



Bambulab X1C Pen Holder

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Summary

This is a 80x80mm (WxL) pen holder that is modeled after the BambuLab X1Carbon CoreXY 3D Printer.

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This is a 80x80mm (WxL) pen holder that is modeled after the BambuLab X1Carbon CoreXY 3D Printer. This is about a 1:5 scale down from the original printer.

Printing

This model consists of multiple parts, best printed in these colours:

- Multicolour:
 - The main body of the printer with the logo on both sides. Alternatively, a version of the body without the text but with cutouts for the logo on both sides is provided for separate printing. In this case, the body is grey and the logo (printed 2 times) is black.
- In any case, the main body needs to be printed with supports for the top of the doorframe.

- The door of the printer with the handle attached.
This multicolour print can be done with a single colour change, but you can also print the two parts separately (door in black, handle in grey). If printed as one, you will need supports to help with the handle.
- Black:
 - The screen-insert.
 - The Logo (2x) if you print it separately

Printing this model is best on a printer with multi-colour capabilities, use the “multicolour” BambuStudio 3MF for this if you have one of their printers. I have also provided assembled STEP-files of the main body and door for this use.

Alternatively, I have provided a version that can be printed without colour-changes (“inParts”). Please note that this version does not have the “BambuLab” text under the logo, as both printing and assembly of this would not be possible.

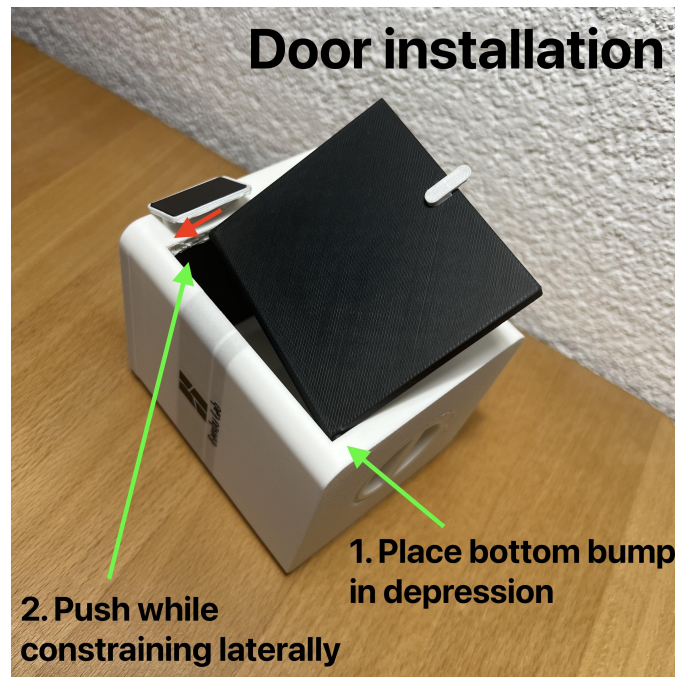
Assembly

Assembling this model consists of only a few steps, and at most a bit of glue is required:

1. Remove all supports from the main body.
2. Glue the screen into place in the cutout for it.
3. If you printed the logo separately, install it now. This should also work as a friction fit and you might need to trim a bit of material from the edges of the logo parts, depending on your printer and material.
4. Install the door into the frame. The hinge consists of the two protruding bumps on the left side, which fit into depressions in the frame. The **radius** on one edge needs to be at the **front of the model** for you to be able to open the door.

The easiest way to install this is to place the bottom bump in its hole, and then jam the door into the frame coming from the right, as you can see in the image below. You then need to hold the top of the door laterally to keep it on the frame as you push it left, towards the depression. There will be a larger resistance just before the depression, and it should snap in once you pass a certain point.


Warning: this process may dent the Frame a little bit, but this is not harmful to usage of the model. This is why I recommend doing this process on the top of the door, you will see the dents less on that side.





Miscellaneous


I printed this model in black & white instead of black & grey, as I don't have grey on hand right now. This still looks good so don't sweat it if you don't have the perfect colours ready. :)

Model files

 **Multicolour (STEP)** 3 files

 **001_penholder_body.stp**

 **002_screen.stp**

 **003_door_hinged.stp**



in Parts (STL)

5 files



001_penholder_body_grey.stl



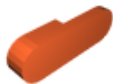
002_logo_black_2x.stl



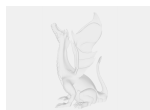
003_screen_black.stl



004_door_hinged_black.stl



005_door_hinged_handle_grey.stl



bambustudio_penholder_multicolour.3mf

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