

# Artillery 472514 Genius Pro 3D Printer Instruction Manual

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# Artillery

**Artillery 472514 Genius Pro 3D Printer**



READ THIS MANUAL COMPLETELY BEFORE

## **ASSEMBLING AND POWERING UP YOUR PRINTER!**

### **HAZARDS AND WARNINGS**

The Artillery Genius Pro 3D Printer has motorized and heated parts. When the printer is in operation, always be aware of possible hazards.

#### **ELECTRIC SHOCK HAZARD**

Never open the electronics bay of the printer while the printer is powered on. Before removing the access panel, always power down the printer and unplug the AC power cord.

#### **BURN HAZARD**

Never touch the extruder nozzle, the heater block, or the heated bed without first turning off the hotend and heated bed and allowing it to completely cool down. The hotend and heated bed can take up to twenty minutes to completely cool down. Also, never touch recently extruded filaments. The filament can stick to your skin and cause a burn.

#### **FIRE HAZARD**

Never leave flammable materials or liquids on or near the printer when powered on or in operation. Liquid acetone and vapors are extremely flammable.

#### **PINCH HAZARD**

When the printer is in operation, be careful never to put your fingers in the moving parts, including the belts, pulleys, gears, wheels, or lead screws.

## **STATIC CHARGE**

Make sure to ground yourself before touching the printer, especially the electronics. Electrostatic charges can damage electronic components. To ground yourself, touch a grounded source.

## **AGE WARNING**

For users under the ages of 18, adult supervision is recommended. Beware of choking hazards around children.

## **PRODUCT WARRANTY**

The Artillery Genius Pro 3D Printer is covered by a limited warranty. For terms and conditions, see <https://desk.zoho.com/portal/evnovo/en/kb/articles/evnovo-limited-warranty>

## **OVERALL PROVISIONS**

All information in this user manual (“Manual”) is subject to change at any time without notice and is provided for convenience purposes only. Shenzhen Yuntuchuangzhi Technology Co., Ltd. and our respective affiliates and suppliers (“Artillery”) reserves the right to modify or revise this Manual in its sole discretion and at any time and makes no commitment to provide any such changes, updates, enhancements, or other additions to this Manual in a timely manner or at all. You agree to be bound by any modifications and/or revisions. Contact the Artillery Support Team for up-to-date information.

## **INTELLECTUAL PROPERTY**

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## **DISCLAIMERS**

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## **LETTER FROM ARTILLERY**

Dear Customer, Thank you for choosing Artillery Genius Pro 3D Printer. This guide will step you through the assembly and the first run of the printer. If you have any problems during assembly, please contact our customer service or visit our official Facebook group at:

<https://www.facebook.com/groups/artillerygeniuspro/>

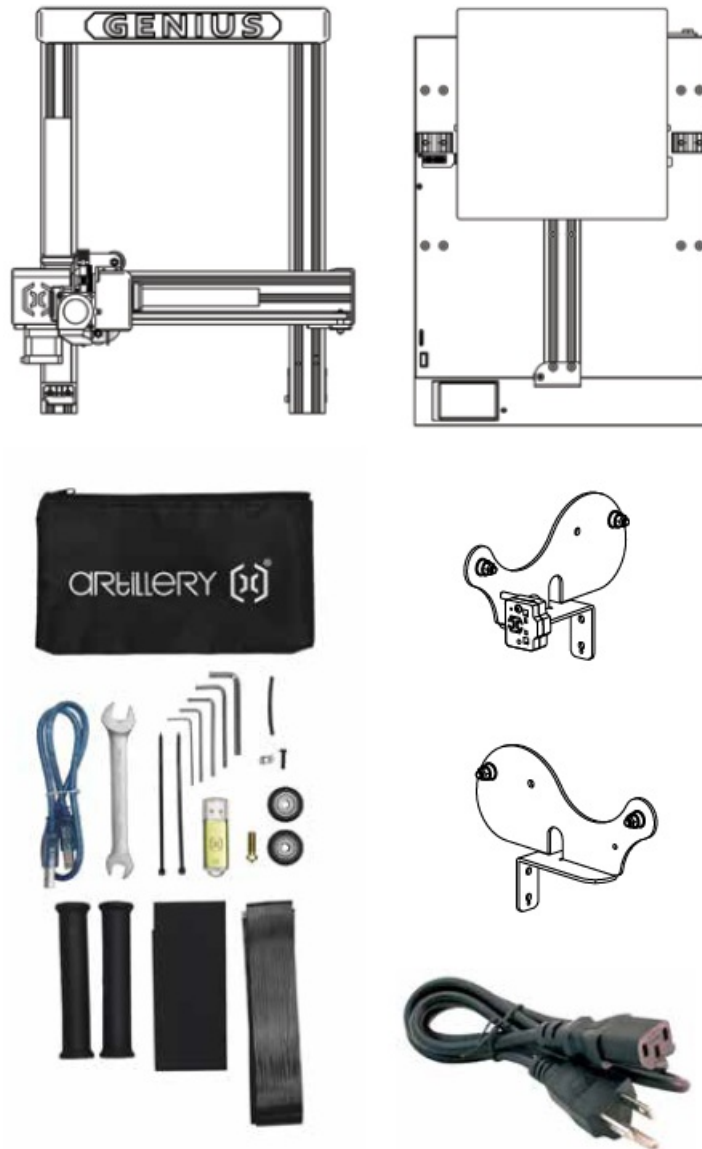
For a detailed warranty policy, please visit

