

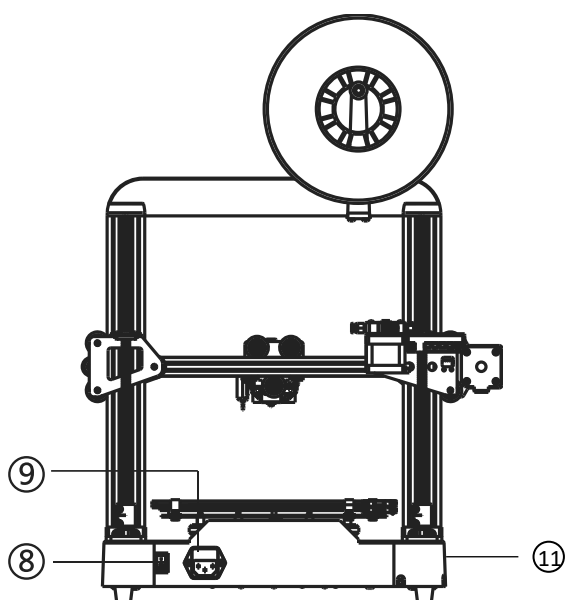
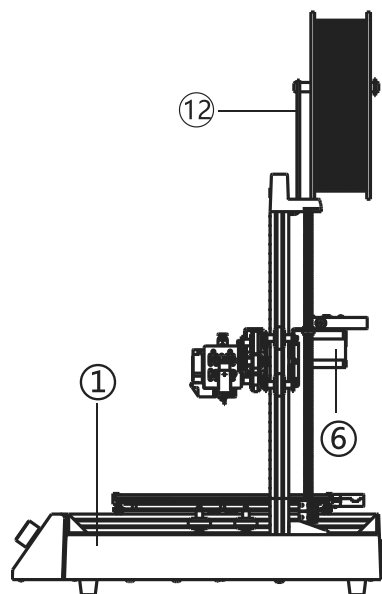
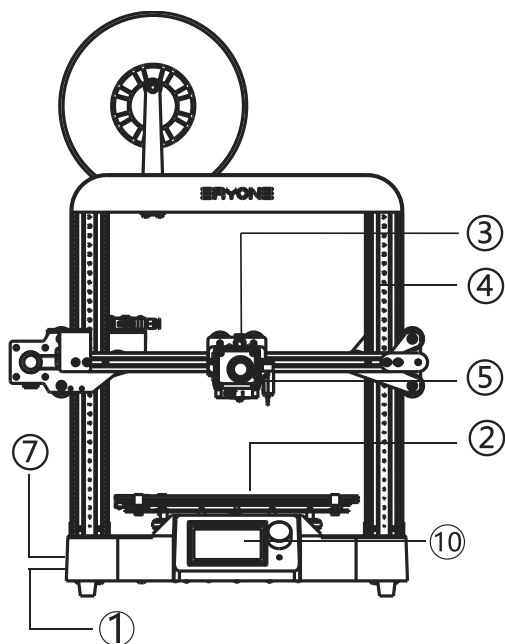
# Eryone ER-20

