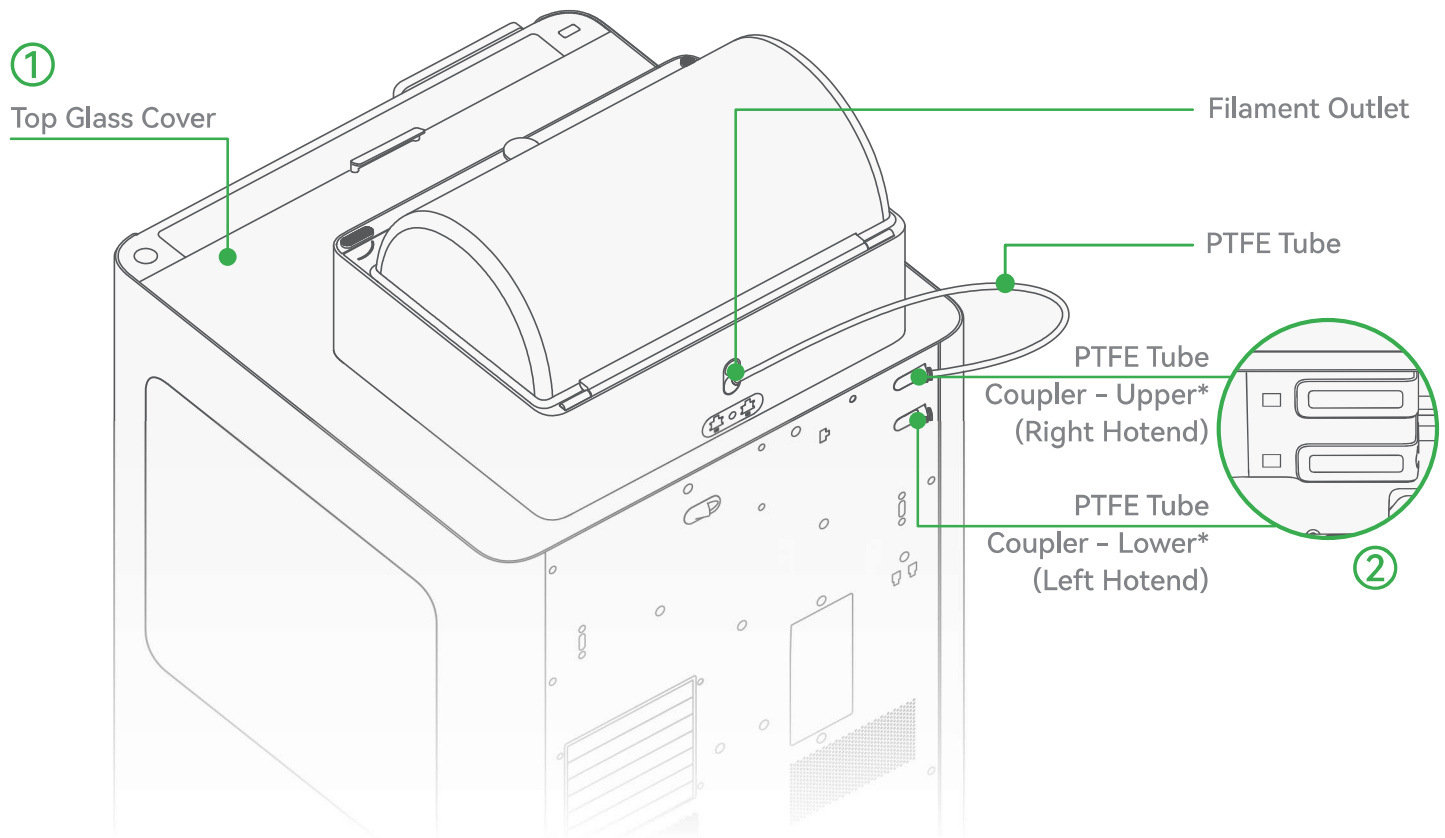


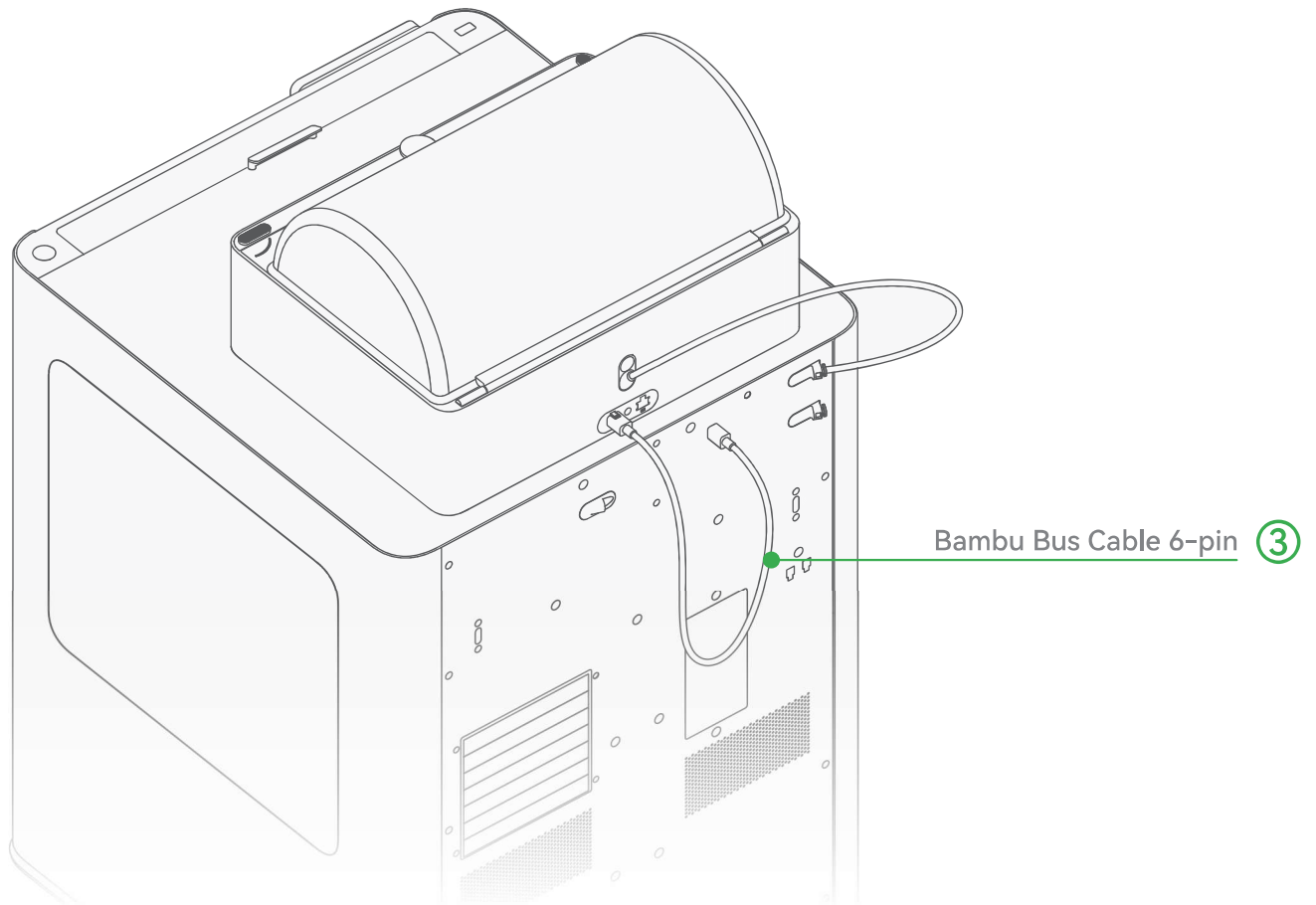
Install the AMS 2 Pro



- ① Place the top glass cover and AMS 2 Pro on top of the printer.
- ② Take out the PTFE tube from the accessory box, insert it into the AMS 2 Pro's filament outlet and 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).