<https://desk.zoho.com/portal/evnovo/kb/articles/evnovo-limited-warranty>

For support, please send an email to [support@artillery3d.com](mailto:support@artillery3d.com)

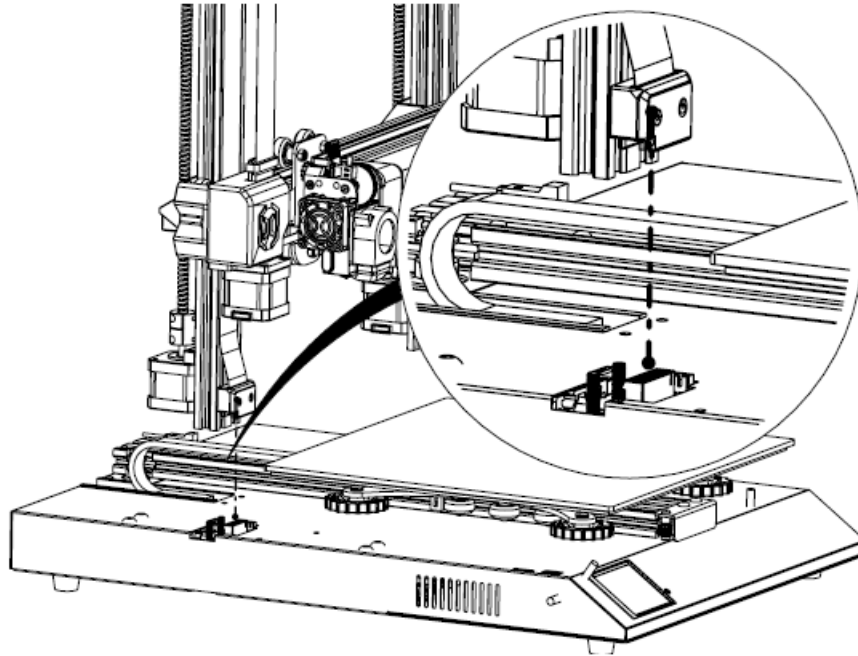
or visit our ticketing page at <https://desk.zoho.com/portal/evnovo/newticket> Or you can visit our Facebook group at <https://www.facebook.com/artillery3d> Regards, Artillery

