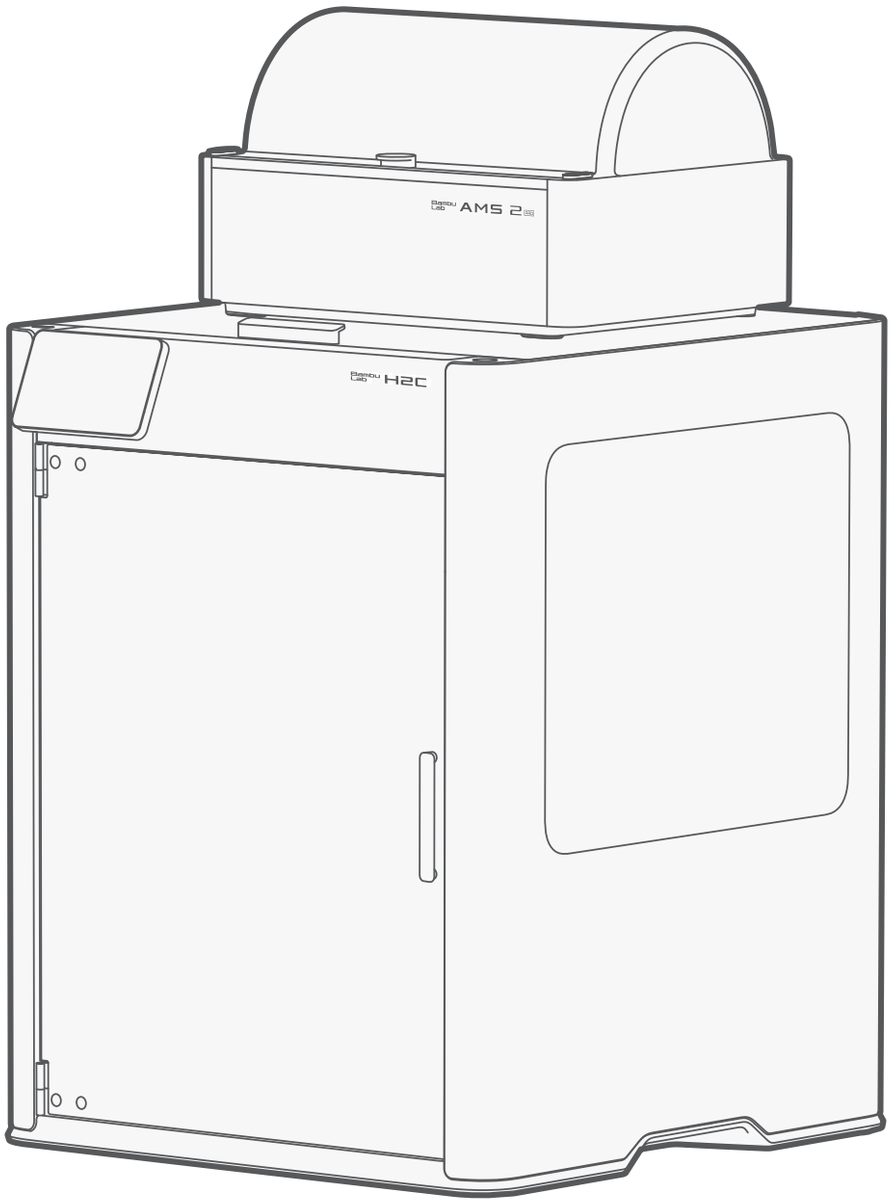
Bambu Lab H2C AMS Combo

Quick Start Guide

Please review the entire guide before using the product.

Safety notice: 1. Do not connect to power until the assembly is complete.

2. Two or more people are needed to carry the printer due to its heavy weight.



PF003-C I SA007

Video Guide

Scan the QR code to watch a step-by-step video and get started quickly.

bambulab.com/h2c-quick-start

Download Bambu Handy and Bambu Studio

Scan the QR code to download Bambu Handy, or visit the link below to download Bambu Studio. You can remotely control your printer and monitor your prints in real time on both your phone or computer.

bambulab.com/download

Explore more cool models

Scan the QR code to visit MakerWorld, our models community, where you can find a variety of free models, and quickly bring your ideas to life using the creativity tools in MakerLab and accessories in Maker's Supply.

