



Module 2

Getting to Know the Bambu Lab P1S

The purpose of this module is to introduce you to the different parts of the Bambu Lab P1S



The Bambu Labs P1S

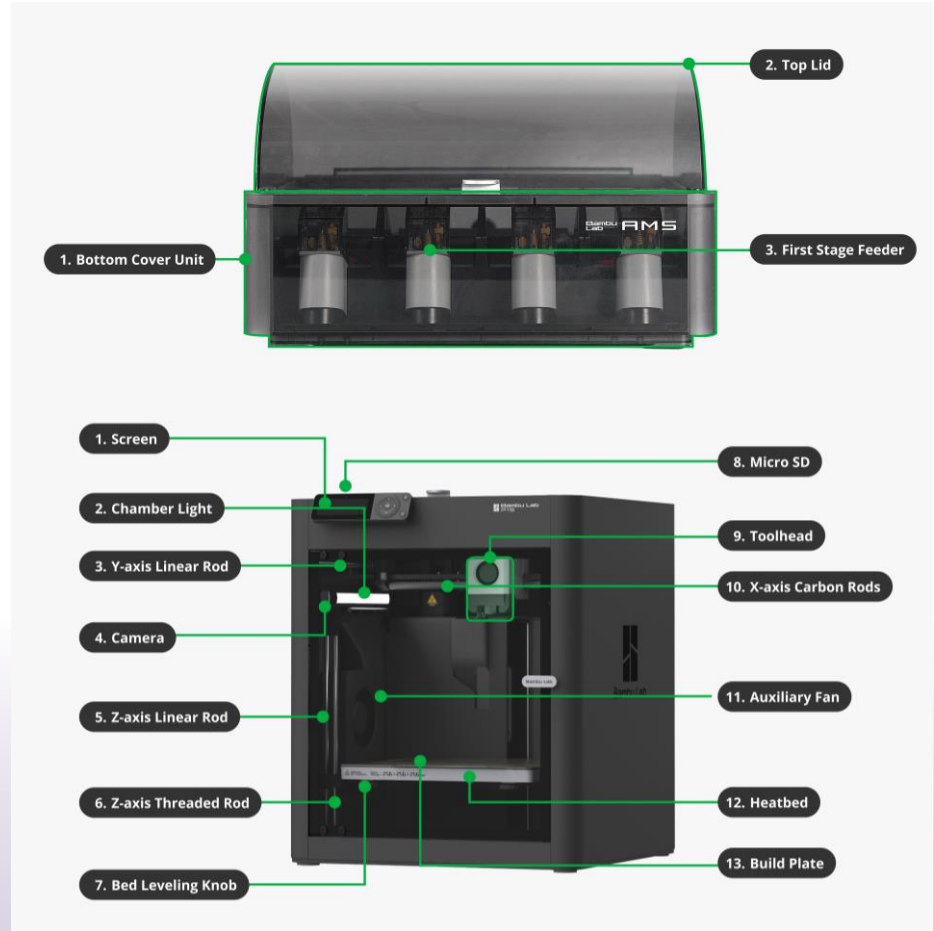
Great for beginners, makers, designers, or anyone who's looking for an easy-to-use 3D printing experience.



Parts of the P1S

We'll be looking at:

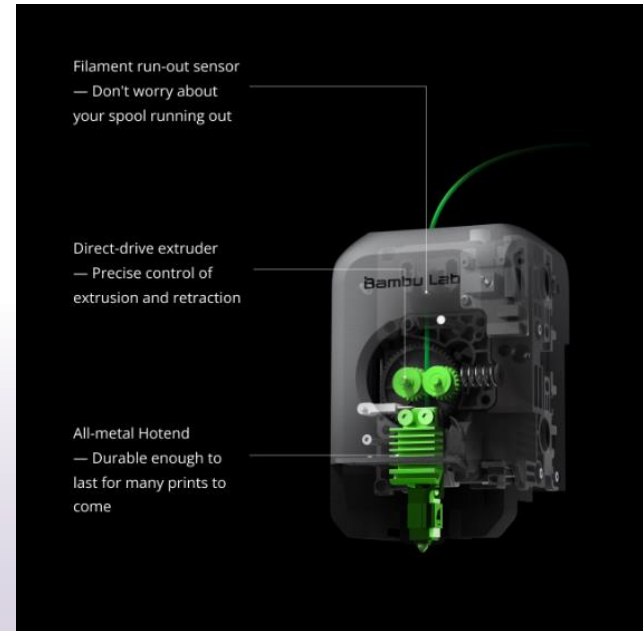
- The Extruder Toolhead (where the nozzle head that heats the filament is located)
- The Heatbed and Build Plate
- The Screen
- The AMS (Automatic Material System that manages the filament)



The Extruder Toolhead and Nozzle Head (Hot End)

This is where the filament is loaded into and extrudes from. A tube feeds the filament through the machine, into the tool head and then into the nozzle where it is heated and extruded.

