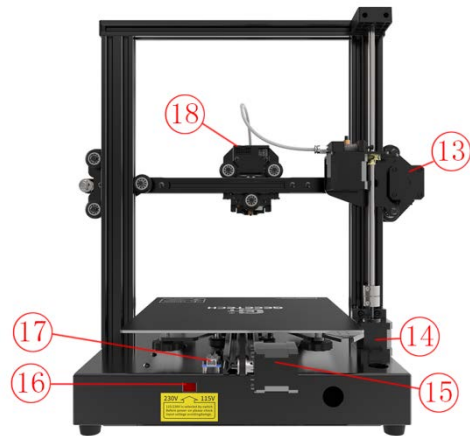
Please check the parts/accessories when you receive the printer (As shown below). If any spare parts are missing, please contact your sales representative.

		
Gantry kit	Bottom kit	Filament holder kit
		
Nozzle*2	Filaments (1 random color)	Teflon tube & Zip ties
		
Power cord	Tool kit	Mouse pad
		
TF Card	Machine installing screws	User guide
		
USB cable		

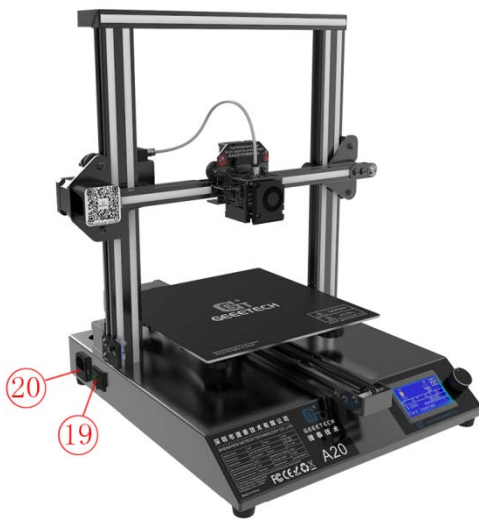
4 Machine Overview



(Picture 4-1)



(Picture 4-2)



(Picture 4-3)







(Picture 4-4)

① Gantry frame ② LCD12864 screen ③ Knob ④ Reset button ⑤ Y axis ⑥ Bottom kit ⑦ Z axis end stop ⑧ X axis end stop ⑨ Filament holder kit ⑩ Teflon tube ⑪ Extruder head ⑫ Hot bed ⑬ X axis motor ⑭ Z axis motor ⑮ Y axis motor ⑯ Power voltage selector switch ⑰ Y axis end stop ⑱ Extruder wire interface ⑲ Power switch ⑳ Power socket ㉑ USB port ㉒ TF card slot

5 Assembling

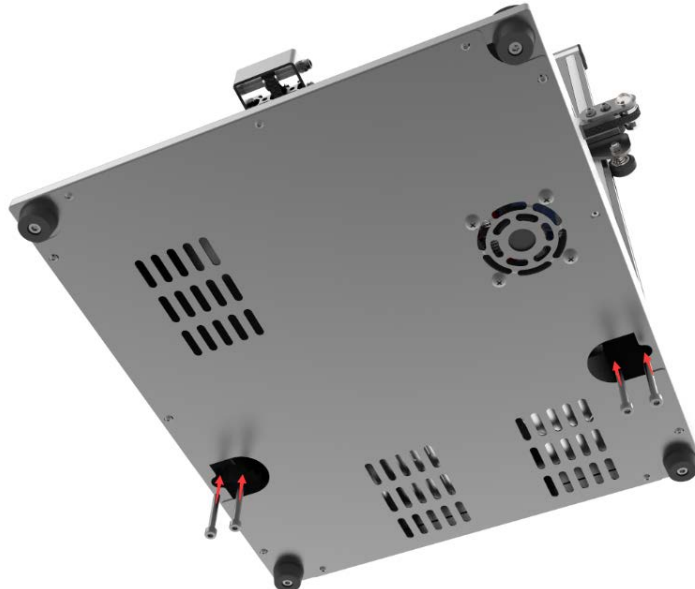
5.1 Assembling the main frame

The main frame consists of the gantry kit and the bottom kit, filament holder, and screws. See picture (5-1).

		
Gantry kit	Bottom kit	Filament holder kit
		
Machine installing screws	Tool kit	

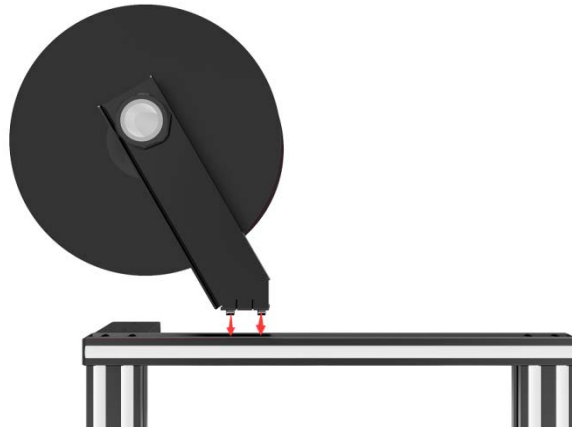
(Picture 5-1)

- Assemble the gantry frame and base from bottom to top with 4 M5x30 screws and 4 M5 spring washers. See picture (5-2).



(Picture 5-2)

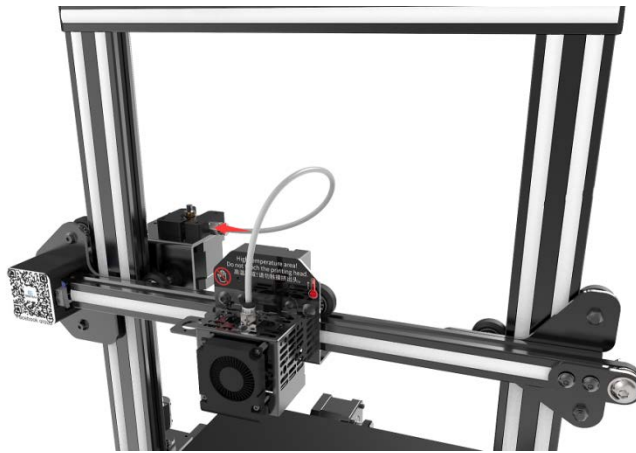
- Assemble filament holder and attach to the top of the frame closing to the extruder side, with 2pcs M3x6 screws and 2 T- nuts M3, as shown picture (5-3).



(Picture 5-3)

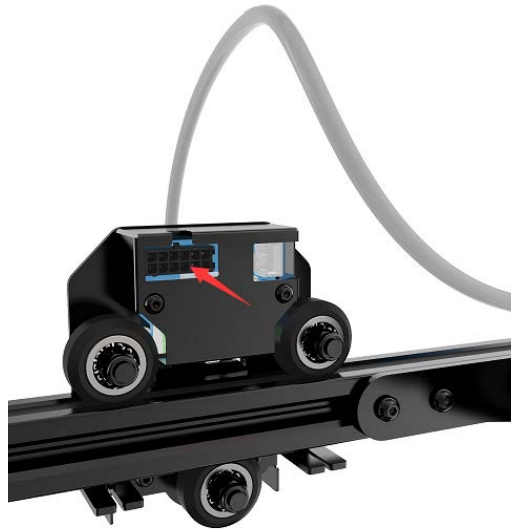
5.2 Wire connection

- Insert the Teflon tube into the quick-insert connector of the extruder. Details see picture (5-4).



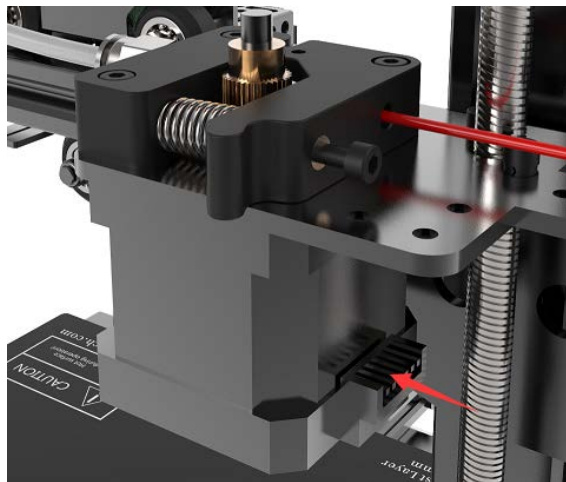
(Picture 5-4)

- Plug the extruder cable into the socket of the extruder head adapter plate, and the buckle must be fastened. See picture (5-5).



(Picture 5-5)

- Connect the motor wires of E0. See picture (5-6).



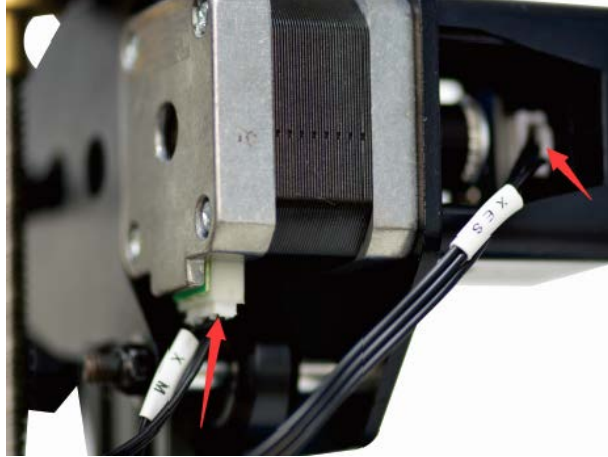
(Picture 5-6)

- Then the extruder wires and the motor extruder wires are fixed into the small hole on the backside of the screw with the Cable tie to avoid the wires harness touching the model during printing. In addition, the position the harness fixed needs to be reserved the length of the Z-axis at the maximum height. See picture (5-7).



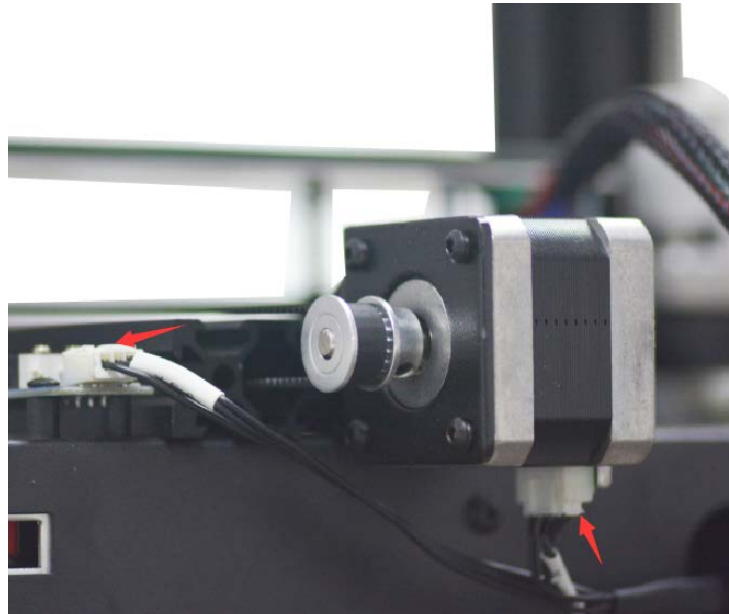
(Picture 5-8)

- Connect the wires of X axis' motor and end stop. See picture (5-8).



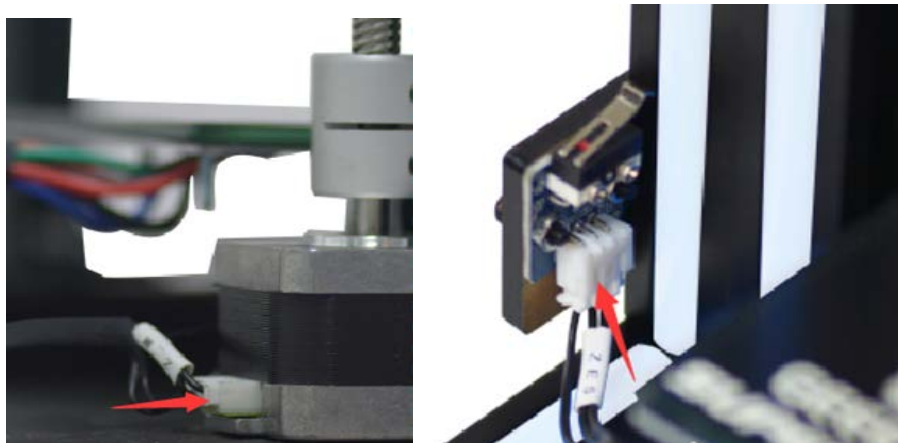
(Picture 5-8)

- Connect the wires of Y axis' motor and end stop. See picture (5-9).



(Picture 5-9)

- Connect the wires of Z axis' motor and end stop. See picture (5-10).

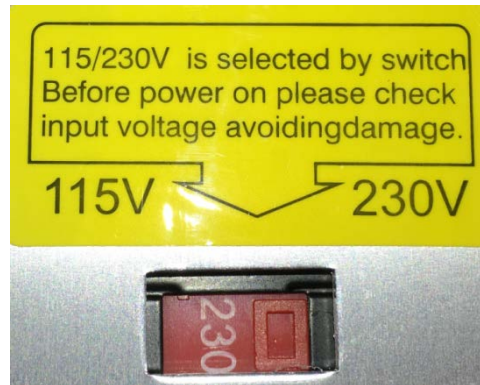


(Picture 5-10)

5.3 Check the power input mode

The factory default voltage is 230V. You need to choose the correct voltage according to your local standard requirement. See picture (5-11)

Note: Be sure the voltage is switched to the correct one.