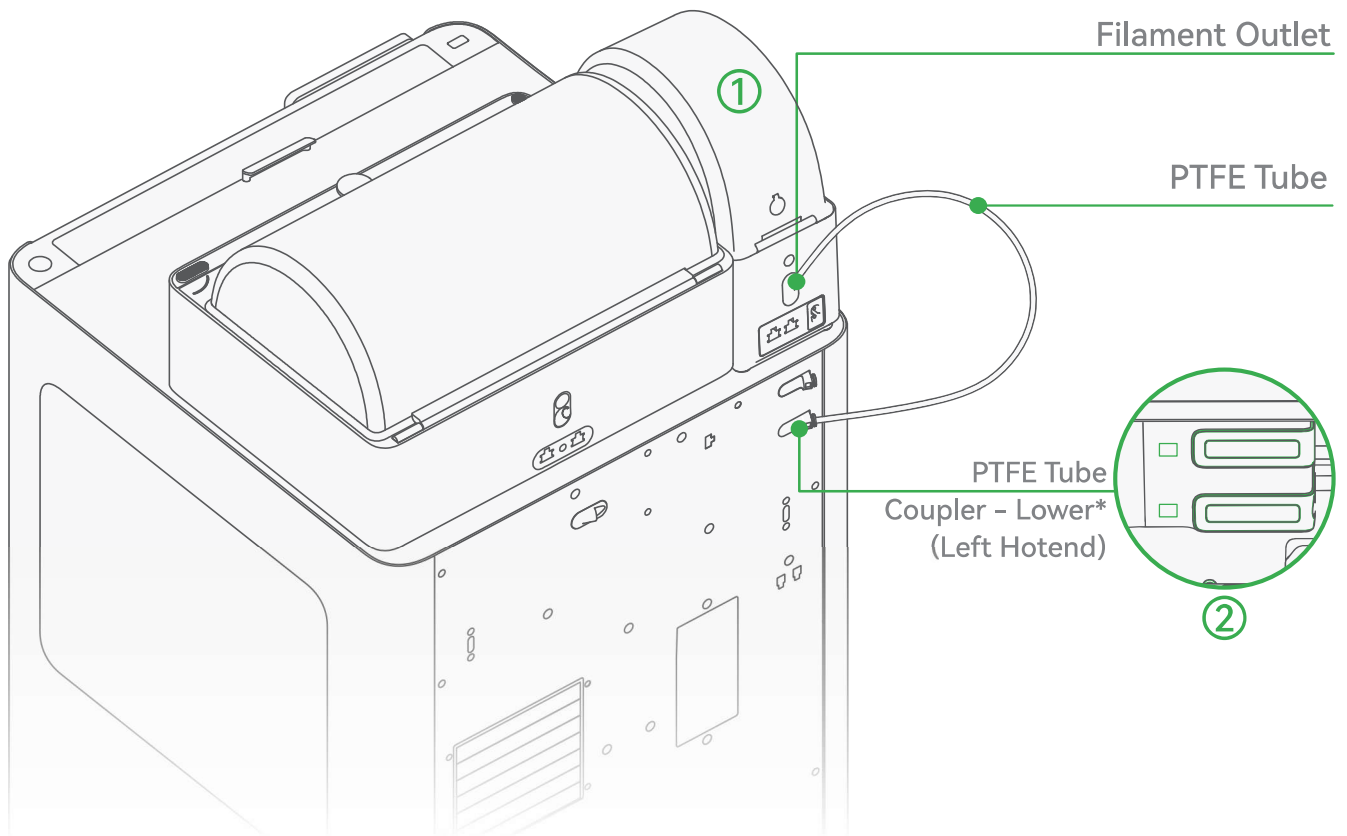
* The upper and lower PTFE tube couplers correspond to different hotends. Connecting the AMS 2 Pro to the **upper coupler** allows the **right hotend** to print in multiple colors. Connecting it to the **lower coupler** allows multi-color printing with the **left hotend**. Using **two AMS 2 Pro units**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

Install the AMS 2 Pro



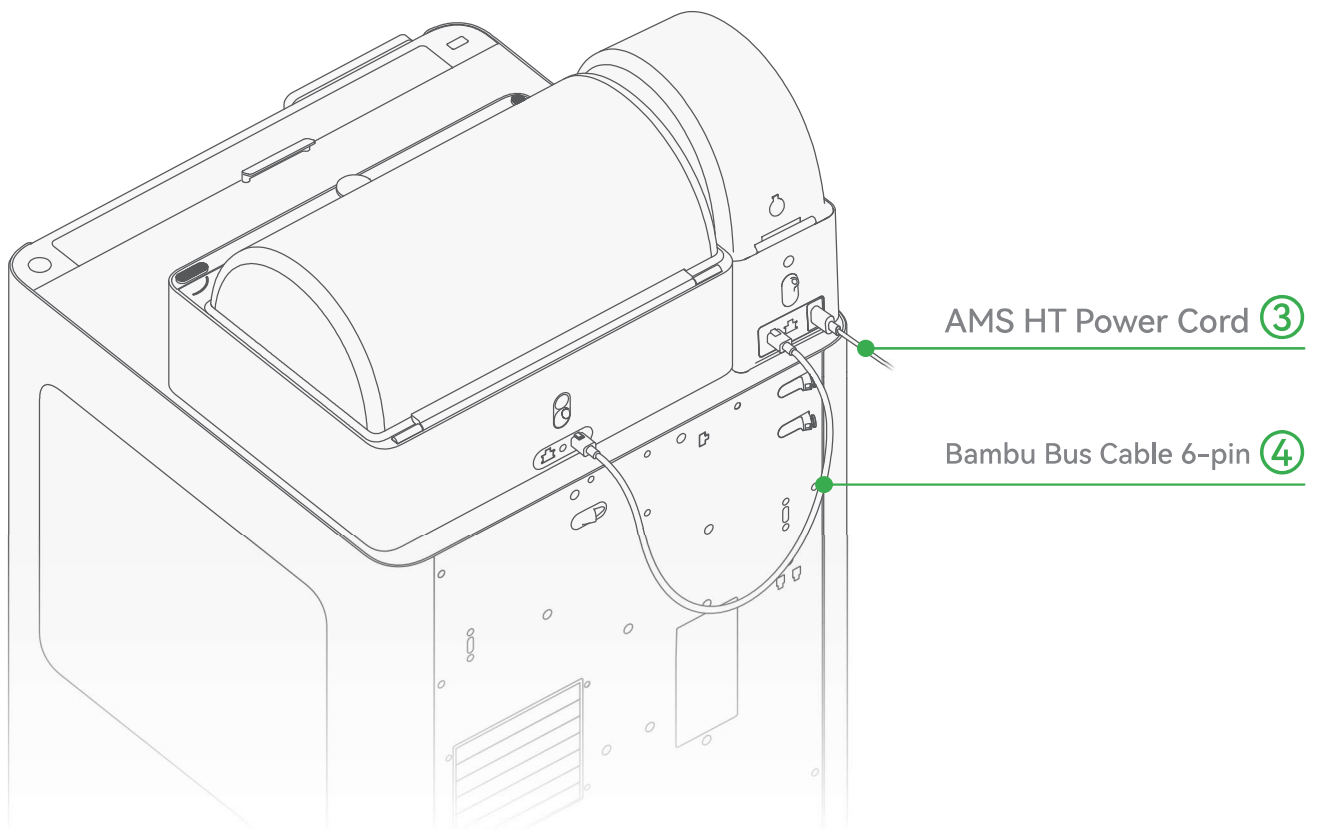
- ③ Take out the Bambu Bus Cable 6-pin from the accessory box, and connect it to the printer and either 6-pin port of the AMS 2 Pro.