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Read before use

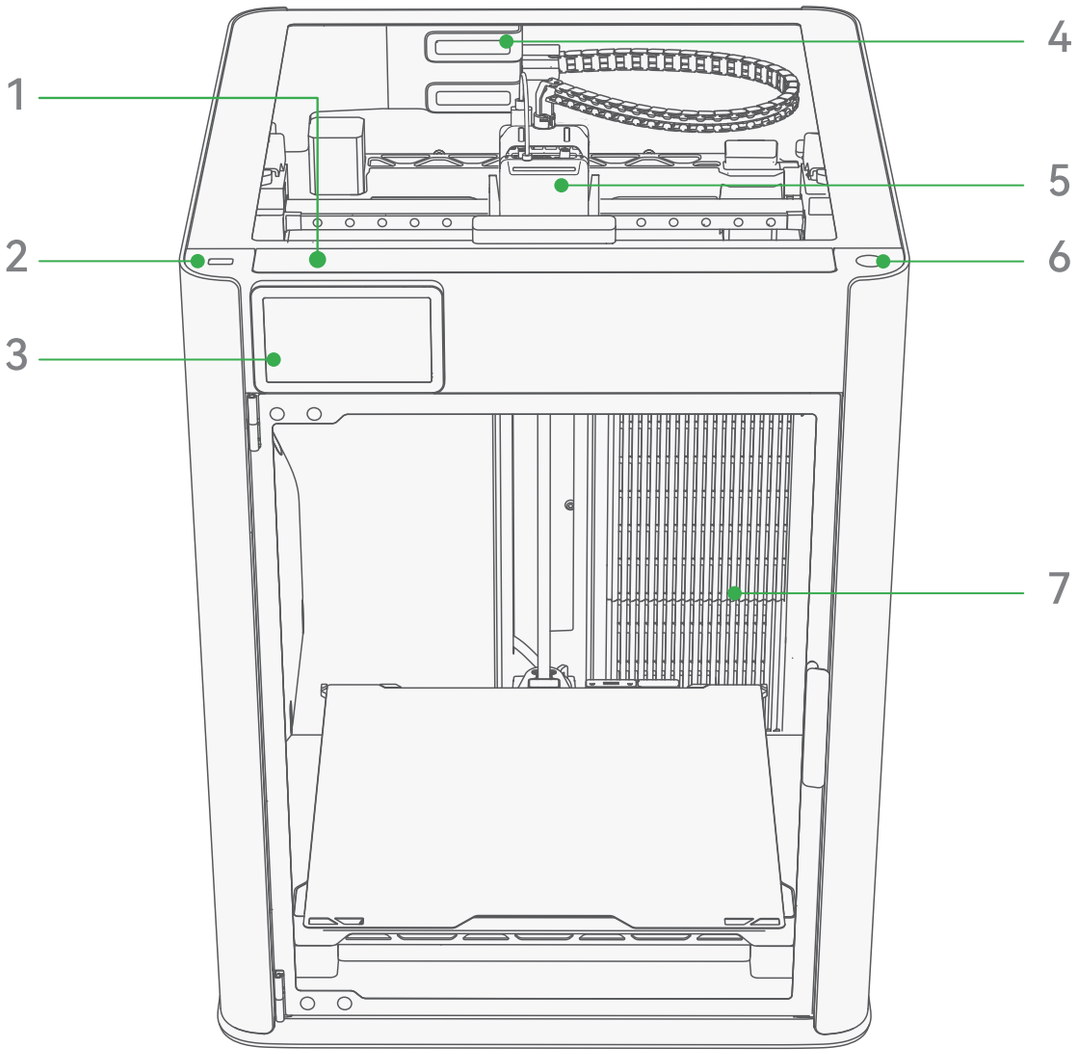
To ensure safety and optimal performance, please follow these guidelines:

- Verify that the printer's operating voltage matches the specified requirements to avoid damage or safety hazards. This can be checked on the label next to the power socket. Refer to the "Printer Specifications" section for details.
- Regular maintenance is essential to keep the printer's complex mechanisms running smoothly. For guidance, see the "Regular Maintenance" section.
- Please complete initial calibration first and then install induction hotends to the induction hotend rack.
- Please use the right hotend to print TPU, and left hotend to print PPS/PPA-CF. For other types of filament, there are no such restrictions. We recommend that you check our Wiki for more information and get a better printing experience.
- The printer automatically switches hotends; please avoid manually switching them to prevent potential damage.
- For best results, we recommend using Bambu filaments, which have been rigorously tested for compatibility, safety, and stability with the product.
- To prevent the filament getting stuck, do not print flexible filaments such as TPU with a hardness level that is or below 95A or damp PVA or BVOH with the feeder unit filament inlet of 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.
- You can use the drying function of the AMS 2 Pro using only a 6-pin cable to connect it to an H2 series printer. 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.

