



HOW TO OPERATE THE 3D PRINTER ULTIMAKER S5



Machine Operation

1

Wipe the glass plate clean before printing since filament adheres poorly to dirty glass which can affect your print quality.



CAUTION!!

Always **make sure** that the build plate has cooled down. **Ensure** the build plate is lowered to the bottom of the Z axis.



Machine Operation

How to Clean The Glass Plate

A

Remove the build plate clamps on both sides.



B

With both hands, gently **remove** the glass plate. Be extra careful when taking out the glass as it is fragile.



Machine Operation

C

To avoid scratching the glass plate, **prepare** a dry, clean towel or piece of tissue paper.



D

Use alcohol to gently clean the entire glass, then dry it off with a clean towel or tissue paper.



E

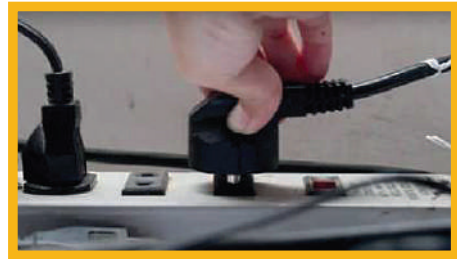
After cleaning, **reattach** the glass plate to the 3D printer.



Machine Operation

2

Plug in the machine to the outlet.



3

Turn on the device behind the printer.



Machine Operation

4

Unload the previous filament material.



5

Load it with your new selected filament material.



FAQ/s

What are the types of Ultimaker fillaments and its uses?

PLA

Produces stiff and strong parts given its great physical properties.



TOUGH PLA

A technical PLA (polylactic acid) material with toughness similar to ABS.

It is ideal for printing functional prototypes and tooling at larger sizes.



ABS

Has a heat tolerance, which allows it to withstand hot temperatures, but where it really shines is its durability.

Ideal for items that are frequently handled, dropped, or heated.



Ultimaker <https://ultimaker.com>

Machine Operation

How to Unload and Load the Filament

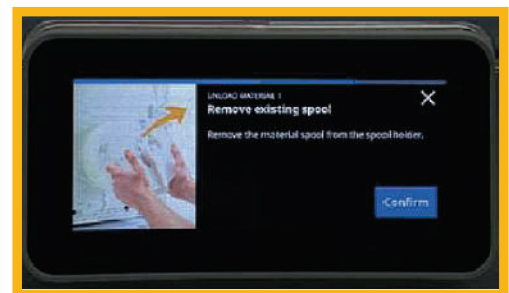
A

Click the second icon on the left side of the screen and **click** the material and **press** “unload”



B

Press “confirm” to remove existing spool.



Machine Operation

C

The filament will automatically exit the nozzle. **Pull** the lock upwards to open the feeder and take out the previous filament.



D

Remove the previous spool from the back by gently pulling it up.



Machine Operation

E

Place the new material spool on the spool holder.



F

Before inserting the filament into the hole, **sharpen** it with pliers.



Machine Operation

G

Insert the filament into the feeder 1 about 3 inches then **lock** by pulling it downward.



H

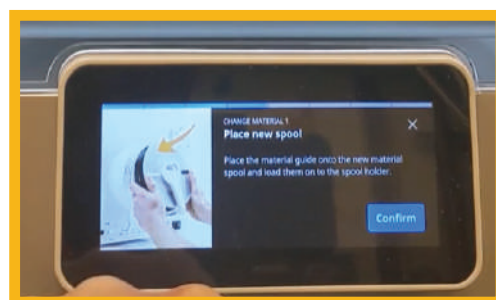
Press “load” in the screen to load the new filament material.



Machine Operation

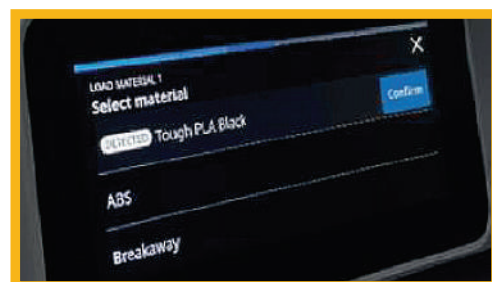
I

Press “confirm” to place new spool.



J

Press “confirm” to verify the selected material used.



Machine Operation

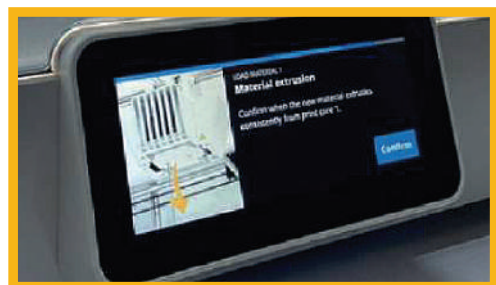
K

Press “confirm” when done inserting material and the filament will automatically go to the nozzle and extrude the material.



L

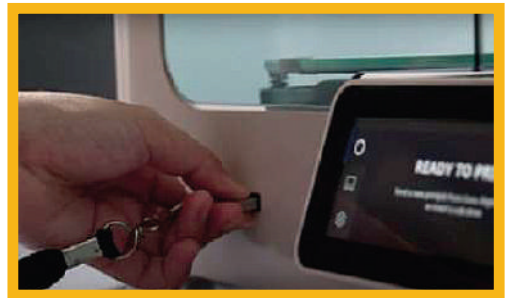
Press “confirm” after material extrusion and the type of material will display on the screen.



Machine Operation

6

Insert flash drive to 3D printer.



7

Press “select from USB” to select yur file.



Machine Operation

8

Select your file and press “Start Print”



9

You can leave the machine until print is finish.



FAQ/s

Can you run a 3D printer for days?

The 3D Printer can run up to 24 hours or days but the problem is the wires get heat up and may result in any power failure and thus can lead to wastage of time. Like for example, if there is a brownout, for instance, it will cause an error and will restart printing.

What if the filament runs out during the printing process?

It will be detected by the machine that there is no more filament and the printing will be paused. Then you will need to load a new filament.

Does pausing a 3D print ruin it?

It is not recommended to pause prints a considerable amount of time as the printed model will shrink and might warp during the pause. Also, layer bonding between the old and the new part after resuming will be weak, but this can be used to induce planned breaking layers.

FAQ/s

What to do when there is a sudden power outage, a power surge, and a brownout?

STEP 1

Locate layer height to resume the print form and delete the entire g-code before that layer.

STEP 2

Make sure the bed and extruder temperatures are set to the correct values on the printer.

STEP 3

Save the g-code file and print it to resume your print from Z.

Also, if you know that exact height from which you want to start printing, you can also use the start printing from height-feature in Simplicity 3D.

Go to> Edit process settings> Advanced>Layer modifications and set the height.

Although these are very effective method to save a print, an irregular layer might be visible at the height from which your print was recovered. But this can be easily sandpapered to make it smooth.

Machine Operation

10

When you finished printing, **press** “confirm removal” and allow the machine to cool down first before taking out the object.



11

Take out the object using a spatula or scraper.

NOTE:

Don't use knife or any sharp objects to take out your objects as this can damage it.



Machine Operation

12

Close the window and **eject** your flashdrive.



13

Turn off the machine.



14

Unplug the power.