Install the AMS HT



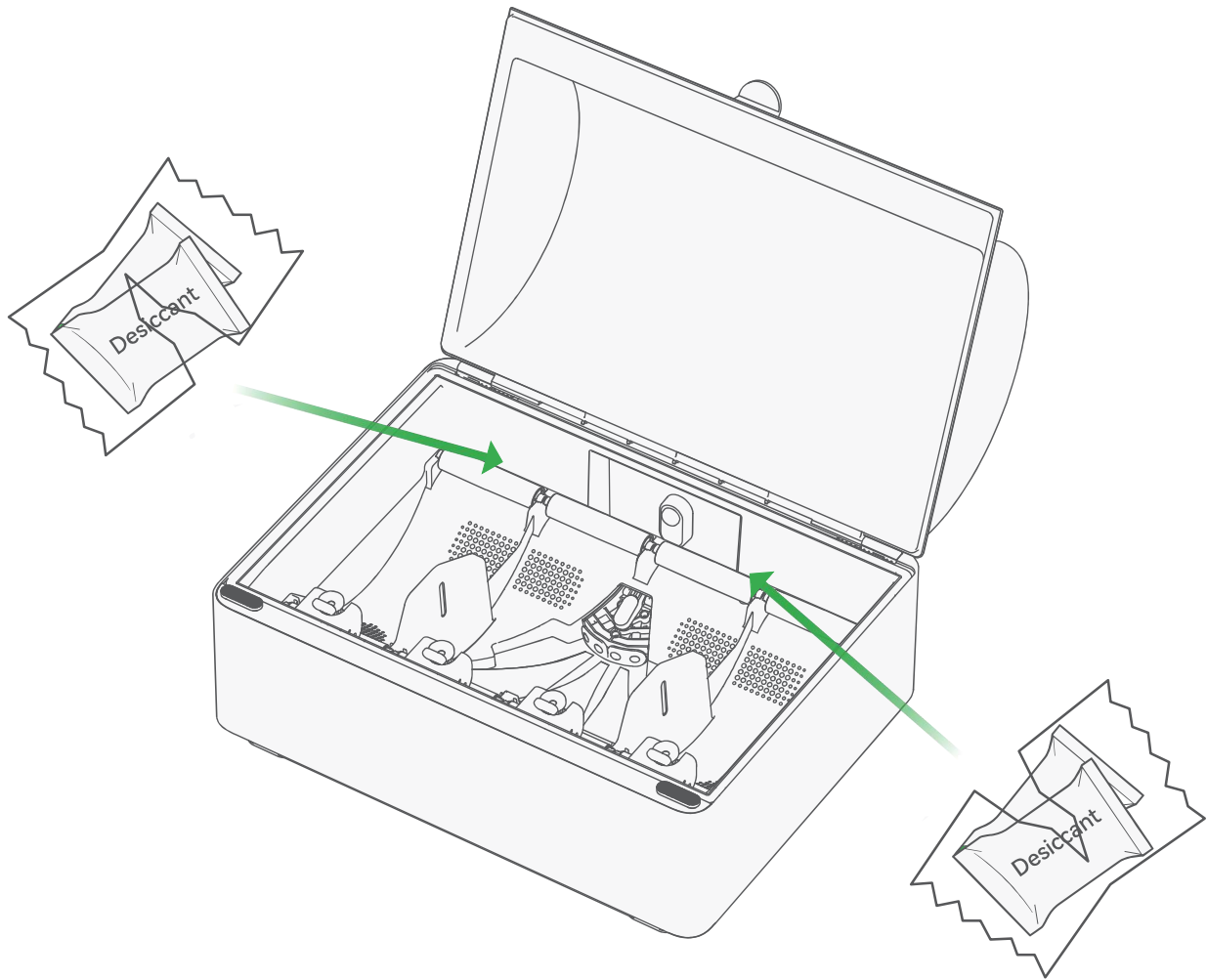
- ① Place the AMS HT on the left of the AMS 2 Pro.
 - ② Take out the PTFE tube from the accessory box, insert it into the AMS HT's filament outlet and the remaining PTFE tube coupler of the printer, and push the tube forward for approximately 10 cm until it stops (if you can see the PTFE tube from the window next to the buffer from the front of the printer, it is correctly inserted).
- * The upper and lower PTFE tube couplers correspond to different hotends. Connecting to the **upper coupler** allows the **right hotend** to print with the AMS HT, while connecting to the **lower coupler** allows the **left hotend** to print with the AMS HT.

Install the AMS HT



- ③ Insert the power cord into the power port of the AMS HT.
- ④ Take out the Bambu Bus Cable 6-pin from the accessory box, and connect it to the AMS 2 Pro and either 6-pin port of the AMS HT.

