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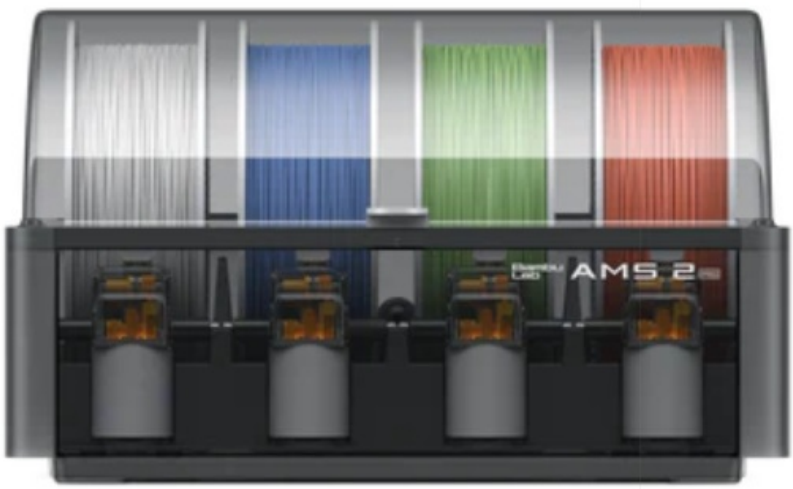
Bambu Lab AMS 2 Pro Automatic Material System



Specification

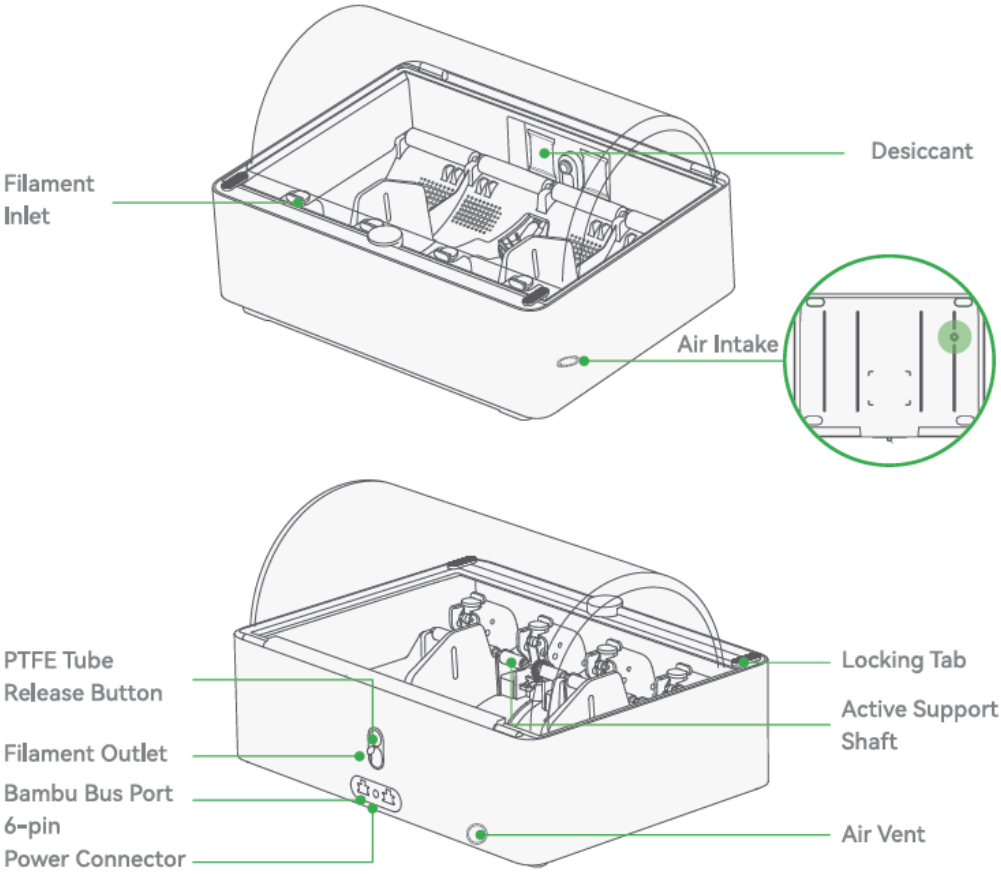
Item		Description
Body	**Dimensions** Net Weight **Housing**	372*280*226 mm’ 2.5 kg ABS/PC
	Filament Supported	PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, Bambu PLA-C F/PAHT-CF/PETG-CF/Support for PLA/PETG, and TPU for AMS
Printing	Filament Not Supported	TPE, generic TPU, PVA (damp), BVOH (damp), Bambu PET CF/TPU 95A, and other brands of fil ament that contain **carbon fiber or glass fiber**
	Filament Diameter	1.75 mm
	Spool Dimension	Width: 50-68 mm Diameter: 197-202 mm
	RFID Identification	Supported
	Highest Temperature	65″C
	Filament Supported	
Drying	**Active Moisture Disch arge**	PLA, PETG, Support for PLA/PETG, ABS*, ASA* , PET’, PA*, PC*, PVA’, BVOH *, PP, POM*, HIPS *, Bambu PLA-CF*/ PAHT CF’/ PETG-CF*, and TPU for AMS* Supported