## ACCESSORY CHECKLIST

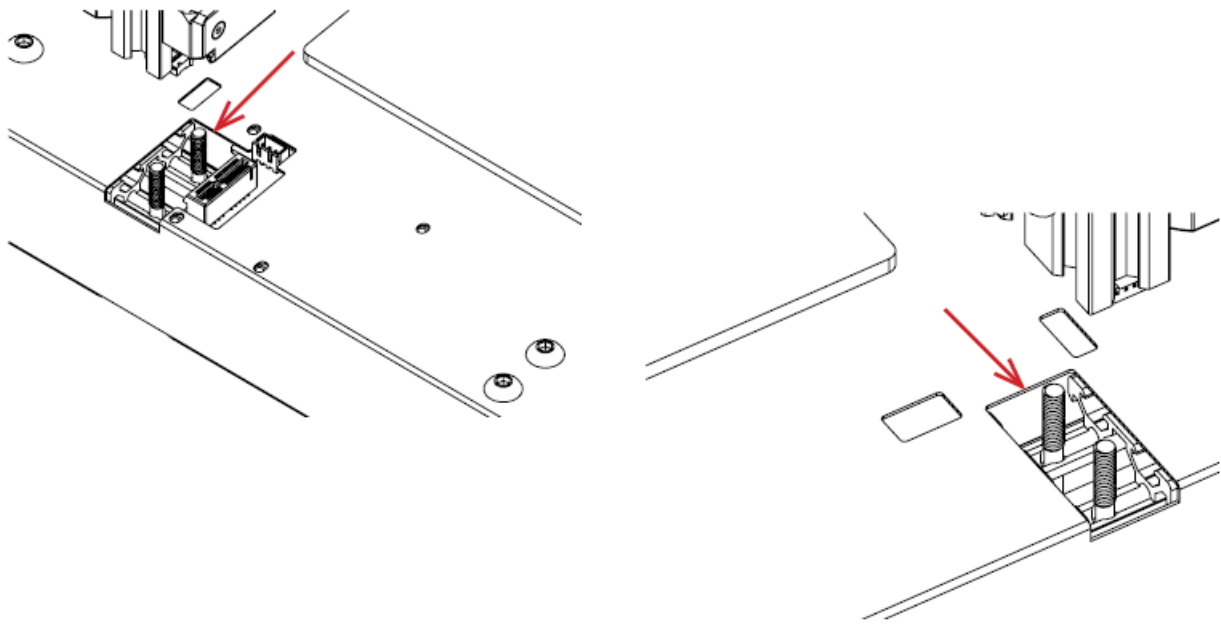


## ASSEMBLY

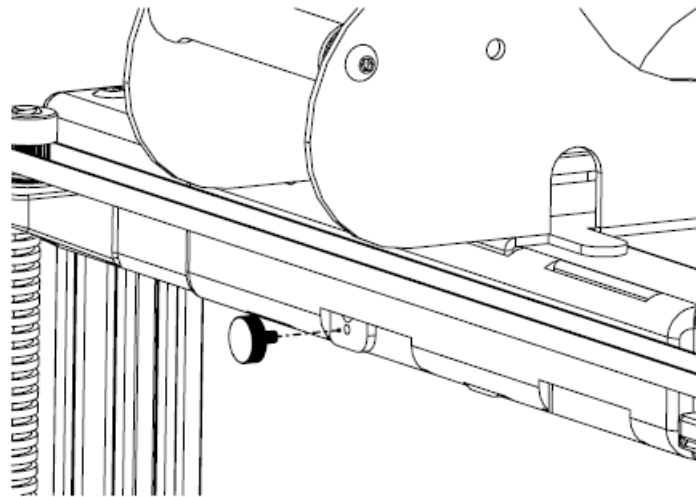
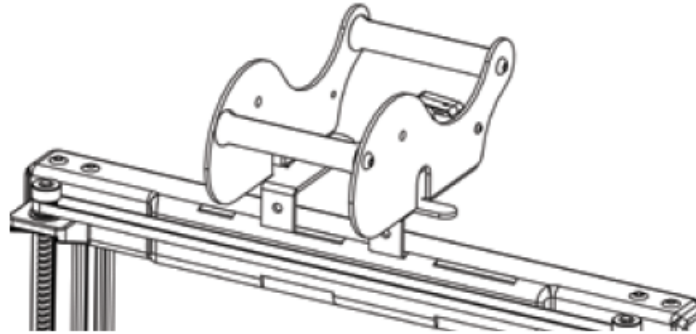
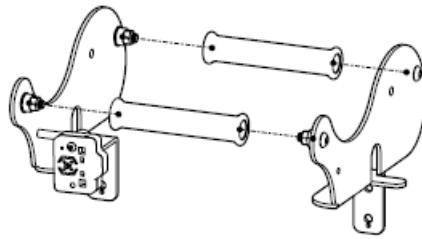
1. Align the XZ gantry to the base, make sure the connector is perfectly aligned to the female connector on the base.