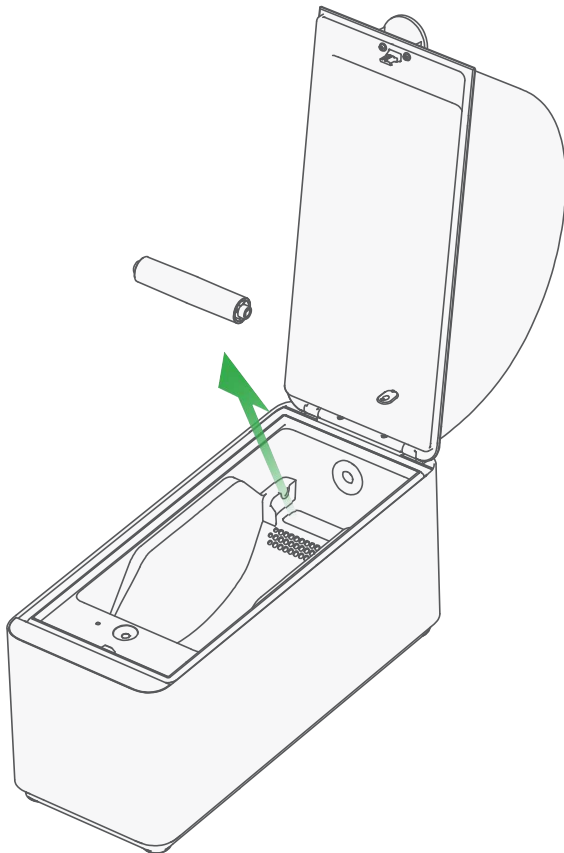
Place the desiccant in the AMS 2 Pro



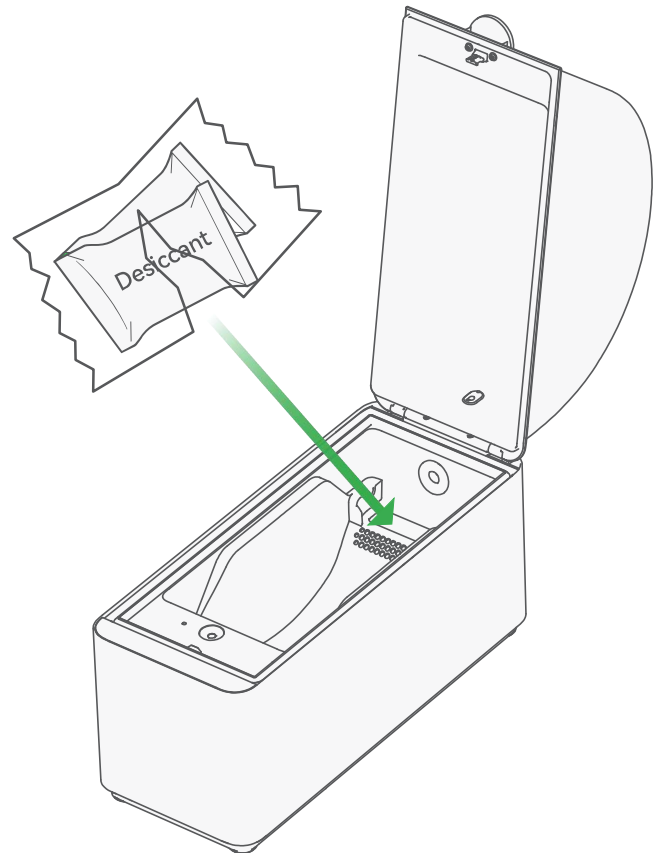
Remove the tape from the back of the AMS 2 Pro and take out the desiccant packs. Remove the outer plastic packaging material and install 2 packs of desiccant on each side of the empty space.

Place the desiccant in the AMS HT

①



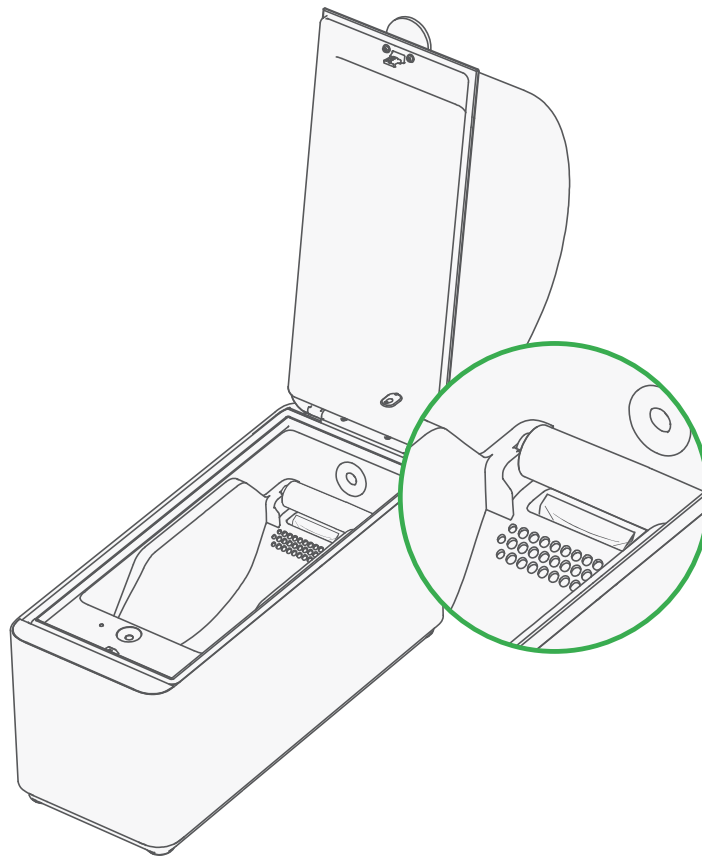
②



- ① Remove the tape from the driven support shaft. Then, carefully slide out the shaft while ensuring the bearings on both sides remain secure.
- ② Take out the desiccant from its outer plastic packaging material and place it in the empty space beneath the driven support shaft.

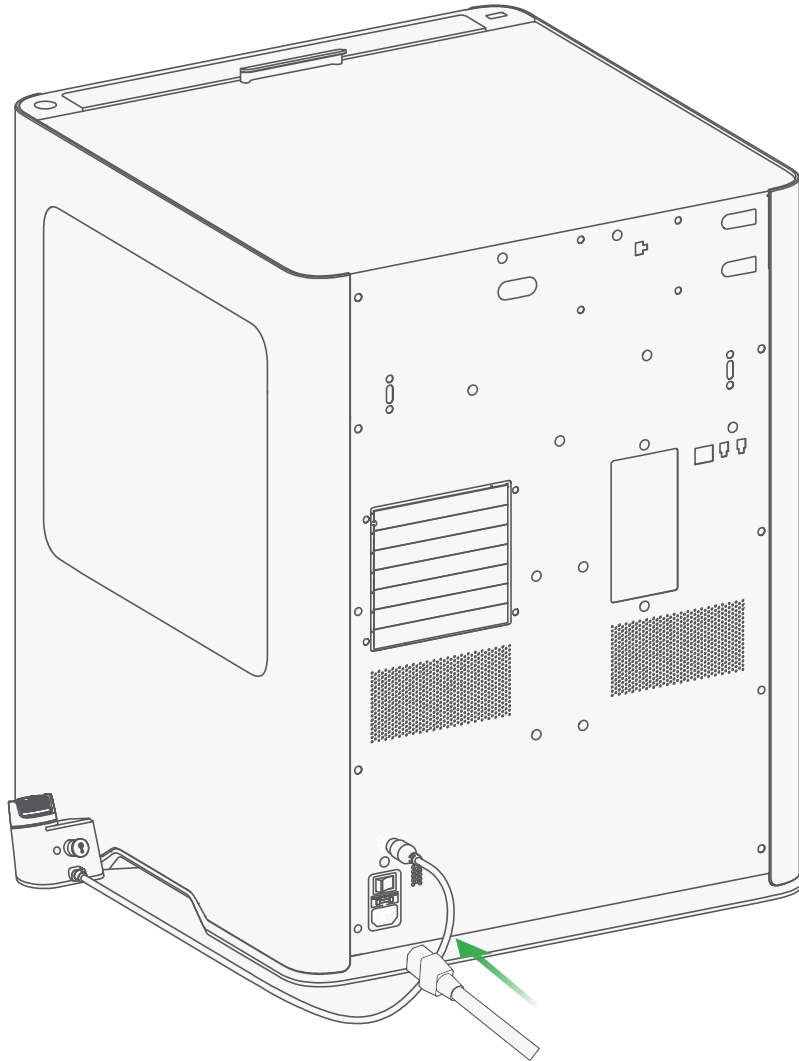
Place the desiccant in the AMS HT

③



Install the driven support shaft by pressing firmly on both ends to click it in place.

