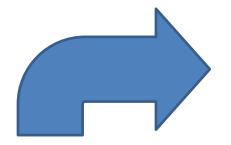
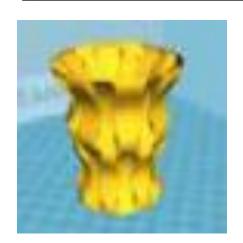
How does our entry level 3Dprinter works?





1. Model Preparation
Use a 3D modeling
software to output
stl or obj format 3D
model file.







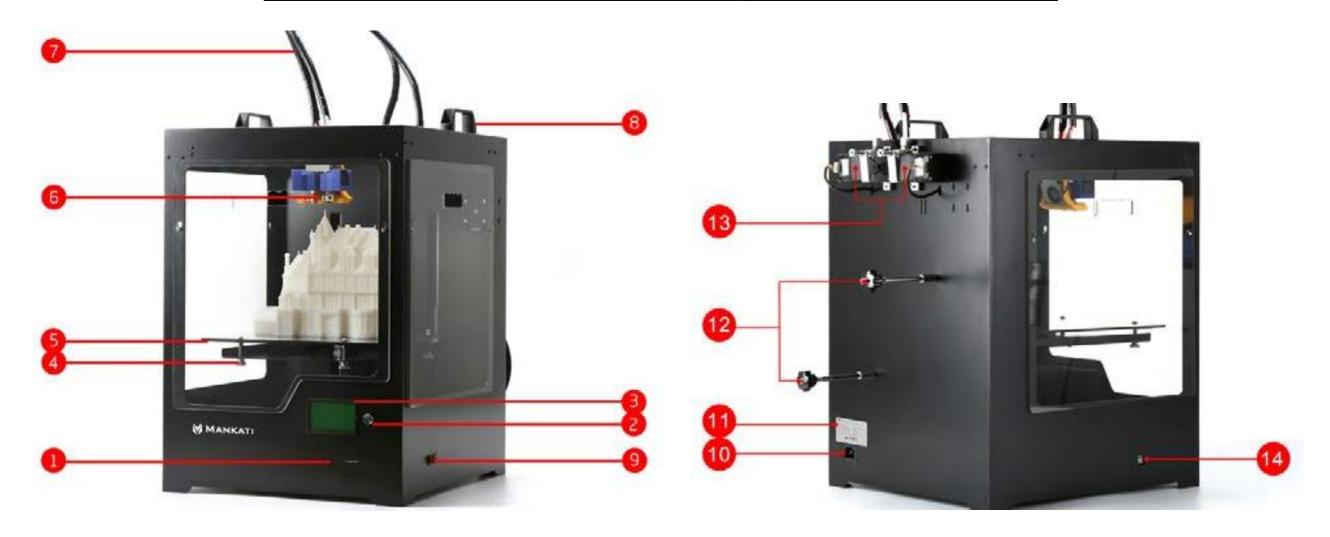
- 2. Slicing the Model
 Import your model
 to a designated
 slicing software to
 prepare the gcode
 file for 3D-printing.
- 3. Transfer the GCode file
 Save the GCode file
 into the SD card, and
 insert it into the SD
 card reader of the
 printer.



4. Prepare to Print it!

Operate the knob
beside the LCD and
choose the model
from the SD card
inserted into the
printer.