(Picture 5-11)

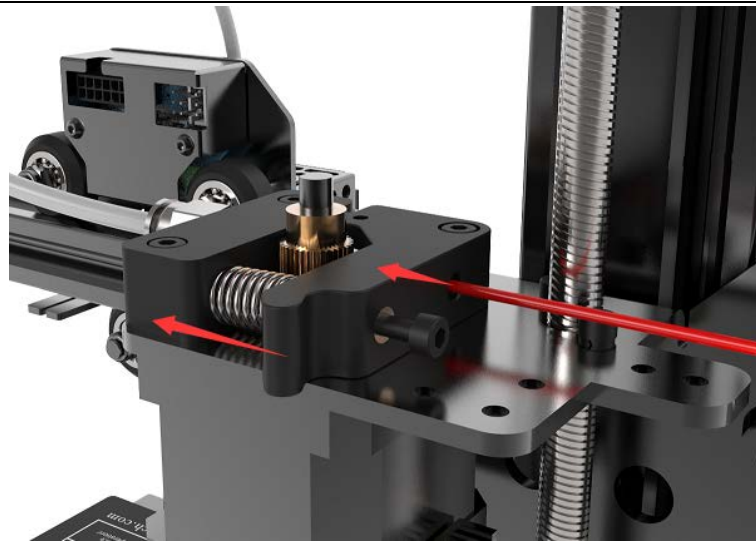
5.4 Check the filament

Put the filament on the spool holder. Please pay attention to the feeding direction of the filament. See picture (5-12).



(Picture 5-12)

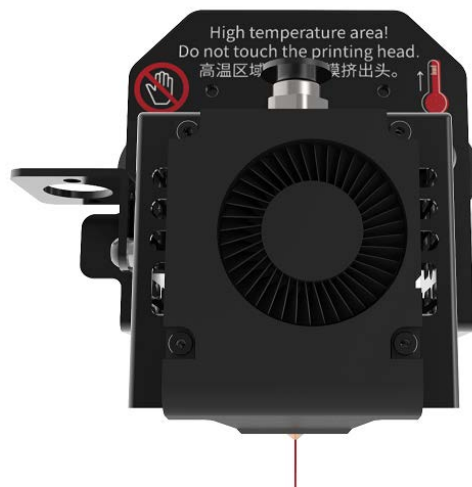
Since the filament is bent, the first section of it needs to be straightened by hand and trimmed to make it easier to insert the filament into the feeder. Press down the lever handle of the extruder and insert the filament into the feeding tube until it reaches the extruder head. See picture (5-13).



(Picture 5-13)

When print PLA, set the target nozzle temperature about (190~210℃). When the temp is stable, control the extruder filament feeding on LCD screen (“Move axis”), feed until there is molten material flowing from the nozzle.

Observe the nozzle, if there is no filament stuck and the filament is coming out smoothly, then stop filament feeding, clear the nozzle with tweezers. See picture (5-14).



(Picture 5-14)

6 First print

6.1 Level the print bed

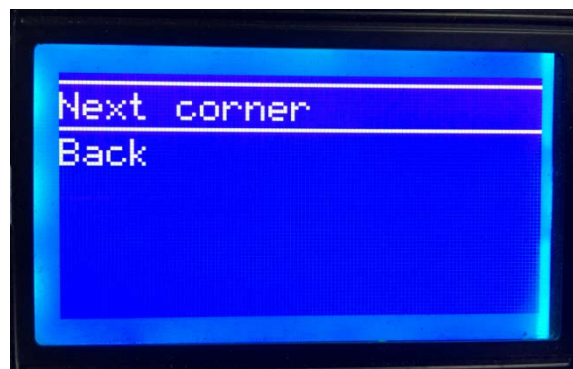
The first layer is basis to a successfully printed model. The factory default setting is a little high in order to avoid scratching the hotbed with the nozzle, so users need to adjust the distance between nozzle and hotbed again. After the first-time bed leveling, users don't need to level the bed again.

- Rough leveling

Home the printer first ("**Prepare**"> "**Auto home**"), then it shows the option "**Level corners**" on the LCD screen. Put a piece of A4 paper on the platform, click "**Next corner**", the extruder head moves counterclockwise from the bottom left corner to the four corners of the platform. See picture (6-1, and 6-2).

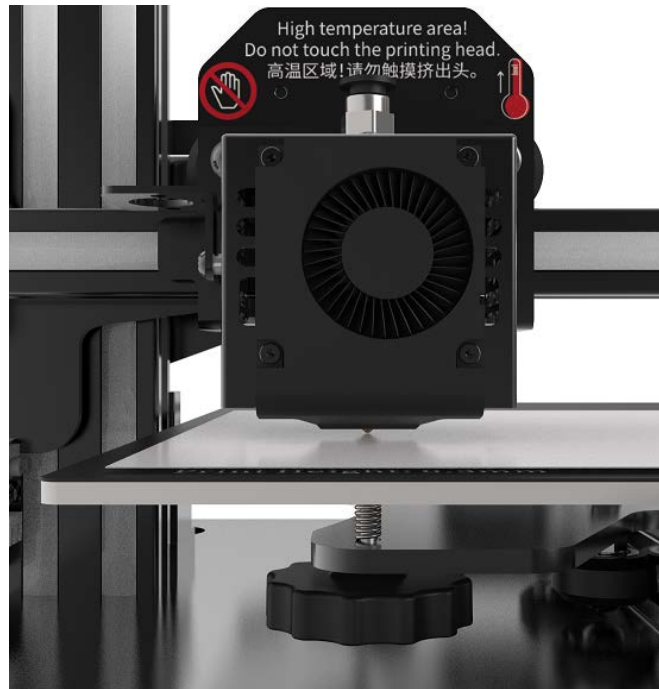


(Picture 6-1)



(Picture 6-2)

When the extruder head moves to the left bottom, adjust the corresponding knob until the distance between the nozzle and bed is about the thickness of a piece of paper (about 0.1-0.2mm). Slide the paper back and forth to see if you feel a slight resistance. If yes, it means the leveling of this corner is finished and you can proceed to level the rest corners with the same method. See picture (6-3).

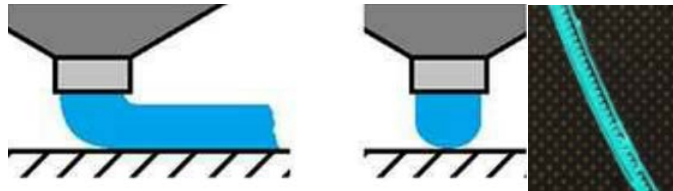


(Picture 6-3)

- Accurate leveling

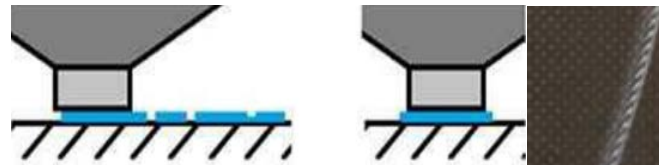
If you level the bed with A4 paper, the first layer maybe too high, too low or moderate.

a. Too high: the distance between the nozzle and bed is too far, which may cause the filament to not stick or not stick well. See picture (6-4).



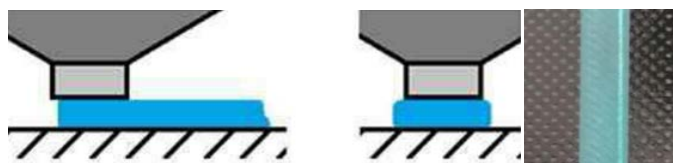
(Picture 6-4)

b. Too low: the distance between the nozzle and the bed is too close, which prevents the filament from coming out and causes the extruder gear to click, and even worse, scratch the nozzle on the bed. See picture (6-5).



(Picture 6-5)

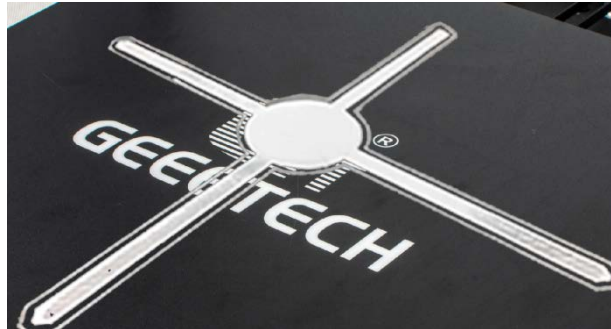
c. Moderate: Extrude the filament properly and evenly stick on the bed. See picture (6-6).



(Picture 6-6)

In the case of too low and too high, adjust the knobs under the platform till they are moderate. It

may take some trial and error to achieve the best result. An example of good first layer, see picture (6-7).



(Picture 6-7)

Note:

- If turn the knobs clockwise, the platform will rise, and vice versa.
- Avoid the nozzle touching the bed; use a piece of A4 paper. Or it will scratch the bed.

For more details, please refer to this link:

<http://geetech.com/forum/viewtopic.php?f=112&t=62296>

6.2 TF card printing

Insert the TF card into the slot. See picture (6-8).



(Picture 6-8)

Press and rotate the knob to enter the main menu. Select the option of "Print from SD". See picture (6-9).



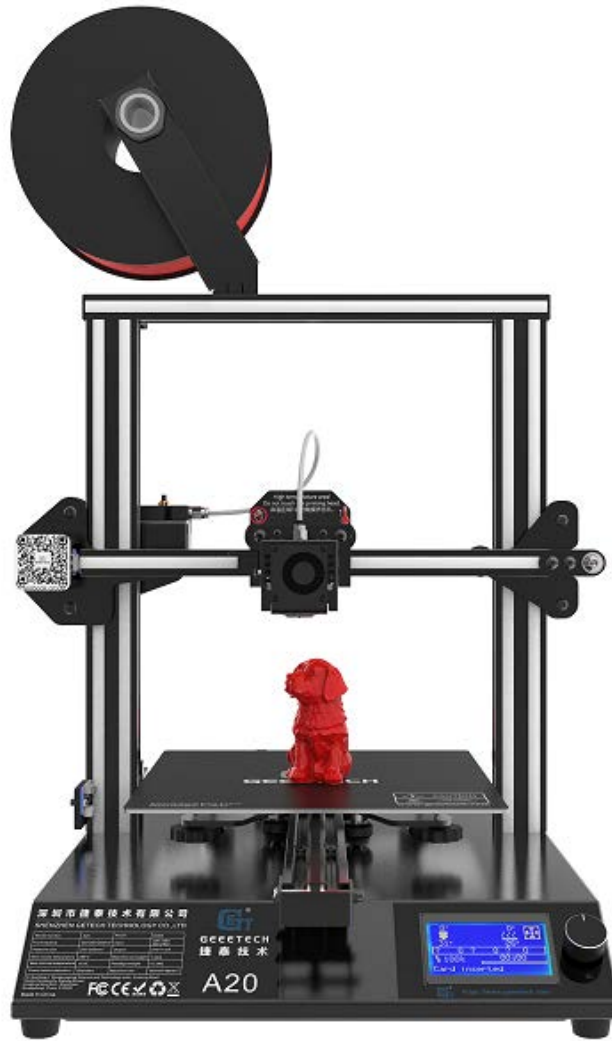
(Picture 6-9)

Choose the files in the TF card. See picture (6-10).



(Picture 6-10)

The printer will heat automatically. When **heating done**, the printer will start printing until the print is complete. See picture (6-11).



(Picture 6-11)

7 Introduction to the LCD menu

7.1 Tree diagram



(Picture 7-1)

7.2 Main functions

LCD rotating knob:

- Press the knob: Confirm or enter the next menu.
- Rotate the knob: Roll the select options or change parameters.

LCD homepage, see picture (7-2):

1. Extruder temperature: Current temp/target temp

2. Hot bed temperature: Current temp/target temp
3. Extruder head blower status
4. Current coordinate value
5. Printing process
6. Current printing info
7. Feed rate: Current printing speed

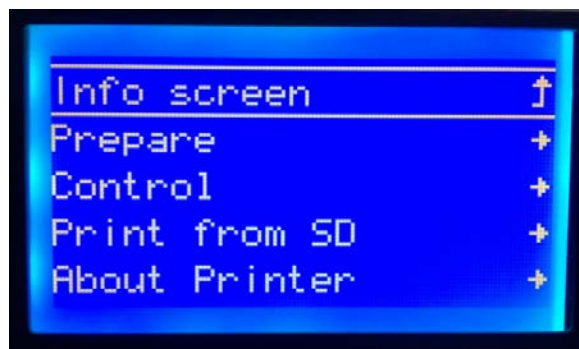


(Picture 7-2)

Note: Rotating the knob can change the printing feed rate during printing. We suggest users not changing the feed rate too much or it will make the motors to skip caused by too fast speed and affect the print quality.

Press the knob to enter the next menu (Picture 7-3):

- Prepare: Prepare and test the printer before normal operation
- Control: Printer temp and motion parameter setting
- Print from SD: TF/SD card printing
- About Printer: The printer info

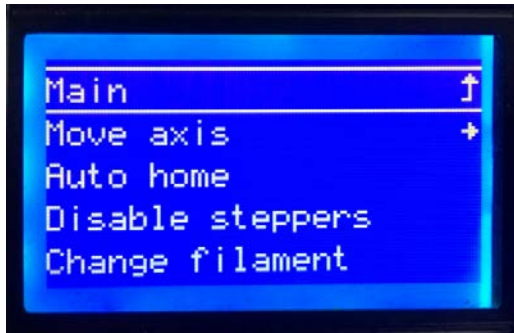


(Picture 7-3)

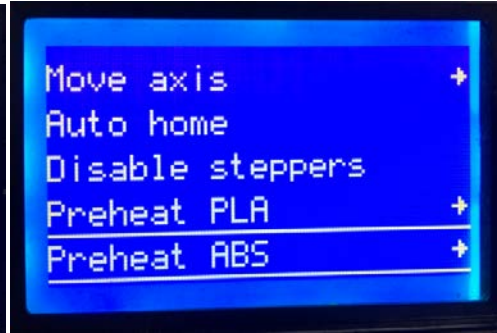
The main functions of Prepare menu (Picture 7-4, 7-5):

- Move axis: Move X/Y/Z axis and Extruder
- Auto home: X/Y/Z axis auto homing
- Disable steppers: Unlock motors
- Change filament: Change filament

- Preheat PLA: Manually pre-heat the hot bed and extruder before printing PLA.
- Preheat ABS: Manually pre-heat the hot bed and extruder before printing ABS.