Plug in the power cord and power on

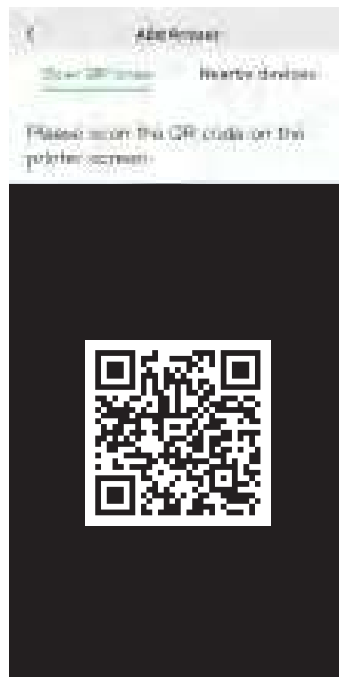
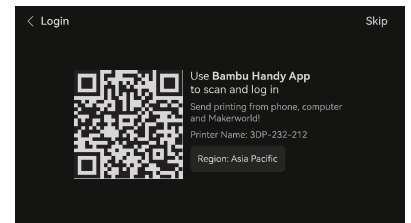
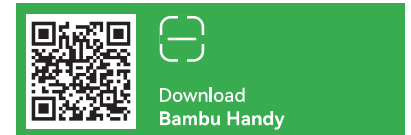


Plug the power cord in the power socket on the back. Then, turn on the power switch.

If the printer cannot be powered on, please check the emergency button and make sure it is not pressed down and the safety key is installed.

Bind the printer – Bambu Handy

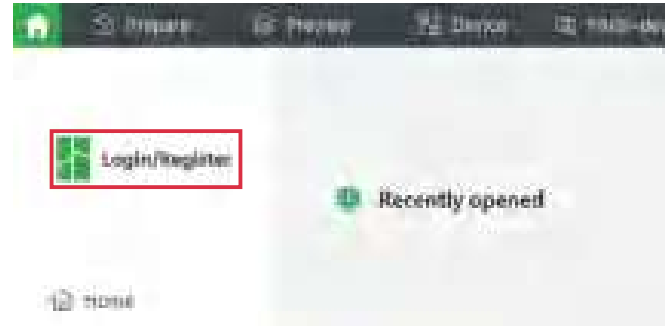
1. Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.
2. Follow the instructions on the screen until a QR code appears.
3. Scan the QR code on Bambu Handy to bind the printer to your Bambu Lab account.



4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

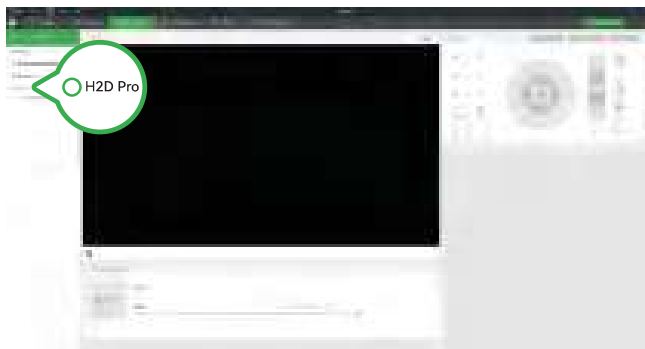
*** DO NOT remove the foam under the heatbed until calibration is complete.**

Bind the printer – Bambu Studio



1. Connect both the computer and printer to the **same wireless network**, and do not use a **guest network** that has network device separation enabled.

2. Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.
bambulab.com/download/studio



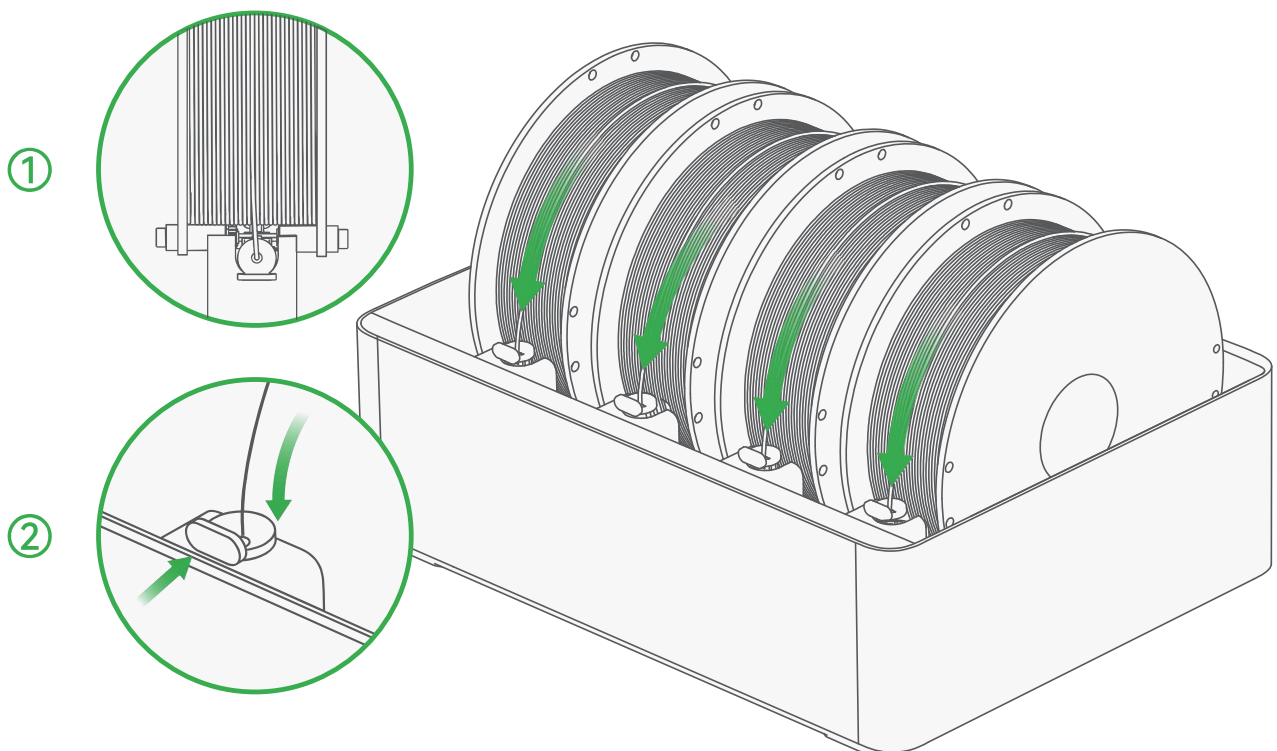
3. Click “+” on the device page, and Bambu Studio automatically discovers printers on the same network. Click the detected printer to bind it to your Bambu Lab account.

