## 

- 1. Filament Spool The MK4 is compatible with 1.75 mm filament;
- 2. Frame:
- **3. Z Axis** Vertical, made of threaded and smooth rods; moves the Nextruder up and down;
- 4. Nextruder Our new-generation extruder with planetary gear and load cell sensor:
- 5. X-Axis Stepper Motor Moves the Nextruder left and right;
- **6. Electronics Enclosure** Housing for the xBuddy board. Ethernet and Wi-Fi ports are accessible from the rear.Z-Axis Stepper Motor One of two total:
- 7. **Z-axis** motors move the Nextruder up and down;
- 8. LCD Screen Used to control and configure the printer;
- 9. Spool Holder;
- 10. X Axis Generic name for the horizontal group composed of two smooth rods, an X-axis motor, a belt, and plastic parts. The Nextruder moves left to right along the X axis;
- 11. Power Supply Unit;
- **12. Print Sheet** Easy to maintain, held in place by strong magnets integrated into the heated bed.Heated Bed Proven MK52 heated print bed:
- **13. USB Port and USB Drive** Uses a USB drive to print G-code (print files) and flash firmware:
- 14. Control Knob The main control knob with reset button located just below the screen.

## List of Tools

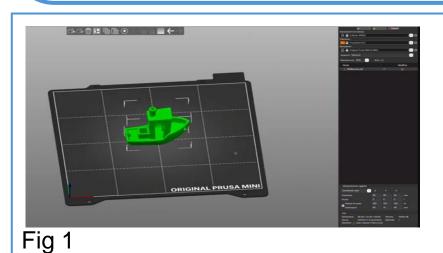
List of Parts



- n.1 Hex key set (for nozzle or part replacement);
- 2. n.1 Microfiber cloth (for cleaning bed);
- n.1 Caliper (for checking filament diameter);

## **Procedure**

- 1. Step 1: Design or obtain a 3D model using CAD software and export in .STL or .3MF format.
- 2. Step 2: Open the model in PrusaSlicer; configure layer height, infill, supports, and material settings (Figure 1).
- 3. Step 3: Slice the model to generate the G-code file (Figure 2).
- 4. Step 4: Save the G-code file to a USB flash drive or SD card.
- 5. Step 5: Insert the USB or SD into the Prusa MK4 printer.
- 6. Step 6: Preheat the printer using the appropriate PLA profile.
- 7. Step 7: Load the filament (Figure 3).
- 8. Step 8: From the printer screen, select the G-code file and start the print (Figure 4).
- 9. Step 9: Monitor the first layers to ensure correct bed adhesion.
- 10. Step 10: Once printing is complete, allow the bed to cool and remove the part using the spatula.





front view

Export file

← → ▼ ↑ □ « Data (D:) ➤ Temp ➤ ▼ ७ Search Temp

Organise ▼ New folder

□ This PC
□ Desktop
□ Documents
□ Downloads
□ Downloads
□ Music
□ Pictures
□ Videos

File name:
□ Test-GCode1

Save as type:
□ GCode (\*.nc \*.gc \*.ncc \*.ngc \*.cnc \*.tap \*.gcode)

Fig. 2

Hide Folders

Save

Cancel

Save

Cancel



Fig 3