



FLSUN-QQ

Instruction Manual

(QQ-S)



VK-3D
принтер Flsun



Facebook-Flsun
3D Printer

Pre-Face

Dear Customer:

Thank you for choosing the FLSUN 3D Printer. For your convenience, please read this manual carefully before using and follow the instructions.

Our team always be ready to provide you with quality service. In the process of installation and use, no matter what kind of problems you encounter, you can contact us according to the contact information provided at the end of the manual.

You can find detailed instructions , videos, and FAQs in the SD card.

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Basic part A

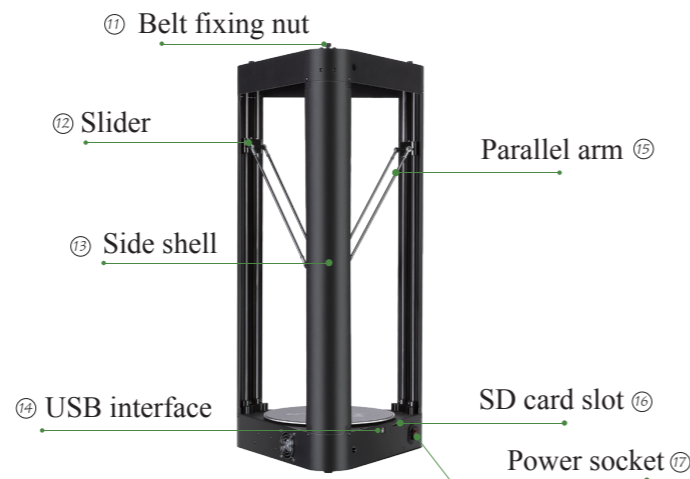
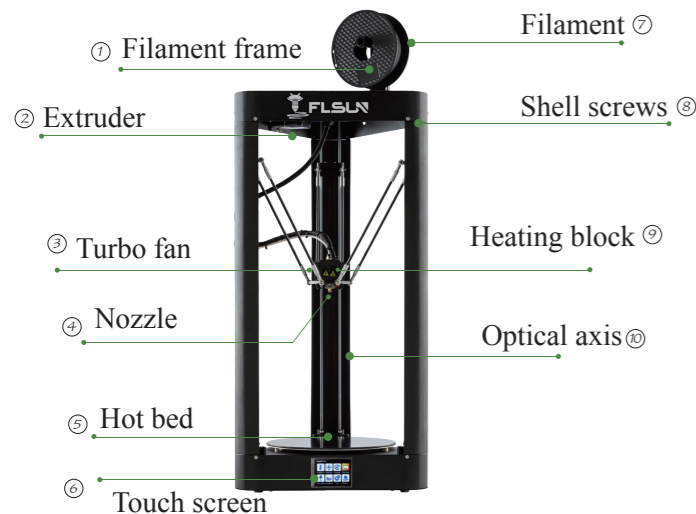
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A-1 Equipment Introduction



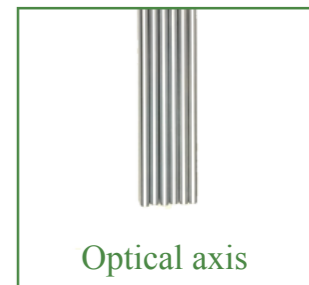
A-2 3D Printer Parameters



















Printing parameters	Molding technology	FDM	Temperature parameter	ENV TEMP	5-40℃
	Print size	φ255×360mm		Nozzle TEMP	0-260℃
	Print accuracy	0.05-0.3mm		Hot bed TEMP	0-110℃
	Positional accuracy	XYZ 0.01mm	Software parameters	Slicing software	Cura
	Nozzle type	Single nozzle		Input format	STL/OBJ/AMF/3DS
	Nozzle diameter	0.4mm		Output format	Gcode
	Print speed	10-300mm/s		Connection type	SD card , USB
	Material support	1.75mm PLA/ABS/ NYLON/PVA/TPU/ PETG/WOOD	Power parameters	Input	110 / 220v
	Touch screen	3.2 inches		Output	24V

A A-3
Basic Part **Cautions**

1. The printer default selection voltage is **220V**,if you need to use **110V**,please change it before using.
2. The assemble and user manual,software and other files are in the **SD card** with printer.
3. The nozzle part and heated bed can produce high temperature when the printer is working ,so **do not touch** them by hand to avoid being scalded.
4. Before the automatic leveling, prepare the leveling sensor and an A4 paper and clean the nozzle, insert the leveling line; **After the Autoleveling , remove the leveling sensor, then adjust Z0.**
5. In the event of an emergency, please turn off the power immediately and contact our technical support.