Check the status of the emergency stop button



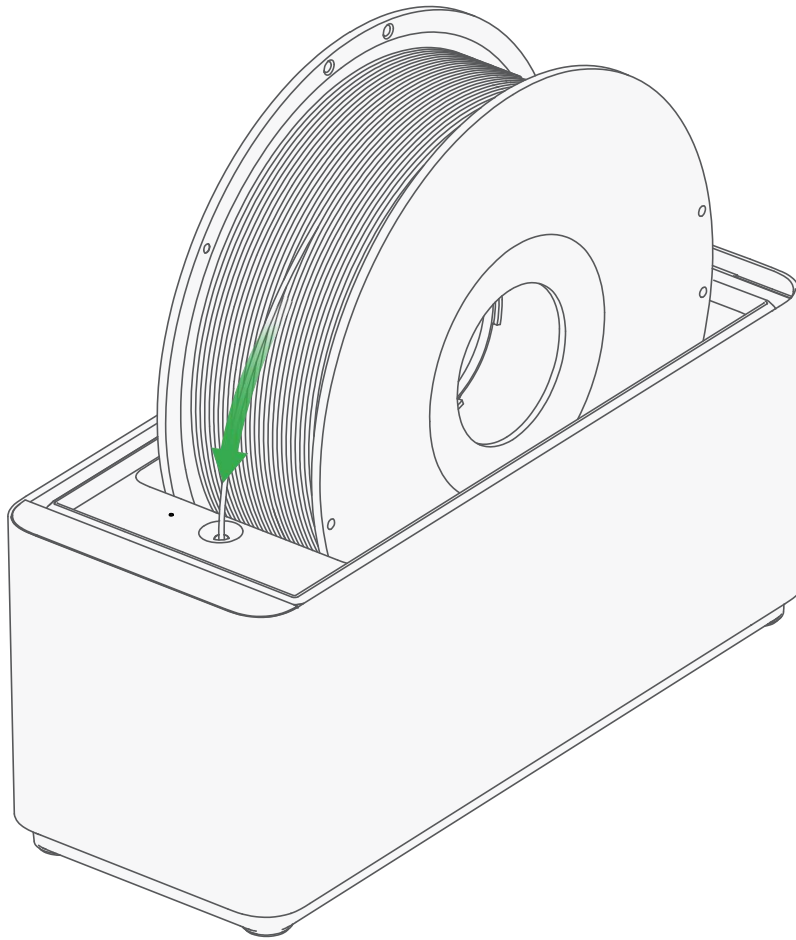
On the touchscreen, select  - Setting - Device and Serial Number. If the status of the emergency stop button is “Installed”, it means it is correctly installed. If not, please check the steps and re-install the button. You can also check if the button can work properly by pressing the button to cut off power and rotate it clockwise to restore power.

How to load 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.

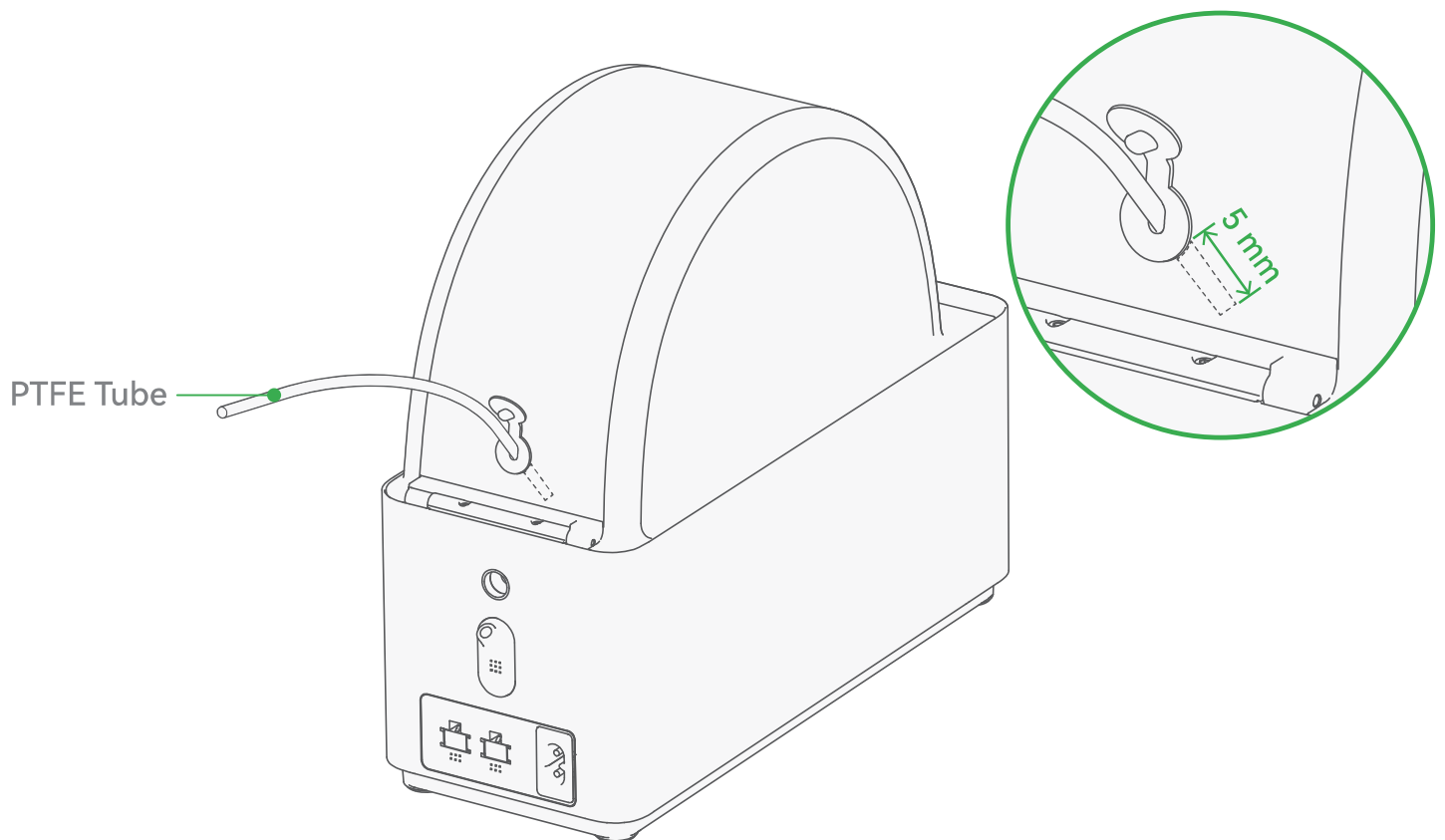
How to load filament in the AMS HT



Power on the printer and place a spool inside the AMS HT. Insert the filament into the AMS HT. The AMS HT will pre-load it after it is detected. When the status indicator next to the filament inlet is on, the AMS HT is ready to print.

