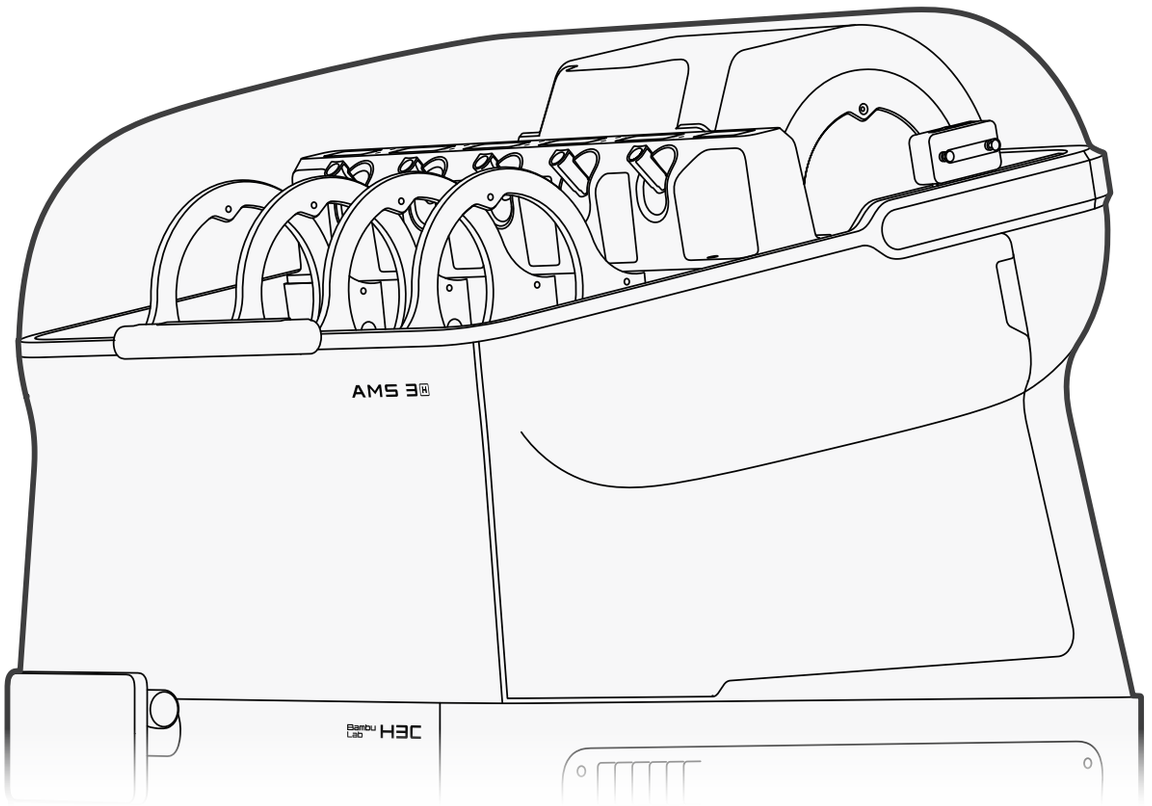
Bambu Lab AMS 3H

Quick Start Guide

Please review the entire guide before using the product.

Safety notice: Do not connect to power until the assembly is complete.



SA017

V2.1

Video Guide
Watch a step-by-step video and get started quickly.
e.bambulab.com/bambulabh3c-quick-start

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makerworld.com

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1. Read Before Use



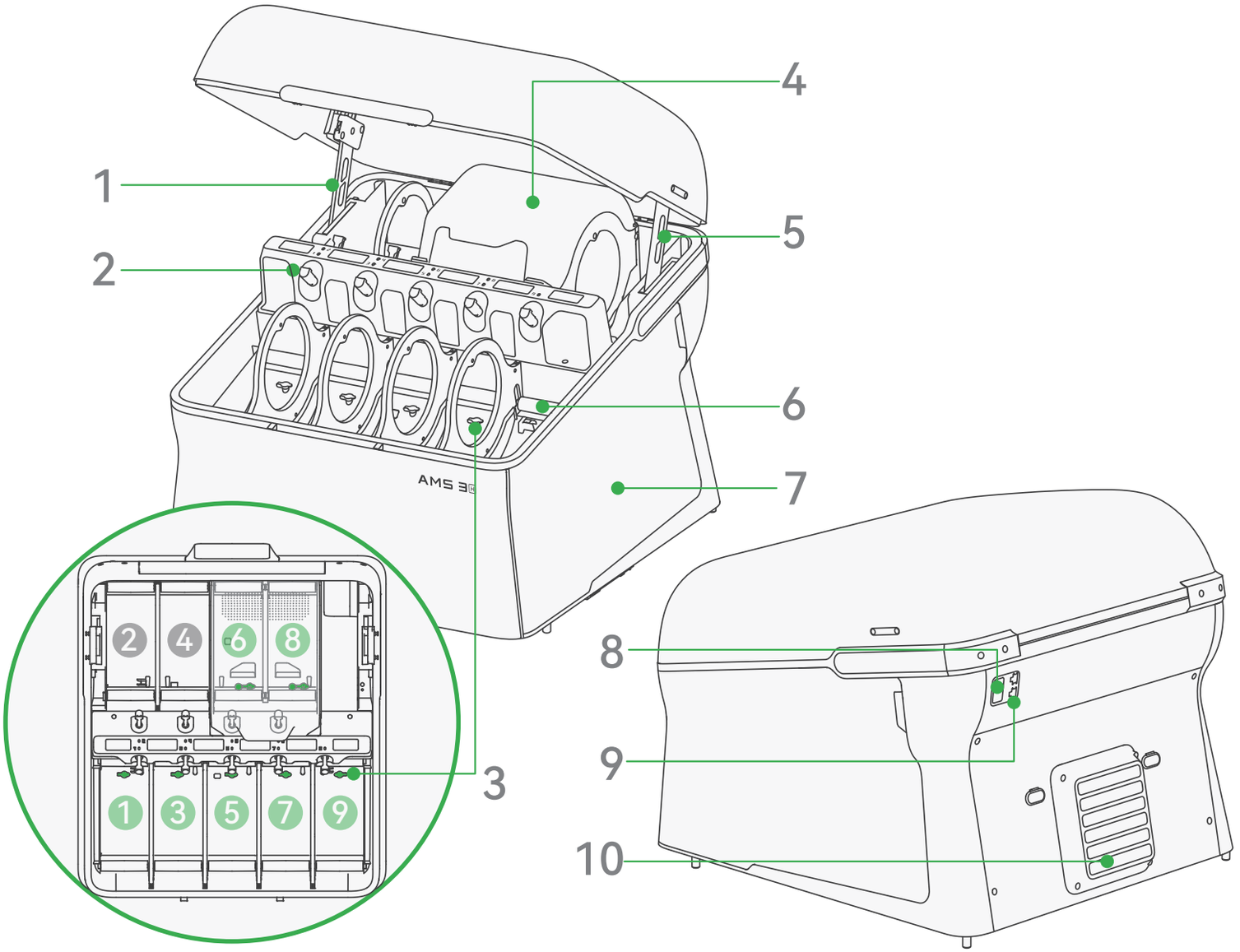
To ensure safety and optimal performance, please follow these guidelines:

- Packaging materials and accessories may be updated from time to time. Please refer to the version you receive.
- For best results, we recommend using Bambu filaments, which have been rigorously tested for compatibility, safety, and stability with the product.
- Please ensure that the PrintTools are placed in the correct docks. If the system prompts a PrintTool placement error, please check and reposition it immediately.
- After opening the AMS top lid, ensure that the support struts are fully engaged before releasing it. Close the top lid gently to prevent pinch injuries.
- The AMS 3H is equipped with bypass feeds. When printing TPU with a hardness level of 95A or lower, connect the filament directly to the PrintTool through the bypass feed instead of feeding through the auto filament loader.
- PVA is highly hygroscopic. Please dry it thoroughly before printing to prevent print failures due to moisture absorption.
- PLA Glow and carbon or glass-fiber-reinforced filaments may encounter high resistance when passing through the AMS 3H feeding funnel. We recommend loading these materials from an external spool through the rear of the printer. PPA-CF is prone to breaking when fed through the AMS 3H. Load it from an external spool instead.
- Avoid printing with filaments that have significantly different temperature requirements at the same time. Low-temperature filaments may soften or melt prematurely in a high-temperature environment, potentially causing nozzle clogs.
- The AMS 3H has two drying slots inside, supporting drying while printing. After loading fila-

ment, be sure to close the dry box cover, otherwise the drying performance will be affected.

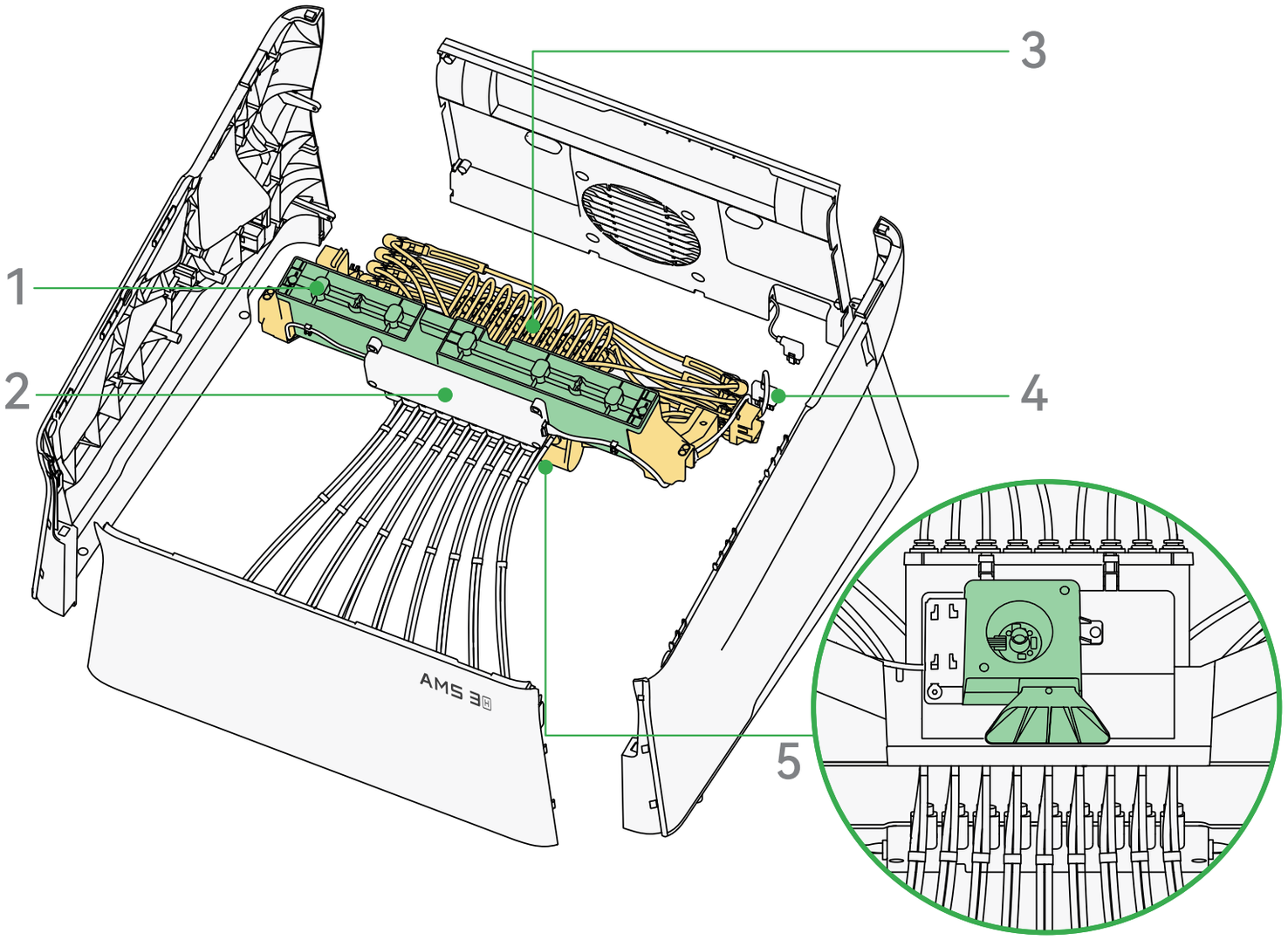
- The AMS 3H rear panel is equipped with a chamber cooling fan that draws in cool air to cool the upper chamber. Keep the rear of the fan clear and avoid placing other devices' exhaust vents nearby to ensure optimal cooling performance.