Printer Components

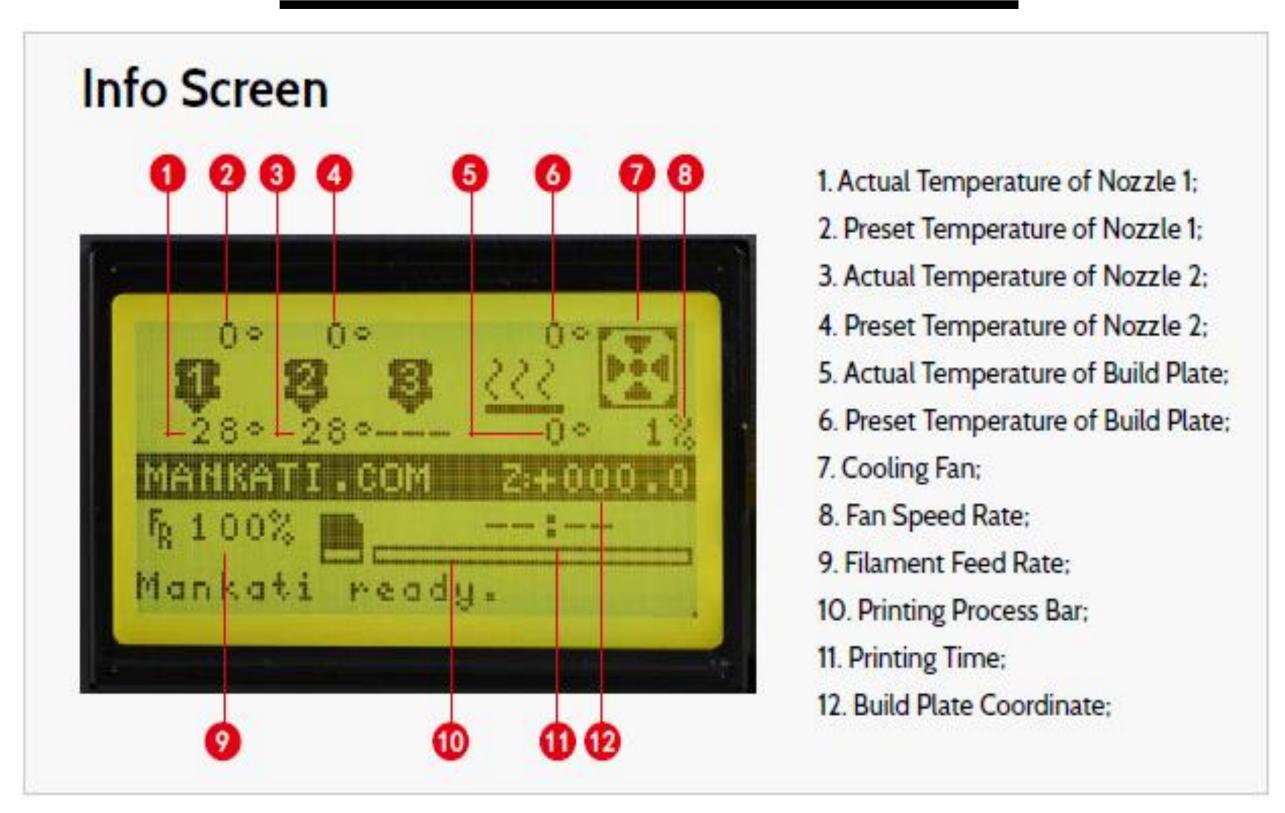


- 1. SD-card slot
- 2. Push and rotate knob
- 3. LCD screen
- 4. Build plate screws
- 5. Build plate

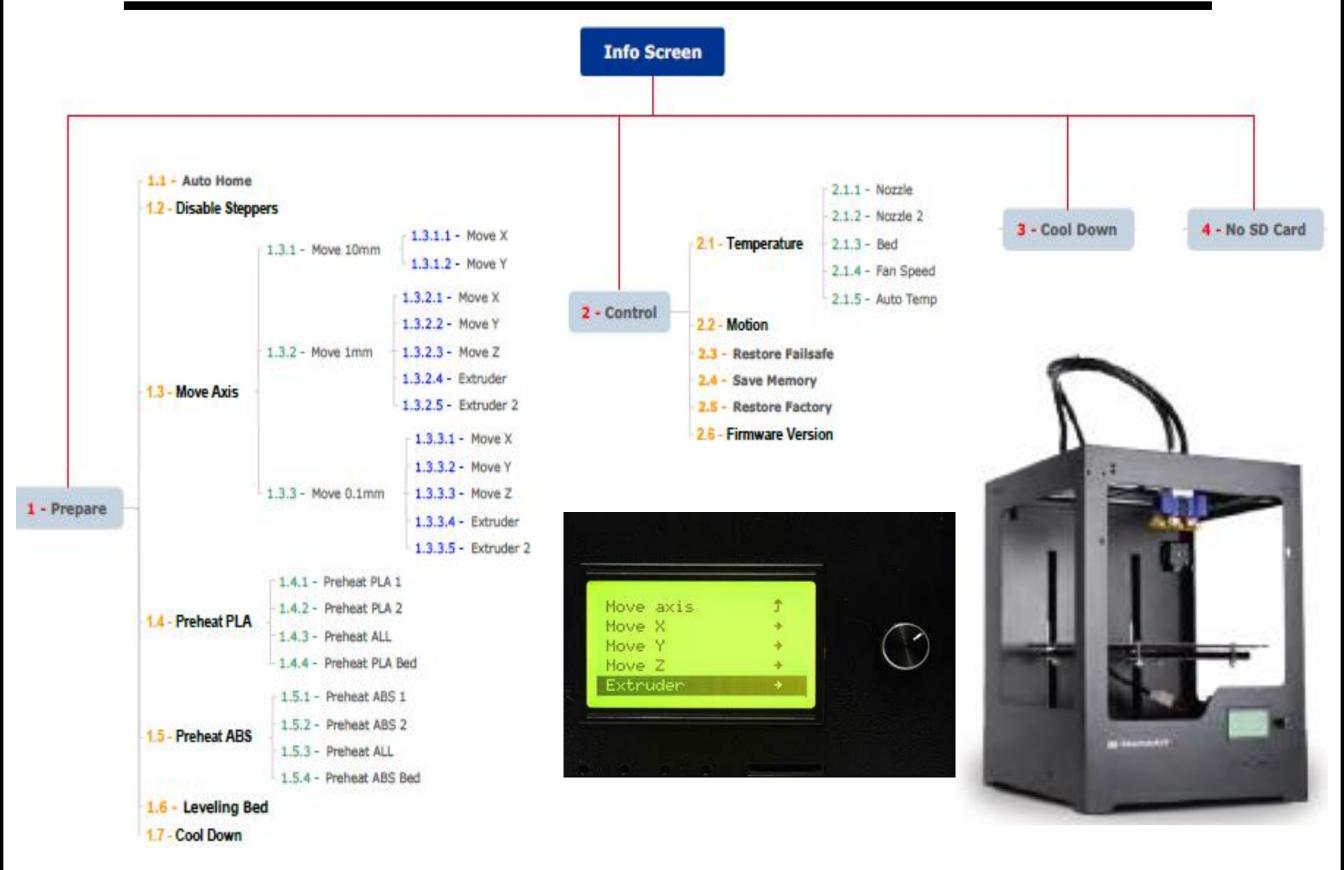
- 6. Print head
- 7. Filament guide tube
- 8. Printer holder
- 9. Power switch button
- 10. Power Socket