How to use TPU filament in the AMS HT

①

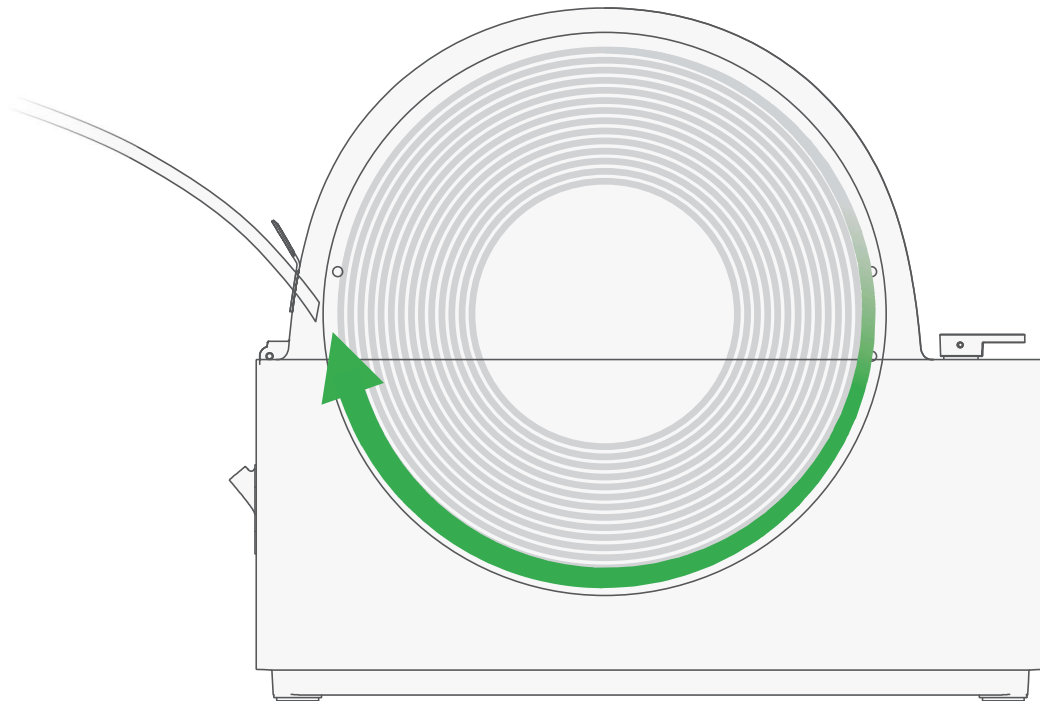


If you need to use TPU filament with a hardness level that is or below 95A, you must feed it through the bypass filament outlet on the back of the top lid. Insert a PTFE tube into the bypass filament outlet, and push the tube inside for about 5 mm.

* When not using TPU, keep the bypass filament outlet closed to prevent moisture exposure.

How to use TPU filament in the AMS HT

②



Place a spool of TPU filament inside the AMS HT, ensuring it is rotating in the direction indicated in the picture above. Then, manually guide the filament through the PTFE tube and continue feeding it until it reaches the extruder and cannot move forward.

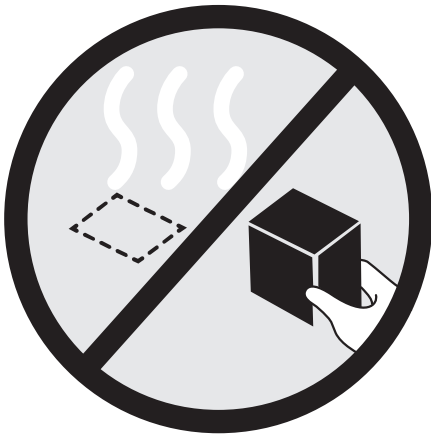
First print



Select  - Print Files, then select a model you wish to print.

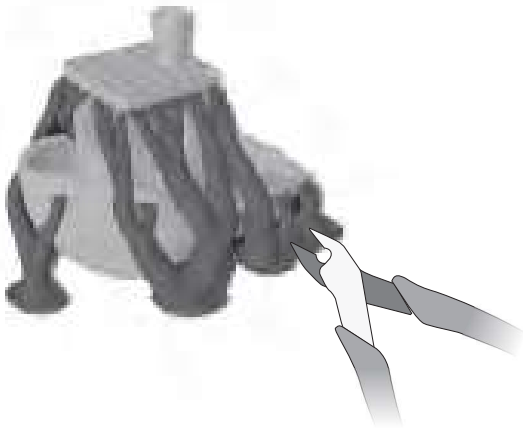
- * The textured PEI plate that comes with the printer is sensitive to dirt and oil. If you have touched the surface of the plate with your hands, oils from your hands can transfer to the surface and impact the plate's adhesion properties. It is recommended to wash it with hot water and detergent first to ensure the best adhesion.

After-print notes



Wait until the build plate fully cools down
to remove prints.

Wash the build plate regularly with
hot water and detergent for best
adhesion.



If there is a support structure used, remove
it as soon as possible after the heatbed
fully cools down. It will be harder to
remove if the filament absorbs moisture.

Regular maintenance

A 3D printer has a complex mechanical structure and numerous moving parts. Regular maintenance is essential to ensure stable operation and high-quality prints.

Metal Moving Parts:

- Lubricate lead screws, linear rods, guide rails, idler pulleys, and extruder gears regularly to prevent rust.
- Use lubricating oil for guide rails, linear rods, and idler pulleys, and apply lubricating grease to lead screws and extruder gears.

Consumables:

- Inspect plastic and rubber parts, such as filament cutters, for signs of wear, deformation, or aging.
- Replace consumable parts as needed, such as nozzle wipers and PTFE tubes, to maintain print quality.

Other Components:

- Check camera lenses, fans, and filament sensors for dust or debris.
- Clean fans with compressed air, and gently clean camera lenses using a microfiber cloth with isopropyl alcohol for optimal clarity.

The Bambu Lab AMS 2 Pro/AMS HT 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 filament struggles to pass through the pneumatic connector, try reseating the connector or replacing it to restore proper filament flow.

Regular maintenance

- **Feeder Unit:** To prevent excessive resistance during filament loading or unloading, regularly clear any residual filament dust from the feeder unit.
- **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 AMS HT, and prevent filament from absorbing moisture. Periodically check the desiccant and replace it if it has lost its effectiveness.



bambulab.com/support/maintenance

Please refer to the "Regular Maintenance Recommendations" section on our wiki for more information.

Specifications

Item			Specification
Printer	Printing Technology		Fused Deposition Modeling
	Body	Build Volume (W*D*H)	Single Nozzle Printing: 325*320*325 mm ³ Dual Nozzle Printing: 300*320*325 mm ³ Total Volume for Two Nozzles: 350*320*325 mm ³
		Chassis	Aluminum and Steel
		Outer Frame	Plastic and Glass
	Physical Dimensions	Physical Dimensions	492*514*626 mm ³
		Net Weight	31 kg
	Toolhead	Hotend	All Metal
		Extruder Gear	Hardened Steel
		Nozzle	Hardened Steel
		Max Nozzle Temperature	350 °C
		Included Nozzle Diameter	0.4 mm
		Supported Nozzle Diameter	0.2 mm, 0.4 mm, 0.6 mm, 0.8 mm
		Filament Cutter	Built-in
		Filament Diameter	1.75 mm
		Extruder Motor	Bambu Lab High-precision Permanent Magnet Synchronous Motor
	Heatbed	Build Plate Material	Flexible Steel Plate
		Included Build Plate Type	Textured PEI Plate
		Supported Build Plate Type	Textured PEI plate, Smooth PEI Plate
		Max Heatbed Temperature	120 °C
	Speed	Max Speed of Toolhead	1000 mm/s
		Max Acceleration of Toolhead	20,000 mm/s ²
		Max Flow for Hotend	40 mm ³ /s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
	Chamber Temperature Control	Active Chamber Heating	Supported
		Max Temperature	65 °C
	Air Purification	Pre-filter Grade	G3