2. AMS 3H Component Introduction



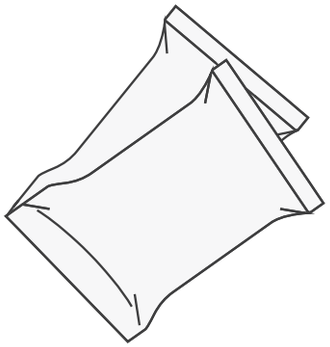
1) Lid Strut - Left
2) Feeding Funnel
3) Bypass Feed
   * No bypass feed available in slots 2 and 4.
4) Filament Dry Box
5) Lid Strut - Right
6) Filament Support Shaft
7) Magnetic Panel
8) Dryer Module Power Socket
9) Bambu Bus Port 6-pin
10) Chamber Cooling Fan

2. AMS 3H Component Introduction

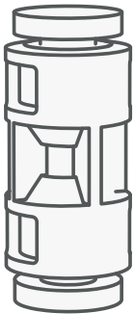


1) PTFE Tube Guide
2) Tool Control Board
3) PTFE Tube Bracket Assembly
4) Tool Control Board Cable
5) PrintTool Cooling Fan

3. Included Accessories



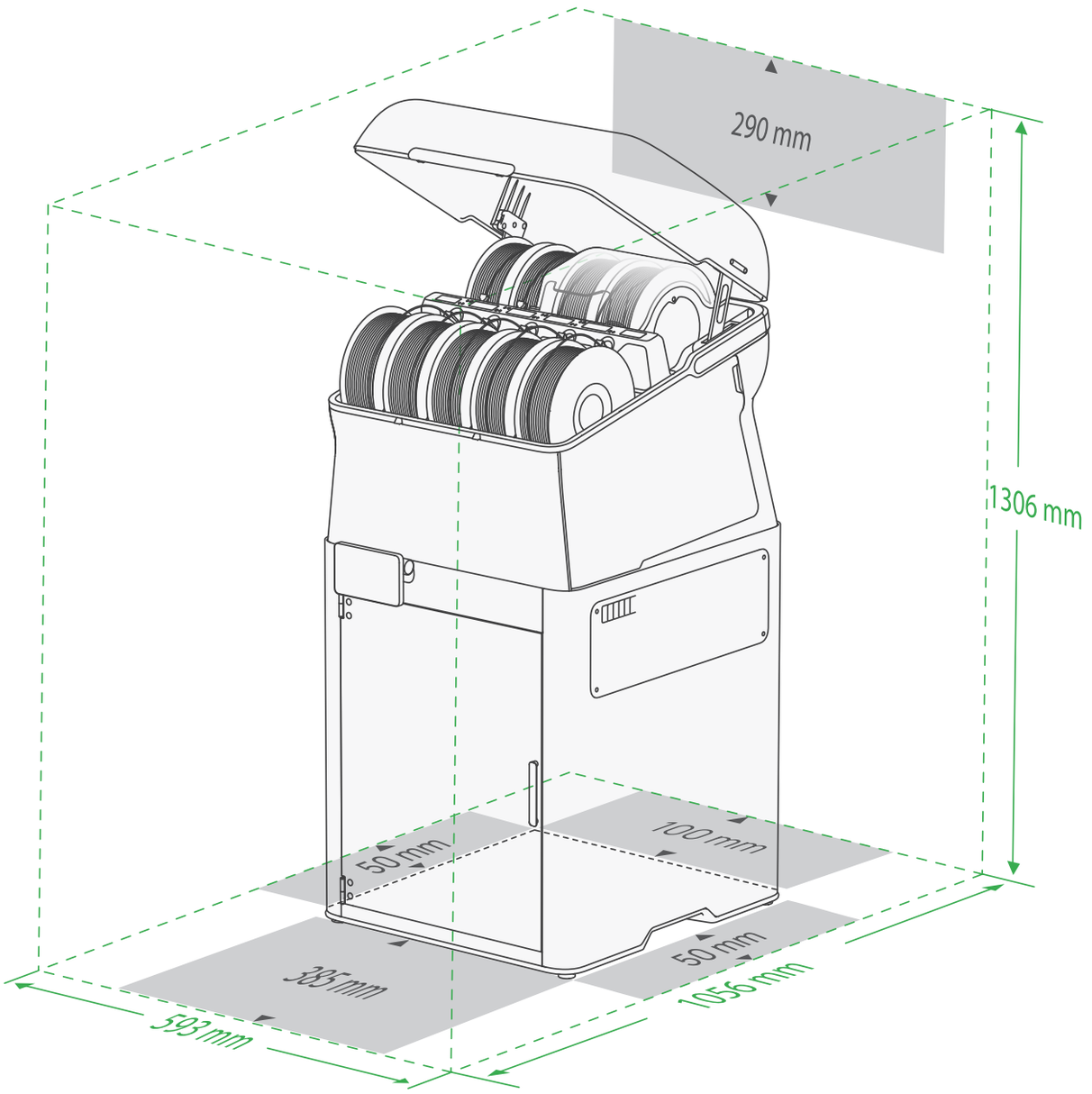
1) Desiccant



2) PTFE Tube Coupler
(Pre-installed on the PTFE tube bracket assembly)

4. Unboxing and Installation

Keep packaging materials and screws for shipping.

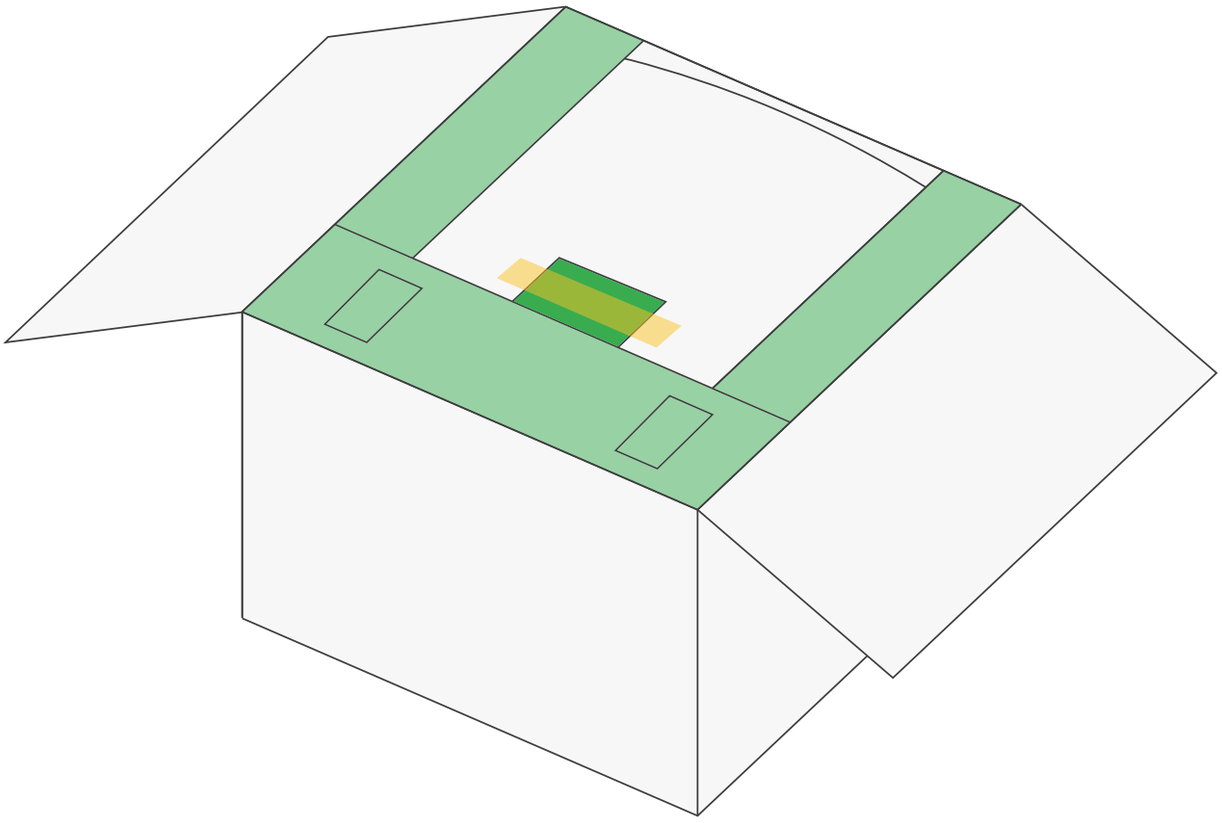


The assembled printer measures 493*571*1016 mm. Place it on the floor or a low, stable surface, and allow at least 593*1056*1306 mm of operating space.

Before installing the AMS 3H, refer to the Bambu Lab H3C Quick Start Guide to complete printer unboxing and installation, and prepare the toolbox and remaining accessories from the Bambu Lab H3C package.