A-4
Basic Part **Packing List**



N0.	Photo	Name	Qty	N0.	Photo	Name	Qty	N0.	Photo	Name	Qty
1		Wrench	1	7		SD card	1	13		Spare Screws	1
2		Screwdriver	1	8		Temp Sensor	1	14		Assemble Screws	1
3		Limit switch	1	9		Nozzle	2	15		USB wire	1
4		Scissors	1	10		Clean Needle	1	16		Power cable	1
5		Shovel	1	11		Level sensor	1	17		Filament	1
6		Nozzle wrench	1	12		Conductive cloth	1	18		Gloves	1

B B-1
Use Part **Assembly instructions**

1.Preparation



Open package



All screws and wrenches for assembly



All the components for assembly

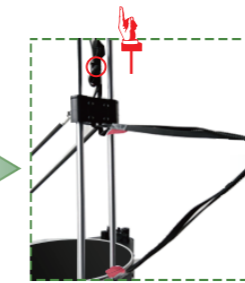
2.Install optical axis



Place the Bottom shell



Insert optical axis through slider to shaft seat bottom



Belt must be in the middle of two axis

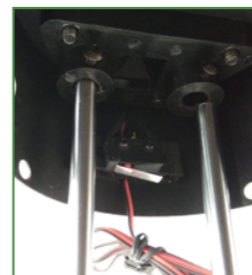


Optical axis completed

3.Install top shell



Logo and touch screen are at the same direction



Align all axis with seat holes then press to bottom

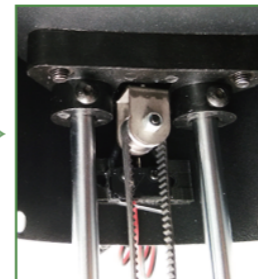


Upper shell completed

4.Assembly belt



Untie the belt and straighten it to make sure they are parallel.