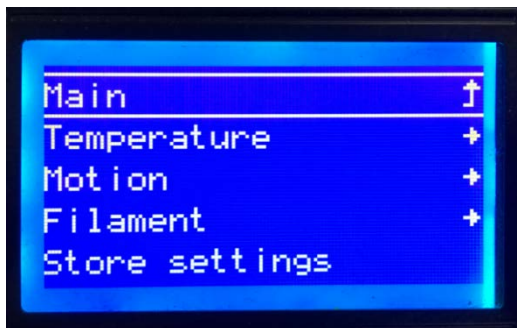
(Picture 7-4)



(Picture 7-5)

The main functions of Control menu (Picture 7-6, 7-7):

- Temperature: Change the temp of the hot bed and extruder in real time during printing. Customize the temp of preheat PLA and preheat ABS.
- Motion: Motion parameter setting in firmware. After modification, choose “store memory” to save the change.
- Filament: Open or close filament detector; set filament diameter.
- Store settings: Save the parameters modified.
- Load settings: If you need to restore to the original settings, please choose this option.
- Restore failsafe: Restore factory setting.
- Initialize EEPROM: Initialize printer Settings



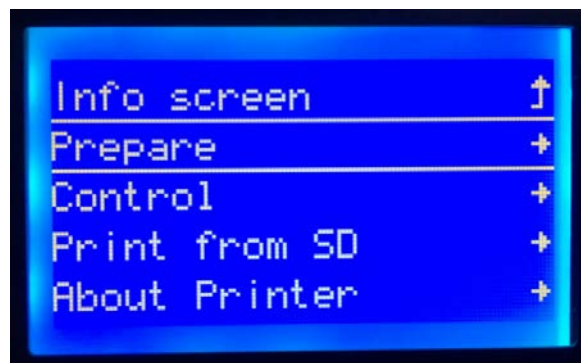
(Picture7-6)



(Picture 7-7)

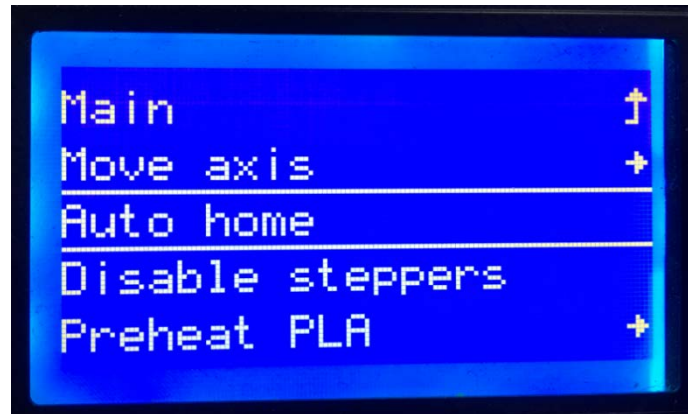
Test the motors' function via LCD

Press the knob to enter the next menu; choose “**Prepare**”. See picture (7-8).



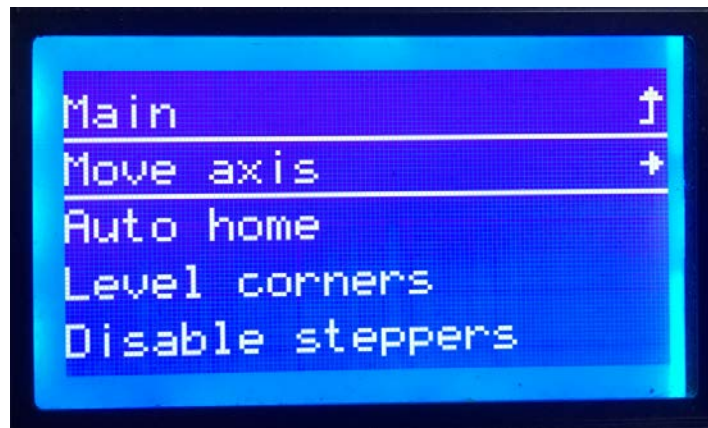
(Picture 7-8)

Choose **"Auto home"** to home the printer, see picture (7-9).



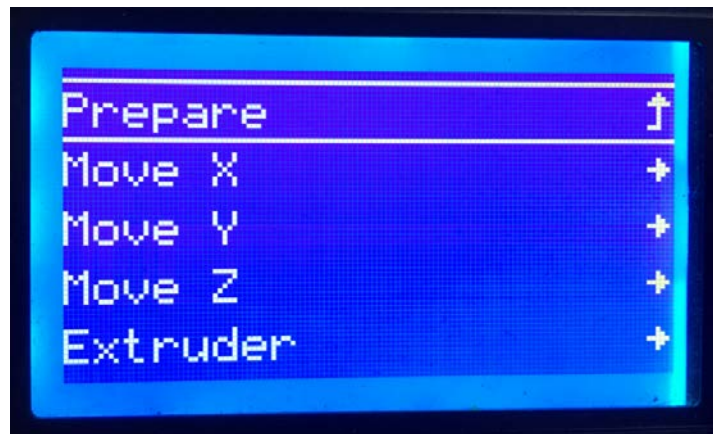
(Picture7-9)

Choose **"Move axis"** to move motors. See picture (7-10)



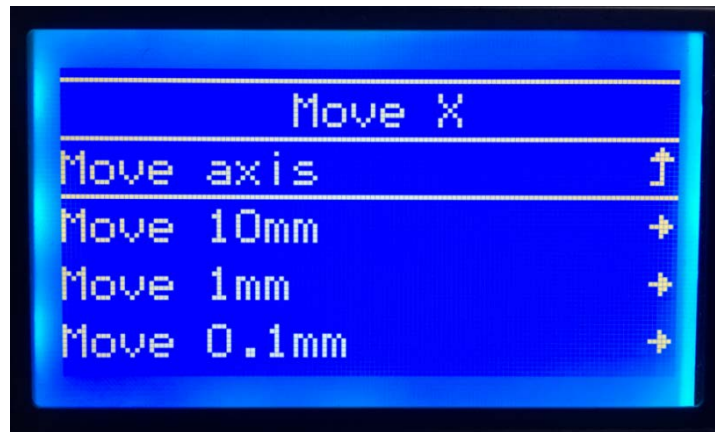
(Picture 7-10)

Choose from **"Move X/Y/Z/Extruder"** and rotate the knob to move them. See picture (7-11).



(Picture 7-11)

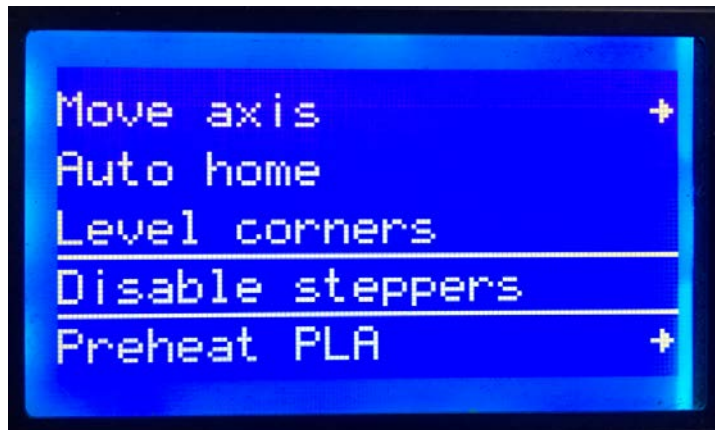
Choose **"Move 1mm"**, see picture (7-12).



(Picture 7-12)

Note: we suggest using 1mm to test X/Y/Z axis.

After axis' testing finished, if you want to unlock the motor, choose "Prepare>Disable steppers", see picture (7-13).



(Picture 7-13)

When the motors are unlocked, you can move them by hand.

8 Software setting

8.1 Install driver

Two printing choices for A20: TF card printing and USB printing.

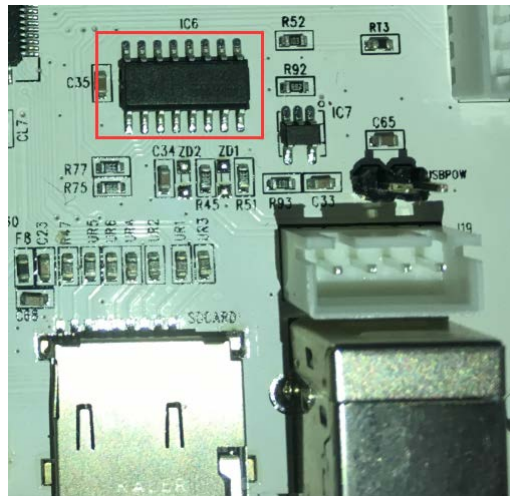
TF card printing: After leveling, insert the TF card into the slot, and choose a .gcode file to start printing.

USB printing: Connect the printer and computer with a USB cable to control the printer with slicing software such as Repetier-Host. Because of some unstable factors such as signal interference, the USB printing prone to fail. So we suggest choosing TF card printing.

The details of USB printing are as follows:

Firstly, turn on the printer, and connect the printer to computer with a USB cable. Normally, the computer will automatically search the install driver. The newest communication chip of A20 is

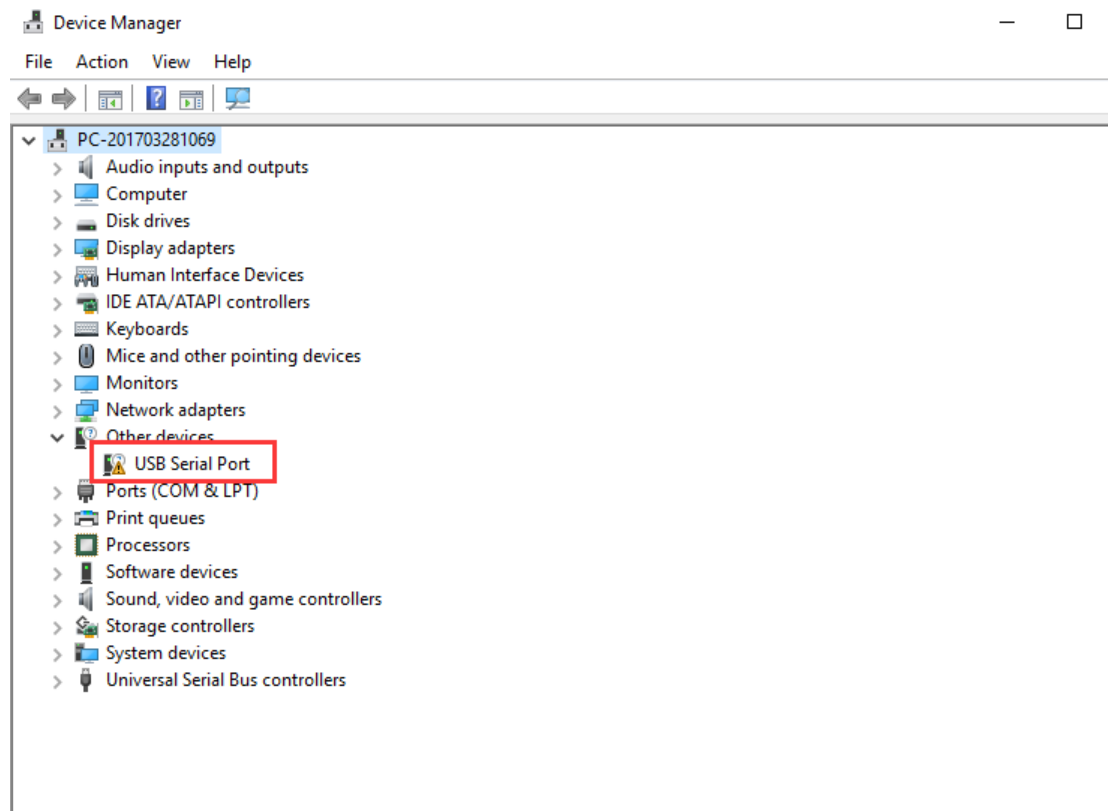
CH340. See picture (8-1).



(Picture 8-1)

If it fails to automatically install the driver in computer, then check whether the driver is installed successfully or not. Click to choose **“My computer>Property>Device manager”**.

If it shows the exclamation mark as picture below (8-2), then you need manually install the driver.

