THE POSSIBLE ZONE

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Bambu 3d Printer

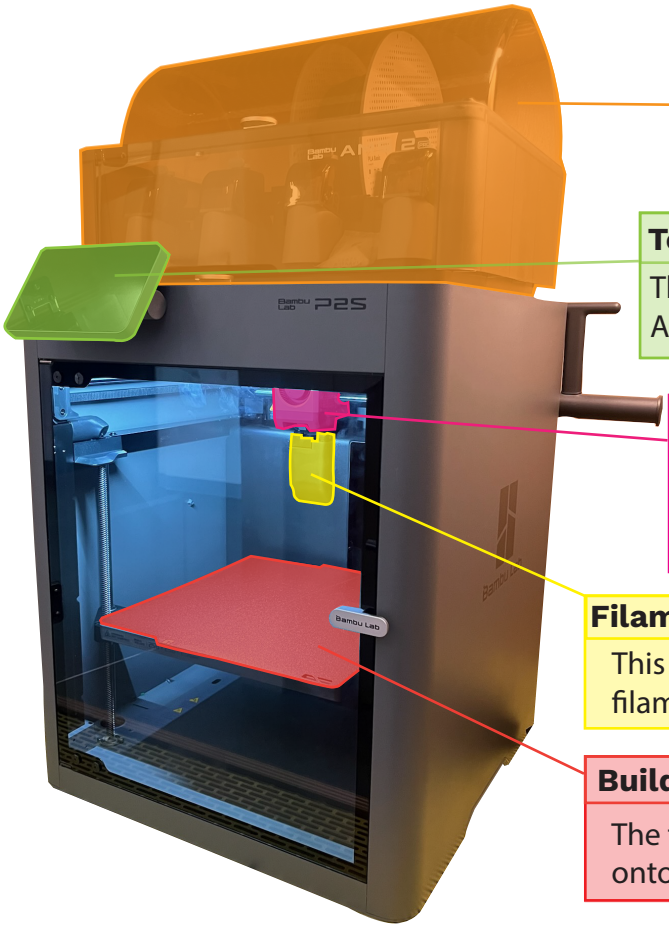


last modified: June 15, 2026 11:00 AM

BAMBU 3D PRINTER

BAMBU 101

BASIC PARTS OF THE 3D PRINTER



AMS
Stores & dries the filament. (Filament is the plastic that 3D prints are made of.)

Touch Screen
This is a display used to control settings, AMS, and provide system updates.

Tool Head
Contains the extruder, wihch pulls the filament from the AMS, and the hotend, which melts that filament.

Filament Waste Port *("Poop Chute")*
This is where the extruder purges waste filament.

Build Plate
The flat surface that the printer layers filament onto to build objects

How it works...

Filament goes in the top of the extruder.

The hotend melts the filament.

The nozzle makes layers of melted filament to create your print.



Need more information? This document is based on the Notion page, linked here. →

MATERIALS/FILAMENTS

PRINT FARM:

+ PLA
  - HARD PLASTIC
+ PVA
  - GREAT FOR SUPPORTS
  - DISSOLVES IN WATER

FAB LAB:

+ PLA
+ PVA
+ TPU
  - FLEXIBLE, BENDY





Caution: Hot!

The nozzle gets VERY HOT, often up to 410° F. Keep your hands and fingers away from the nozzle. Wait 5 seconds before touching any filament.

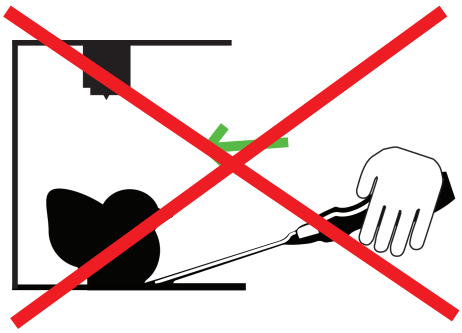




Don’t reach into the machine

Do not reach inside the printer while it is being used. Touching moving parts during operation can cause injury.



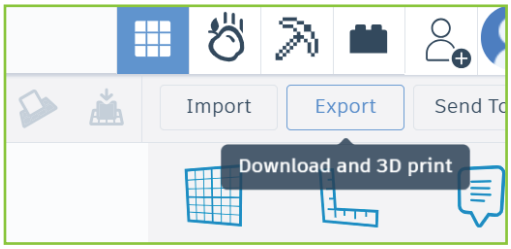


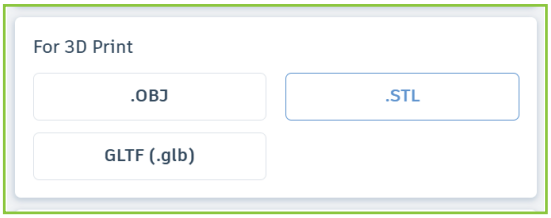
Removing prints

You should not need to use the scraper to remove prints. If a print won’t come off of the build plate, please speak to a STEAM team member.

DOWNLOAD FILE

- If you're using Tinkercad, go to "export" on the upper right hand side of the screen.
- Then click ".STL"
- Your 3d model will immediately download as an STL.
  - STLs are a type of 3d printing file.