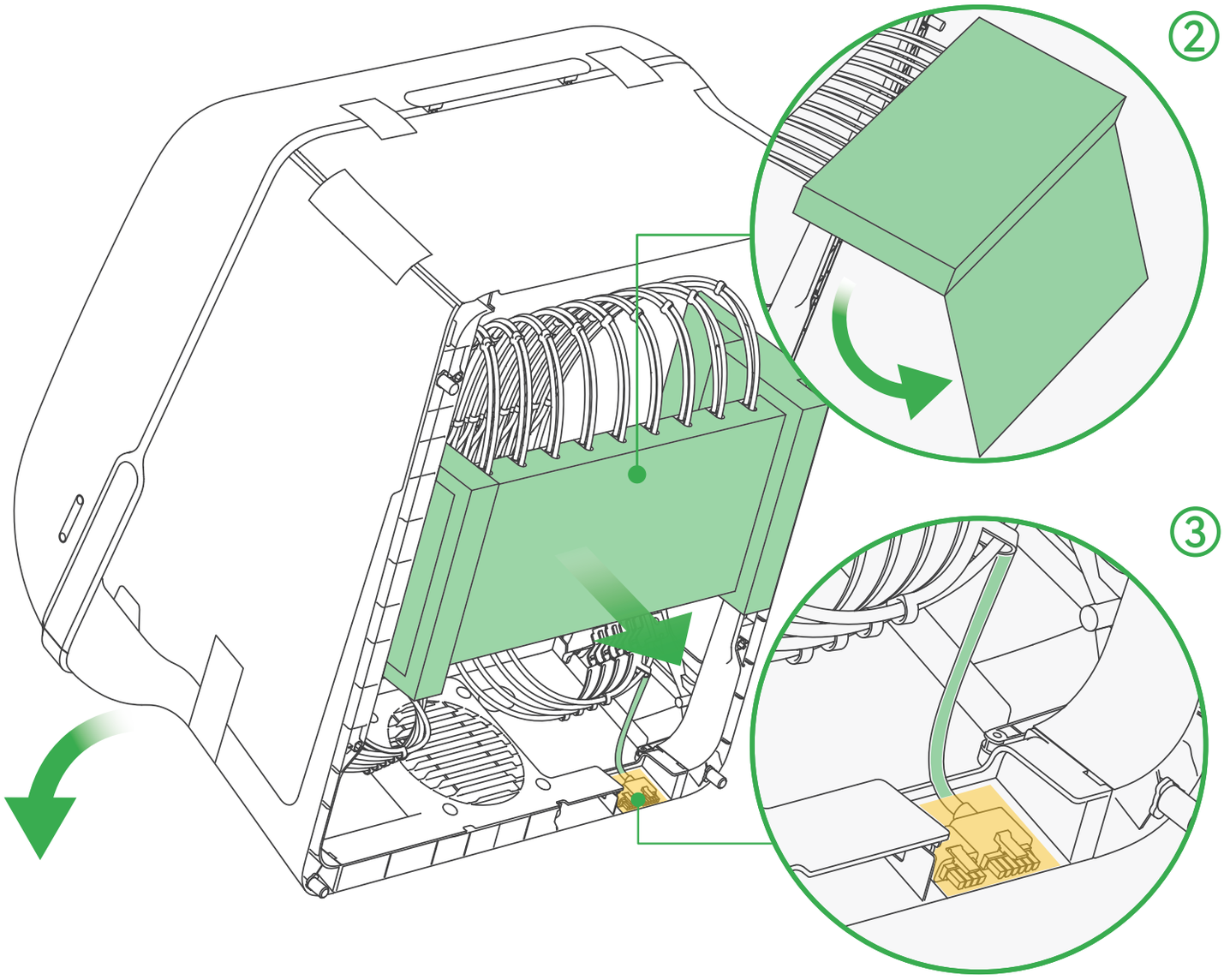
Make sure the printer is not connected to power before installing the AMS 3H.

4.1 Remove the Package



1) Open the box and take out the Quick Start Guide and accessories. Then, remove the top packaging materials.

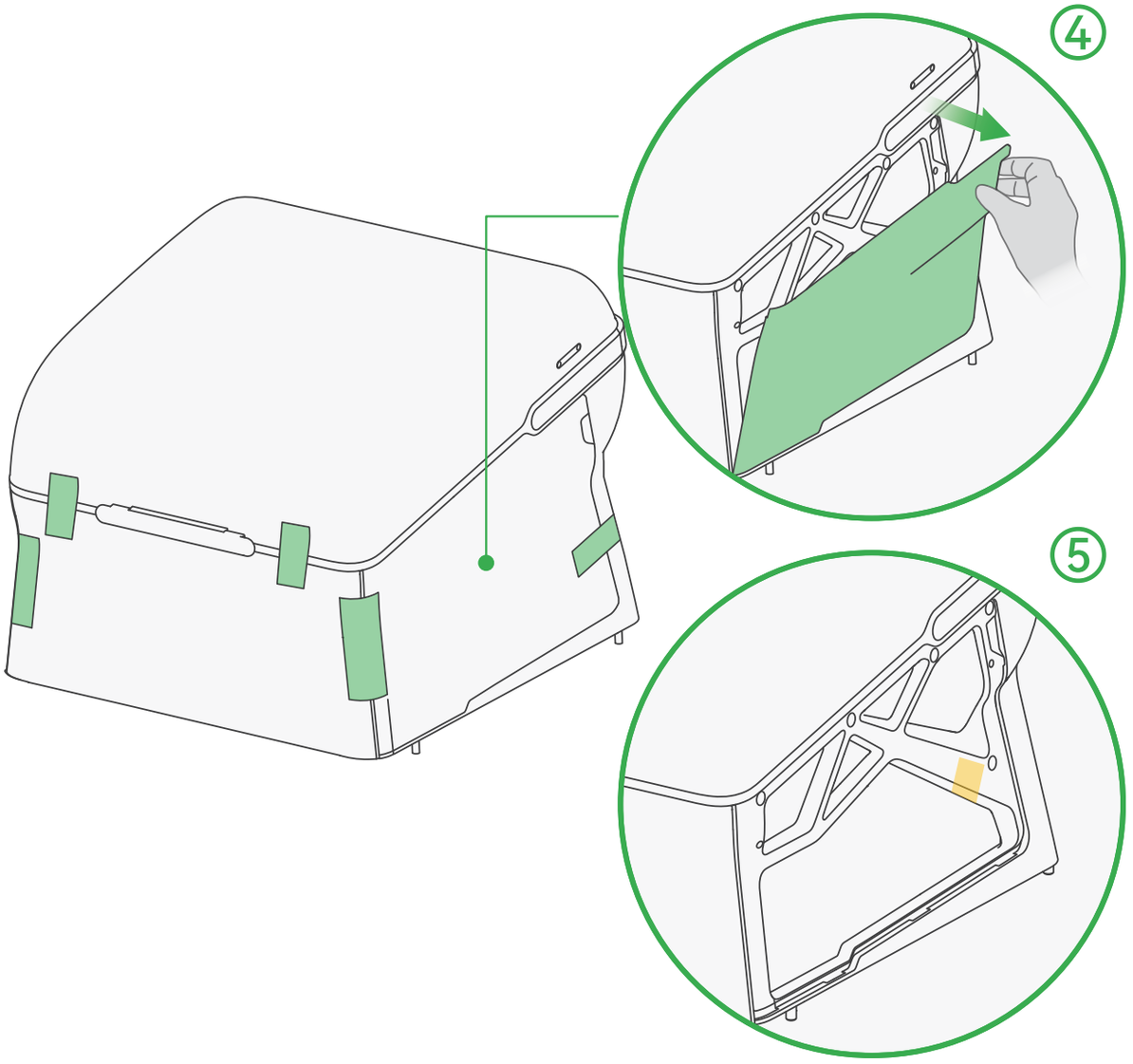
4.1 Remove the Package



2) Take out the AMS 3H and tilt the AMS 3H on its back side. Pull out and remove the internal cardboard and foam, then gently lower the PrintTools.
Keep the tape on the AMS surface for now to avoid the top lid falling and causing damage.

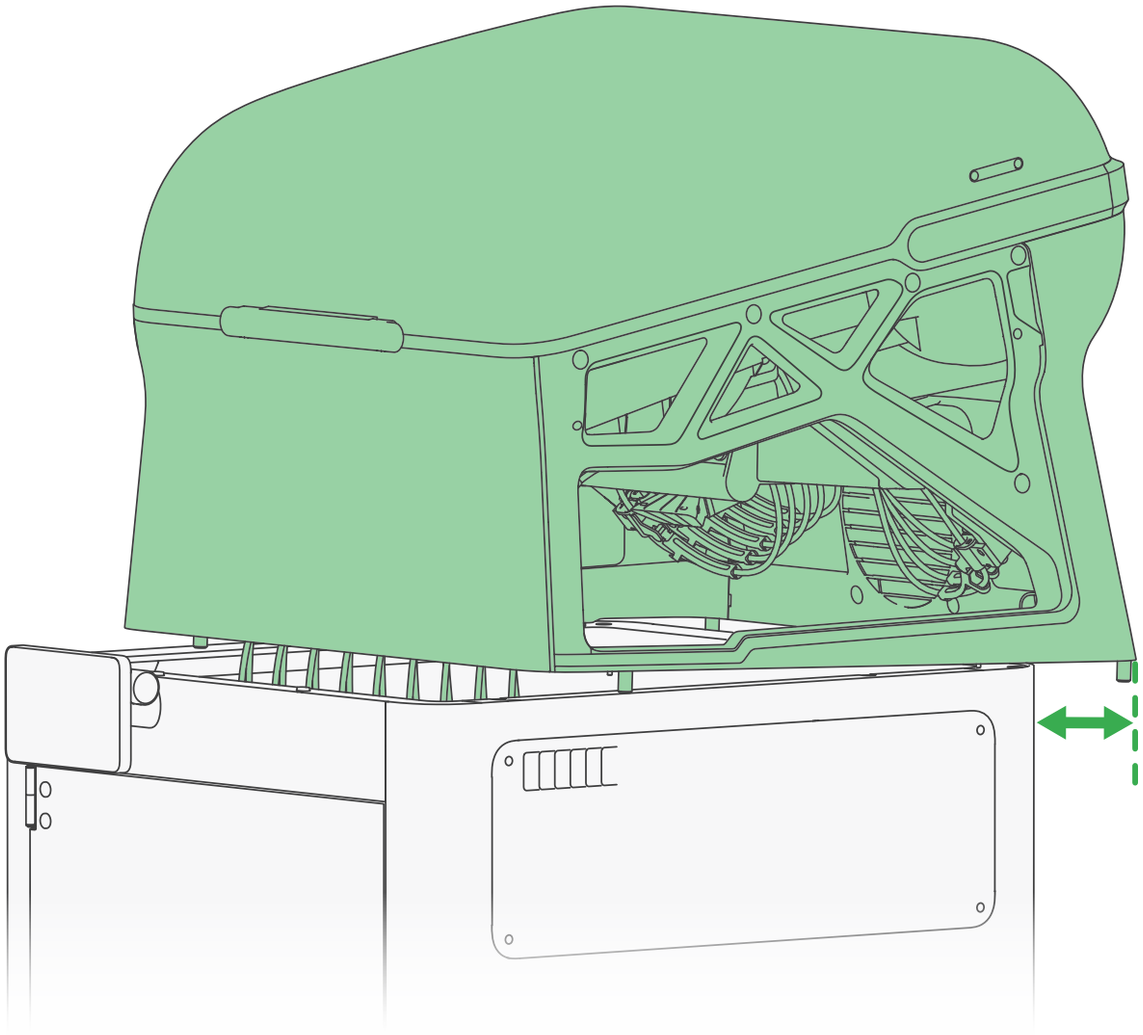
3) Remove the tape securing the two cables inside the rear panel.