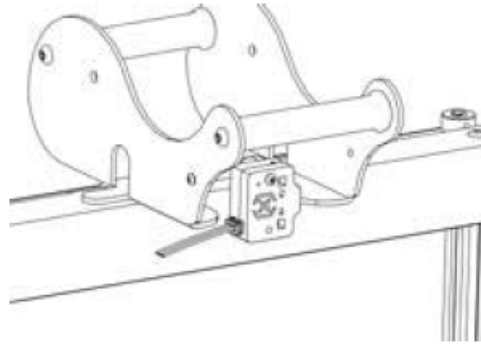
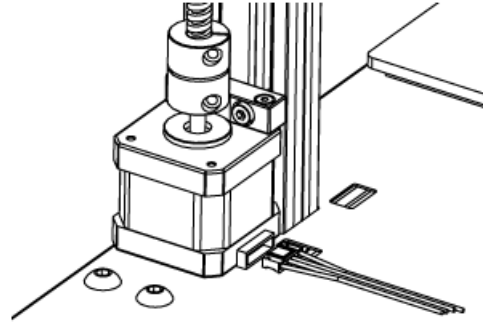
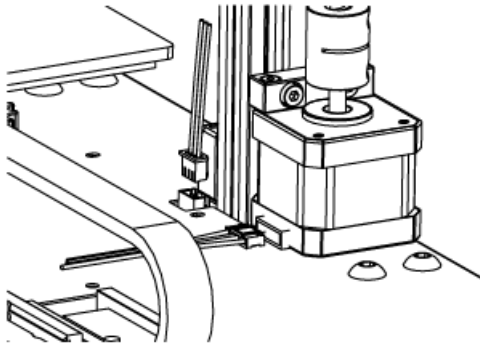
2. The M5 screws used to fasten the XZ gantry to the base are pre-inserted into the extrusion, use the Allen key provided to tighten the screws. Push the aluminum extrusions against the inside of the slot when tight-ening the screws.



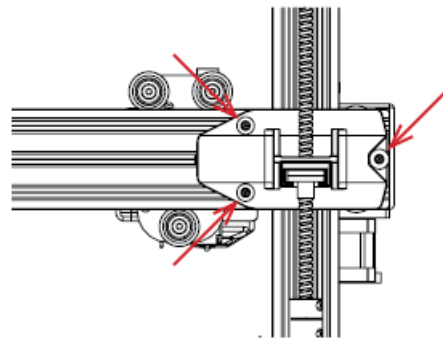
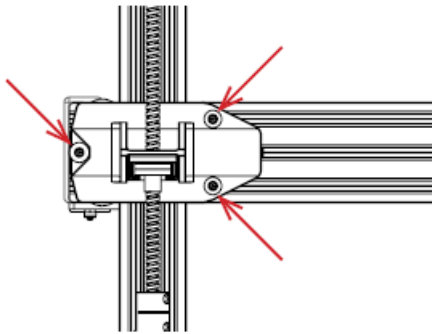
3. Assemble the spool holder as shown in picture, then slide it into the slots on the top of the top beam. Then use the knob supplied to fix it in place.