	Sealed Storage	Supported
	Temperature and Humidity **Detection and Maintenance**	Supported. Real-time temperature and humidity can be displayed on the screen, Bambu Studio, and Bambu Handy.
Power	Input	24V4A

Filaments marked with• require higher drying temperature. The AMS 2 Pro cannot dry them completely. If you want better drying performance for these filaments, we recommend purchasing an AMS HT.

- For best results, we recommend using Bambu filaments, which have been rigorously tested for compatibility, safety, and stability with the AMS 2 Pro.
- To prevent the filament from getting stuck, do not use flexible filaments such as TPU with a hardness level below 95A or damp PVA in the AMS 2 Pro.
- The AMS 2 Pro supports a spool width between 50 mm to 68 mm and a diameter between 197 mm to 202 mm. We recommend using plastic spools in the AMS 2 Pro. If filaments with cardboard spools are used, it is recommended to pair them with a spool adapter to reduce roll slipping and debris.
- You can use the drying function of an AMS 2 Pro using only a 6-pin cable to connect it to an H2 series printer without an additional power supply. If you need to dry filaments in multiple AMS 2 Pro units, you need to purchase official Bambu Lab power adapters to power the drying function of the other AMS 2 Pro units.
- If using X1 or P1 series printers with one or more AMS 2 Pro units, each unit will require an official Bambu Lab power adapter to power the drying function. Otherwise, the drying function will not be available.
- During the filament drying process, the air intake and vent will open for the AMS 2 Pro to remove moisture through external air circulation. Please ensure the air intake and vent are not blocked to ensure optimum drying efficiency.