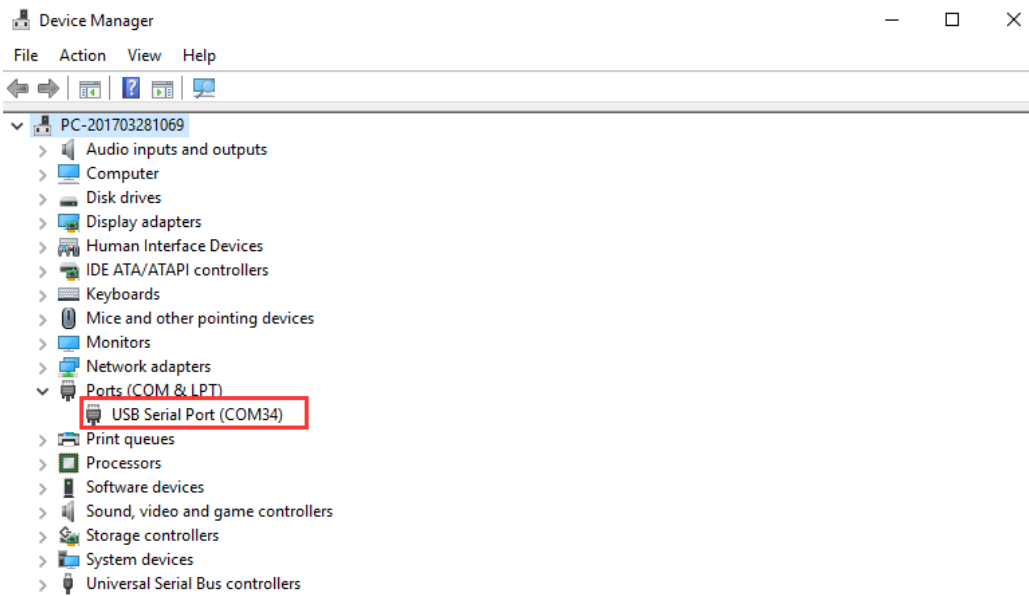


(Picture 8-2)

Download link for CH340:

https://www.geeetech.com/index.php?main_page=download&download_id=40

After the driver is installed, check the “Device manager” and see if it is same as the picture below (8-3). If so, it means the driver is successfully installed.



(Picture 8-3)

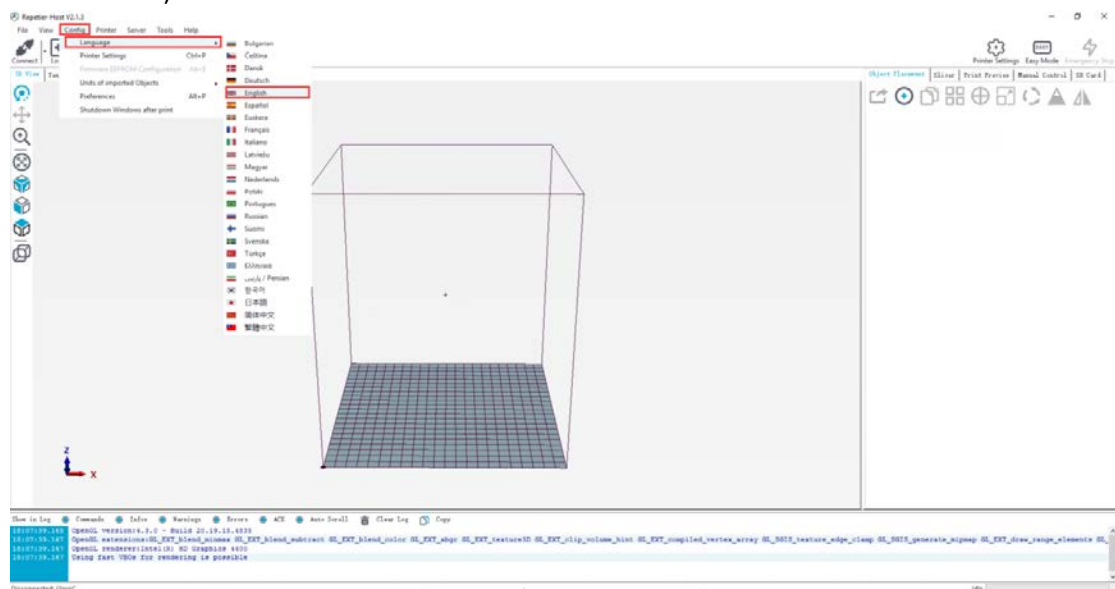
8.2 Install slicing software

Repetier-Host is the default slicing software here. Download address:

<https://www.repetier.com/download-software/>

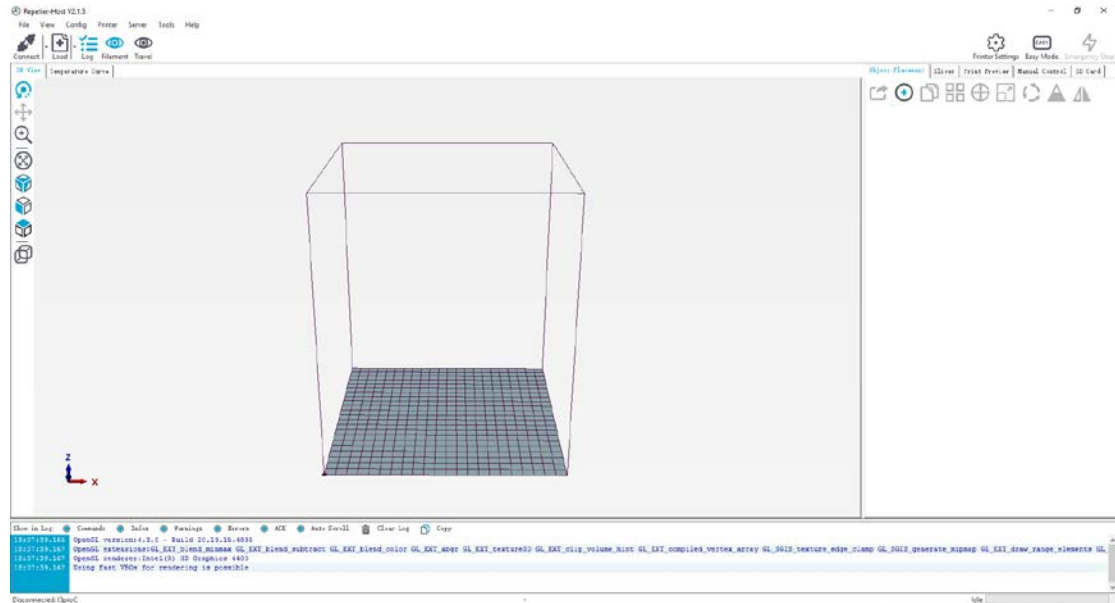
- Set printer parameters

When Repetier-Host is installed, turn on the printer and open the Repetier-Host. Repetier-Host supports several languages. You can choose your native language from **Config>Language** (Picture 8-4 for details).



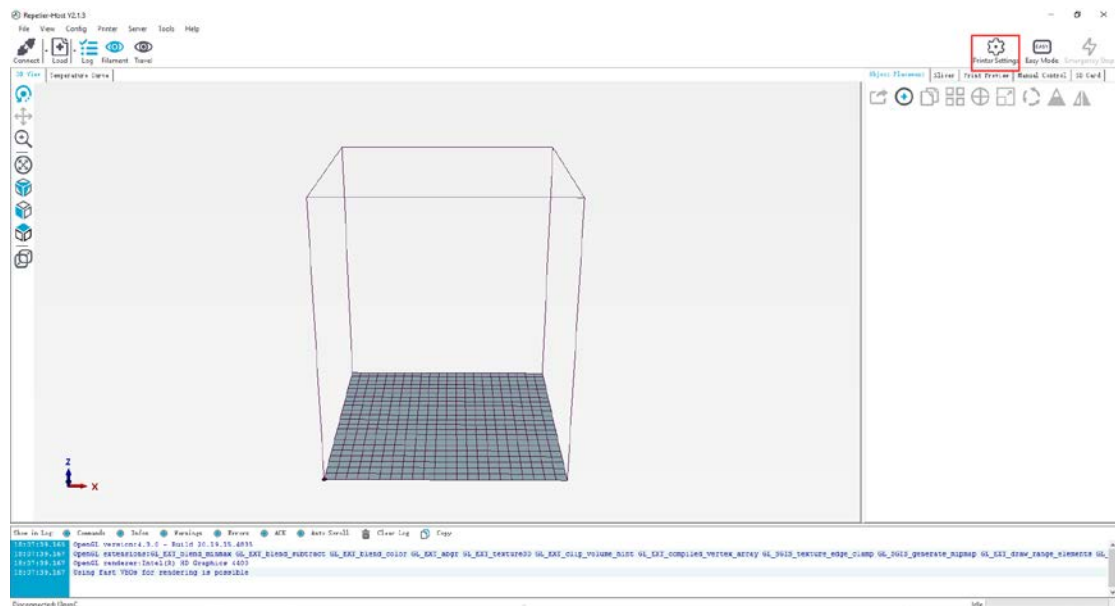
(Picture 8-4)

English interface for your reference (picture 8-5).



(Picture 8-5)

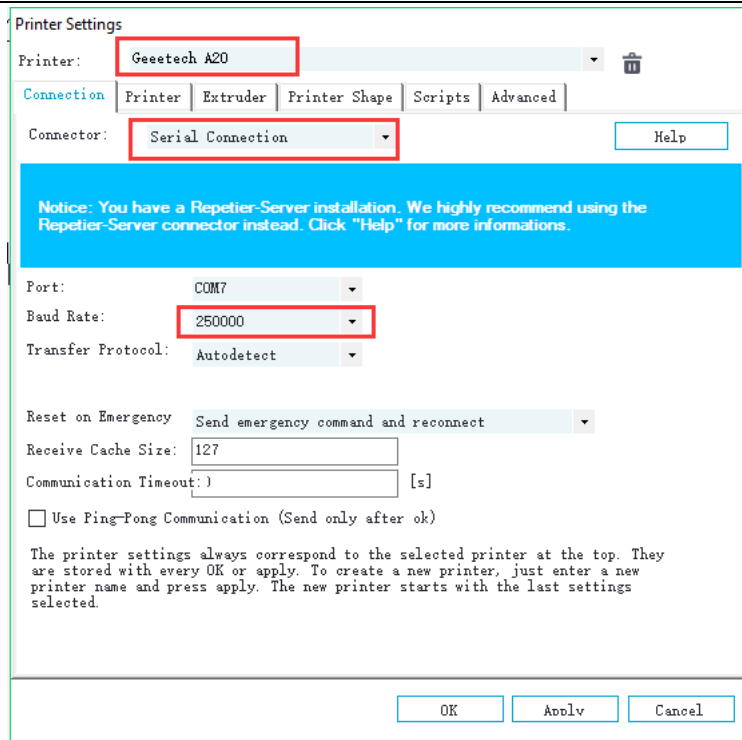
Using the Repetier-Host for the first time, printer parameters need to be configured before connecting. Click **“Printer settings”** on the top right corner, see picture (8-6).



(Picture 8-6)

The following window pops up, and you can fill in according to the contents of the label. **(Pay attention to the highlighted parts)**

a. Connection dialog: see picture (8-7)



Printer Settings

Printer: **Geeetech A20**

Connection | Printer | Extruder | Printer Shape | Scripts | Advanced

Connector: **Serial Connection** Help

Notice: You have a Repetier-Server installation. We highly recommend using the Repetier-Server connector instead. Click "Help" for more informations.

Port: COM7

Baud Rate: **250000**

Transfer Protocol: Autodetect

Reset on Emergency: Send emergency command and reconnect

Receive Cache Size: 127

Communication Timeout: [] [s]

Use Ping-Pong Communication (Send only after ok)

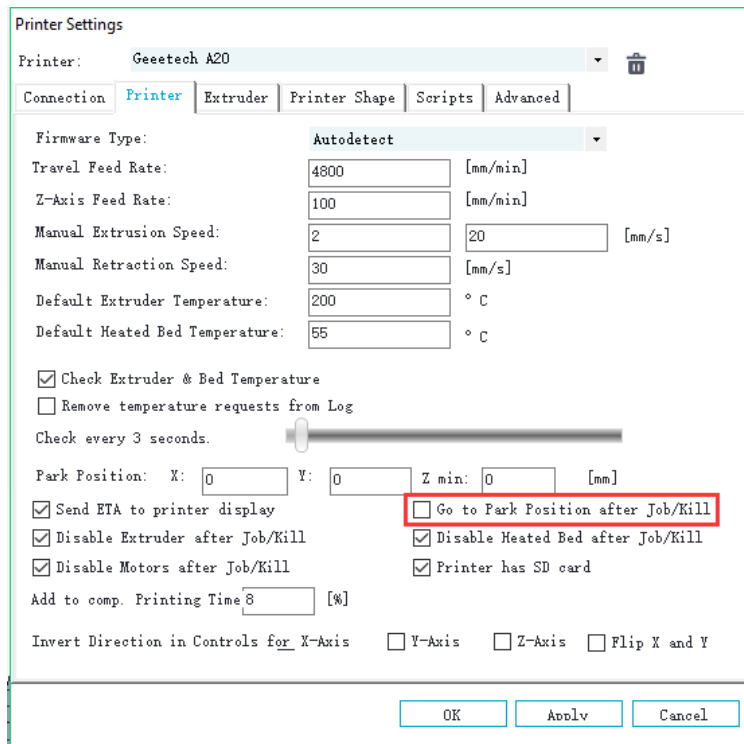
The printer settings always correspond to the selected printer at the top. They are stored with every OK or apply. To create a new printer, just enter a new printer name and press apply. The new printer starts with the last settings selected.

OK Apply Cancel

(Picture 8-7)

b. Printer dialog (Picture 8-8):

Do not check "Return to the parking position after the end of the task interruption" to prevent the machine from damaging the model after the end of printing.