## Quick Starter Guide

Shenzhen Eryone Technology Co.,Ltd

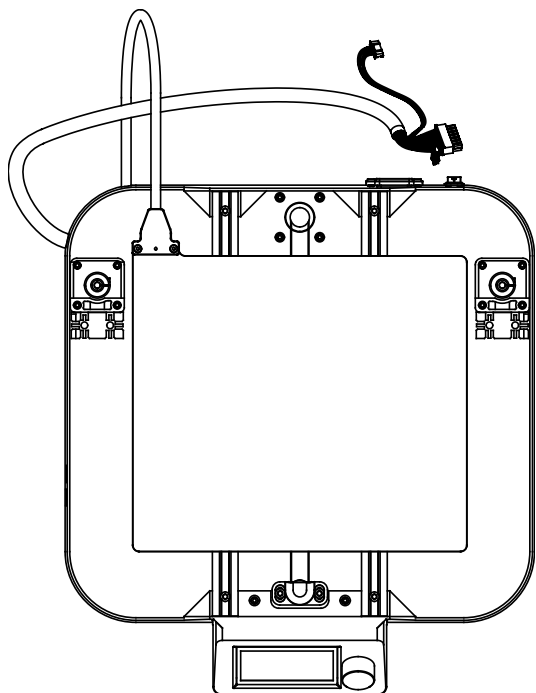


## Quick Assembly Overview

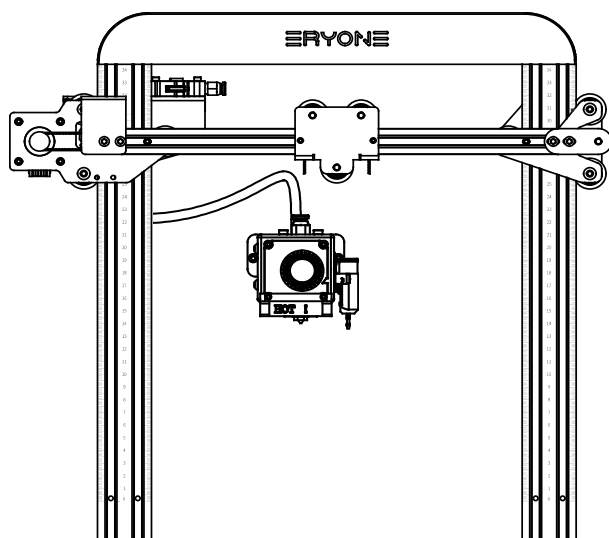


1. Base Frame
2. Printing Surface
3. Extruder
4. Gantry Frame
5. Ery Sensor
6. Extruder Stepper Motor
7. SD Card Slot
8. Power Switch
9. Power Cable Port
10. LCD Screen
11. USB Cable Port
12. Filament Spool Holder

# Prepare



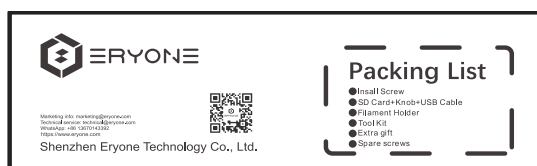
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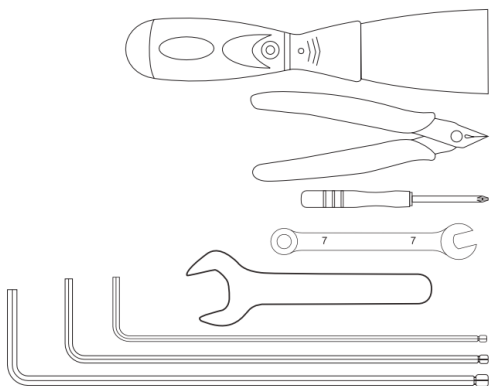
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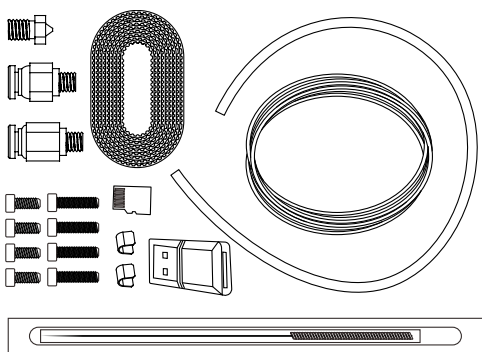
1. Base Frame Half Assembly
2. Gantry Frame Half Assembly
3. Lead Screw
4. All-in-One Toolkit Pack