Component introduction



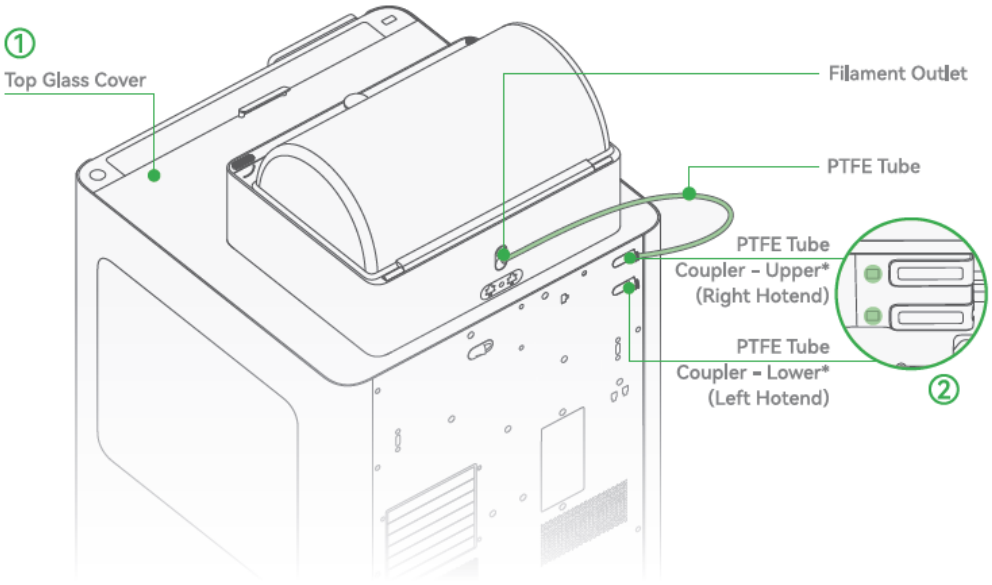
Included accessories

Bambu Bus
Cable 6-pin

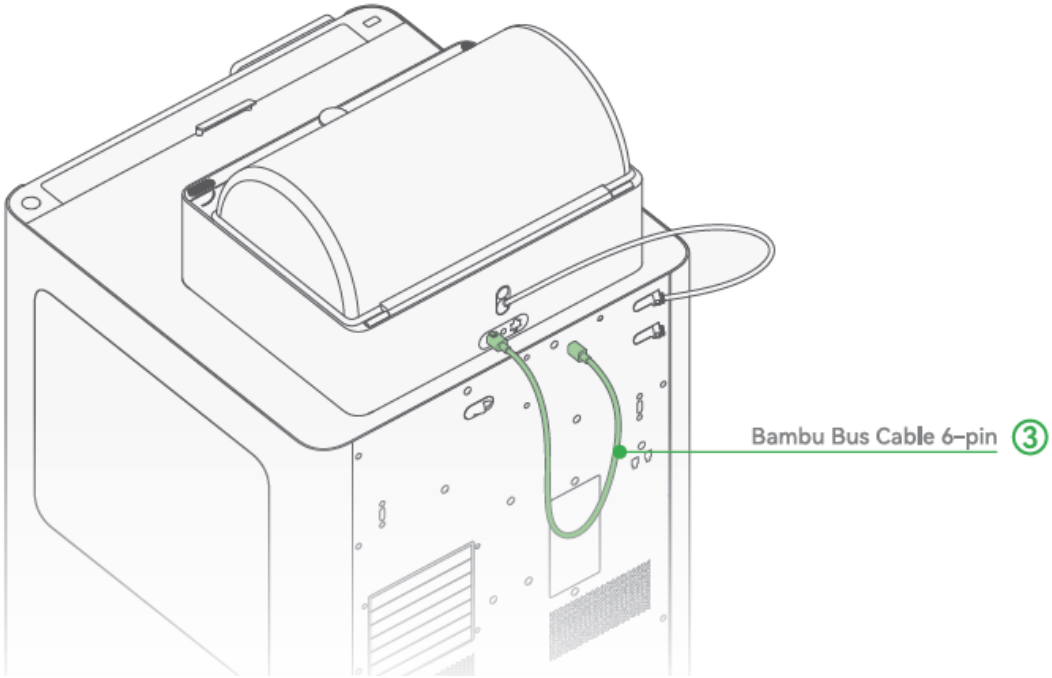
Desiccant

PTFE Tube

Connect the AMS 2 Pro to H2 series printers.



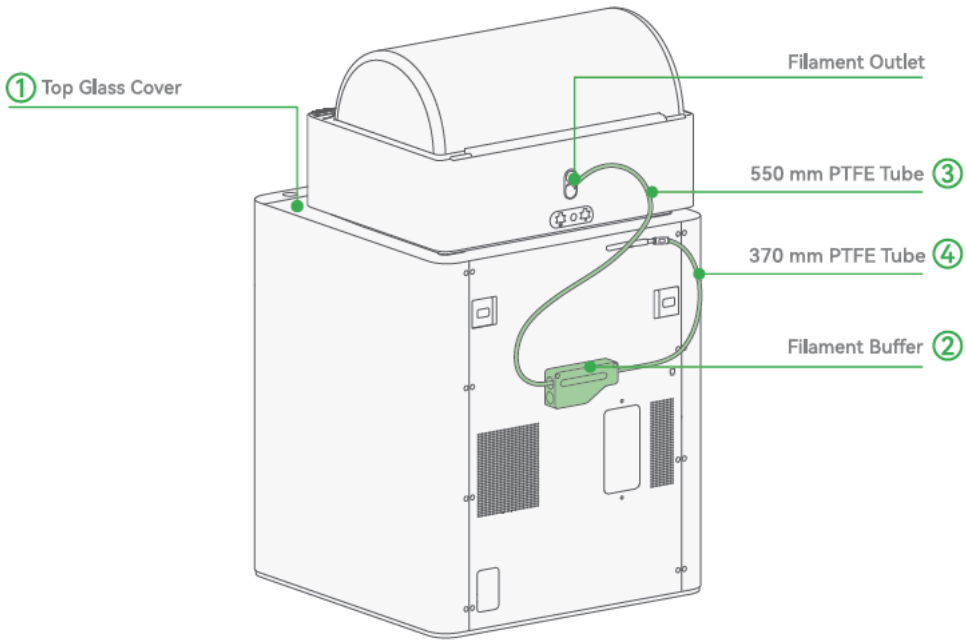
1. Place the top glass cover and the AMS 2 Pro on top of the printer.
2. Insert the PTFE tube on the AMS 2 Pro's filament outlet into any PTFE tube coupler of the printer, and push the tube forward for approximately 10 cm until it stops (if you can see the PTFE tube from the window next to the buffer from the front of the printer, it is correctly inserted).