Printer Settings

Printer: Geeetech A20

Connection | **Printer** | Extruder | Printer Shape | Scripts | Advanced

Firmware Type: Autodetect

Travel Feed Rate: 4800 [mm/min]

Z-Axis Feed Rate: 100 [mm/min]

Manual Extrusion Speed: 2 [mm/s]

Manual Retraction Speed: 30 [mm/s]

Default Extruder Temperature: 200 °C

Default Heated Bed Temperature: 55 °C

Check Extruder & Bed Temperature

Remove temperature requests from Log

Check every 3 seconds. [Slider]

Park Position: X: 0 Y: 0 Z min: 0 [mm]

Send ETA to printer display

Disable Extruder after Job/Kill

Disable Motors after Job/Kill

Add to comp. Printing Time 8 [%]

Invert Direction in Controls for X-Axis Y-Axis Z-Axis Flip X and Y

Go to Park Position after Job/Kill

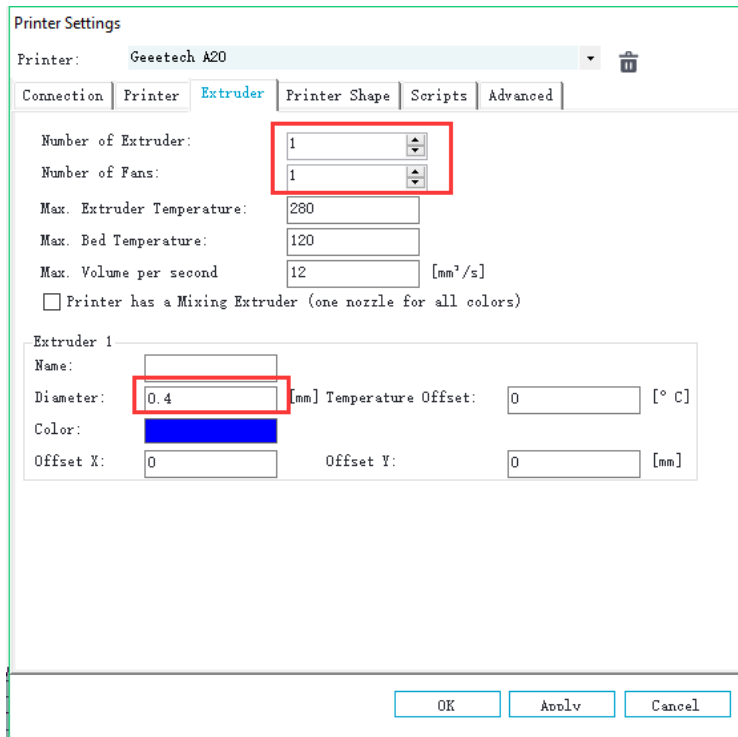
Disable Heated Bed after Job/Kill

Printer has SD card

OK Apply Cancel

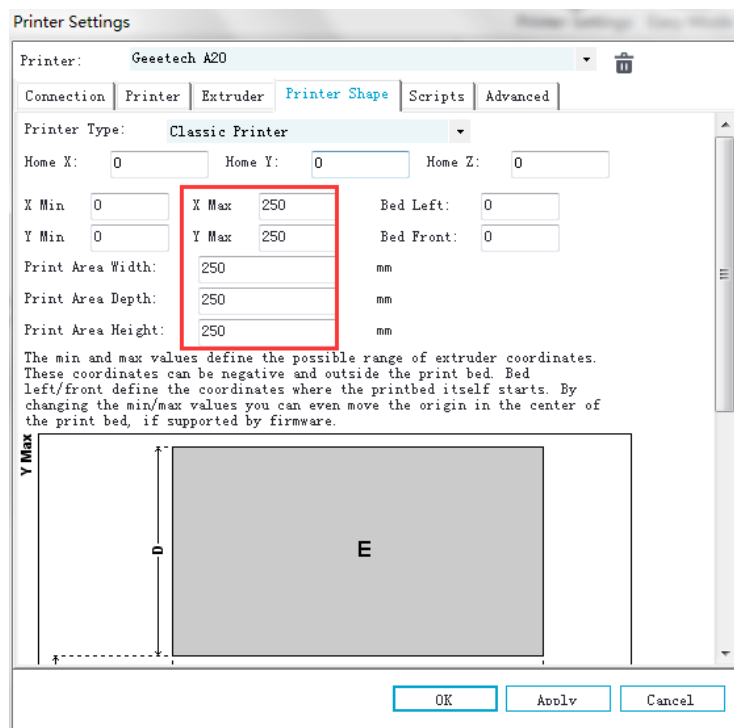
(Picture 8-8)

c. Extruder dialog (Picture 8-9):



(Picture 8-9)

d. Printer shape dialog (Picture 8-10):



(Picture 8-10)

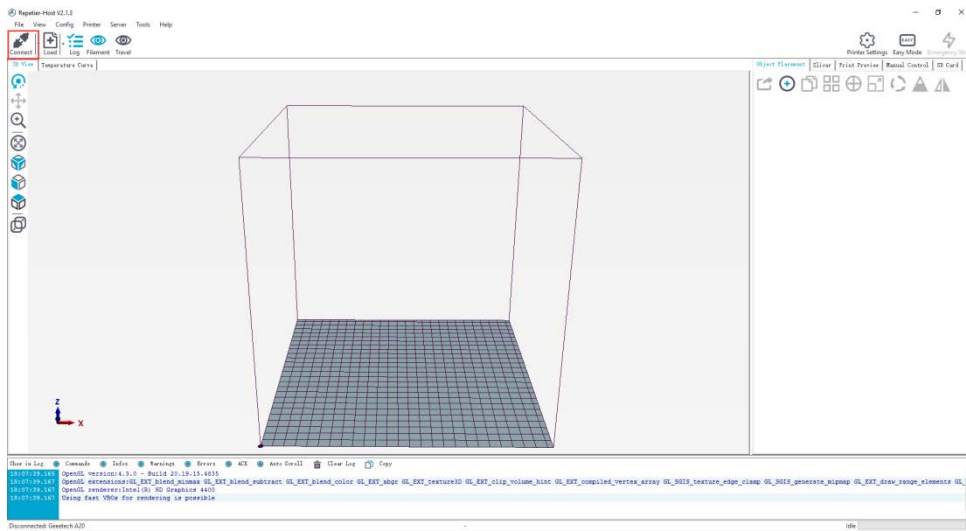
Now the printer parameters are set.

Note: If the operating system is Mac OS, Repetier Host baud rate is also set to 250,000.

- Set slicing parameters

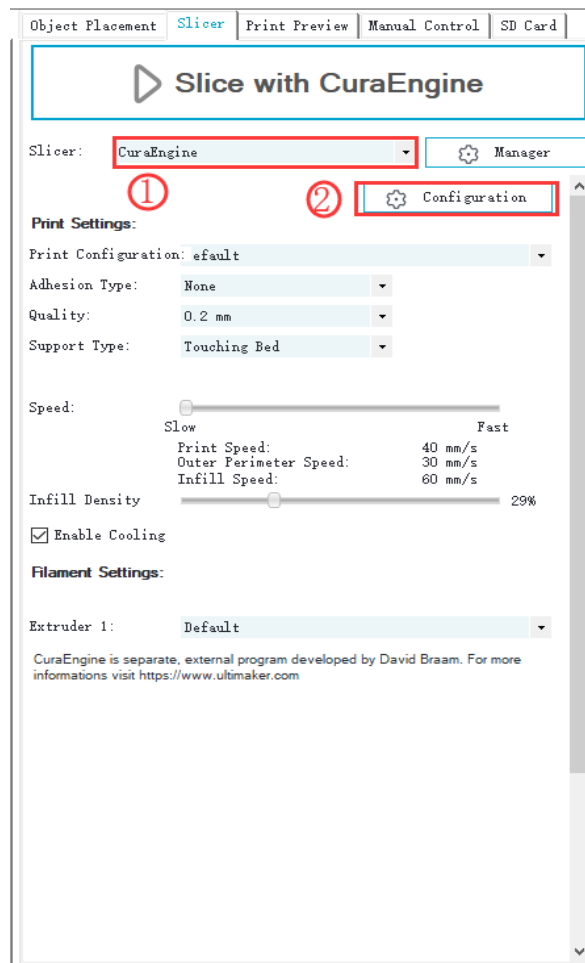
After setting the printer parameters, click **“Connect”** on the top left corner. The color of the icon

changed to green means the printer connects to the Repetier-Host successfully. Click it again to disconnect. See picture (8-11).



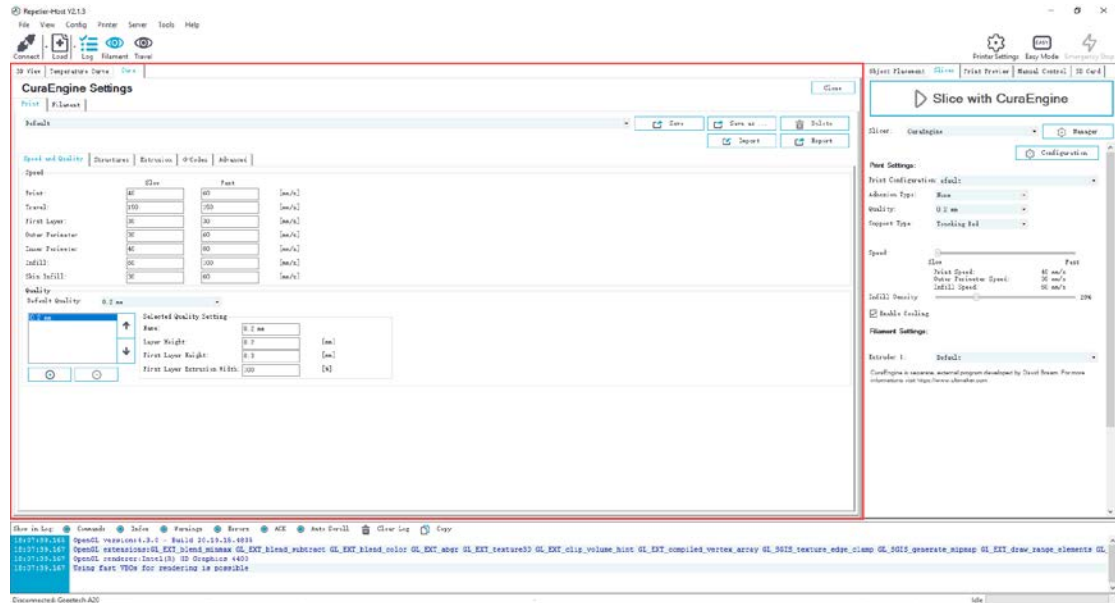
(Picture 8-11)

After successfully connected, choose **“Slicer> CuraEngine”** and open the configuration menu. See picture (8-12).



(Picture 8-12)

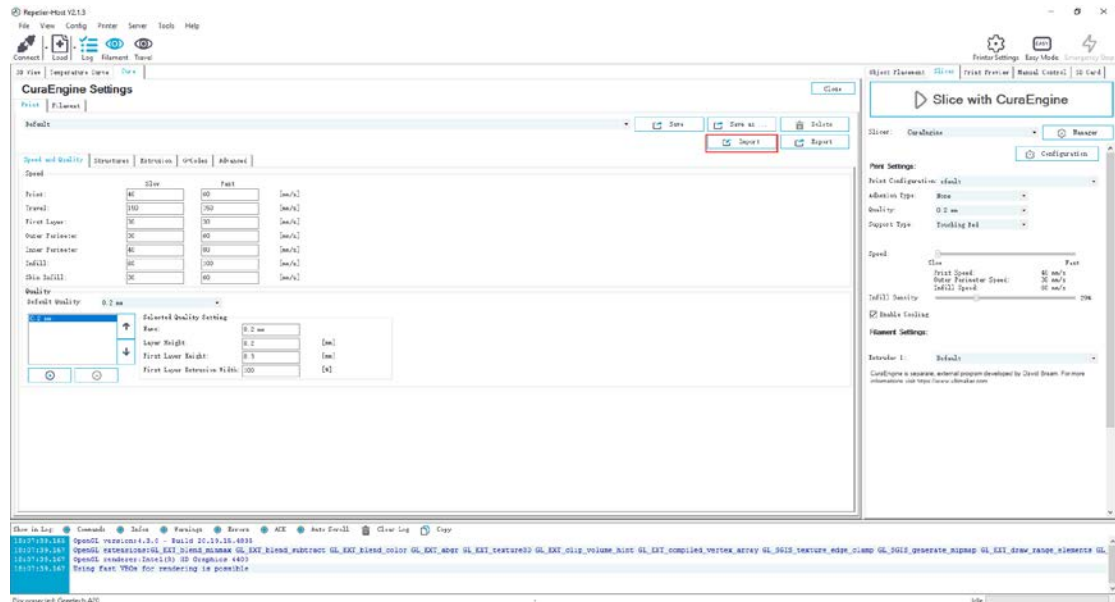
It pops up dialog as picture below (8-13):



(Picture 8-13)