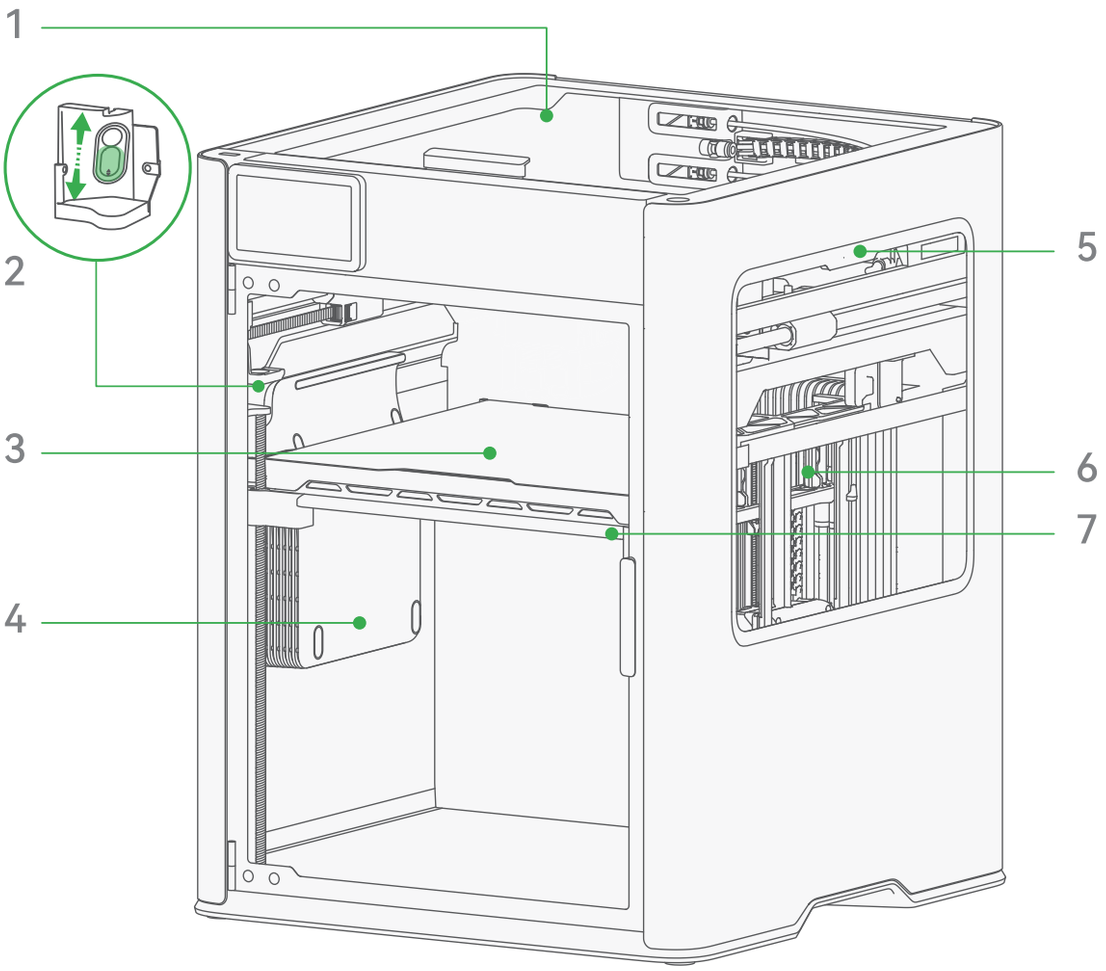
- During the filament drying process, the AMS 2 Pro removes moisture through external air circulation via the air inlets. Please ensure the air intake and vent are not blocked, to ensure optimum drying efficiency.

Printer component introduction



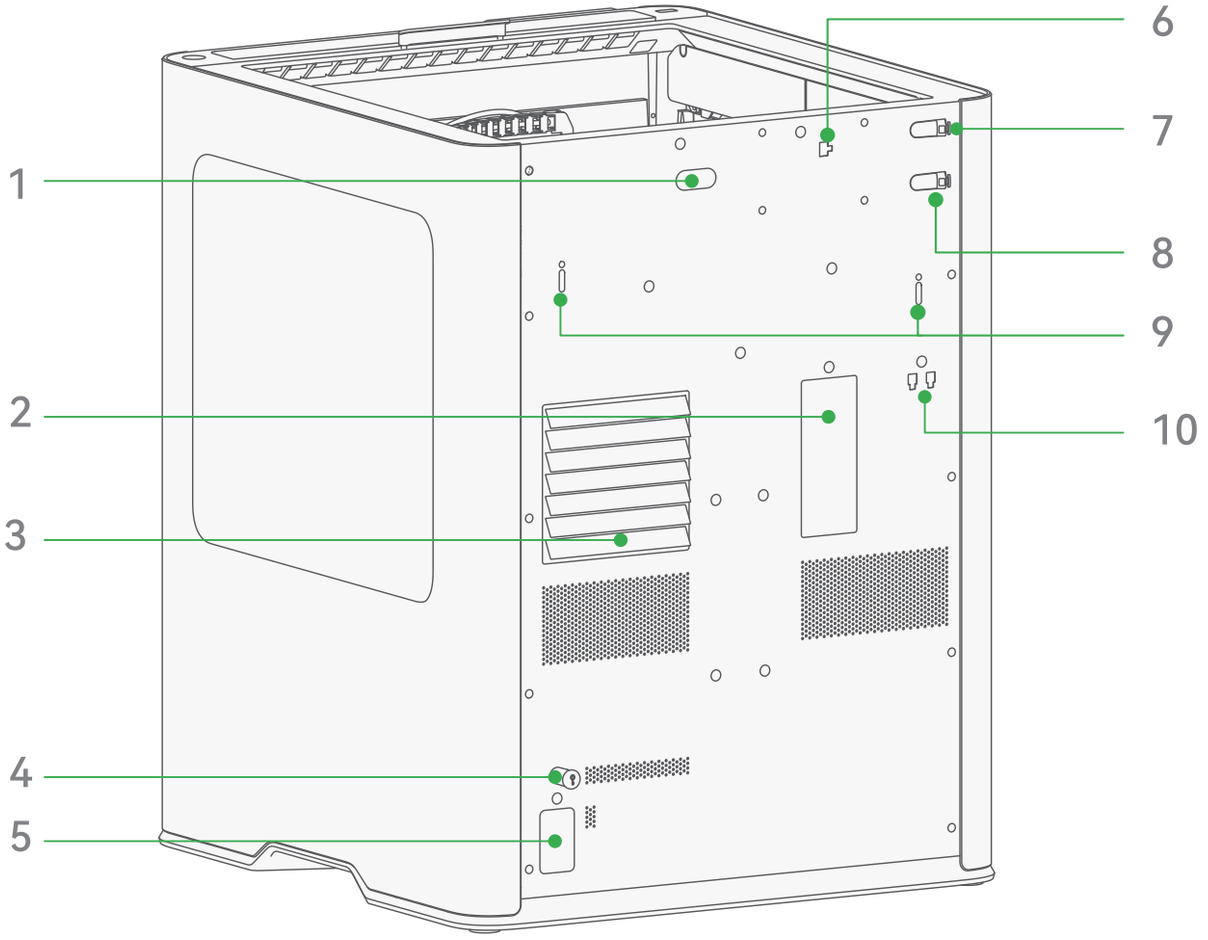
No.	Name	No.	Name	No.	Name
1	Automatic Top Vent	2	USB Port	3	Touchscreen
4	Filament Buffer/Filament Tangle Detector	5	Toolhead	6	Start/Pause Button
7	Air Filter	/	/	/	/