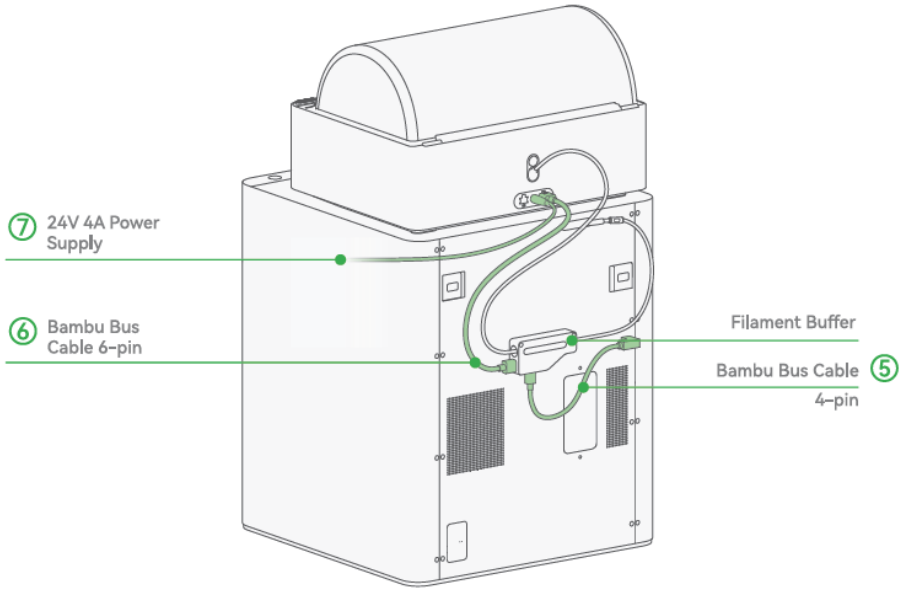
3. Take out the Bambu Bus Cable 6-pin from the AMS 2 Pro. Connect it to the printer and either the 6-pin port of the AMS 2 Pro.

The upper and lower PTFE tube couplers correspond to different hotends. Connecting the AMS 2 Pro to the upper coupler allows the right hotend to print in multiple colors. Connecting it to the lower coupler allows multi-color printing with the left hotend. Using two AMS 2 Pro units allows both hotends to support multi-color printing independently.

Connect the AMS 2 Pro to X1 and P1 series printers.