4.1 Remove the Package



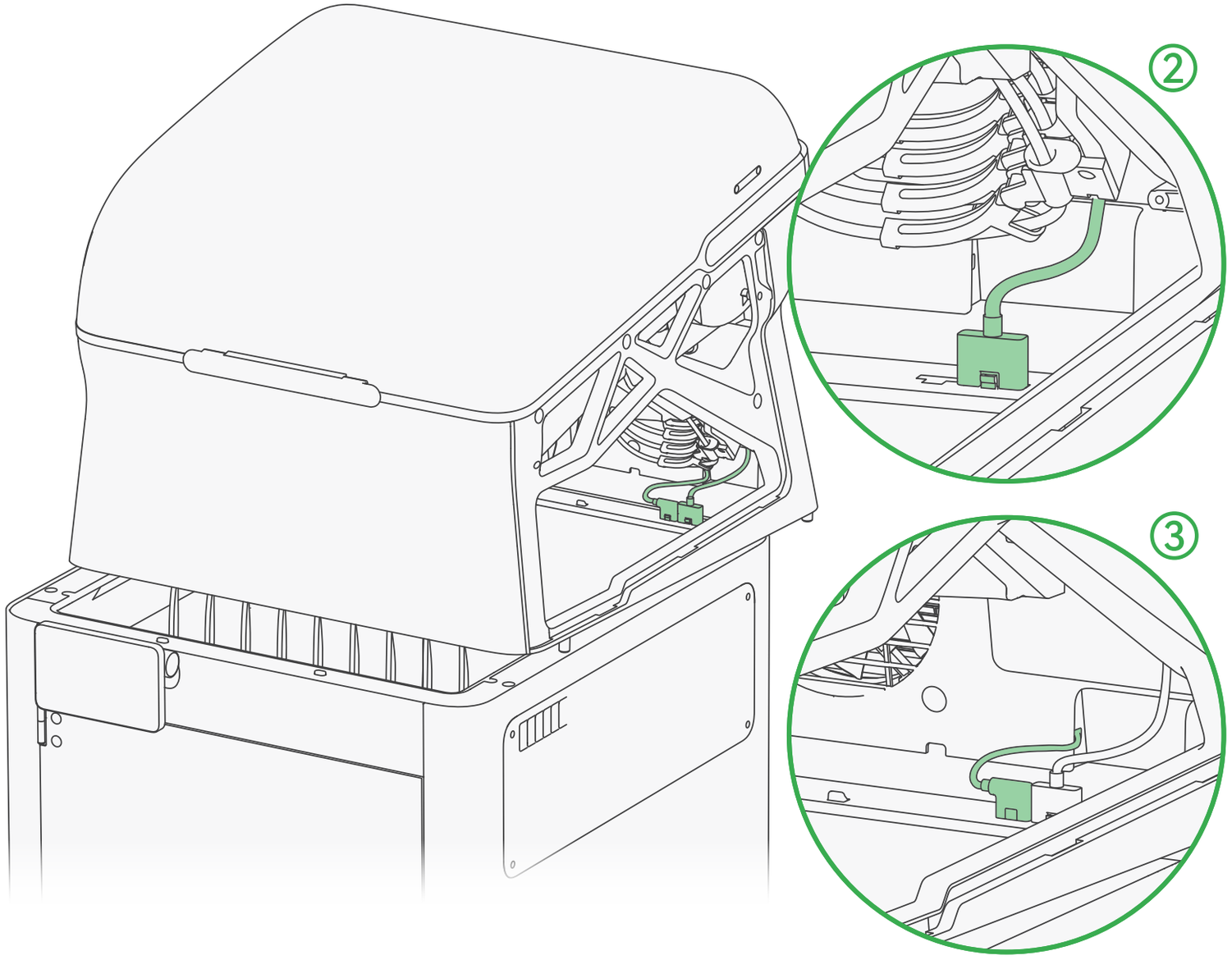
4) Place the AMS 3H upright and remove all surrounding tape and protective film. Use the grip openings to remove the left and right panels.
5) Remove the tape from the left and right frames of the AMS.

4.2 Install the AMS 3H



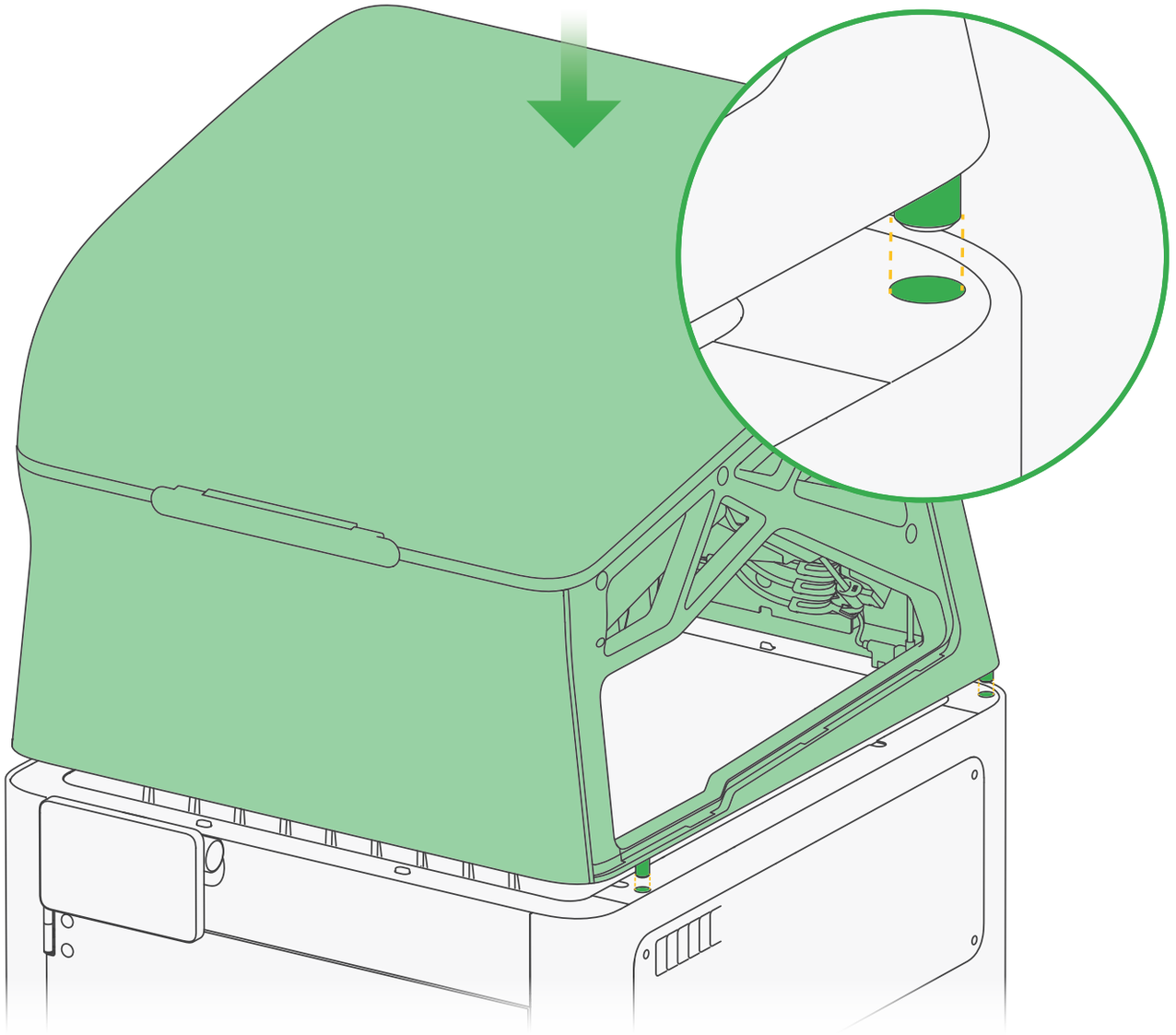
1) Gently place the AMS 3H on top of the printer. Position the AMS rear panel 20 mm beyond the printer rear panel to leave room for the following steps.