Insert the metal pulley into the slot



Make screw head and nut are at the same height

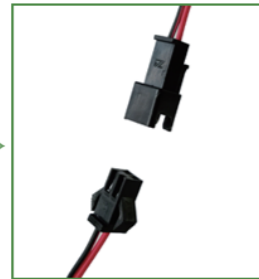


The same method installs other belts

5.Connection limit switch and Titan extruder



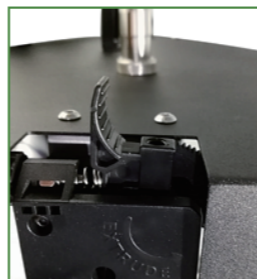
Untie the wire



Connect the set of connectors



Connect others in the same way



Install the Titan extruder

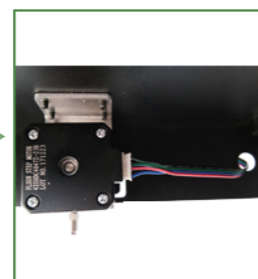
6.Connection bus section



Connect airline



Tighten the nut



Connecting extruder motor line



Connect feed tube

7.Install the side shell and bracket



Put side shell from top then insert to bottom shell

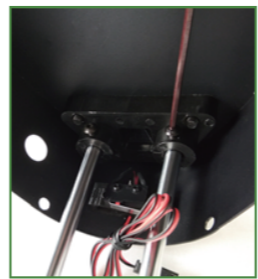


Tighten fixing screw of the side shell



Filament holder mounted on the upper shell

8.Tighten the screws



Tighten axis fixing screws of upper shell



Tighten axis fixing screws of bottom shell



Complete the assembly

B Use Part **B-2-1**
Auto Leveling

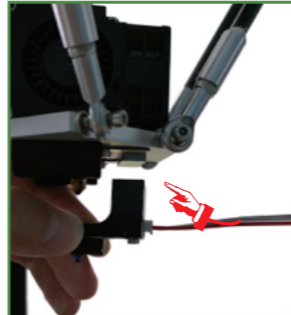
1. Install leveling Sensor



Ready autolevel sensor

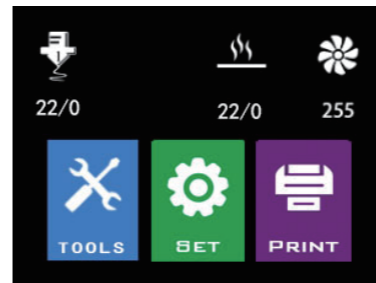


Connecting the autolevel sensor



Connecting magnet

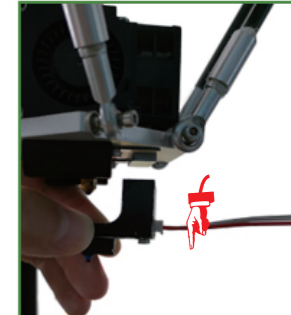
2. Leveling



Click TOOLS → Autolevel



Click LEVEL → Autolevel
(When autoleveling, In order to ensure the accuracy of data , the nozzle moves very slowly)



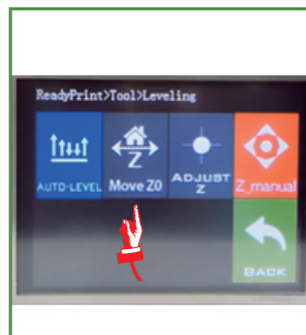
After autoleveling, remove the leveling sensor

Adjust Z0 before printing

★ Make sure the leveling sensor has been removed before adjusting Z0



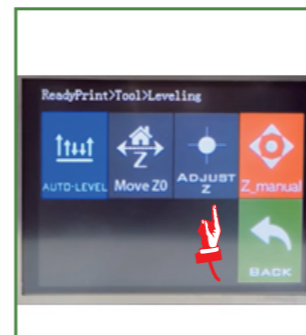
After auto leveling, put an A4 paper and adjust the position of Z0



Click 'Move Z0'



Move the A4 paper to test the distance of nozzle from the platform



Click 'Adjust Z'



'+' nozzle move up
'-' nozzle move down
'0.01mm' adjust move range



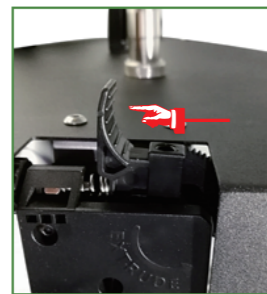
Click 'Save'
(The distance between the nozzle and the platform is an A4 paper.)