Printer component introduction



No.	Name	No.	Name	No.	Name
1	Top Glass Cover	2	Live View Camera * The privacy cover is in the accessory box.	3	Heatbed
4	Auxiliary Part Cooling Fan	5	Side Glass	6	Induction Hotend Rack
7	Status Indicator	/	/	/	/

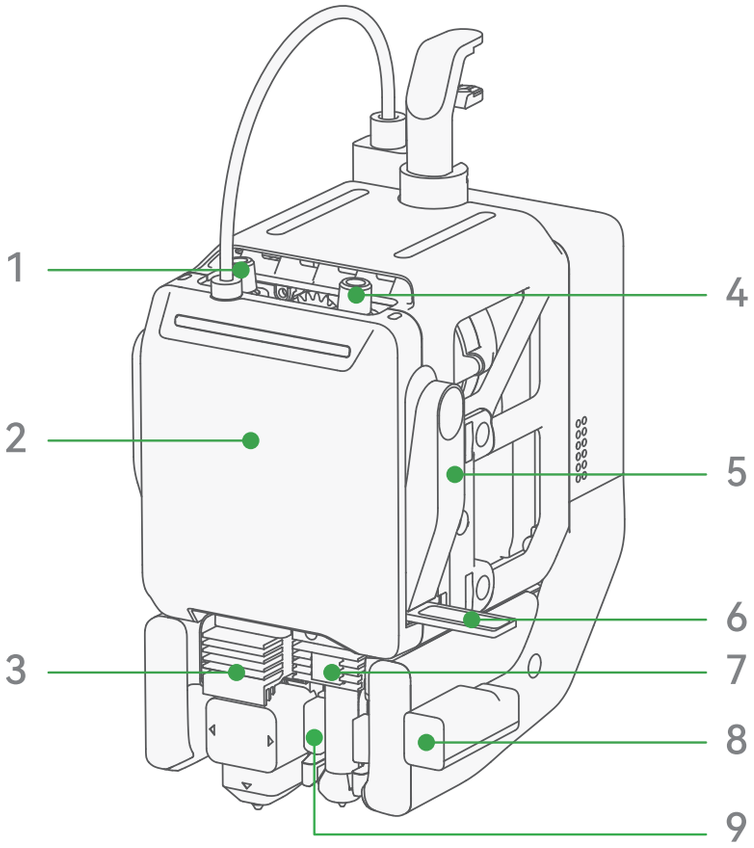
Printer component introduction

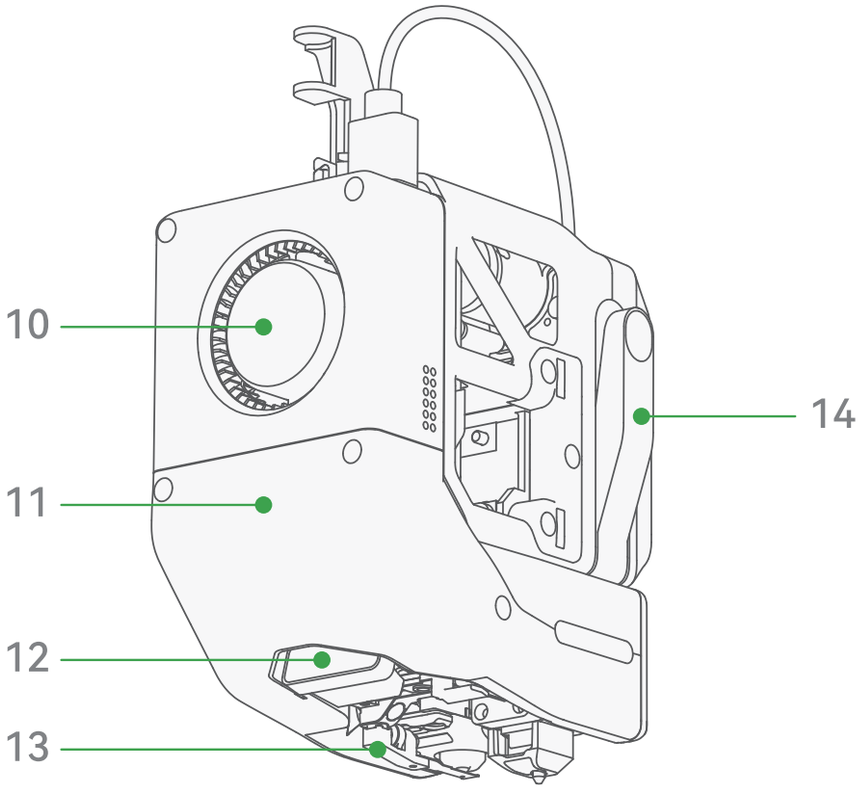


No.	Name	No.	Name	No.	Name
1	TPU Filament Inlet	2	Purge Chute	3	Active Chamber Exhaust & Chamber Exhaust Fan
4	Safety Key	5	Power Socket	6	Bambu Bus Port 6-pin
7	PTFE Tube Coupler (Right Hotend)*	8	PTFE Tube Coupler (Left Hotend)*	9	Belt Tensioners