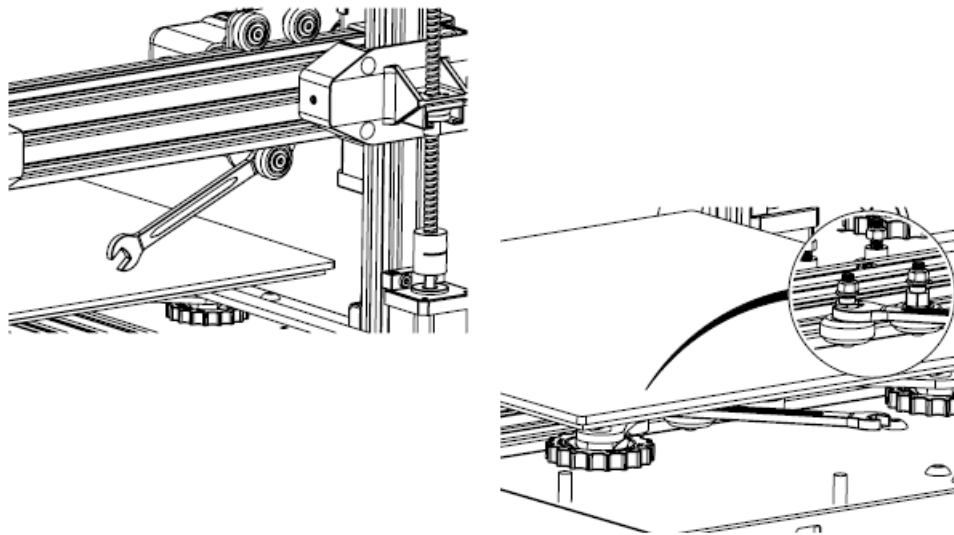
4. Connect the Z stepper motors and filament runout sensor.



5. Loosen the 6 screws holding the carriages on both sides then tighten them ONLY when wheels on Z carriages not properly seating on the aluminum extrusions.



6. Adjust the bed carriage and hotend carriage by turning the eccentric nuts with the wrench supplied.



## LEVELING THE BUILD PLATE

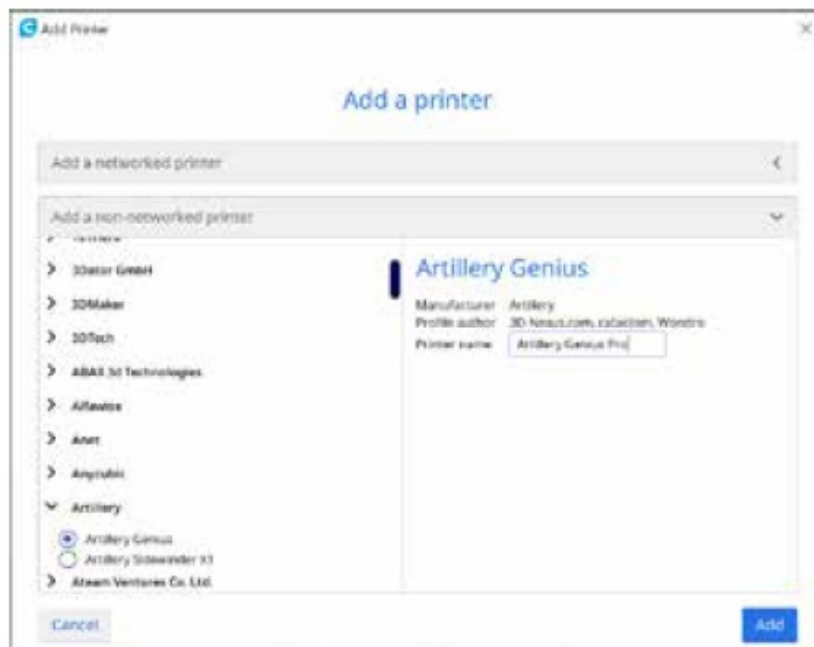
The Genius Pro comes with Auto Bed Leveling Sensor, it will perform a self-test when you power on the printer, if it doesn't, please do not proceed and check on the cables to make sure they're correctly seated.

1. Home the printer;
2. Heat up the bed and the hotend to 70 ° C and 240 ° C respectively;
3. Go to Tools -> Level;
4. Slide a piece of A4 paper between the nozzle and the build plate;
5. Move the hotend to all 4 corners to repeat step 6;
6. Turn the leveling knob under the bed closest to the nozzle until the piece of paper slides, with just a bit of drag;
7. From the menu, go to Tools -> More and click on Auto-Level;
8. The printer will initialize the auto bed leveling procedure, wait till it finishes;
9. Click EEPROM Save;
10. Do the following only if the nozzle is scratching on the build plate or the nozzle too far from the build plate;
11. Heat up the bed and the hotend to 70 ° C and 240 ° C respectively;
12. Go to Tools -> More -> Z=0;
13. The nozzle will move to the center and at 0 height;
14. Slide the A4 paper between the nozzle and bed again, use +0.025 and -0.025 button to adjust the nozzle distance from the build plate until the piece of paper slides, with just a bit of drag;
15. Click EEPROM Save once you're happy with the drag on the A4 paper;
16. Repeat Step 2 to Step 9.
17. To enable compensation for auto-leveling, add M420 S1 Z10 after G28 in starting Gcode.