B Use Part **B-2-3**
Filaments Installation

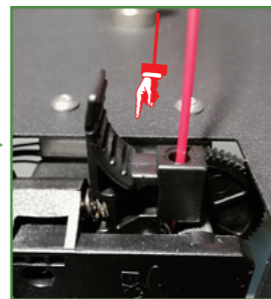
1. Install filaments



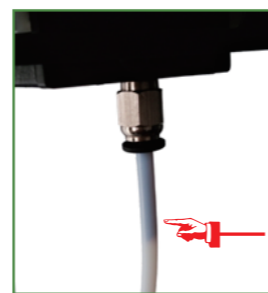
Install the filament and cut a triangle



Press hard in the direction of the arrow



Insert the filament through the small hole

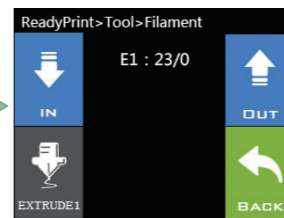


The filament pass through the quick connector will be ok

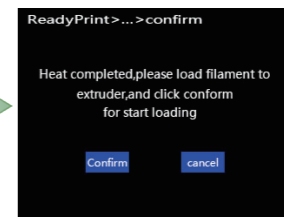
2. Automatic feeding



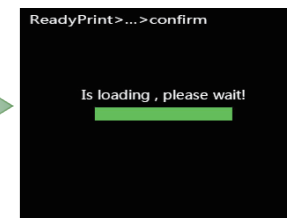
Click TOOLS→CHANGE



Choose EXTRUDER 1
Click IN



Click Confirm to automatic feeding



After completed Click Confirm

B Use Part **B-2-4**
Software Installation

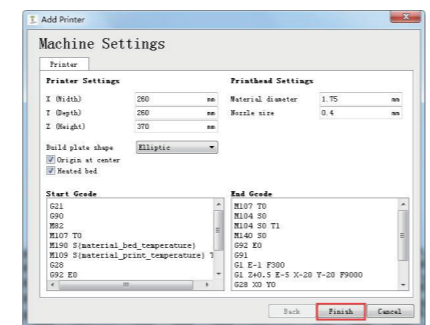
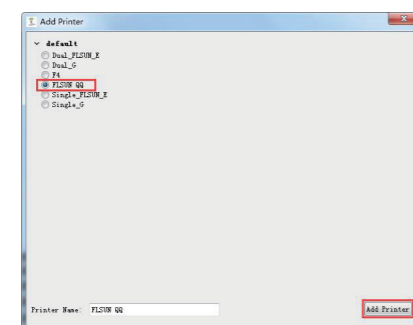
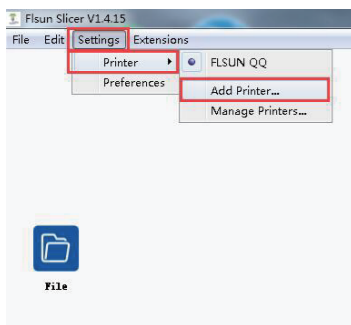
1. Dual click to install Cura



2. Open Cura



3. Click Settings → Printer → Add Printer → FLSUN QQ → Add Printer → Finish

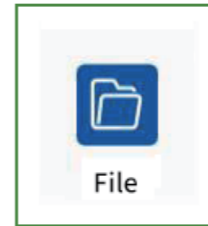


B Use Part **B-2-5**
First Printing

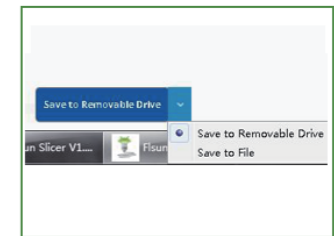
1. Slice



Open Cura



Click Load to load STL file

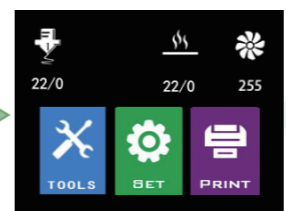


Software auto-slice, save Gcode to anywhere

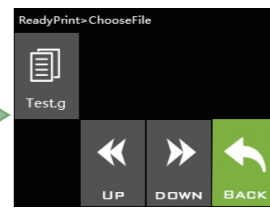
2. Machine Operation



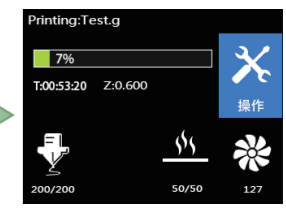
Insert SD card



Click PRINT



Choose file

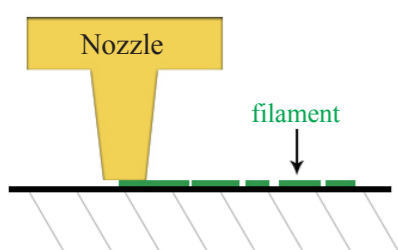


Automatic printing

B Use Part **B-3**
Precise Leveling

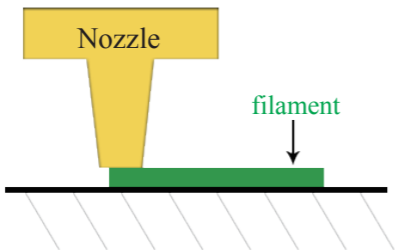
1. After automatic leveling, maybe the nozzle is too close or too far from the platform.