10	Bambu Bus Port 4-pin	/	/	/	/

* Connect more AMS 2 Pro units to allow the hotends to support multi-color printing.

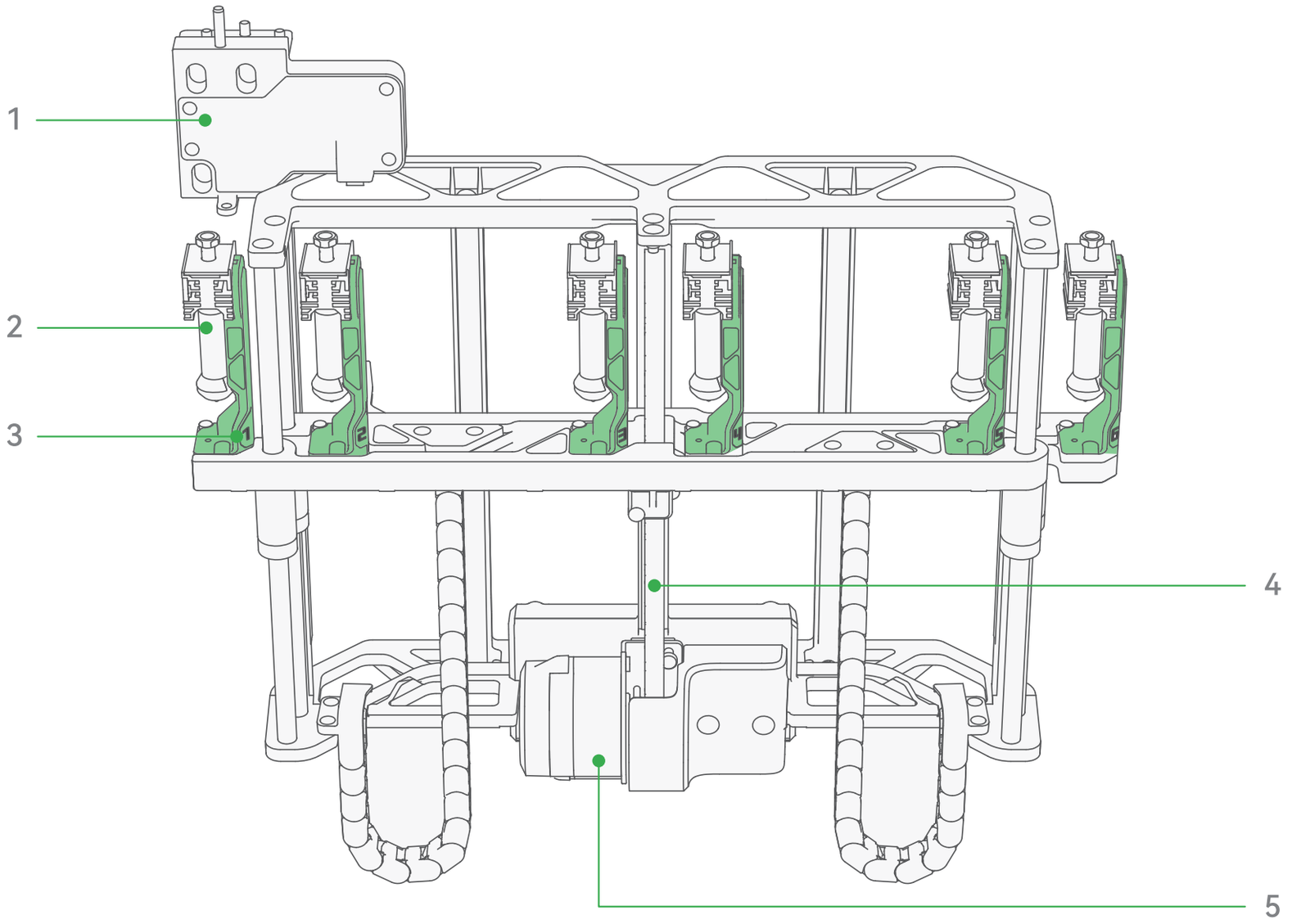
Toolhead component introduction





No.	Name	No.	Name	No.	Name
1	Toolhead Filament Inlet - Left	2	Toolhead Enhanced Cooling Fan	3	Hotend - Left
4	Toolhead Filament Inlet - Right	5	Filament Cutter Lever - Right	6	Induction Hotend Latch
7	Hotend - Right	8	Toolhead Camera	9	Induction Heating Assembly
10	Part Cooling Fan	11	Part Cooling Fan Air Duct	12	Nozzle Camera
13	Flow Blocker	14	Filament Cutter Lever - Left	/	/