## PREPARING SLICING SOFTWARE

This printer works with most slicing software like Slic3r, Cura, Simplify3D, etc. But we will go into detail about Cura software and tell you how to set it up so that you can make your first print. First, please download the software from their official site. After installation and start the software, you should see the following screen, continue until you see Add a printer page:





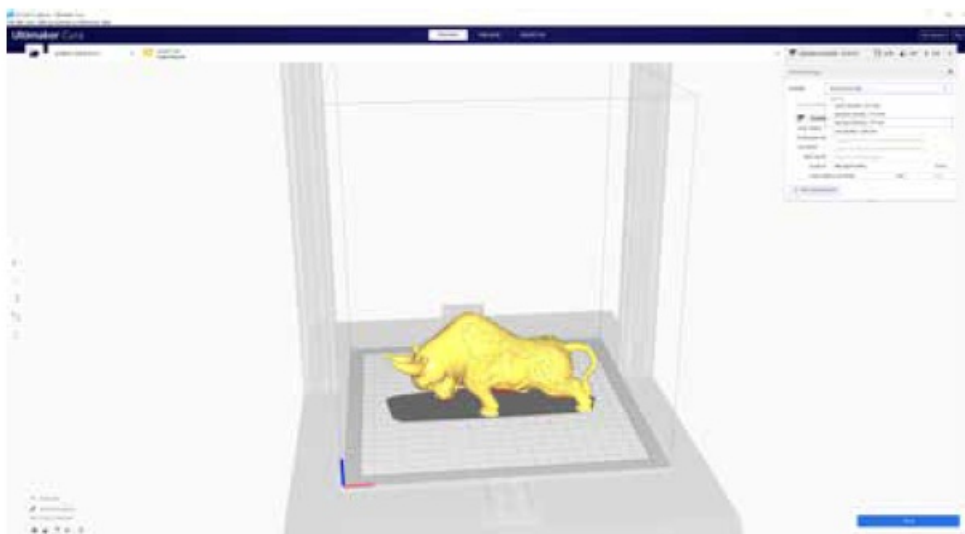
In the Add a non-networked printer, scroll down to Artillery and choose Artillery Genius, and type in Artillery Genius Pro in Printer name. Then click on Next button.



Set X (Width), Y (Depth) as 220, Z (Height) as 250. Make sure Heated Bed is checked.