Specifications

Printer	Air Purification	HEPA Filter Grade	H12
		Activated Carbon Filter Type	Granulated Coconut Shell
		VOC Filtration	Superior
		Particulate Matter Filtration	Supported
	Cooling	Part Cooling Fan	Closed Loop Control
		Cooling Fan for Hotend	Closed Loop Control
		Main Control Board Fan	Closed Loop Control
		Chamber Exhaust Fan	Closed Loop Control
		Chamber Heat Circulation Fan	Closed Loop Control
		Auxiliary Part Cooling Fan	Closed Loop Control
	Supported Filament Type	PLA, PETG, TPU, PVA, BVOH	Optimal
		ABS, ASA, PC, PA, PET, Carbon/ Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA	Superior
		PPA-CF/GF, PPS, PPS-CF/GF	Ideal
	Sensor	Live View Camera	Built-in; 1920*1080
		Nozzle Camera	Built-in; 1920*1080
		Toolhead Camera	Built-in; 1920*1080
		Door Sensor	Supported
		Filament Run Out Sensor	Supported
		Filament Tangle Sensor	Supported
		Filament Odometry	Supported with AMS
		Power Loss Recovery	Supported
	Electrical Requirements	Voltage	100–120 VAC / 200–240 VAC, 50/60 Hz
		Max Power ¹	2200 W@220 V / 1320 W@110 V
	Working Temperature		10 °C -30 °C
	Electronics	Touchscreen	5-inch 720*1280 Touchscreen
		Storage	Built-in 8 GB EMMC and USB Port
		Control Interface	Touchscreen, mobile App, PC App
		Motion Controller	Dual-core Cortex-M4 and Single-core Cortex-M7
		Application Processor	Quad-core 1.5 GHz ARM A7
		Neural Processing Unit	2 TOPS

Specifications

Printer	Software	Slicer	Bambu Studio Supports third-party slicers which export standard G-code, such as Super Slicer, PrusaSlicer and Cura, but certain advanced features may not be supported.
		Supported Operating System	MacOS, Windows
	Network Control	Ethernet	Available
		Wireless Network	Wi-Fi
		Network Kill Switch	Wi-Fi and Ethernet
		Removable Network Module	Available
		802.1X Network Access Control	Available
	Wi-Fi	Operating Frequency	2412–2472 MHz, 5150–5850 MHz (FCC/CE) 2400–2483.5 MHz, 5150–5850 MHz (SRRC)
		Wi-Fi Transmitter Power (EIRP)	2.4 GHz: <23 dBm (FCC); <20 dBm (CE/SRRC/MIC) 5 GHz Band1/2: <23 dBm (FCC/CE/SRRC/MIC) 5 GHz Band3: <30 dBm (CE); <24 dBm (FCC) 5 GHz Band4: <23 dBm (FCC/SRRC); <14 dBm (CE)
		Wi-Fi Protocol	IEEE 802.11 a/b/g/n
	Ethernet	Port Type	RJ45
		Speed	100 Mbps Full-Duplex
AMS 2 Pro	Body	Dimensions	372*280*226 mm ³
		Net Weight	2.5 kg
		Housing Material	ABS/PC
	Printing	Filament Supported	PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, Bambu PLA-CF/PAHT-CF/PETG-CF/Support for PLA/PETG, and TPU for AMS
		Filament Not Supported	TPE, generic TPU, PVA (damp), BVOH (damp), Bambu PET-CF/TPU 95A, and other filament that contains carbon fiber or glass fiber
		Filament Diameter	1.75 mm
		Spool Dimension	Width: 50 mm–68 mm Diameter: 197 mm–202 mm
		RFID Identification	Supported

Specifications

AMS 2 Pro	Drying	Highest Temperature	65 °C
		Filament Supported ²	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*
		Active Moisture Discharge	Supported
		Sealed Storage	Supported
		Temperature and Humidity Detection and Maintenance	Supported. Real-time temperature and humidity can be displayed on the screen ³ , Bambu Studio, and Bambu Handy.
	Power	Input	24 V 4 A
AMS HT	Body	Dimensions	114*280*245 mm ³
		Net Weight	1.21 kg
		Housing Material	PC/PA
		Flame Retardant Grade	UL 94 V-0
		Screen	Supports displaying real-time temperature and humidity, and remaining drying duration.
	Printing	Filament Supported	Feeder Unit Filament Inlet: PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, Bambu PLA-CF/PAHT-CF/PETG-CF/ Support for PLA/PETG, and TPU for AMS Bypass Filament Outlet: TPE, generic TPU, Bambu PET-CF/TPU 95A, and other filament that contains carbon fiber or glass fiber
		Filament Not Supported	PVA (damp), BVOH (damp)
		Filament Diameter	1.75 mm
		Spool Dimension	Width: 50 mm–68 mm Diameter: 197 mm–202 mm
		RFID Identification	Supported
		Filament Odometry	Supported
	Drying	Maximum Temperature	85 °C
		Filament Supported	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
		Active Moisture Discharge	Supported
		Rotating Drying Mode	Supported

Specifications

AMS HT	Drying	Sealed Storage	Supported
		Top Lid Open Detection	Supported
		Temperature, Humidity Detection and Maintenance	Supported. Real-time information can be displayed on the printer screen ³ , AMS HT screen, Bambu Studio, and Bambu Handy.
		Voltage	DC: 24 V AC: 100 V–240 V~, 50 Hz/60 Hz
		Average Power	150 W

1. To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3 minutes.
2. 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 using the AMS HT.
3. The screens of P1 series printers do not support this function.

Technical Support

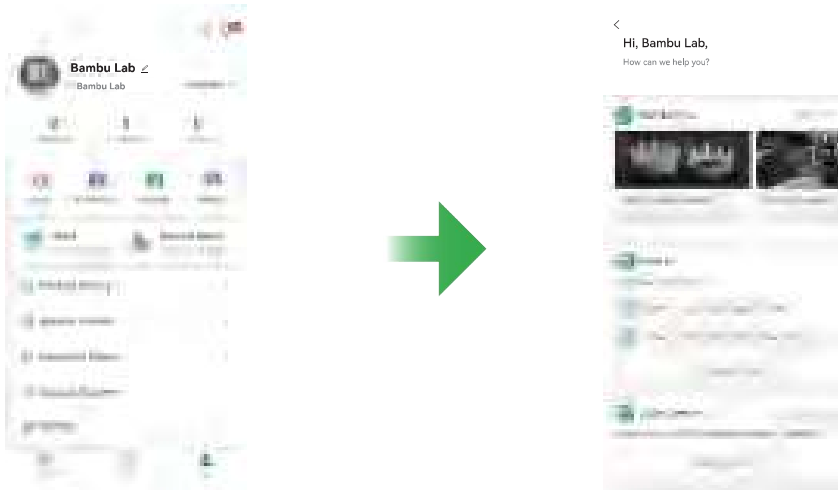
If you need technical support, please follow either of the following methods:

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

bambulab.com/support

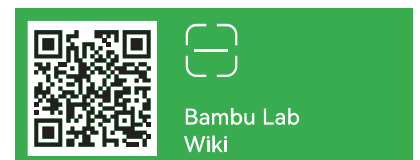


Method 2: Create a support ticket on Bambu Handy, from the Support Center section.



You can also visit the Bambu Lab Wiki for more tutorials and maintenance guidance.

wiki.bambulab.com/home





Bambu Lab

Enjoy!

www.bambulab.com