- 11. Machine label
- 12. Spool holder
- 13. Feeder motor
- 14. USB Socket

Printer Info Screen



Printer LCD Menu Structure



Prepare Printer for Printing

- 1) Clean the build bed by ensuring there is no printing leftover
- 2) Press the knob: LCD Main Menu appear
- 3) Rotate the knob: Prepare -> Auto Home
- 4) Rotate the knob:
 - Prepare → Preheat PLA → Preheat PLA1
- 5) Rotate the knob:
 - Prepare \rightarrow Move axis \rightarrow Move 1mm \rightarrow Move Z \rightarrow 20 (Turning the knob *clockwise*)
- 6) Rotate the knob:
 - Prepare \rightarrow Move axis \rightarrow Move 1mm \rightarrow Extruder \rightarrow
 - 20 100 (Turning the knob clockwise)
- 7) Ensure the filament is extruding out until it stops.

Printing your Model



1. Insert SD-Card



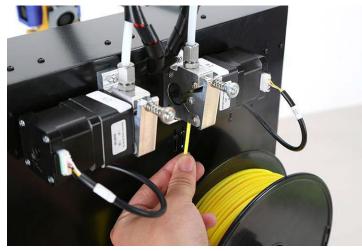
- 2. Select Print from SD
- 3. Select the gcode file to be printed

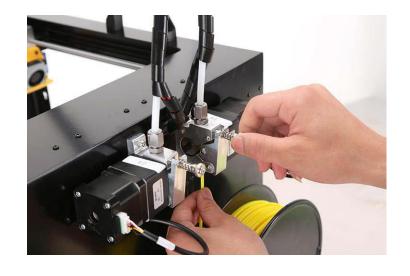


- **4**. When printing completed, the build plate will move down and be heated to 50°C automatically for model removal.
 - Use shovel to take it out gently to avoid the damage of the heat bed glass and your model.

Loading Filament







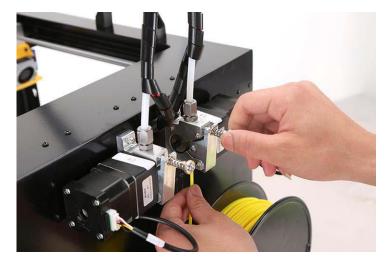
- 1. Preheat the nozzle:Prepare → Preheat PLA → Preheat PLA 1
- 2. Wait for nozzle to reach filament preheat temperature.
- **3.** Feed the end of the spooled filament into the filament guide tube until it emerges from the nozzle. Feed gently.
- **4.** Tighten the spring-loaded screw to fix the filament with the clamp, making it not too loose or too tight.