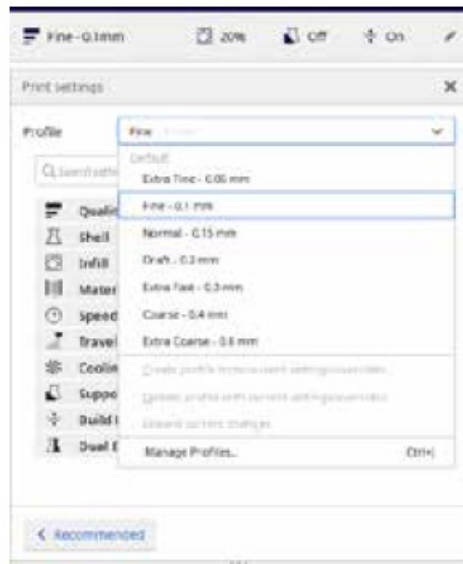


Make sure Compatible material diameter is set to 1.75

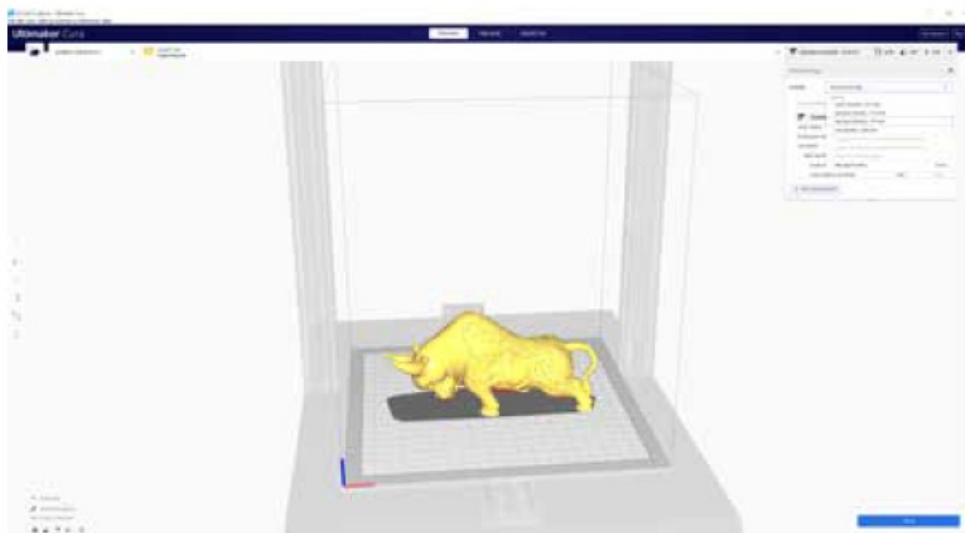


Drag and drop the STL file (or other supported formats) to the slicer or load the model file with File -> Open File(s)

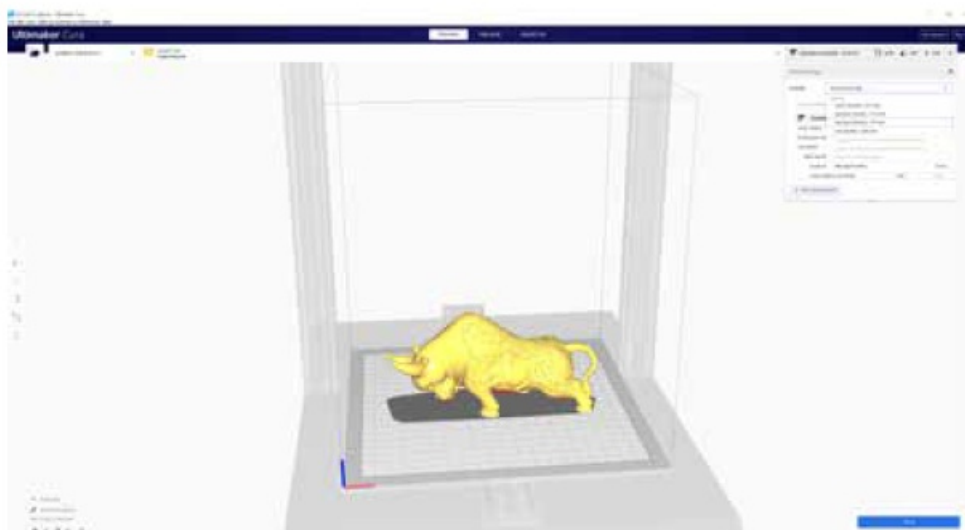
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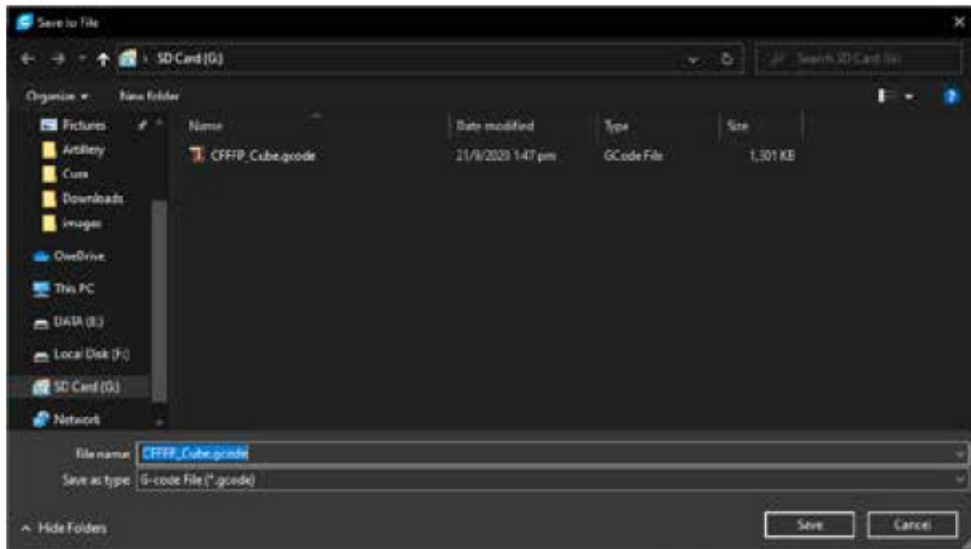
From the Profile dropdown, choose the preferred profile.