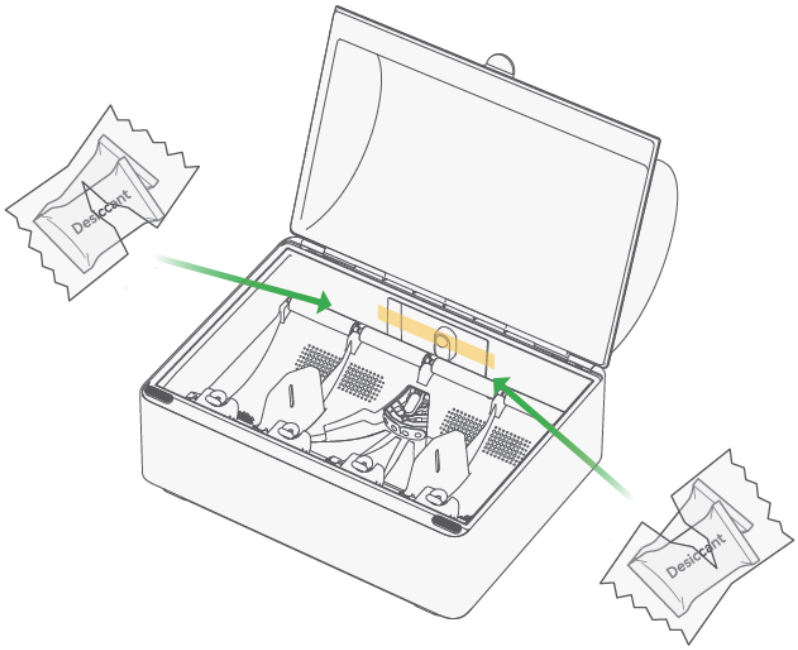


1. Place the top glass cover on top of the printer.
2. Use 2 M3*21.5 screws to fix the filament buffer to the printer.
3. Insert one end of the 550 mm PTFE tube into the filament outlet of the AMS 2 Pro, and the other end into the left side of the filament buffer.
4. Insert one end of the 370 mm PTFE tube into the PTFE tube coupler of the printer, and the other end into the right side of the filament buffer.



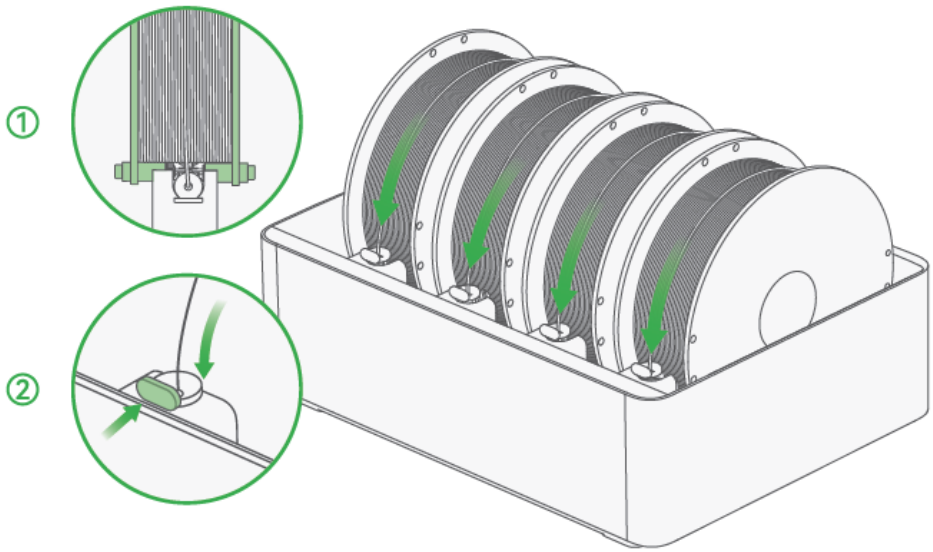
5. Connect the L-shape end of the Bambu Bus cable 4-pin to the printer, and the other end to the bottom of the filament buffer.
6. Connect the one end of the Bambu Bus cable 6-pin to either 6-pin port of the AMS 2 Pro, and the other end to the left of the filament buffer.
7. Connect the 24V 4A power supply to the power connector of the AMS 2 Pro.

Remove the desiccant packaging material.



Remove the tape from the back of the AMS 2 Pro and take out the desiccant packs. Remove the outer plastic packaging material and install 2 packs of desiccant on each side of the space.

Load the filament in the AMS 2 Pro.



1. Power on the printer and place a spool of filament in any of the four slots. Make sure the spool is correctly placed on the active support shaft as shown in the picture.
2. Push the feeder tab towards the spool, and insert the filament. The AMS 2 Pro will pre-load it after it is detected. When the feeder LED light under the filament inlet is on, the AMS 2 Pro is ready to print.

How to use the AMS 2 Pro drying function

Tap to go to the drying function screen. Select the type of filament to be dried, and set the drying temperature and duration. Then, tap Start to begin the process.

For guidance on using the drying function of multiple AMS 2 Pro units at the same time, please go to wiki.bambulab.com/drying

Regular maintenance

The Bambu Lab AMS 2 Pro is an intelligent system that requires regular maintenance to ensure optimal performance and longevity.