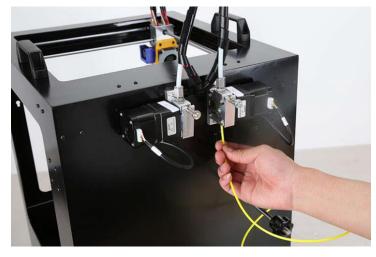
Caution:

- 1. Ensure the clamp is not too tight or too loose, otherwise, filament feeding will have problem causing failure prints.
- 2. After feeding successfully, check if filament has twining and knotting to ensure filament feeding smoothly.
- 3. Lubricate the XY axis and sliding blocks to avoid motion stuck.

<u>Unloading Filament</u>





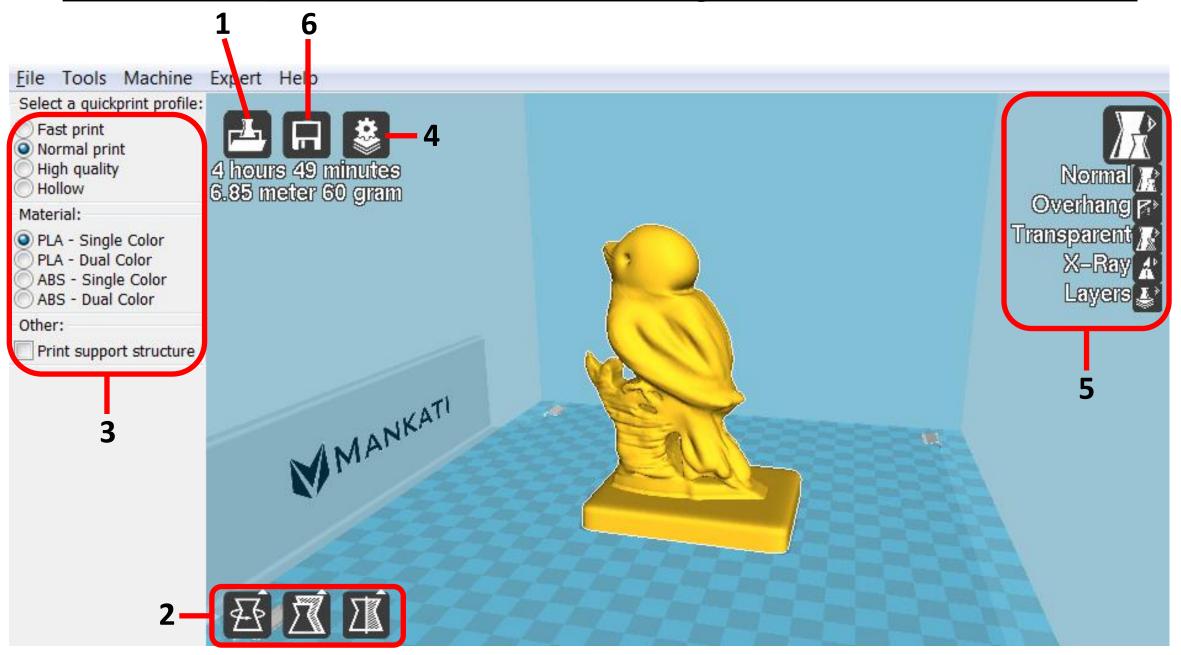


- 1. Preheat the nozzle:Prepare → Preheat PLA → Preheat PLA 1
- 2. Wait for nozzle to reach filament preheat temperature.
- 3. Loosen the spring-loaded screw.
- **4.** Pull the filament out in the direction perpendicular to the feeder motor hardly and quickly.

Note:

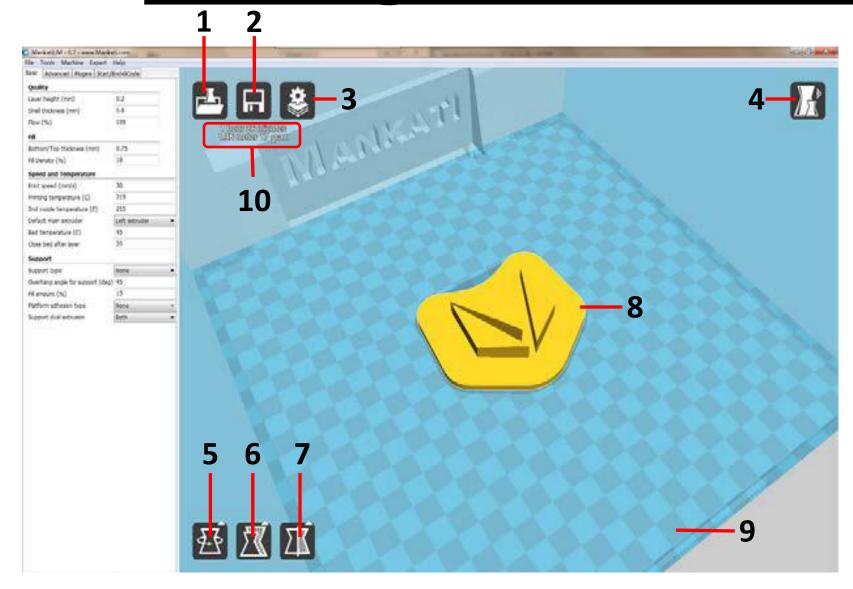
- 1. If the filament is stuck, please find solution in troubleshooting chapter.
- 2. If your machine stops working for a long time, please switch off the printer to avoid the filament carbonized, which will cause the nozzle clogged.
- 3. Clean the dust on the build plate, that will extend the lifetime of the kapton tape.