4.2 Install the AMS 3H



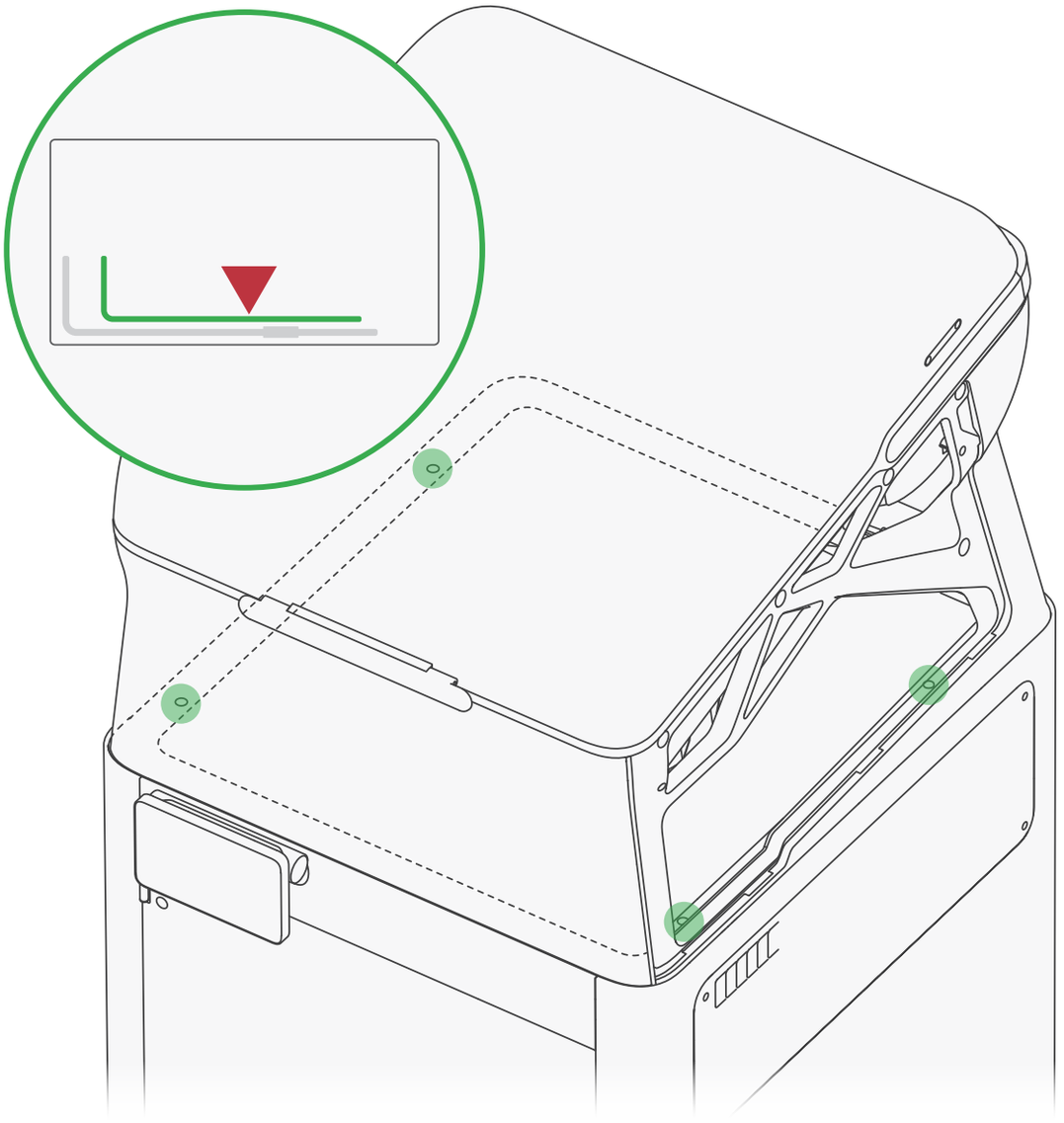
2) Reach through the AMS right frame and connect the tool control board cable on the PTFE tube bracket assembly to the rear-right port on top of the printer.
3) Connect the chamber cooling fan cable on the AMS rear panel to the adjacent port.

4.2 Install the AMS 3H



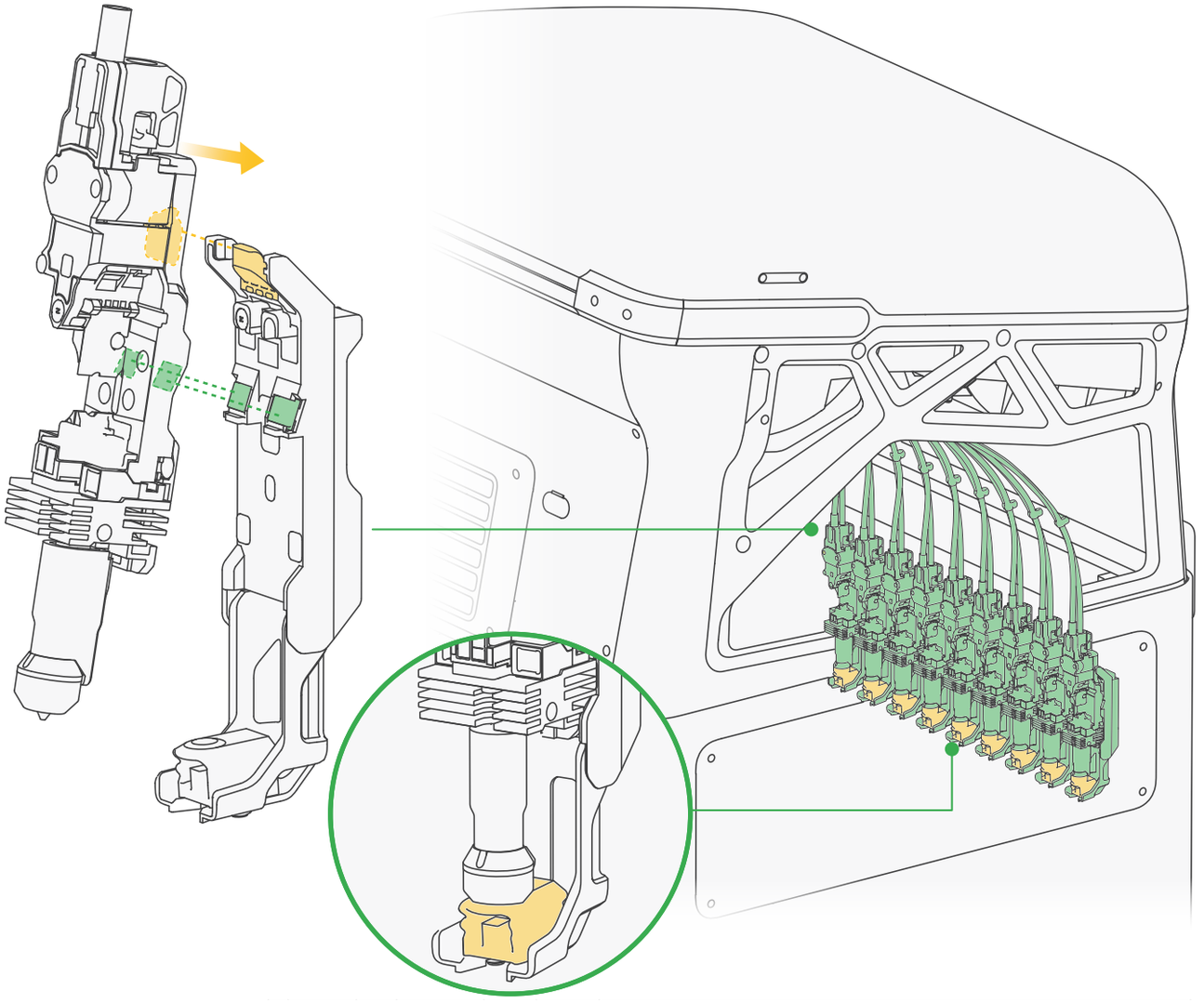
4) Lift the AMS 3H slightly, move it forward, and insert it into the corresponding holes on top of the printer.
When moving the AMS 3H, adjust the position of the two rear cables to prevent them from being crushed or damaged.

4.2 Install the AMS 3H



5) Use the H1.5 Allen key from the Bambu Lab H3C toolbox to tighten the 4 screws for AMS 3H.

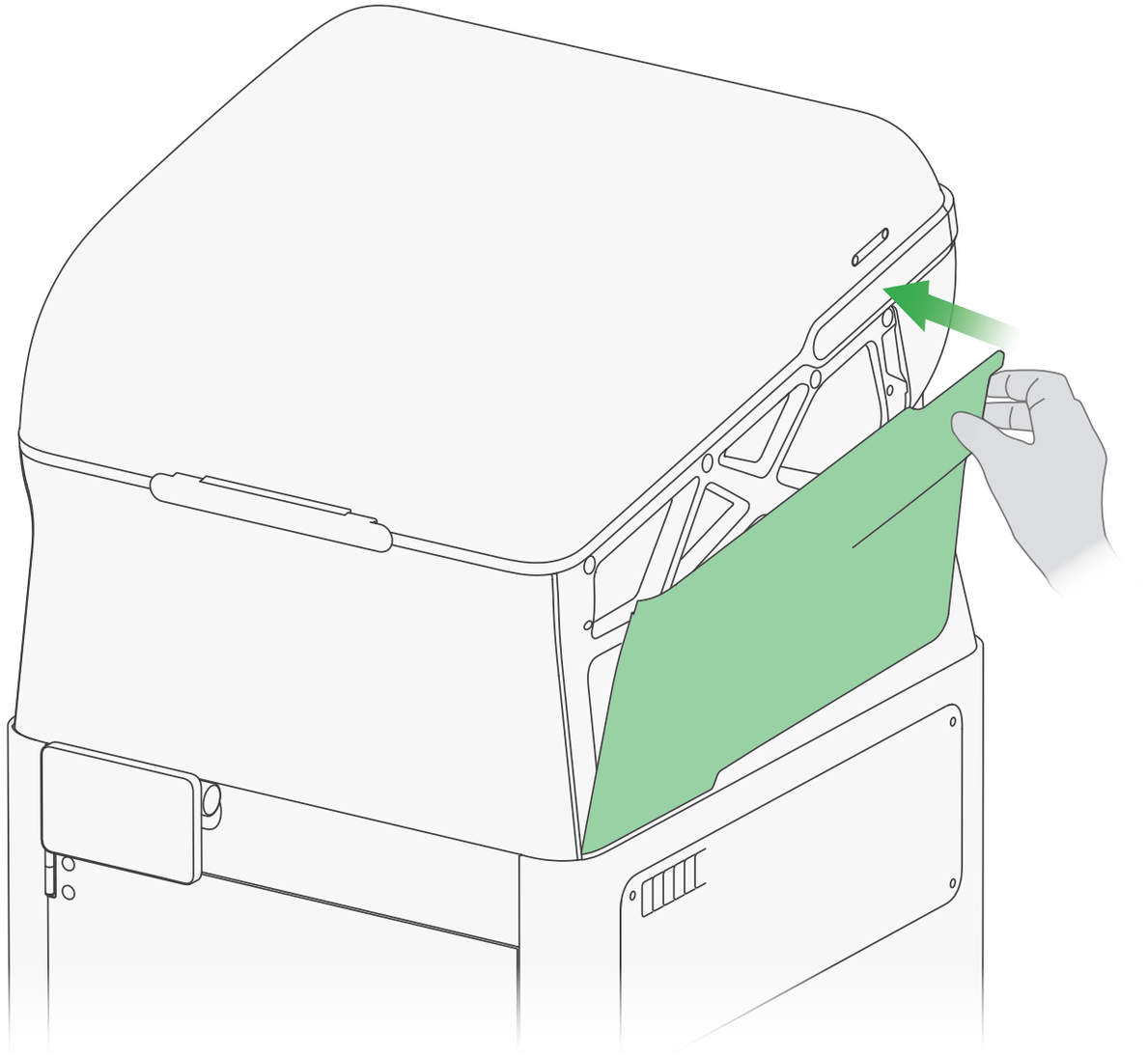
4.2 Install the AMS 3H



6) Locate the orange alignment frame on each of the 9 PrintTools. Align the frame's slot with the orange dock hook on the SwapTek rack behind the front door, then install all PrintTools in sequence. Make sure each PrintTool is secure and straight, and that the FEP tubes do not cross or tangle.

