

# Bambu Carbon: 3D Printer

- [Bambu Labs](#)
- [Printing to Bambu](#)
- [Specs and Maintenance](#)

# Bambu Labs

Bambu Labs:

1. Download “BambuStudio” onto your PC/MacBook
2. Once it has finished downloading and you have opened BambuStudio and made your account, find or make a 3D model that you would like to 3D print either from a 3D modeling software or from a website online.
3. Once you have finished finding or making your model, make sure when exporting your model, that you export it as a .stl file
4. Once you have finished exporting your chosen model, go to BambuStudio and at the top left of the screen hit the prepare tab.
5. After entering the prepare tab, go to “File” at the top left of your screen and click import
6. After clicking import and finding your 3D model, you should now see your model on the plate (the gridded platform)
7. Once you see your model on the plate, look on the left hand side of your screen. You should see a menu with a bunch of different options.
8. In that menu, click the tab that says “objects” next to “Process”. (It should be mid way down in the menu).
9. Then go further down in the menu, you should see a check box that says “Enable Support”. Make sure that it is checked.
10. Then further down in the “Type” setting in the same menu and choose the type of support you would like to use for your model. (Optional: you can choose on where your supports will go)
11. After choosing the type of support you want, at the top right of your screen click the button that says “Slice plate”. This should then show you where the supports for your model will go when it finishes printing
12. Once you have finished putting on the supports on your model, you can now hit the button that says “Print Plate”.

# Printing to Bambu

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## Bambu:

1. If not already downloaded, download BambuStudio onto your PC/MacBook
2. After opening it and getting an account set up, go to devices and ensure that you are connected to the right printer via the internet
  1. Device should be labeled 3DP-00M-090
3. In “Home”, different prints will pop up. You can either select one of these prints or find one on their website instead, and select “open project” to download it

4. Can also: go to the physical printer and select prints from the screen
5. Select a color for the print
6. Then select start, and make sure the door is closed

# Specs and Maintenance

Specs: The Bambu Carbon 3D printer is a high-speed, enclosed FDM 3D printer featuring a 256 x 256 x 256 mm build volume, optimized for advanced materials like Carbon/Glass Fiber Reinforced Polymers, PA, and PC. It features a 300°C hot end, 120°C bed, hardened steel nozzle, CoreXY motion system, and AI-driven LIDAR leveling.

Maintenance: Maintaining a Bambu Carbon 3D printer requires a few key steps for its best performance.

- Gently wipe the X-axis carbon rods with a microfiber cloth dipped in Isopropyl Alcohol (IPA) to remove dust, which is critical for print quality. Move the print head to access all areas.
- Wipe the Y-axis linear rods with IPA. Apply a thin layer of grease afterward to ensure smooth movement.
- Wash the build plate with warm water and dish soap to remove oil and residue for better adhesion
- Check the PTFE tubes in the AMS and at the toolhead for wear, especially after using abrasive filaments.
- Clean old grease off the Z-axis lead screws with a cloth, then apply new silicone grease to the rods.
- Use compressed air to clean the part cooling fan, hotend fan, and electronics fans to prevent overheating.
- Loosen the screws on the back of the idler pulley, allow the springs to tension the belt, and re-tighten to ensure proper belt tension.
- Clean out dust and small filament pieces, and keep desiccant filled.

<https://www.youtube.com/watch?v=hDj53T0Aq3g>

Maintenance for the Bambu H2D:

<https://wiki.bambulab.com/en/h2/maintenance/period-maintenance>

<https://www.youtube.com/watch?v=kW90Q6sDODQ>