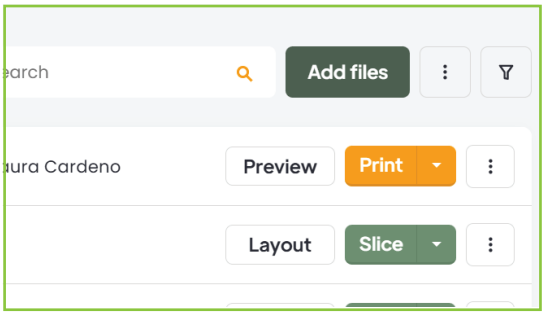
LOG IN TO 3DPRINTEROS

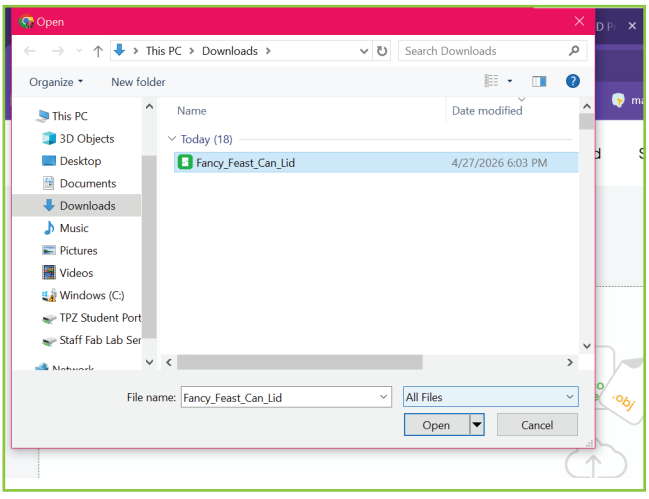
- Go to Jumpcloud at https://-console.jumpcloud.com/
- Log in using your TPZ username and password.
- Click on the green (3) icon labeled "3D Printer" (pictured).
- Log in to 3DPrinterOS



UPLOADING FILES TO 3DPRINTEROS

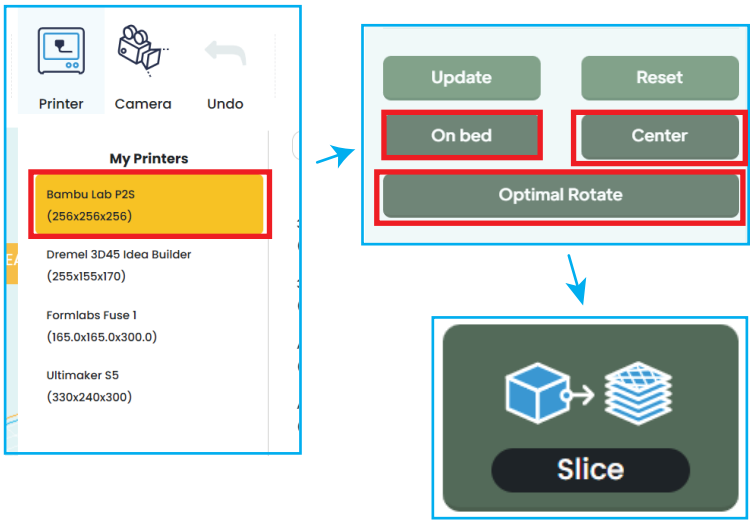
- In the top right, select "Add files."
- This will open a new window. Select your file, then click "Open."





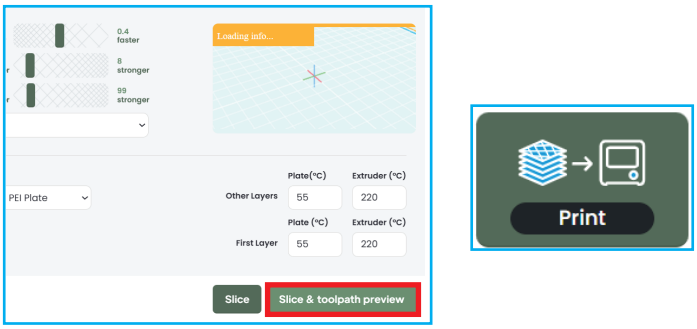
PREPARING MODEL TO PRINT IN 3DPRINTEROS

- Double click on the file you would like to print.
- Under “Printer,” select “Bambu P2S.”
- Always click “On Bed,” “Optimal Rotate,” and “Center.”
- Click “Slice” when finished.



PRINTING MODELS IN 3DPRINTEROS

- Print settings will automatically be set for you.
- Select “Slice & Toolpath Preview” in the bottom right.
- Select “Print” in the top right corner.



REMOVING YOUR PRINT

- When the touch screen says the print is finished, wait at least 30 seconds before removing the print.
- Open the door of the printer.
- Pick up your print from the plate.
- If the print doesn’t come off easily, gently pull the build plate out and carefully, gently flex it until the model pops off.



BAMBU 3D PRINTER

SELF-CHECKLIST



SET UP CONFIRMATION

USE THE FOLLOWING CHECKLIST TO ENSURE THAT YOU HAVE SET UP THE MACHINE SAFELY AND PROPERLY.

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SELF CHECK

- [ ] Make sure the bed is clear before starting a print.
- [ ] When preparing the file, select “Bambu Lab P2S” under “Printers.”
- [ ] Select “On bed,” “Center,” and “Optimal Rotate” when preparing the model.
- [ ] Do not change any settings when slicing.
- [ ] Do not touch moving parts of the 3d printer.
- [ ] Do not touch the machine nozzle.

CLEAN UP

- [ ] Wait 30 seconds for filament to cool before removing print from the bed.
- [ ] If the print doesn’t come off easily, ask for help.
- [ ] Put any unwanted material (support, failed models) in the PLA recycling bin.

written by Elsa Ford-Taggart
without the use of generative AI