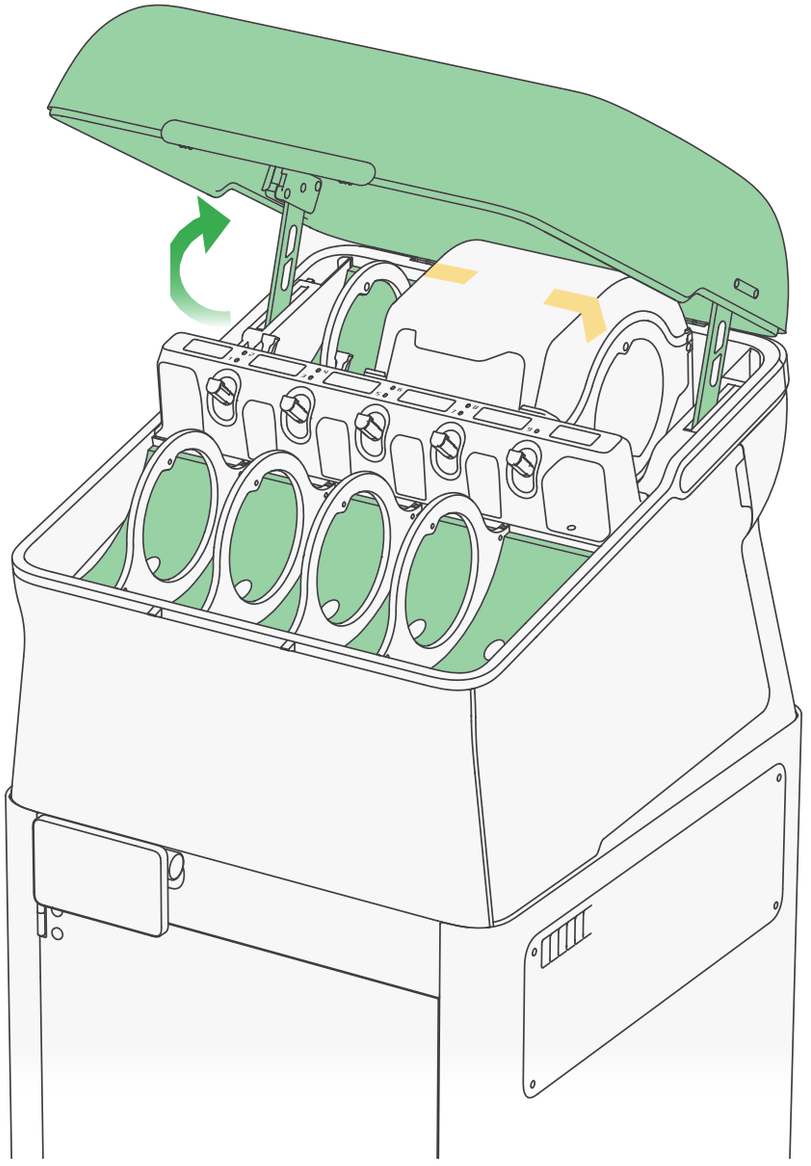
   After power-on, the printer automatically checks the PrintTool installation. If an error message appears, follow the on-screen instructions to move the PrintTool to the correct dock. After installation, the nozzle must rest against the flow blocker pad at the bottom of the dock. Do not pull the flow blocker pad.

4.2 Install the AMS 3H



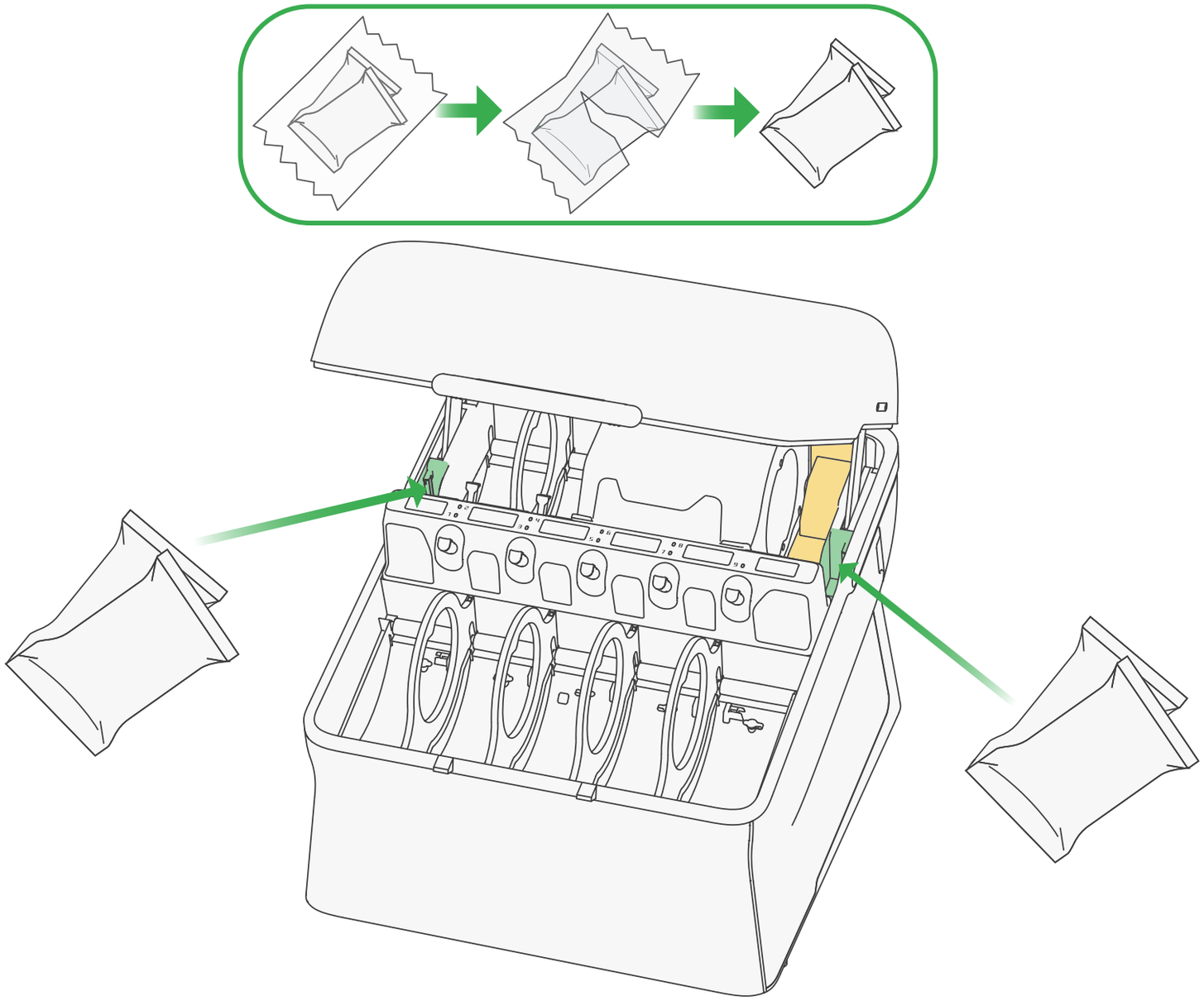
7) Install the left and right panels. Insert the bottom of each panel into the frame, then secure it magnetically.

4.2 Install the AMS 3H



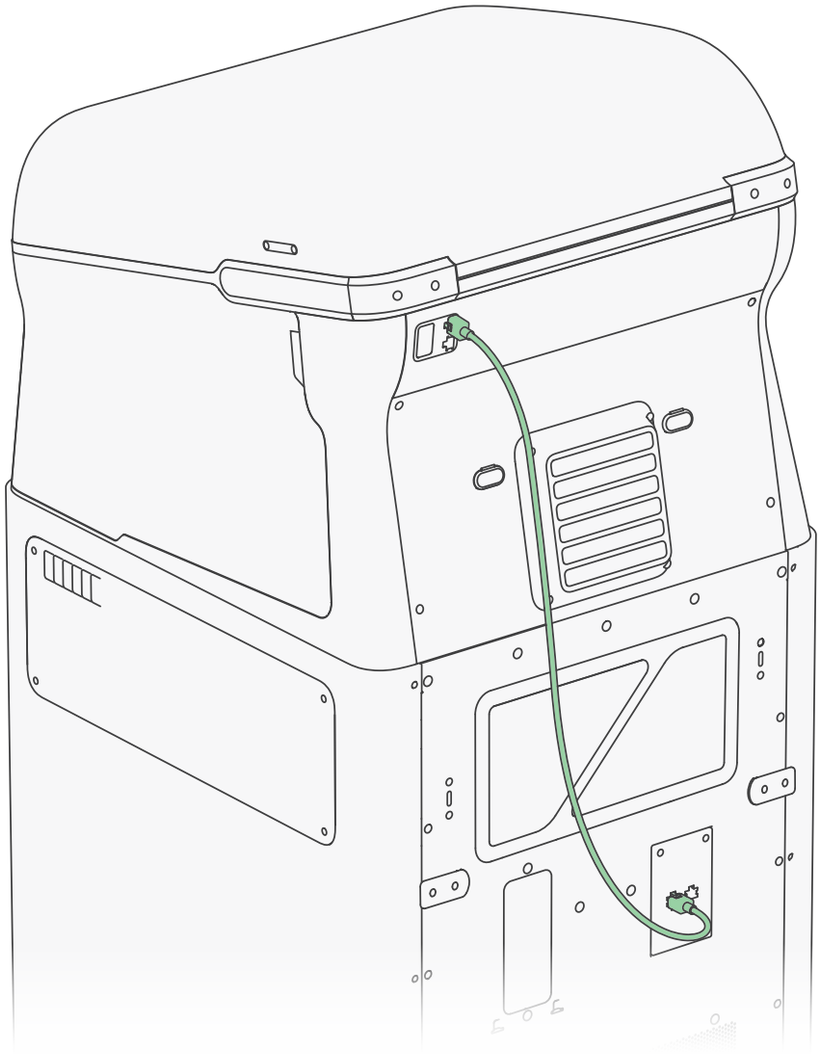
8) Fully open the AMS top lid and make sure the lid struts support it before releasing it. Remove the tape from the dry box cover and all foam from the slots.
   Fully open the top lid again to release the struts, then gently close it. Keep your hands clear to avoid pinching.
   The dry box cover is magnetic for easy removal and installation.
   Press any dislodged support shafts back in until you hear a click.