## Tools and Accessories



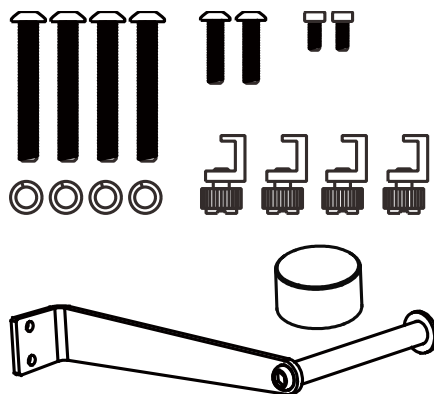
### Tool

- Slant Edge Scraper
- Shear Cutter
- Cross Screwdriver
- 7# Wrench
- 19# Wrench
- M3 Hex Key Allen Wrench
- M4 Hex Key Allen Wrench
- M5 Hex Key Allen Wrench



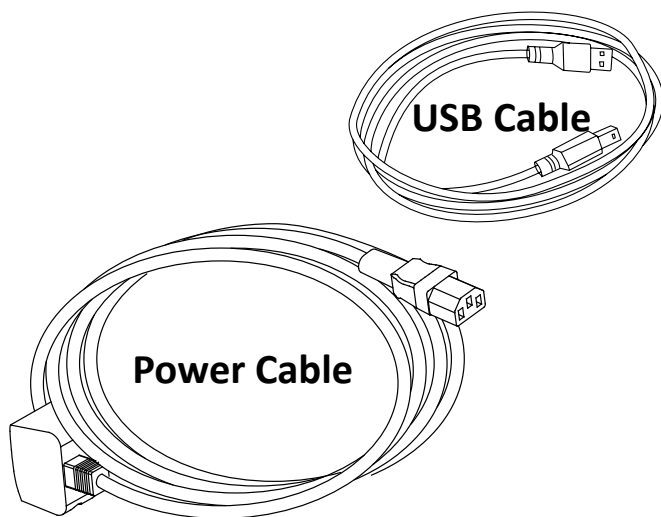
### Accessory Gifts

- Nozzle Cleaner Needle
- M3 x 6 Cap Head Hexagon Socket Screw
- M3 x 12 Cap Head Hexagon Socket Screw
- Blue Inner BoreTube Connector
- Black Inner Bore Tube Connector
- Nozzle



### Assemble Accessories

- M5X35 Round Head Hexagon Socket Screw
- M4X16 Round Head Hexagon Socket Screw
- M3X6 Cap Head Hexagon Socket Screw
- M5 Spring Pad
- Glass Hot Bed Clips
- Knob
- Filament Spool Holder



- Belt Fixing Copper Plate
- 8G Micro-SD Card
- Card Reader
- Belt
- Teflon Tube
- Filament

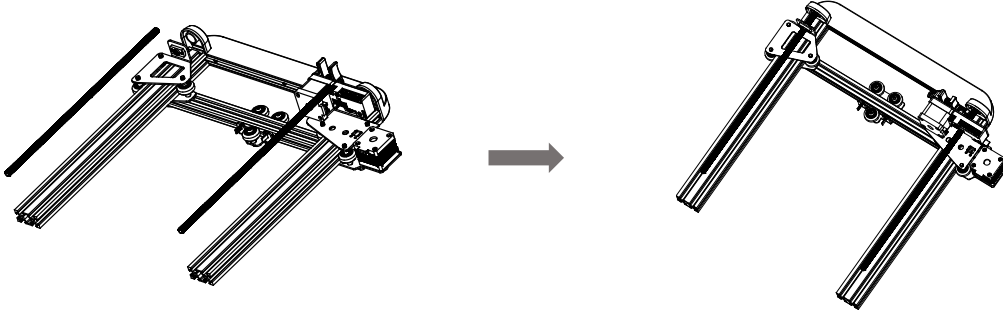
## Assembly

You can find the assembly video of Eryone ER-20 from here:

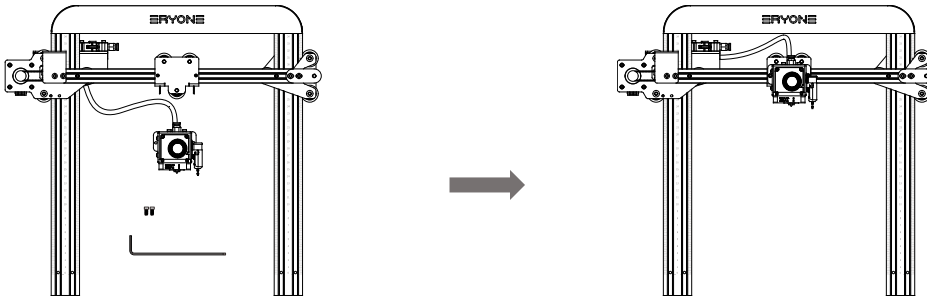
<https://www.youtube.com/c/Eryone3D>

### Step 1: Assemble the Gantry Frame

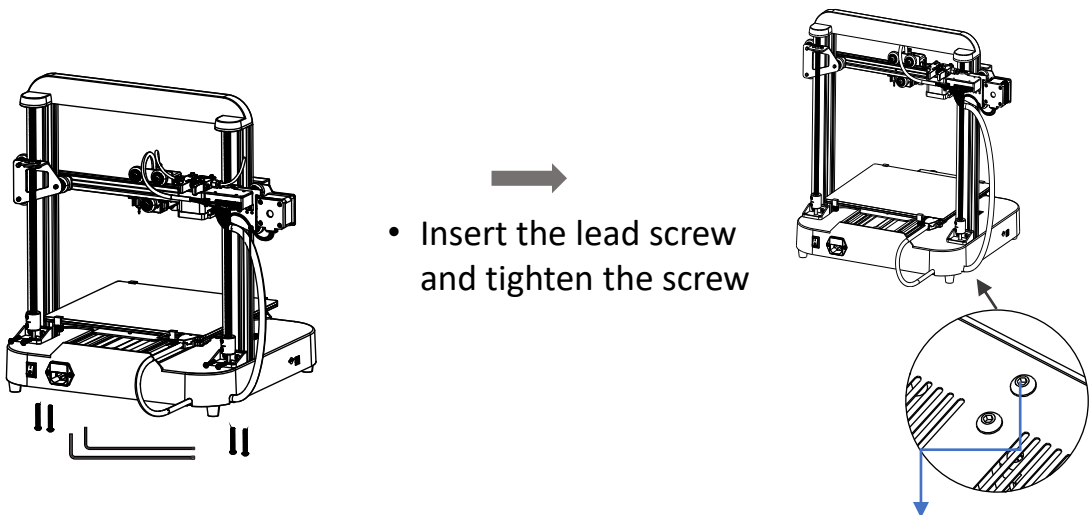
**1. Assemble the Lead Screw:** Take out the T8 x 8 lead screw and gantry frame parts, and insert the lead screws through the lead screw copper nuts by rotating.



**2. Assemble the Extruder:** After assembling the gantry frame parts, take out your M3X6 screws, use the hex key allen wrench to fix the extruder.



