

3D Printers

3D Printer Recommendations for Schools and Groups

Selecting the right 3D printer for your goals can significantly impact the ease of use, print quality, and overall experience. Two excellent options that our team enjoys are the **Bambu Lab** and **Prusa** printers, both known for their reliability, high print quality, and user-friendly operation.

Bambu Lab Printers

• **Bambu P1S Combo**: A high-speed, high-quality printer that includes the AMS (Automatic Material System) for multi-color printing. It is easy to use, requires minimal maintenance, and is great for educational environments where time efficiency is key.

• **Bambu X1 Carbon Combo**: An upgraded version of the P1S with better sensors, a superior camera, and a more advanced screen. It also includes the AMS system, making multi-color and multi-material printing seamless. If budget allows, this is a top-tier option.

• Why Choose Bambu?: These printers are designed for ease of use with minimal troubleshooting. They offer fast, high-quality prints with an enclosed build chamber for better temperature control and quieter operation.

Prusa Printers

• **Prusa MK4**: A reliable, high-quality printer known for its open-source design and strong community support. It offers precise prints and is great for schools looking for a durable machine with the ability to tinker and modify settings.

• **Prusa Mini+**: A more budget-friendly option that still delivers excellent print quality. It's compact, making it ideal for classrooms with limited space.

• Why Choose Prusa?: Prusa printers are well-known for their durability and exceptional customer support. They also allow for more hands-on learning experiences, making them great for teaching the fundamentals of 3D printing.

Filament Recommendations

When selecting filament, consider the intended use of your prints. The most common types are:

- **PLA (Polylactic Acid)**: The go-to filament for most prints. It's easy to use, affordable, and works well for most educational projects.
- **PETG (Polyethylene Terephthalate Glycol)**: Stronger and more heat-resistant than PLA, making it great for functional prints. However, it requires slightly more tuning to print well.
- **TPU (Thermoplastic Polyurethane)**: A flexible filament used for creating bendable parts. While not needed often, having a roll on hand for specialized projects can be useful.

For Bambu printers, it is recommended to use **Bambu brand filament**, as it integrates seamlessly with their AMS system and prevents potential feed issues. Prusa printers work well with a variety of filament brands, offering more flexibility in sourcing materials.

Additional Considerations

- **Ease of Use**: Bambu printers offer more automation and require less maintenance, while Prusa printers provide more customization options and are great for learning 3D printing mechanics.
- **Multi-Material Printing**: The AMS system in Bambu printers allows for easy filament switching, useful for multi-color prints.



• **Maintenance**: Both brands require occasional maintenance, such as cleaning and replacing the hot end, but Bambu printers generally require less hands-on troubleshooting.

Final Recommendation

If you are looking for an easy-to-use, high-speed printer with minimal maintenance, the **Bambu P1S Combo or X1 Carbon Combo** are excellent choices. If you prefer an open-source, customizable machine with strong community support, the **Prusa MK4 or Mini+** are great alternatives. Both brands offer reliable machines that can handle educational and functional prints, making them excellent additions to any classroom or makerspace. If further guidance is needed, we also offer **3D printing training and workshops** to help educators and students get started.