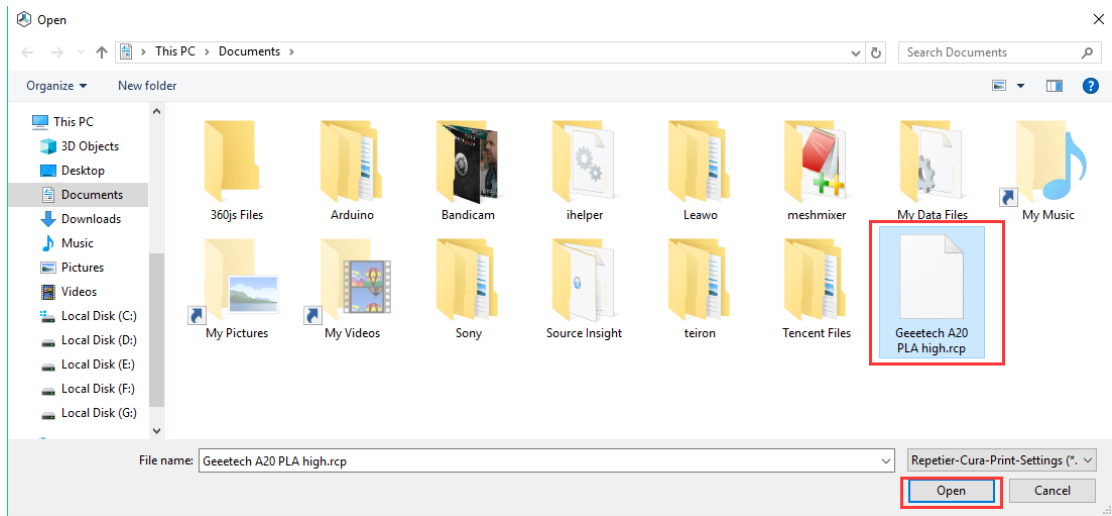
Printer parameters are important to print quality. Customers need to run tests to find the best parameters for their printers. Here we provide a configuration file for your reference (“**Geetech A20 PLA high.rcp**”). You can import it according to the steps as follows, this file can be downloaded from the official website. The following is an example of parameters for PLA (Picture 8-14):

Click “**Print>Import**”



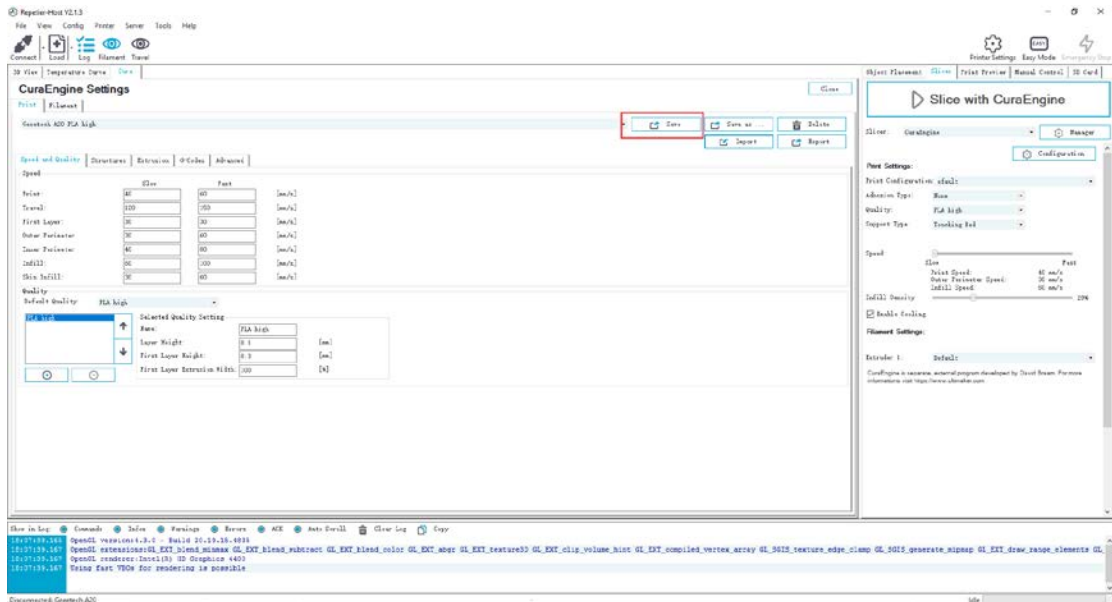
(Picture 8-14)

It pops up the dialog as below (Picture 8-15). Choose “**Geetech A20 PLA high.rcp**” and open it.



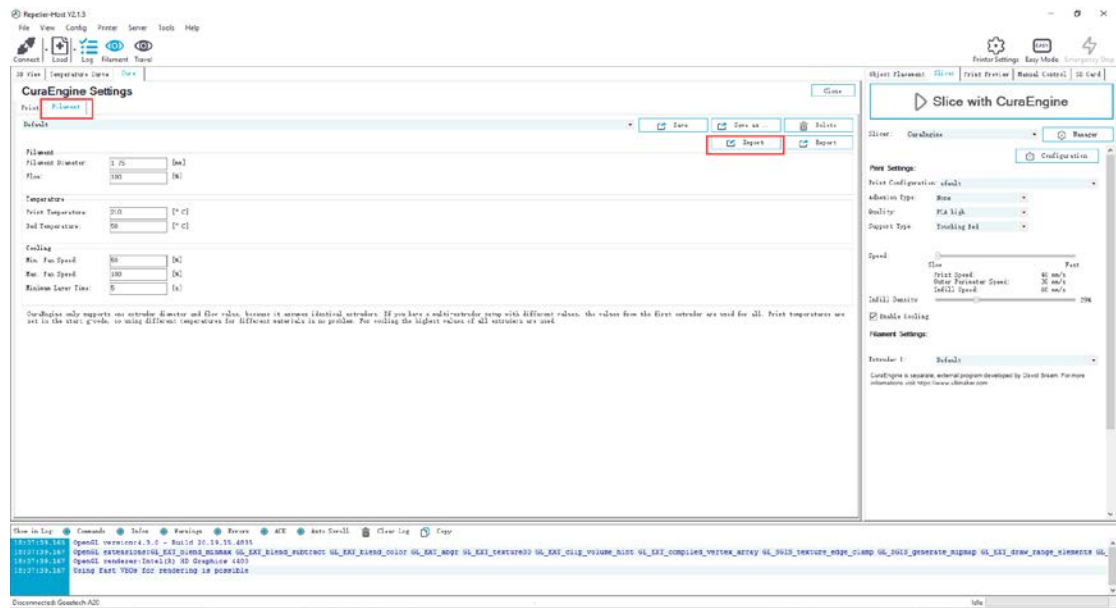
(Picture 8-15)

Now, the configuration file is imported, click **“Save”**. See picture (8-16).



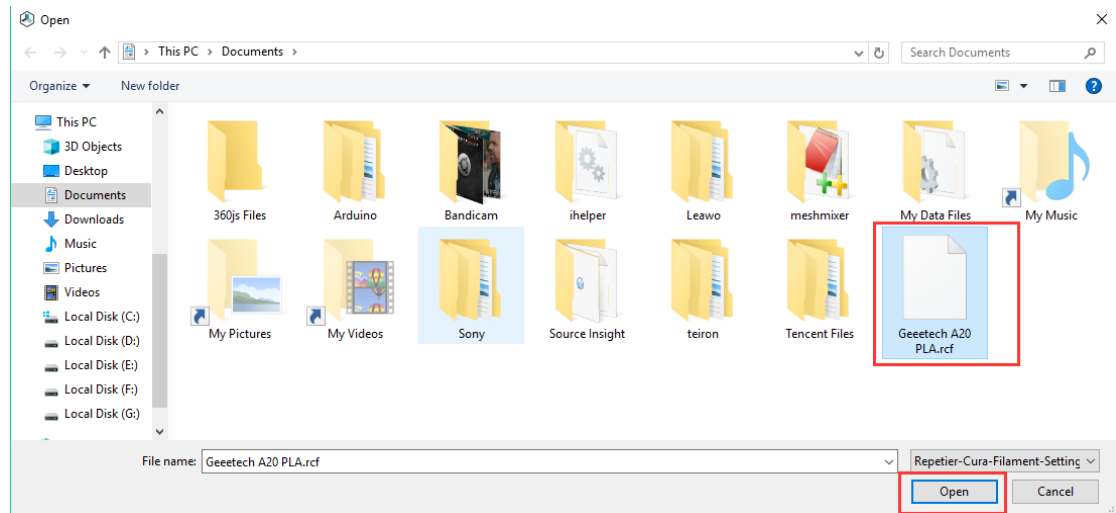
(Picture 8-16)

Click **“Filament>Import”**, see picture (8-17).



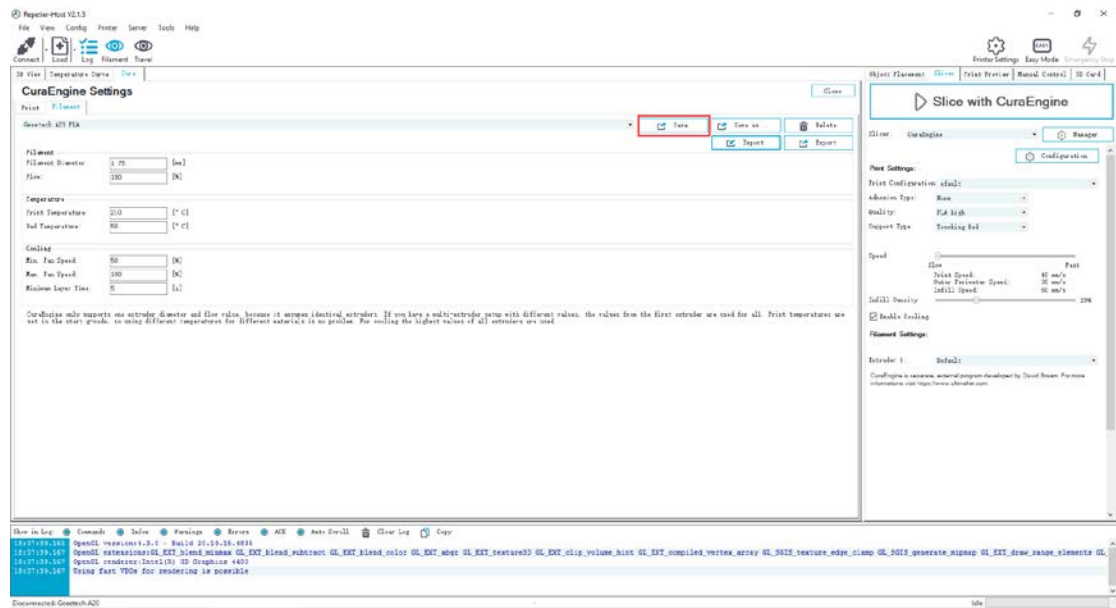
(Picture 8-17)

It pops up dialog as below (Picture 8-18); choose **“Geetech A20 PLA high fi.rcf”**.



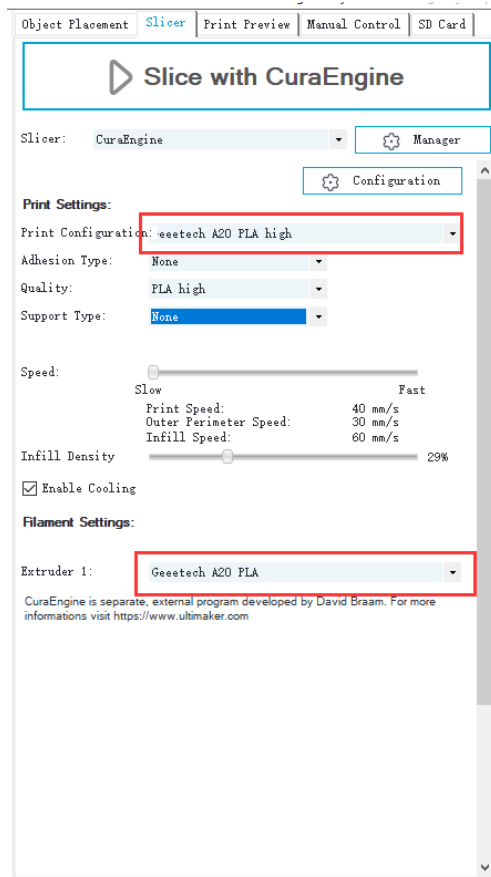
(Picture 8-18)

Now, the configuration file is imported. Click **“Save”**. See picture (8-19).



(Picture 8-19)

Choose “Geetech A20 PLA high” as print configuration and “Geetech A20 PLA high fi” as printing material setting. Details see picture (8-20) below.



(Picture 8-20)

Now parameters setting are finished.

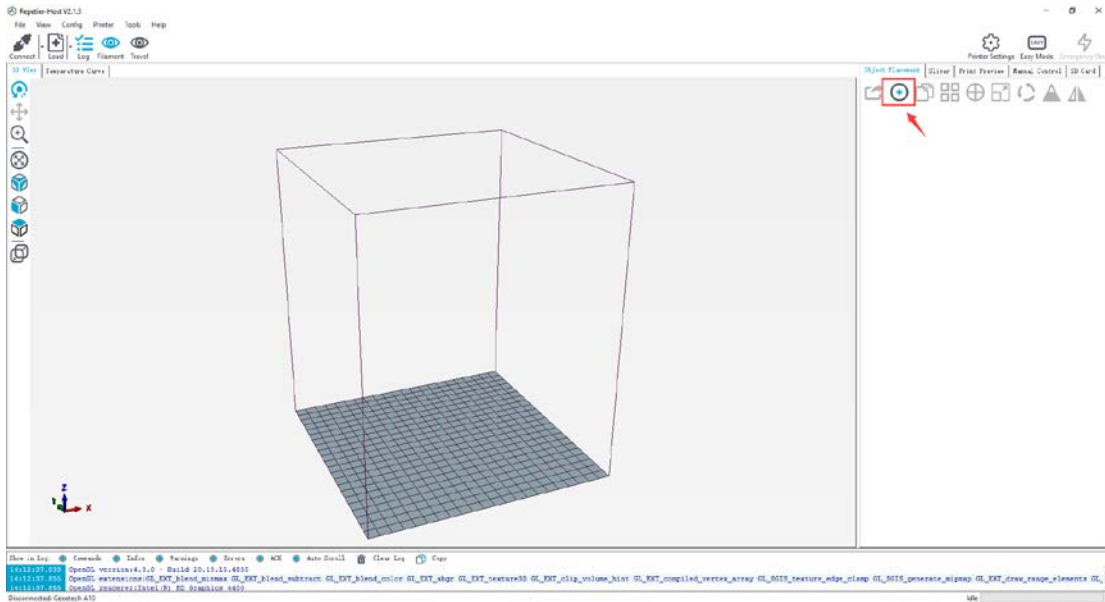
8.3 USB printing

You can start USB printing when the parameters setting are finished.