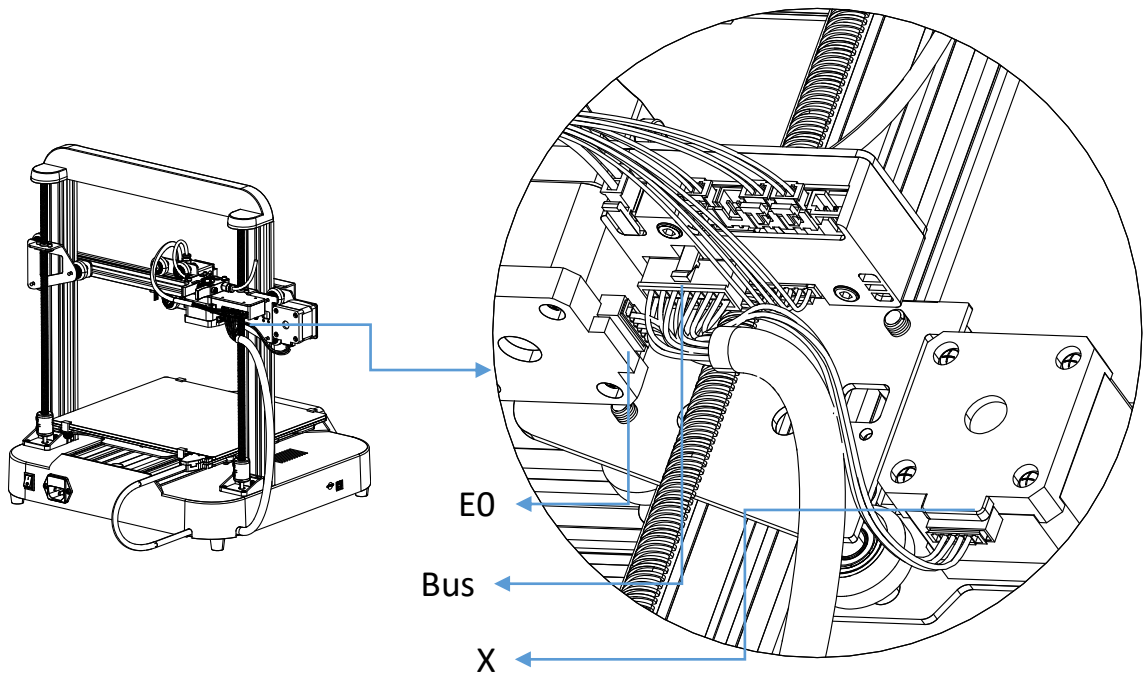
**3. Assemble the Gantry Frame:** Prepare the gantry frame parts, base, M5X35 round head hexagon socket screw x 4, M5 hex key allen wrench.



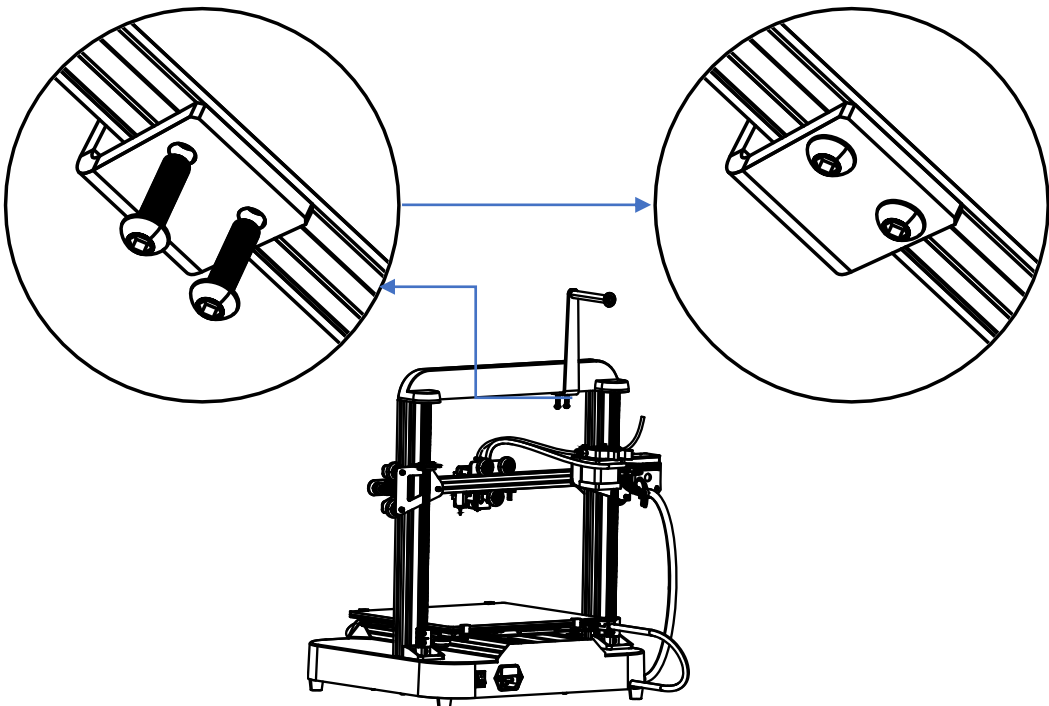
- Insert the lead screw and tighten the screw