① The nozzle is too low from the platform

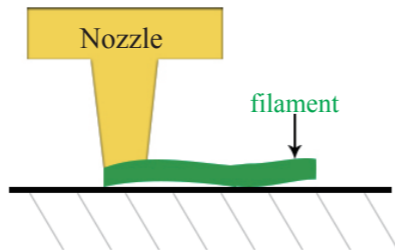


Click Z+0.1
nozzle moves up 0.1

③ The nozzle is middle from the platform

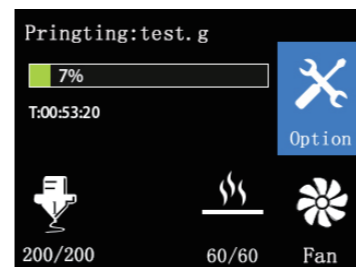


③ The nozzle is too far from the platform

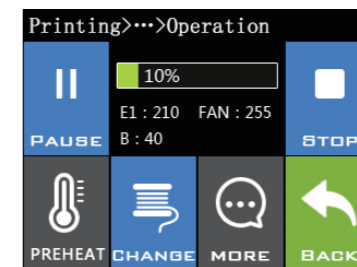


Click Z-0.1
nozzle moves down 0.1

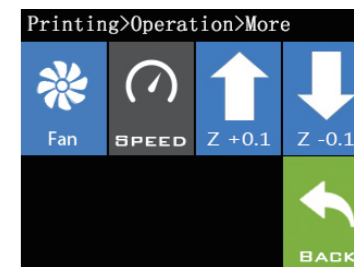
2. You can adjust the Z-offset while printing. The value can save automatically, There is no need to repeat the operation.



Click Option




Click More




Z+0.1 nozzle moves up 0.1
Z-0.1 moves down 0.1

B Use Part **B-4**
Touch Screen Introductions


1. Print




PRINT




PAUSE Pause print




RESUME Resume print




Fan Adjust fan speed




PREHEAT Adjust temp



STOP Stop print




SPEED Adjust speed




CHANGE Pause for change filament


2. More Operations




MORE




+0.1 X/Y direction increase in size 0.1



-0.1 X/Y direction decrease in size 0.1




Curvature Curvature down




Curvature Curvature up


3. Preheat




HEAT Preheat bed nozzle




EXTREDE1 Heat nozzle1




BED Heat bed



close Close heat




1° C Add 1°C




10° C Add 10°C


5. Change Filament




CHANGE Change Filament



IN Feeding




EXTREDE1 E1 change filament




OUT Take out filament


4. Extrusion




EXTRUDE Extrude Filament




EXTREDE1 Nozzle1 extrude




NORMAL Adjust speed



10mm Filament move 10mm




IN Extrude




OUT Back


6. Other Buttons




HOME Home




AUTO-LEVEL Auto level




MOVE Move



Z +0.1 Moves down 0.1



M-OFF Close all motors



Z -0.1 Moves up 0.1



B-5

Common Problems

1. What to do after automatic leveling?

- * Remove the leveling sensor, then adjust Z0, install the filament, then preheat the nozzle to 210 ° C, preheat the hot bed to 60 ° C, feed filament and start printing.

2. When the nozzle is too close or too far away from the hot bed after leveling?

Click during the printing process: Operate → More → Z+0.1 or Z-0.1

Click once to move the nozzle 0.1, Z+ nozzle moves up, Z-head moves downwards, the software automatically saves the value after clicking, and the value is saved until it is leveled again.