4.2 Install the AMS 3H



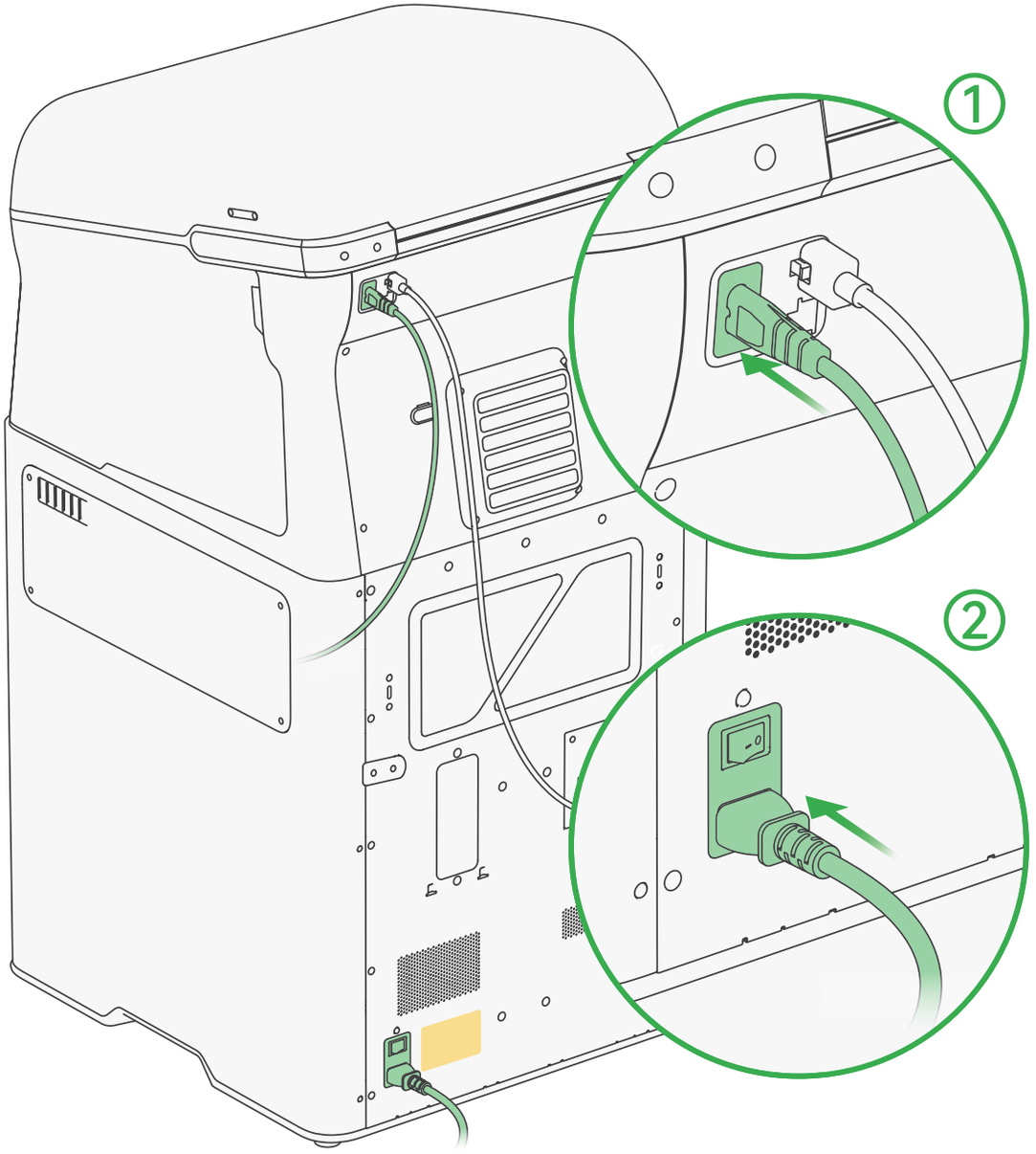
9) Take out the desiccant packs next to the left and right lid struts, remove their outer plastic packaging, and put them back in place.
You can print the built-in tool box model and place it in the area marked in yellow to store tools and desiccant.

4.2 Install the AMS 3H



10) Take out the Bambu Bus cable 6-pin from the Bambu Lab H3C packaging. Connect it to either 6-pin port of the AMS 3H and the printer.

5. Plug in the Power Cord and Power On



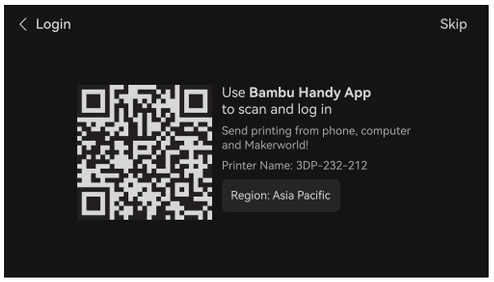
1) Plug one end of the AMS dryer module power cord into the AMS 3H and the other end into a power outlet.
2) Ensure the voltage specified on the label near the printer power socket matches the local voltage. Then connect the power cord and turn on the power switch.

6. Bind the Printer - Bambu Handy

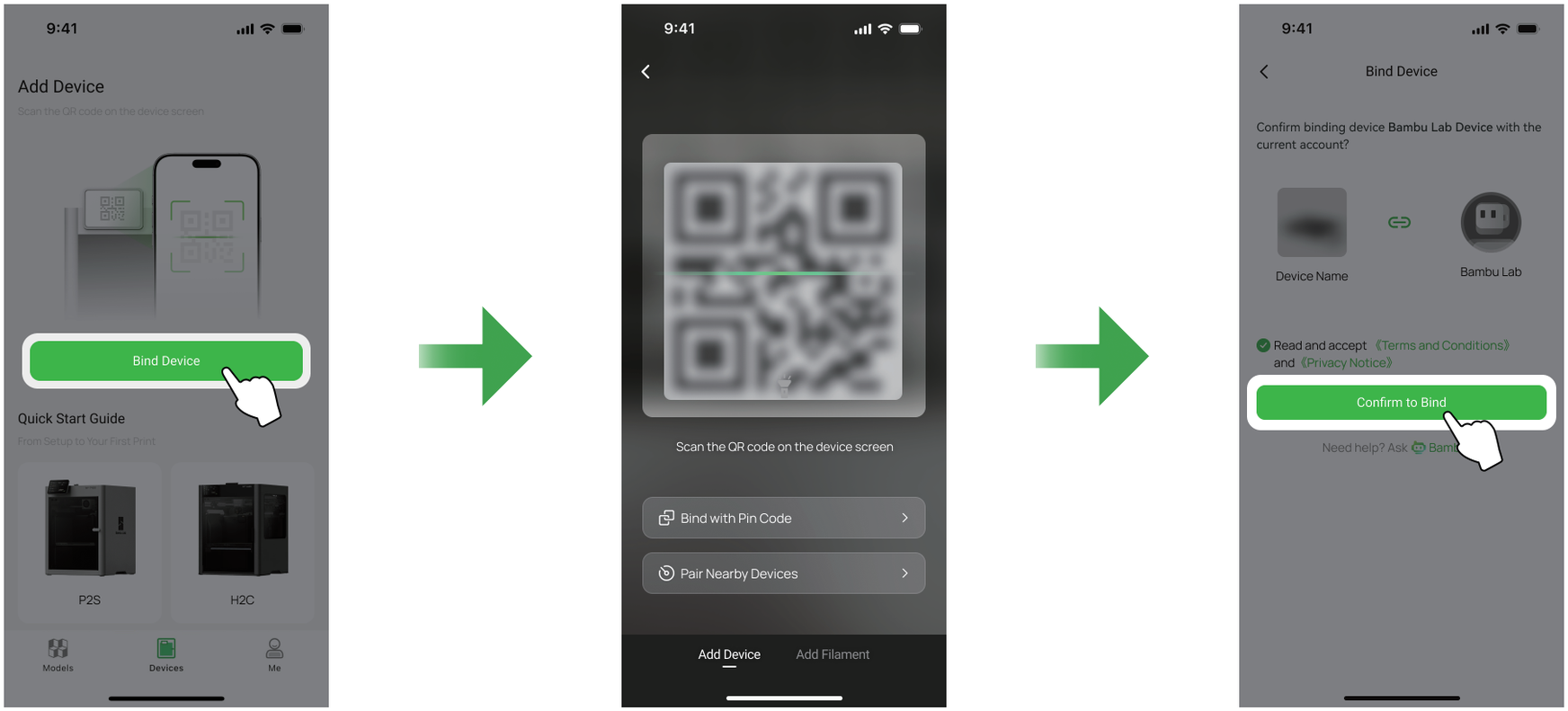
1) Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.



2) Follow the instructions on the screen until a QR code appears.



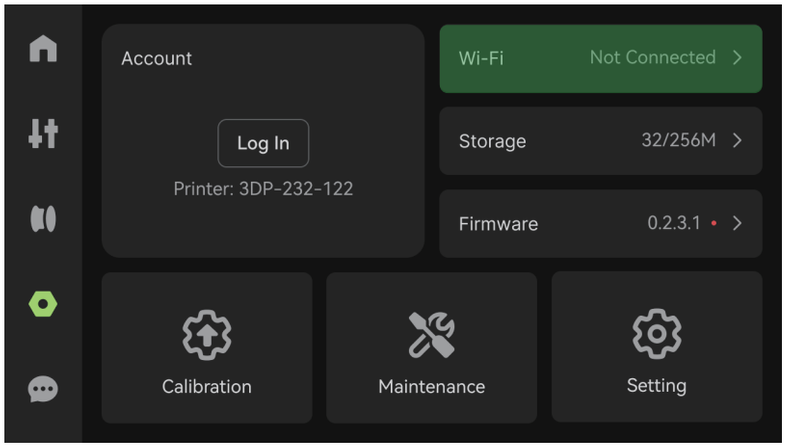
3) Scan the QR code on Bambu Handy to bind the printer to your Bambu Lab account.



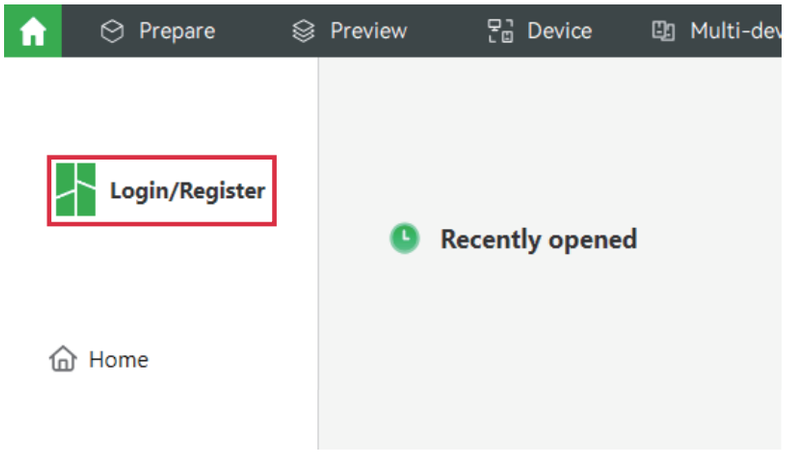
4) Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

5) After the initial calibration is complete, remove the foam from under the heatbed.