- PTFE Tube: Over time, the PTFE tube can experience wear as filament passes through it, leading to feeding issues or clogs. Inspect the tube periodically for signs of damage and replace it as needed to maintain smooth filament feeding.
- Pneumatic Connector: If the PTFE tube becomes loose or the filament struggles to pass through the pneumatic connector, try reseating the connector or replacing it to restore proper filament flow.
- Internal Hub Unit: To prevent excessive resistance during filament loading or

unloading, regularly clear any residual filament dust from the internal hub unit.

- Heating Unit: Keep the heating unit clean, including the fan and heat sink, to ensure it can effectively dry filament and prevent buildup that could impair performance.
- Active Support Shaft Assembly: If the active support shaft assembly is misaligned or damaged, it can cause the gears to mesh improperly. If you encounter this issue, follow the provided guides from the Wiki to reinstall or replace the assembly.
- Desiccant: Desiccant packs help maintain a dry environment inside the AMS 2 Pro and prevent filament from absorbing moisture. Periodically check the desiccant and replace it if it has lost its effectiveness.

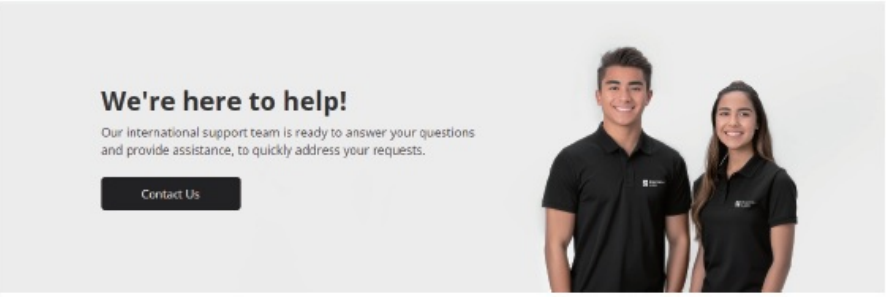
bambulab.com/support/maintenance

For more detailed maintenance recommendations, including procedures and suggested intervals, please refer to the “Regular Maintenance Recommendations” section on our wiki.

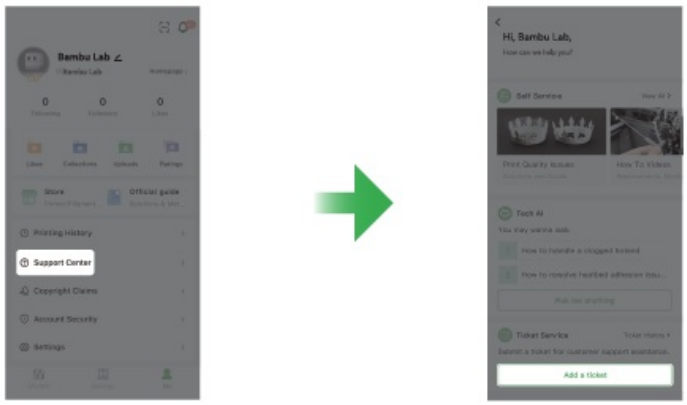
Technical Support

If you need technical support, please follow either of the following methods:

Method 1: Get in touch by using the Contact Us button in our Support Center.
bambulab.com/support



Method 2: Create a support ticket on Bambu Handy from the Support Center section.



You can also visit the Bambu Lab Wiki for more tutorials and maintenance guidance.
wiki.bambulab.com/home

Bambu Lab
Wiki

- **Unboxing Guide**
  Scan the QR code to access our online guides for detailed instructions on how to unbox, assemble, set up the printer, and start your first print.
  bambulab.com/support/unboxing
- **Download Bambu Studio and Bambu Handy**
  Scan the QR code to download Bambu Studio and Bambu Handy, which allow you to remotely control your printer and monitor your prints in real time.
  bambulab.com/download
- **Explore more cool models**
  Scan the QR code to visit MakerWorld, our 3D models community, where you can find a variety of free models and create top-notch designs using powerful tools like Makerlab and Maker's Supply.
  makerworld.com
- **Get help**
  Scan the QR code to visit our support center, contact technical support, and access more useful tutorials.
  bambulab.com/support

Documents / Resources

 -	Bambu Lab AMS 2 Pro Automatic Material System [pdf] User Guide AMS 2 Pro Automatic Material System, AMS 2 Pro, Automatic Material System, Material System, System

References

- User Manual

Bambu Lab

AMS 2 Pro, AMS 2 Pro Automatic Material System, Automatic Material System, Bambu Lab, Material System, System

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