3. What is the printing temperature of the common materials?

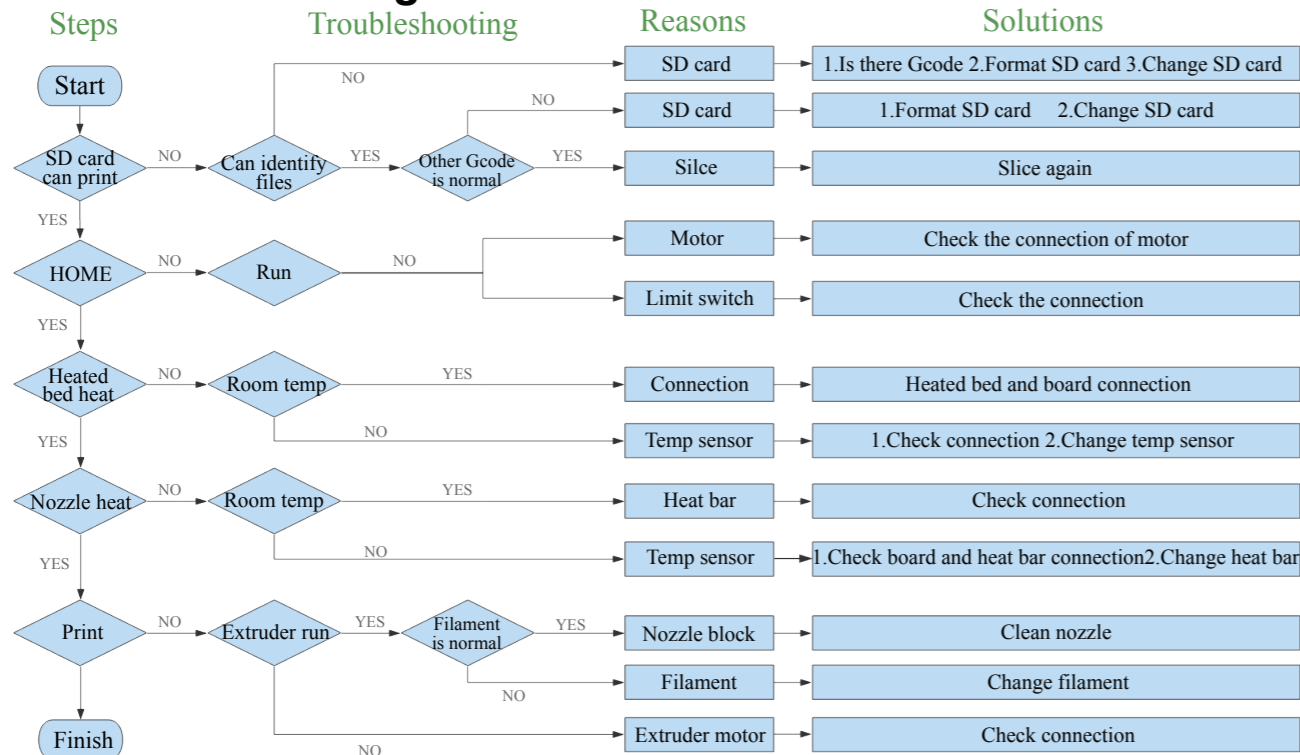
Number	Material	Nozzle	Hot bed	Number	Material	Nozzle	Hot bed
1	PLA	195-210	50-60	5	PVA	190-210	50-60
2	ABS	220-250	80-100	6	TPU	210-230	40-60
3	Nylon	200-220	50-60	7	WOOD	190-220	50-60
4	PETG	240-260	70-80	8	HIPS	230-250	60-80

4. The first layer can not normally stick to the platform.

- ①. The nozzle is too far away from the hot bed, please refer to the nozzle is too close or too far away from the hot bed
- ②. Select the Brim when attaching platform to slice, increasing the value of the line according to your needed, Set hot bed temperature to 65°

5. The nozzle block

- ①. Heating the sprinkler to 240 degrees, click fast extrusion.
- ②. Heating the sprinkler to 200 degrees, clean it with a sprinkler cleaning needle (hot, pay attention).
- ③. Replace a new sprinkler



1. Customers who purchase FLSUN 3D printers **have a shelf life of 12 months.**
2. The warranty period for all products is from the date of purchase.
3. You can find a solution from the user's manual, or contact the customer service of the website where you bought the printer.
4. You can also send mail to **our enterprise email: Service@flsund3d.com** please attach the purchase website and order number, and we will also solve the problem for you at the first time.
5. After-sales and pre-sale support time: Monday to Saturday: 9.00-18.00 (Beijing time).



B-7

Warranty Card

Type: _____

Purchase date: _____

Name: _____

Damage date: _____

Address: _____

Damage details: _____

Phone: _____

Amazon/AliExpress/Ebay/Others: _____

If you have any questions, please contact us at the first time and we will solve it for you.

Email: Service@flsund3d.com

james@flsund3d.com

Facebook group: FLSUN QQ 3D Printer Owners