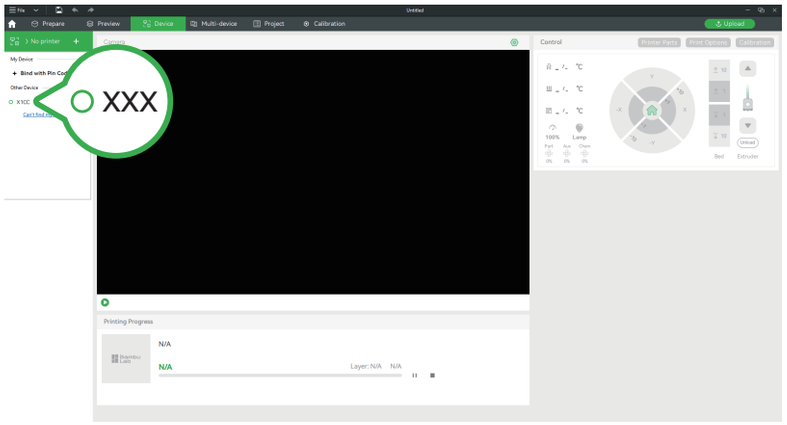
7. Bind the Printer - Bambu Studio



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.

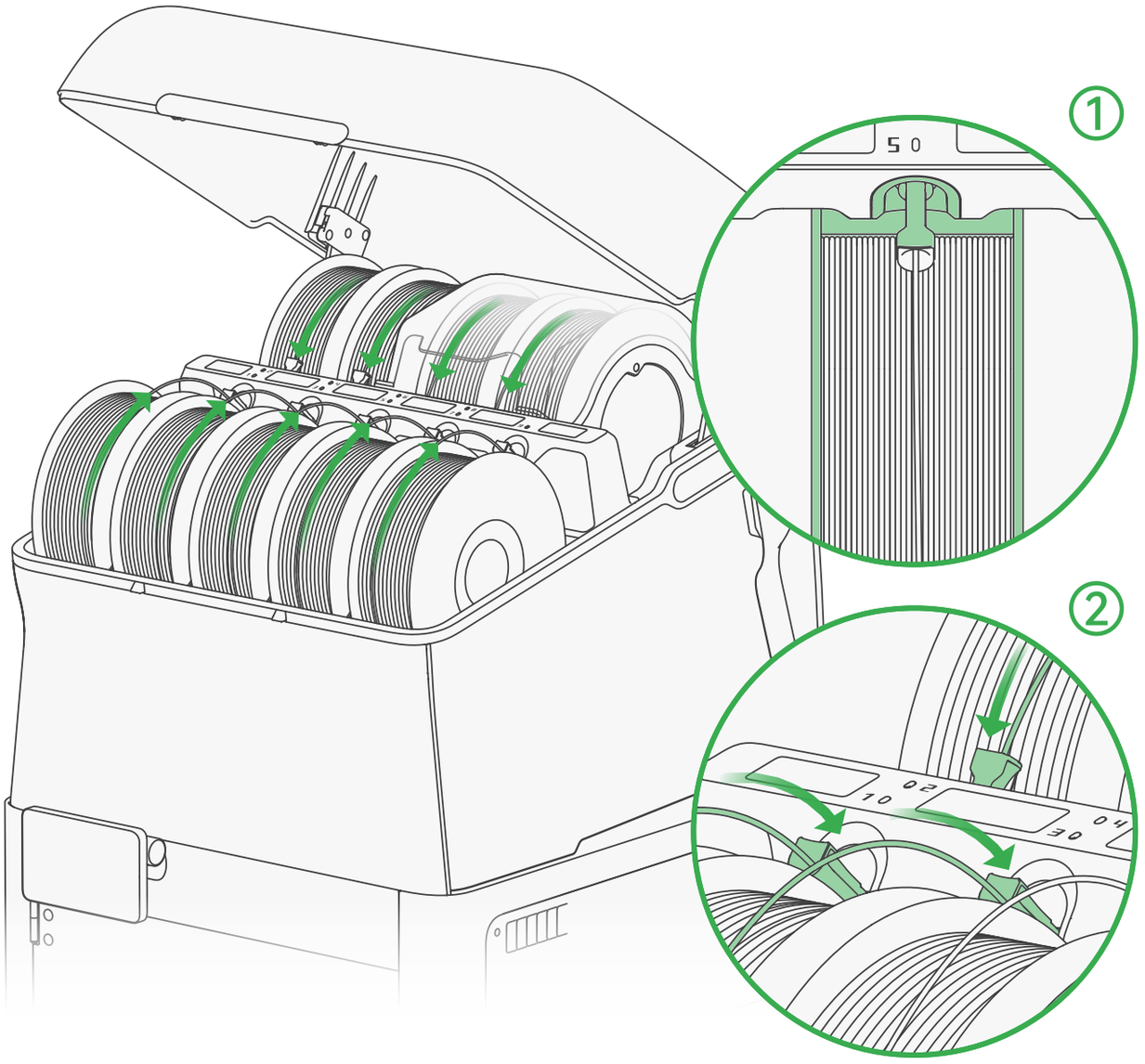


2) Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.
bambulab.com/download/studio



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.

8. Load Filament



1) Power on the printer and place a spool of filament in any slot. Ensure the spool is correctly placed in the spool slot.
2) Insert the filament at least 70 mm into the feeding funnel. The AMS will pre-load it after it is detected. When the corresponding LED light is on, the AMS 3H is ready to print.

9. AMS 3H Regular Maintenance

The AMS 3H is an intelligent system that requires regular maintenance to ensure optimal performance and longevity.

FEP/PTFE tube:

- Filament movement can wear the tubes over time, causing feeding failures or clogs. Check the tubes regularly for damage and replace them as needed to ensure smooth feeding. Cut replacement tubes to the original length. Tubes that are too long or too short may affect printing.
- Regularly check the FEP tubes connected to each PrintTool. If the tubes are deformed or interfering with each other, reorganize the routing to ensure smooth feeding.

Pneumatic connector:

If the FEP/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.

Auto filament loader:

Regularly remove filament debris from the auto filament loader to minimize feeding and retraction resistance.

Dryer module:

Keep the filament dry box clean, including the fan and heat sink, to ensure it can effectively dry filament and prevent buildup that could impair performance.

Filament support shaft:

A misaligned or damaged filament support shaft can increase feeding resistance and affect printing. Follow the provided guides from the Wiki to reinstall or replace it.

Desiccant:

Desiccant packs help maintain a dry environment inside the AMS 3H and prevent filament from absorbing moisture. Periodically check the desiccant and replace it if it has lost its effectiveness.

9. AMS 3H Regular Maintenance

bambulab.com/ams-3h/maintenance

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

10. AMS 3H Specifications

Body	
Package Dimensions	550*615*500 mm
Product Dimensions	480*562*460 mm
Net Weight	9 kg
Spool Capacity	9
Housing	PC/ABS
Printing	
Filaments Supported by the Feeding Funnel	PLA, PETG, PCTG, TPU for AMS, EVA, PE, PP, PHA, PVA, BVOH, support filament, ABS, ASA, HIPS, PC, PA, PET, PPS; Carbon/glass fiber reinforced: PLA, PETG, PA, PET, PC, ABS, ASA, PPS
Filaments Supported by the Bypass Feed	TPU
Filaments Supported by the external spool	PLA, PETG, PCTG, TPU, EVA, PE, PP, PHA, PVA, BVOH, support filament, ABS, ASA, HIPS, PC, PA, PET, PPS; Carbon/glass fiber reinforced: PLA, PETG, PA, PET, PC, ABS, ASA, PPA, PPS
Supported Filament Diameter	1.75 mm, 2.85 mm (Bypass feed only)
Supported Spool Dimension	Width: 50 mm - 68 mm Diameter: 197 mm - 202 mm
RFID Identification	Supported
Drying	
Max Drying Temperature	85 °C
Drying Capacity	2
Active Moisture Discharge	Supported
Sealed Storage	Supported

10. AMS 3H Specifications

Temperature and Humidity Detection and Maintenance	Supported. Real-time temperature and humidity can be displayed on the screen, Bambu Studio, and Bambu Handy.
Power	
Voltage	High-voltage version: 200-240 VAC, 50/60 Hz Low-voltage version: 100-120 VAC, 50/60 Hz
Max Power	High-voltage version: 200 W @ 220 V Low-voltage version: 200 W @ 110 V
Steady-State Power	High-voltage version: 70 W @ 220 V Low-voltage version: 70 W @ 110 V

11. Technical Support

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

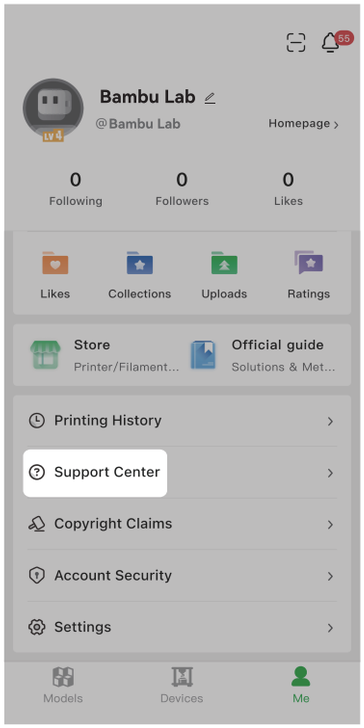
Method 1: Visit the Bambu Lab Wiki for tutorials and maintenance guidance.
wiki.bambulab.com

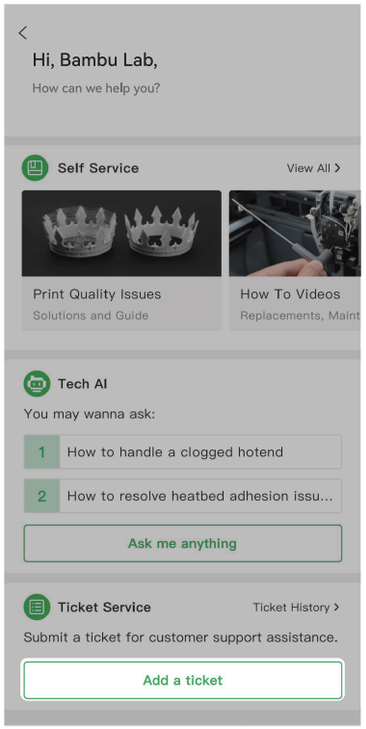
Bambu Lab Wiki

Method 2: Get in touch through one of the options listed in the Contact Us section of our Support Center.
bambulab.com/support

Bambu Lab Support Center

Method 3: Create a support ticket on Bambu Handy, from the Support Center section.







Bambu Lab

www.bambulab.com