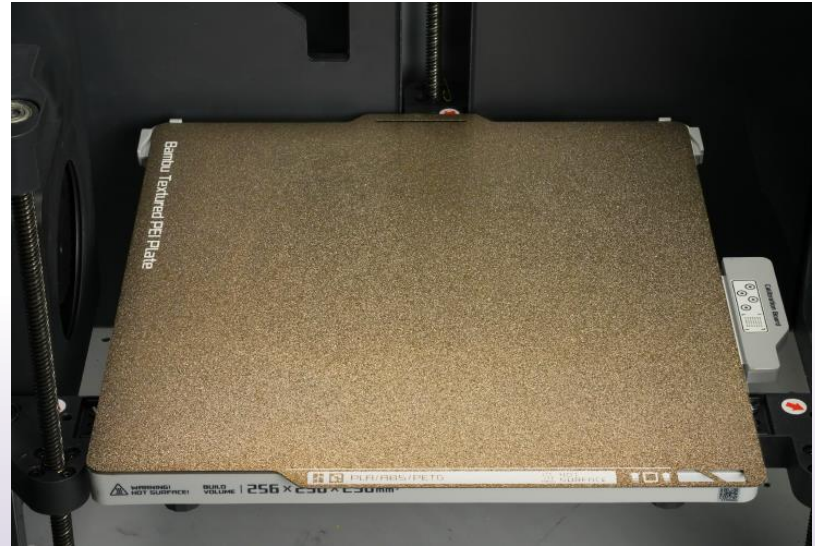
The nozzle gets very hot but is covered by the tool head. Do not open the tool head under any circumstances, if you notice an issue please let staff know.



The Heatbed and Build Plate

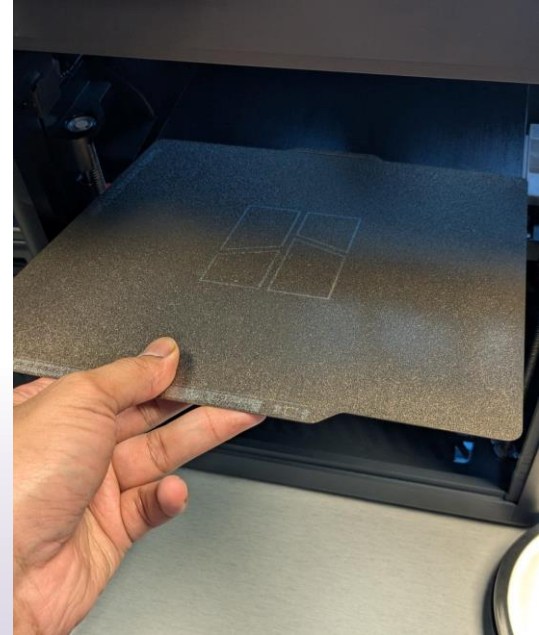
The bed or build plate is the surface on which the 3D printer extrudes filament to create an object.

The P1S bed is heated to help prevent objects from shifting during the print. The bed can get **extremely hot** and is **not to be touched** until cooled. When a print job is complete the screen will say “Print Complete”. Then wait for the bed temperature to reach 45°C or lower.



The Heatbed and Build Plate

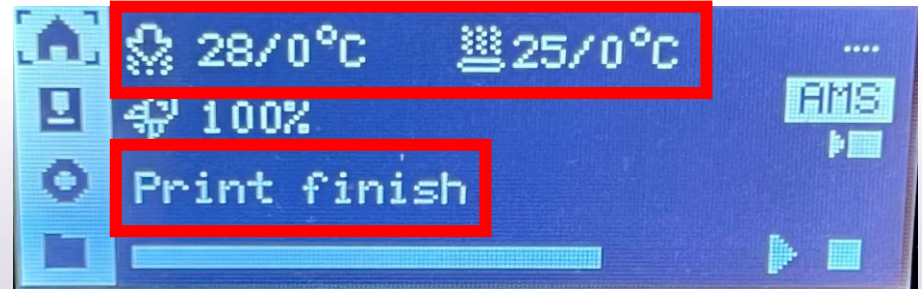
The P1S heatbed is removable so once the print is finished you can remove the heatbed from the build plate and if the print doesn't come off easily, **slightly** bend it to remove your print.



Screen

The screen on the printer can be used to show progress on the printer as well as change some settings.

The default screen can be used to check when a print is finished and the current temperature of the nozzle and bed.



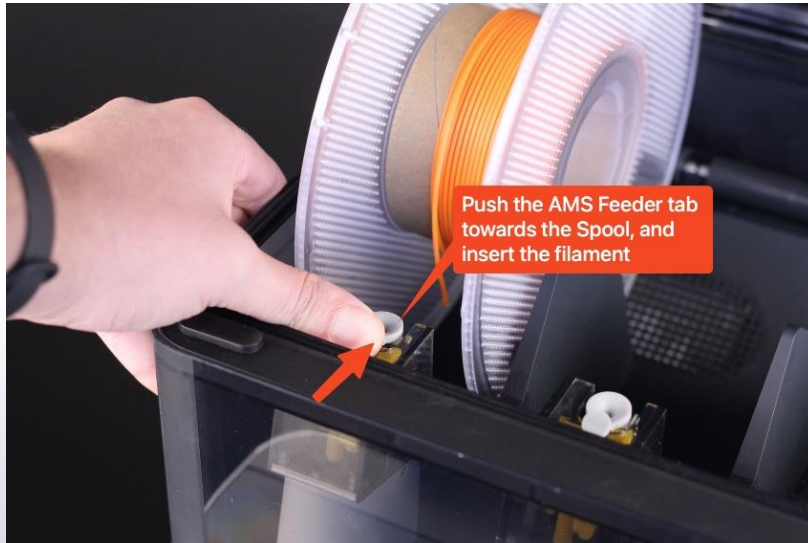
The AMS (Automatic Material System)

The AMS allows the P1S printer to print up to 4 different colours

However, depending on how many colours you use and how often the printer needs to switch it can greatly increase the print time so make sure it doesn't exceed your appointment time (3 hours max)



Loading and Unloading Filament



If the filament is inserted correctly, the machine should automatically start pulling the filament through the machine. If inserted incorrectly it will either eject the filament or display a red light near the feeder tab. Let staff know if a red light is displayed. There's a filament change video you can watch in the 3D Printing Tutorials section on the Maker Space web page.

Note: You will need to use the software to set the type and colour to complete this process (Module 3).



End of Module 2