6-Steps to slice your model



- 1) Load your model (.stl)
- 2) Orientate the loaded model
- 3) Select the 3D-printing profile
- 4) Slice the model & view printing information
- 5) View the sliced model
- 6) Save the sliced model file (.gcode) to a SD card.

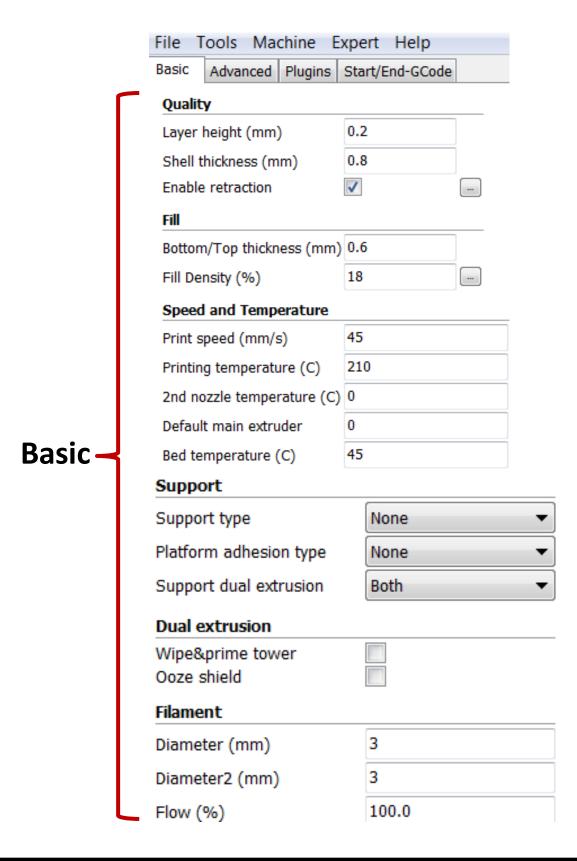
Slicing Software Interface

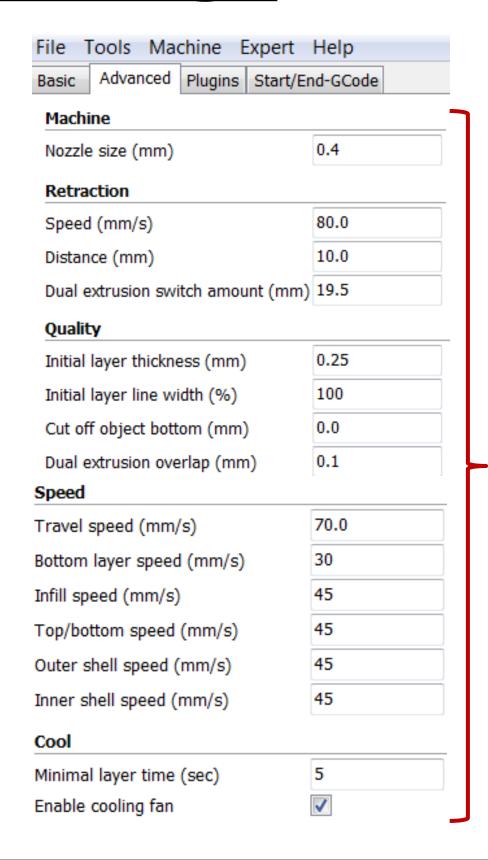


- A. Name: MankatiUM v6.50
- B. Build Size: *260x260x300*mm
- C. Filament Size: Dia 3mm
- D. Filament Type: PLA/ABS/PVA

- 1. Load a model (.stl)
- 2. Save Toolpath
- 3. Slice the model
- 4. View mode
- Roate a model
- **6. Scale** a model
- 7. Mirror a model
- 8. Printed Model
- 9. BuildPlate
- 10. Print Info

Slicer Settings





Advance