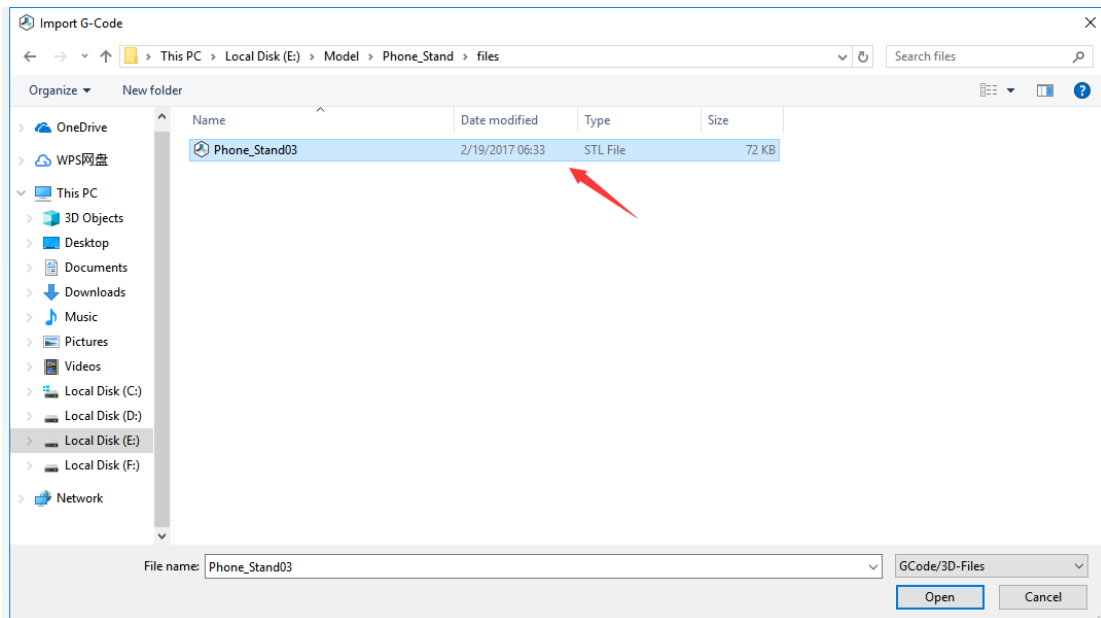
The model file format is .stl for 3D printer. You can download free models from websites such as thingiverse.com You can also design your own models.

- Load the printing model

Open the Repetier-Host and click “load”. Choose a file and open it. See picture (8-21, 8-22).

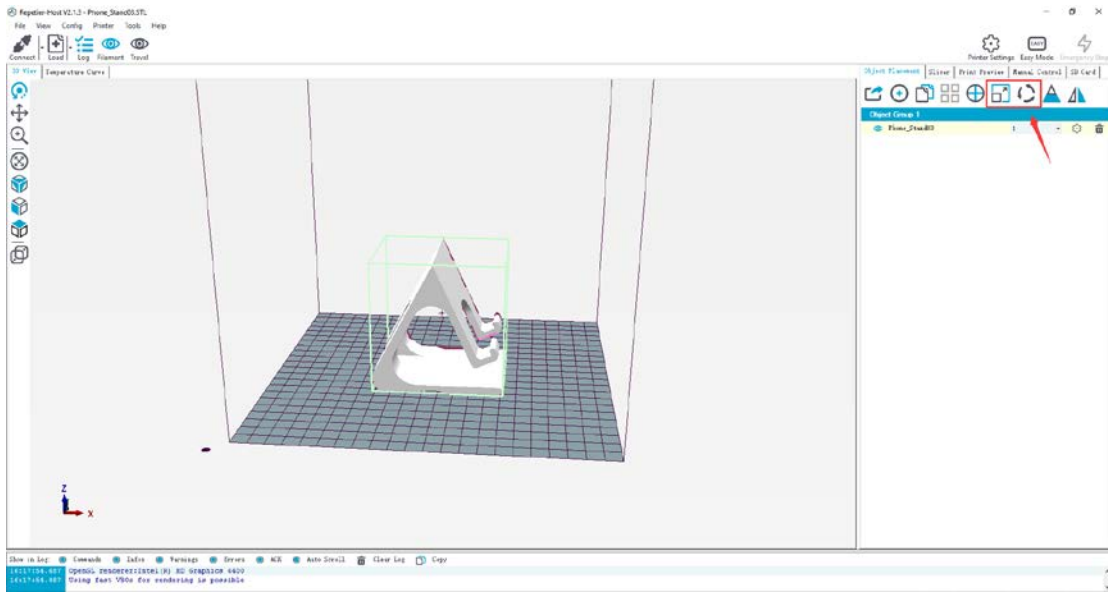


(Picture 8-21)



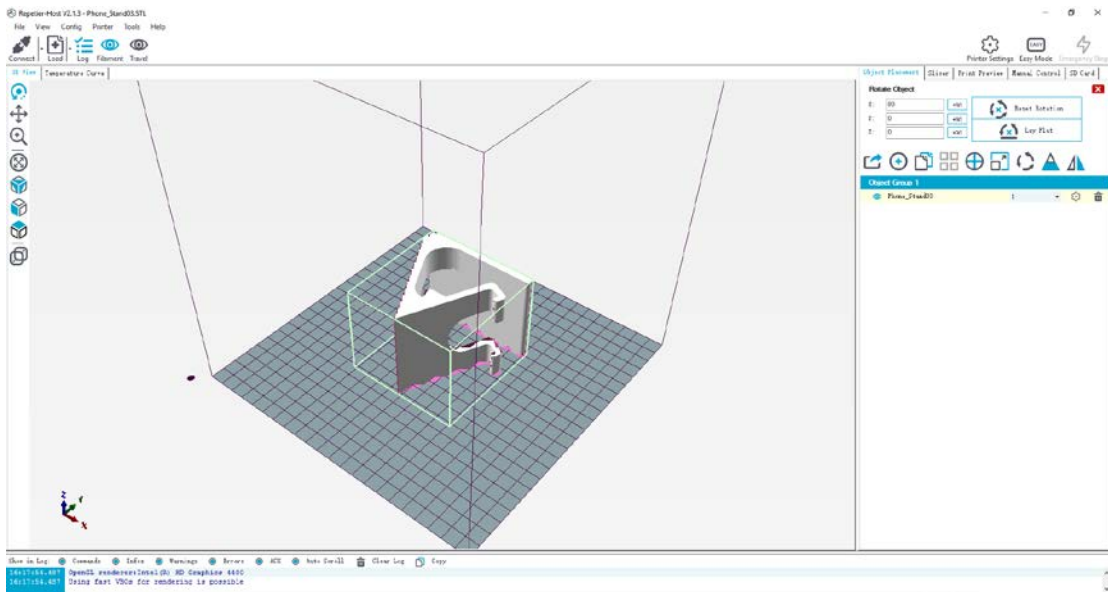
(Picture 8-22)

When it is loaded, you can use the buttons as picture below (picture 8-23) to zoom in, zoom out or rotate the model.



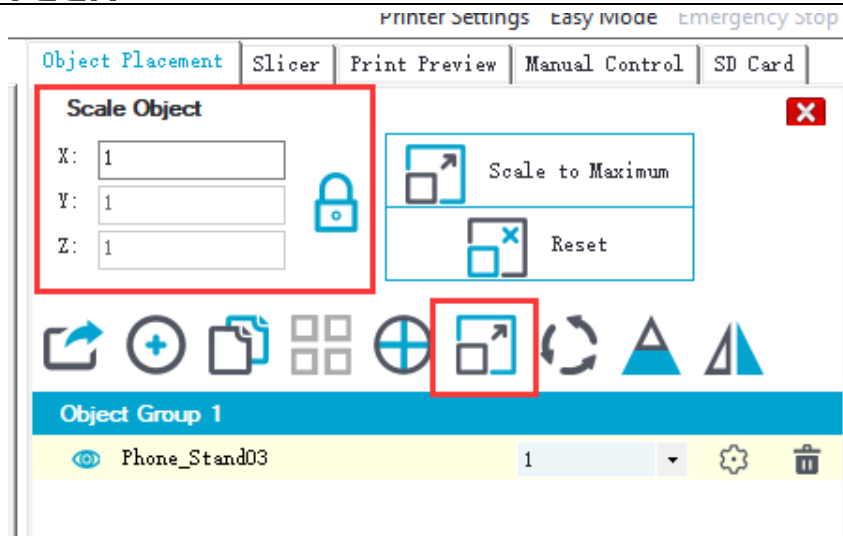
(Picture 8-23)

Adjust the direction of the model so that the flat part of the model is touching the hot bed. See picture below (8-24):



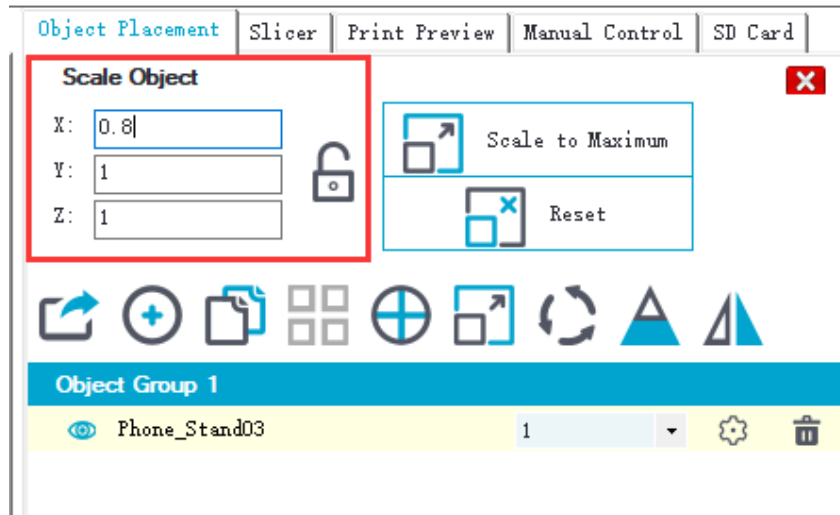
(Picture 8-24)

Note: If the model loaded is too big and beyond the printing platform, you need to zoom out the model. Click to “zoom the object”. You can perform a uniform scaling as shown in Picture (8-25).



(Picture 8-25)

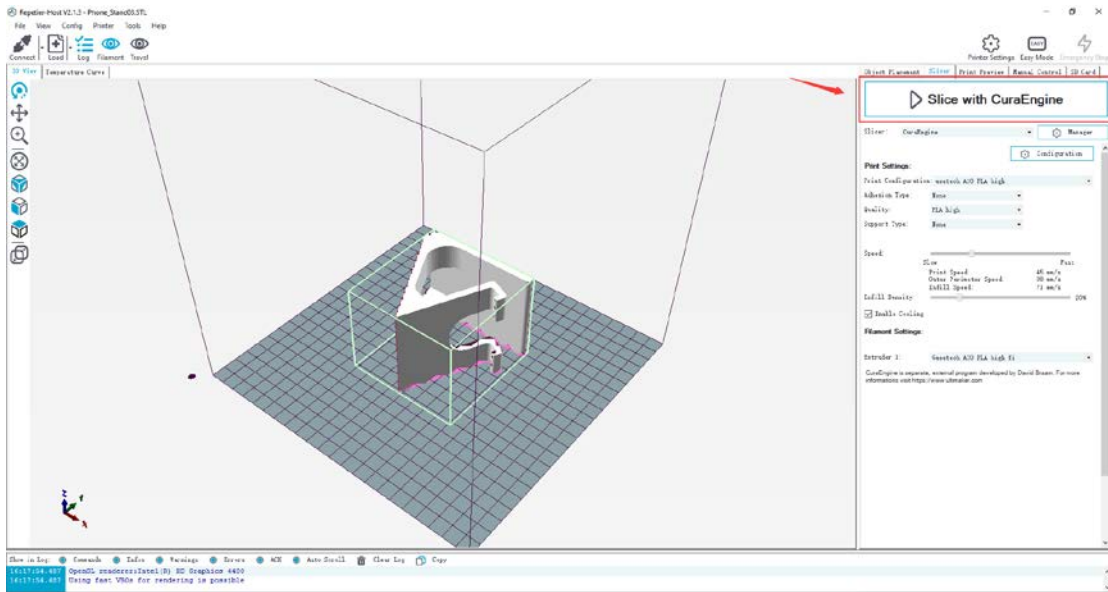
Or zoom in/out them separately, see picture (8-26).