Click on Slice button.



You can click on Save to Removable Drive or Save to file button to save the sliced file to the memory card/USB Drive.



Save the file to the USB drive/memory card for printing.



Insert the USB Drive / memory card into the printer then click on PRINT.



Choose the file you want to print.



Click on Confirm and the print should start.

## **SPECIFICATIONS**

### **PRINTING**

- Print Technology: Fused Deposition Modeling
- Build Volume: 220x220x250 mm (8.7×8.7×9.8 in)
- Layer Resolution: 100-300 microns
- Filament: 1.75 mm (0.069 in)
- Nozzle Diameter: 0.4 mm (0.015 in)
- Print File Type: Gcode
- Material Compatibility: PLA, PETG, TPU

### **SIZE & WEIGHT**

- Product Dimensions: 430x390x590 mm (16.9×15.4×23.2 in)
- Shipping Box: 528x428x310 mm (20.8×16.9×12.2 in)
- Printer Weight: 9.6 kg (21.2 lbs)
- Shipping Weight: 11.7 kg (25.8 lbs)

### **ELECTRICAL**

- Power Requirements: 110V/220V, 350W
- Connectivity: Memory Card, USB Stick, USB

### **MECHANICAL**

- Construction: Aluminum, ABS
- Build Surface: Glass + Aluminum plate
- Stepper Motors: 1.8° step angle with 1/256 micro-stepping
- XY Positioning Precision: 10 microns
- Z Positioning Precision: 100 microns

## CONTACT

### Support

[desk.zoho.com/portal/evnovo/en/newticket](https://desk.zoho.com/portal/evnovo/en/newticket) At Artillery, we take pride in offering expert, responsive, friendly customer support to customers around the world. If you need help resolving an issue with your Artillery 3D printer, visit the web address above to submit a ticket


### Sales

[ytcz@artillery3d.com](mailto:ytcz@artillery3d.com) To learn about other Artillery products, please email the address above.

### Feedback

[ytcz@artillery3d.com](mailto:ytcz@artillery3d.com) For general questions, or to tell us what's on your mind, send an email to the address above. We love to hear from you.

## Documents / Resources

|   |   |
|---|---|
|  | <p><a href="#">Artillery 472514 Genius Pro 3D Printer</a> [pdf] Instruction Manual<br/>472514, Genius Pro 3D Printer, 472514 Genius Pro 3D Printer, Pro 3D Printer, 3D Printer, Printer</p> |
|---|---|

## References

- [desk.zoho.com/portal/evnovo/en/kb/](https://desk.zoho.com/portal/evnovo/en/kb/)
- [desk.zoho.com/portal/evnovo/en/kb/articles/evnovo-limited-](https://desk.zoho.com/portal/evnovo/en/kb/articles/evnovo-limited-)
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- [desk.zoho.com/portal/evnovo/kb/](https://desk.zoho.com/portal/evnovo/kb/)
- [Artillery 3D Printers Genius Pro & Sidewinder X2 110V US PLUG SW-X2 FDM Extruder 220V EU Exclusive Ultra-quiet Stepper Driver with Filaments](#)
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