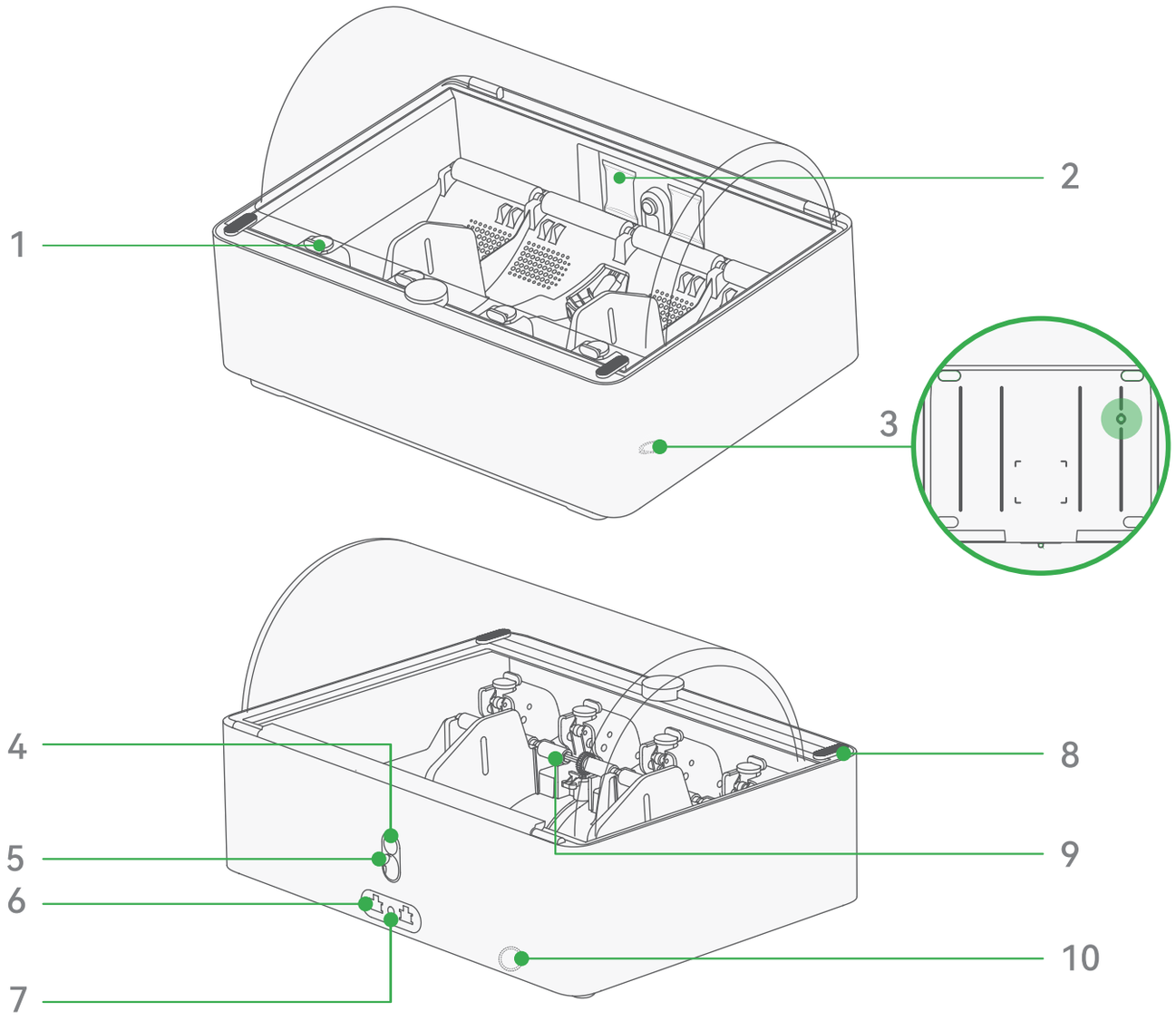
Induction hotend rack component introduction



No.	Name	No.	Name	No.	Name
1	Induction Hotend Latch Actuator	2	Induction Hotend	3	Induction Hotend Dock Assembly*
4	Belt Assembly	5	Motor	/	/

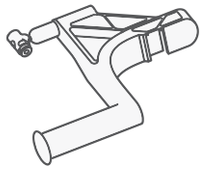
* Stickers are attached below the assemblies to indicate their numbers. As shown above, the numbers are 1 to 6 from left to right.