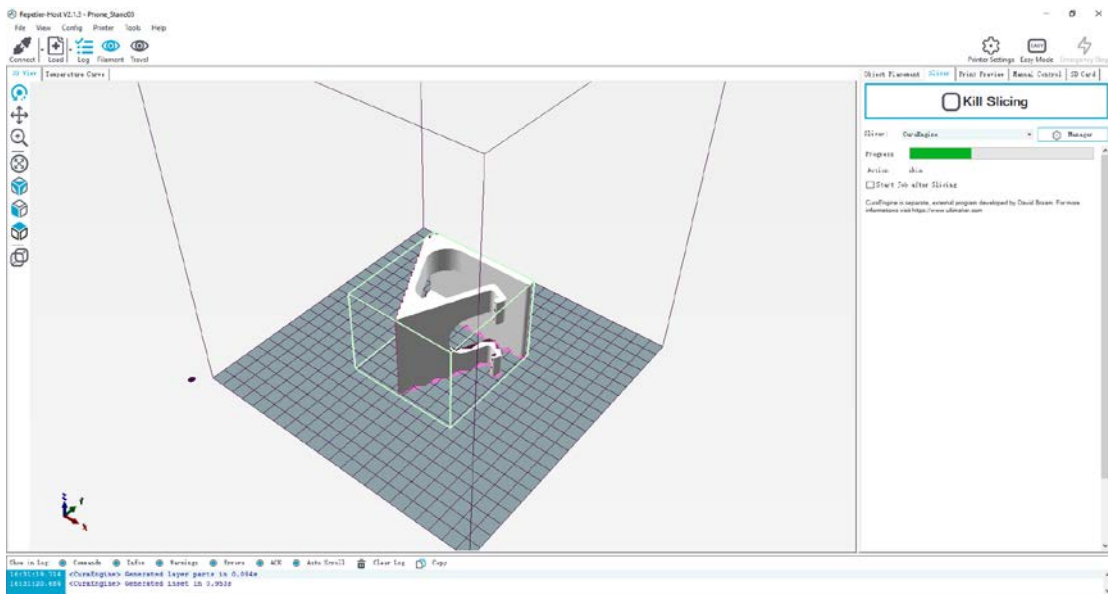
(Picture 8-26)

- Model slicing

After setting the model size and direction, select the previously imported slice parameter settings in the slice software window, and then click **“Slice with CuraEngine”**. See picture (8-27), (8-28).



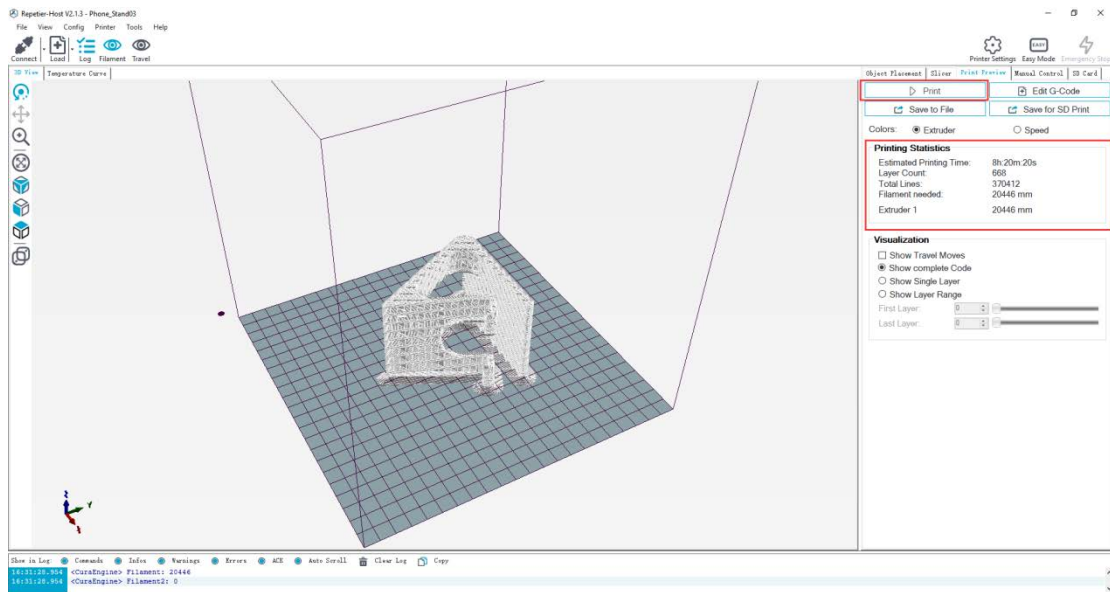
(Picture 8-27)



(Picture 8-28)

You can find the model information such as estimated print time, the amount of filament needed, etc. Click **“Print”** to start USB printing. Refer to picture (8-29).

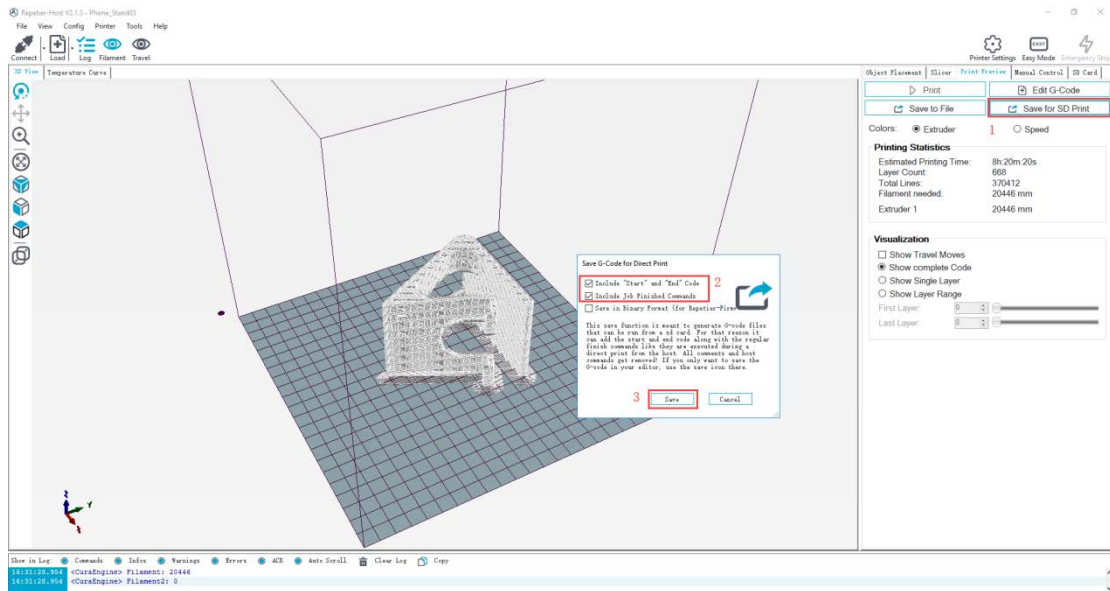
The printer will heat to the target temp and then start printing. Under high temperature, the filament will flow out of the nozzle, which is normal. You can use tweezers to clean up the residual material of the nozzle.



(Picture 8-29)

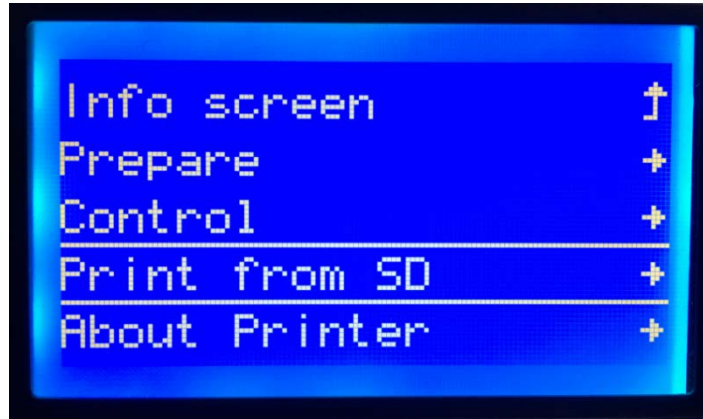
8.4 TF card printing

When all parameters are set, click **“Save for SD print”**. It will pop up a dialog as picture below (See picture 8-30) and then click the save button to generate a .gcode file. Copy the gcode file to the TF card.



(Picture 8-30)

Insert the TF card into the TF card slot on the right side of the machine. Press the knob to enter the main menu and choose **“Print from SD”**. See picture (8-31). Choose the corresponding gcode file to start printing.



(Picture 8-31)

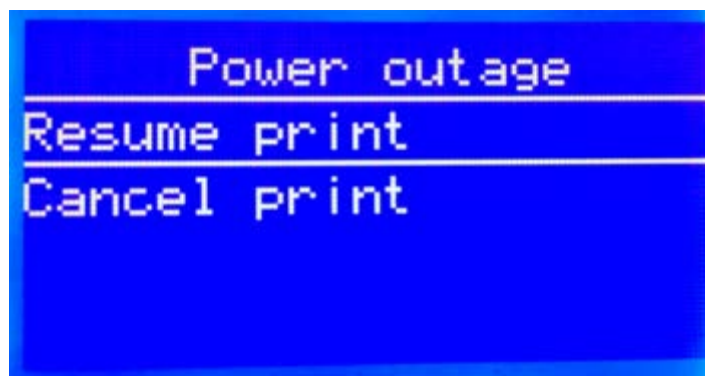
Note:

- The printer can only read gcode file and the file name should be English letters, a space, an underscore or their combination.
- The Gcode file cannot be placed in any folder of the TF card, otherwise it cannot be read.

9 Function introduction

9.1 Power loss-resuming capability

A20 has the power loss-resuming capability. When power recovery starts, it will pop up a dialog to ask if continuing the unfinished print caused by **power outage**, choose **“Resume print”**. See picture (9-1).



(Picture 9-1)

When it reaches the target temperature, the X and Y axes will auto home. The extruder will extrude the residue in the nozzle. Use a tweezers to clean the nozzle before starting printing again.

Note:

- When power outage, move the nozzle away from the printing model in case the filament oozes out on to the print.

- **Be sure to clean the residue in the nozzle before restarting the print or it would affect the quality of the print.**

9.2 Reset button

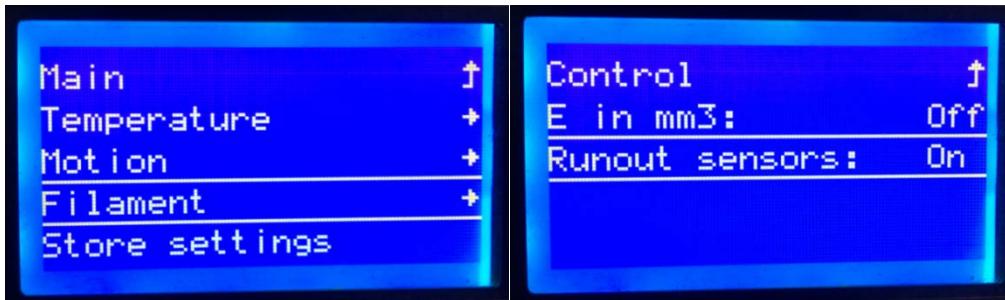
The reset button is below the knob. When the printer works abnormally, press the reset button to reset the printer to avoid any damage. See picture (9-2).



(Picture 9-2)

9.3 Filament run-out sensor (Optional)

Before using this function, please check whether it is turned on or not. Choose “Control”>“Filament”>“Runout sensors” and make sure it shows “ON”. See pictures (9-3, 9-4).



(Picture 9-3)

(Picture 9-4)

- It will pop up the notification “**Err: No Filament**” when the filament is run out during printing and the printer will stop. See picture (9-5).
- Press the extruder handle, remove the remaining filament before loading the new filament.
- When the filament is loaded, use a tweezers to clean the nozzle. Press the knob to enter the main menu, and choose “**Resume print**” to re-start the printing. See picture (9-6).



(Picture 9-5)



(Picture 9-6)

9.4 3D touch for auto bed leveling (Optional)

This printer supports auto bed leveling. Refer to the link below to know how to install the 3d touch sensor.

<https://www.youtube.com/watch?v=RtsZDbR2po&t=66s>

Visit our official forum

<http://www.geeetech.com/forum/>

10 FAQ (Frequently Asked Questions)

10.1 Abnormal extrusion

- The filament is tangled
- The nozzle temp is too low to reach the melting temperature required.
- There is carbonized residue inside the nozzle. Please replace it with the spare nozzle
- Insufficient heat dissipation of radiator of the extruder head causes the filament in the tube to melt in advance and the extrusion strength is insufficient. Please check whether the cooling fan works normally.
- The printing speed is so fast that the extruding speed can't match it. Please reduce the printing speed.

10.2 The gear of the extruder skips and makes an abnormal noise

- The nozzle is clogged; please refer to **10.1 abnormal extrusion**.
- Check whether the friction force between the extruder gear and the filament is enough. Please clean the residue.
- Check whether the voltage of the driver of the extruder is normal, and try to increase it by 0.1v until it works normally, max 1.2v.

10.3 First layer abnormal

- Non-stick: a. the nozzle is too far from the hot bed. Please re-level the bed, try to stick masking paper or glue stick on the surface of the hot bed.
- Not extruding and the bed scratched: a. the nozzle is too close from the hot bed. Please re-level the bed; b. check if the nozzle extrusion normal.

10.4 Layer shift

- The printing speed is too fast. Please slow it down.
- The belt of X or Y axis is too loose. Please tighten it.
- The X or Y axis synchronization wheel is not fixed firmly. Please adjust the eccentric nuts.
- The voltage of the driver of X/Y axis is too low.

10.5 Print stopped

- USB printing: the signal is interfered. Please copy the model to TF card and print via TF card.
- TF card printing: the gcode file in the TF card is abnormal, please slice again.
- The quality of the TF card is poor. Please try another TF card.
- The power supply voltage in the area is not stable; please print after the voltage is stable.

Visit our official forum for more information:

<http://www.geeetech.com/forum/viewtopic.php?f=98&t=61864>

11 Declaration

11.1 Terms

Please be advised of the following terms (the “Terms”) regarding this User Manual (this “Manual”):

All information in this Manual is subject to change at any time without notice and is provided for convenience purposes only. Geeetech reserves the right to modify or revise this Manual in its sole discretion and at any time. You agree to be bound by any modifications and/or revisions. Contact the Geeetech Support Team for up-to-date information.

11.2 Disclaimers

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