- M5X35 round head hexagon socket screw at the bottom

**4. Connect Flat Cables:** According to the cable mark, connect the bus, E0 and X-axis motor cable.



**5. Assemble the Filament Spool Holder:** Prepare the filament holder, M4 x 16 round head hexagon socket screw x 2, M4 hex key allen wrench, and put the filament spool on the holder.



## Test Before Print

### -Movement test

Click “Motion” → “Auto Home” to execute the homing (home position: on the left side of the bed).

Info Screen	↑	Move Axis	→
Motion	→	Auto Home	
Temperature	→	Level Bed	
Configuration	→	Fade Height:	0
Change Filament	→	Disable Steppers	

### -Preheat hotend and heated bed

Choose “Temperature” → “Preheat PLA”. Observe the temperature of nozzle and bed.

Info Screen	↑	Main	↑
Motion	→	Nozzle:	0
Temperature	→	Bed:	0
Configuration	→	Fan Speed:	0%
Change Filament	→	Preheat PLA	→

Choose “Motion” → “Disable Stepper”. After unlocking the motor, we move it to the center of the X axis.

We observe and judge whether the two ends of X axis get the same reading on the scale mark bars (on the left and right sides). (You can skip this step if your printer already has the same reading on the two sides.) Now, start your calibration and rotate the couplings simultaneously till the two ends of X axis get the same reading.

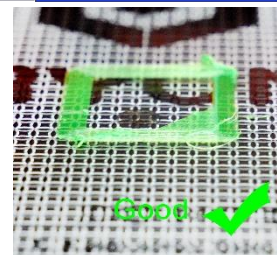
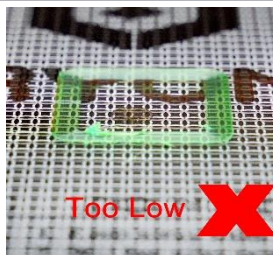
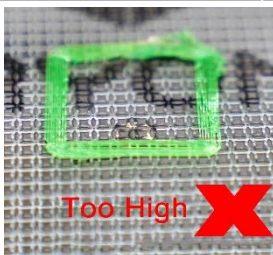
Info Screen	↑	Move Axis	→
Motion	→	Auto Home	
Temperature	→	Level Bed	
Configuration	→	Fade Height:	0
Change Filament	→	Disable Steppers	

## -Calibrate Z Axis

Choose “Configuration” → “Calibrate Z”. Choose “Yes”.

After you finish the homing, the Z axis height of the nozzle displays on the LCD in real time. Now turn down the height of the nozzle. Place the A4 paper between the nozzle and the glass platform. After that, you can push and pull this paper till you can feel the slight friction. Otherwise, you need to recalibrate Z axis.

Info Screen	↑	Main	↑	Start to calibrate the z probe offset?  NO YES
Motion	→	Advanced Settings	→	
Temperature	→	Probe Z Offset: -1.70	→	
Configuration	→	Calibrate Z	→	
Change Filament	→	BL Touch	→	



## Printing

The printer is now ready to print, we can print the test gcode at first.

1) You need to insert the SD card to printer.

2) Then click LCD button→Print from SD card→Select “Test\_1.gcode”

After test model is complete. You need to learn how to slice till files to be able to print your own model.

Configuration	→	Main	↑
Change Filament	→	Test_2.gcode	
About Printer	→	Test_1.gcode	
Change Media		DUser manual	
Print from Media	→	DUSB Drivers	

If you want to learn more about 3d print. You can refer to “Eryone ER-20 User Manual”.