AMS 2 Pro component introduction

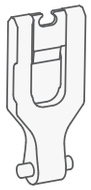


No.	Name	No.	Name	No.	Name
1	Filament Inlet	2	Desiccant	3	Air Intake
4	PTFE Tube Release Button	5	Filament Outlet	6	Bambu Bus Port 6-pin
7	Power Connector	8	Locking Tab	9	Active Support Shaft
10	Air Vent	/	/	/	/

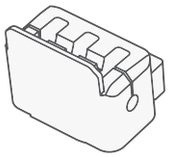
Included accessories



Spool Holder

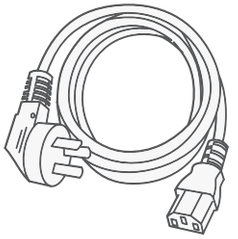


Filament Cutter

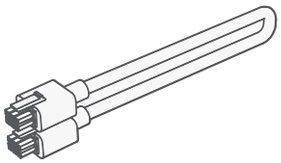


Nozzle
Wiping Pad

Flow Blocker



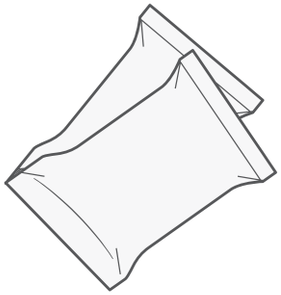
Power Cord



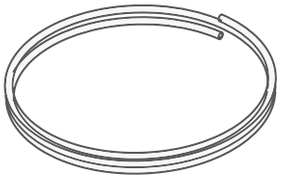
Bambu Bus
Cable 6-pin

Allen Key H1.5
Allen Key H2.0

Unclogging Pin



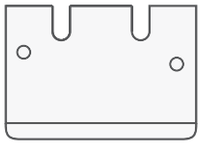
Desiccant



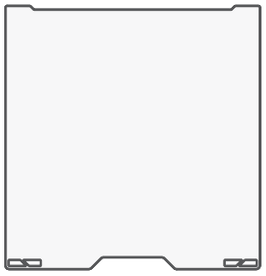
PTFE Tube

Privacy Cover

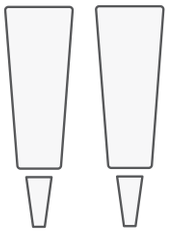
Safety Key



Scraper Blade

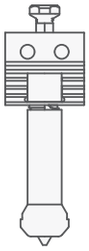


Build Plate
(Pre-installed
on Heatbed)

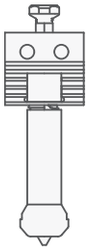


Lubricant Grease
& Lubricant Oil

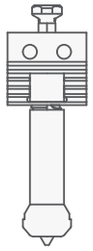
Included accessories



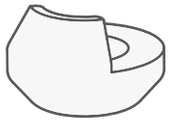
0.2 mm Standard Flow Induction Hotend



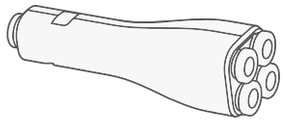
0.4 mm Standard Flow Induction Hotend



0.6 mm Standard Flow Induction Hotend

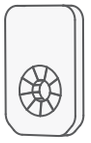


Induction Hotend Silicon Sleeve

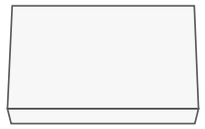


4-In-1 PTFE Adapter

Induction Hotend Latch



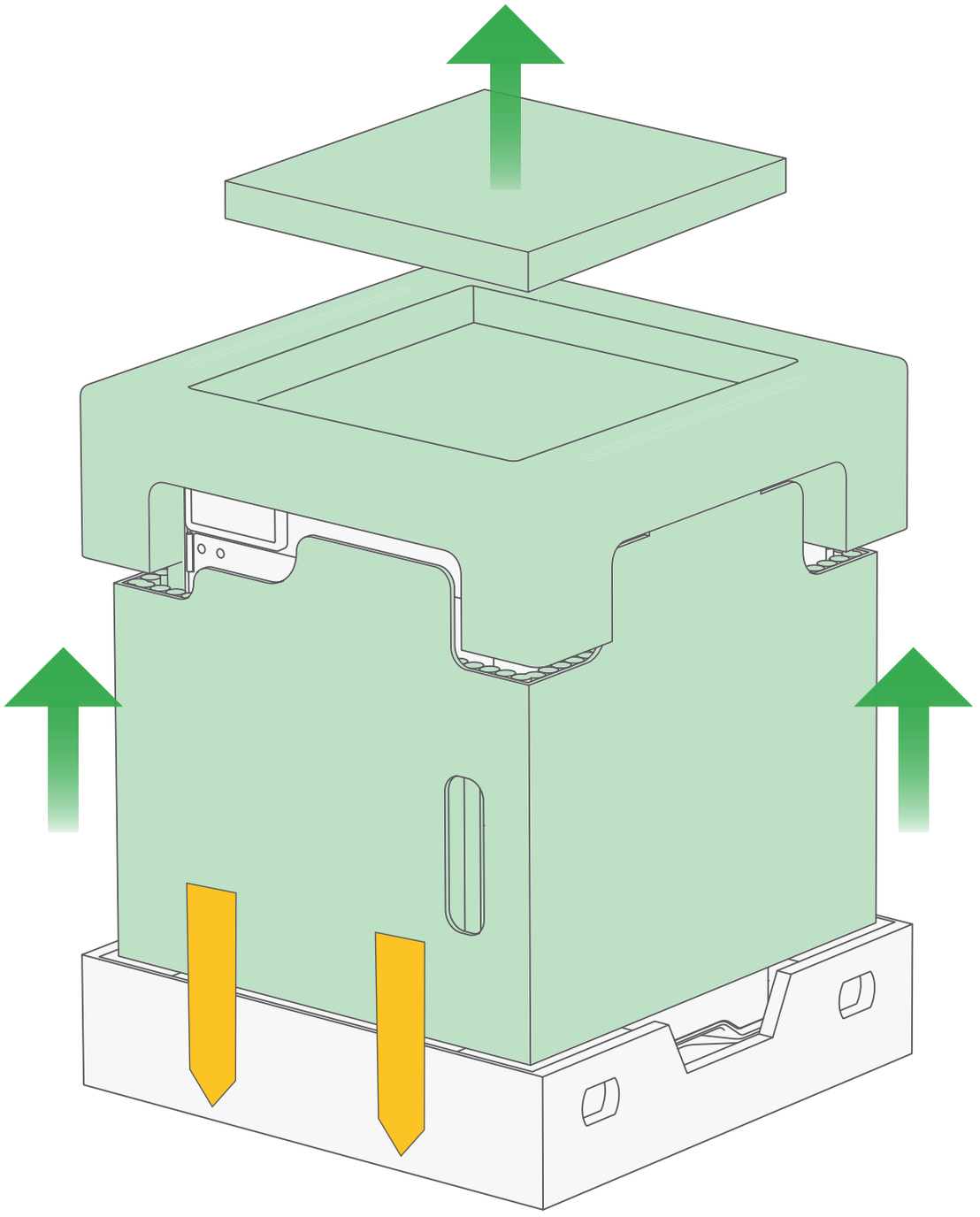
4-in-1 PTFE Adapter Filament Cleaning Pad



Nozzle Cleaning Sponge

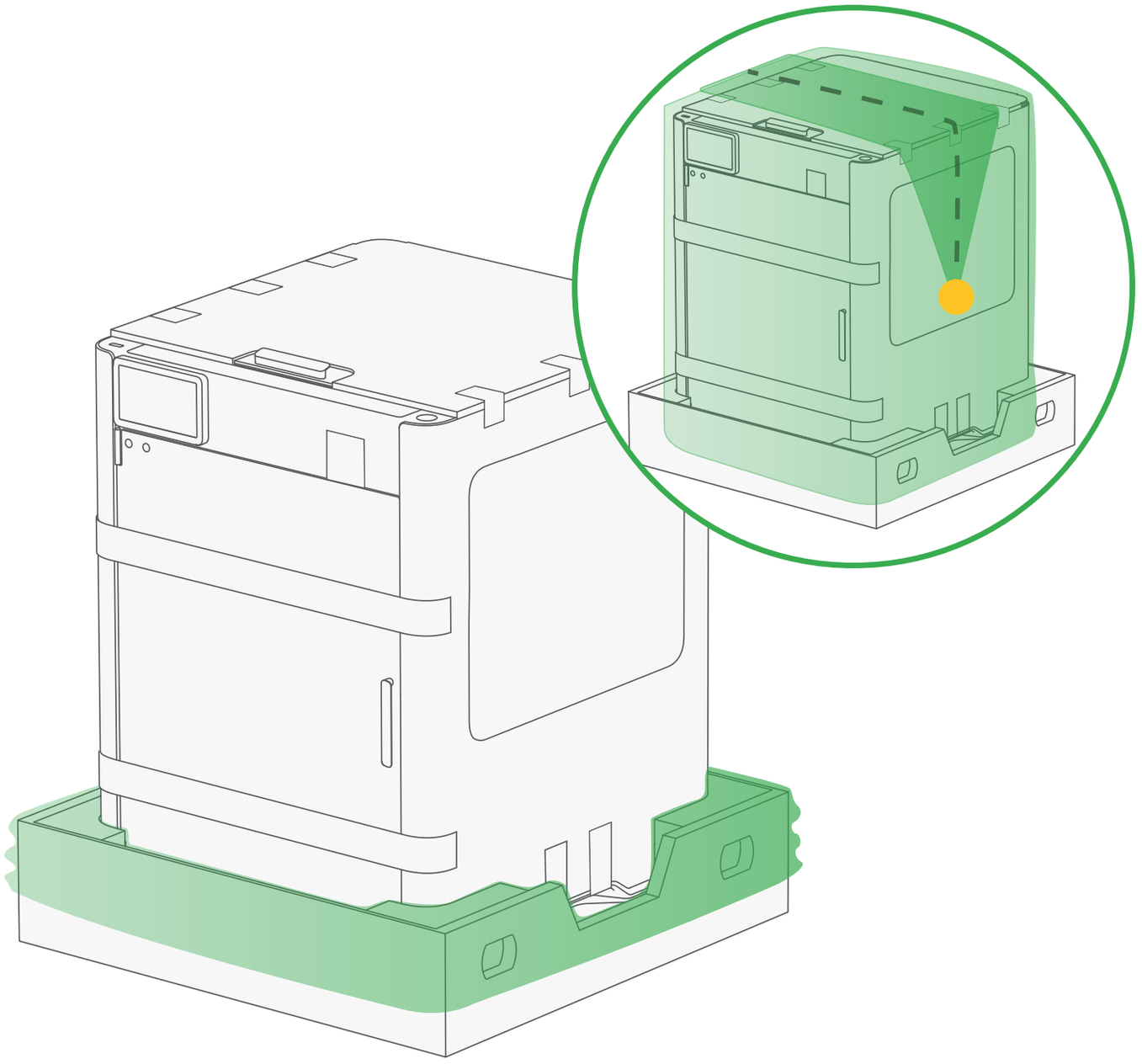
Remove the package

Keep packaging materials and screws for shipping.



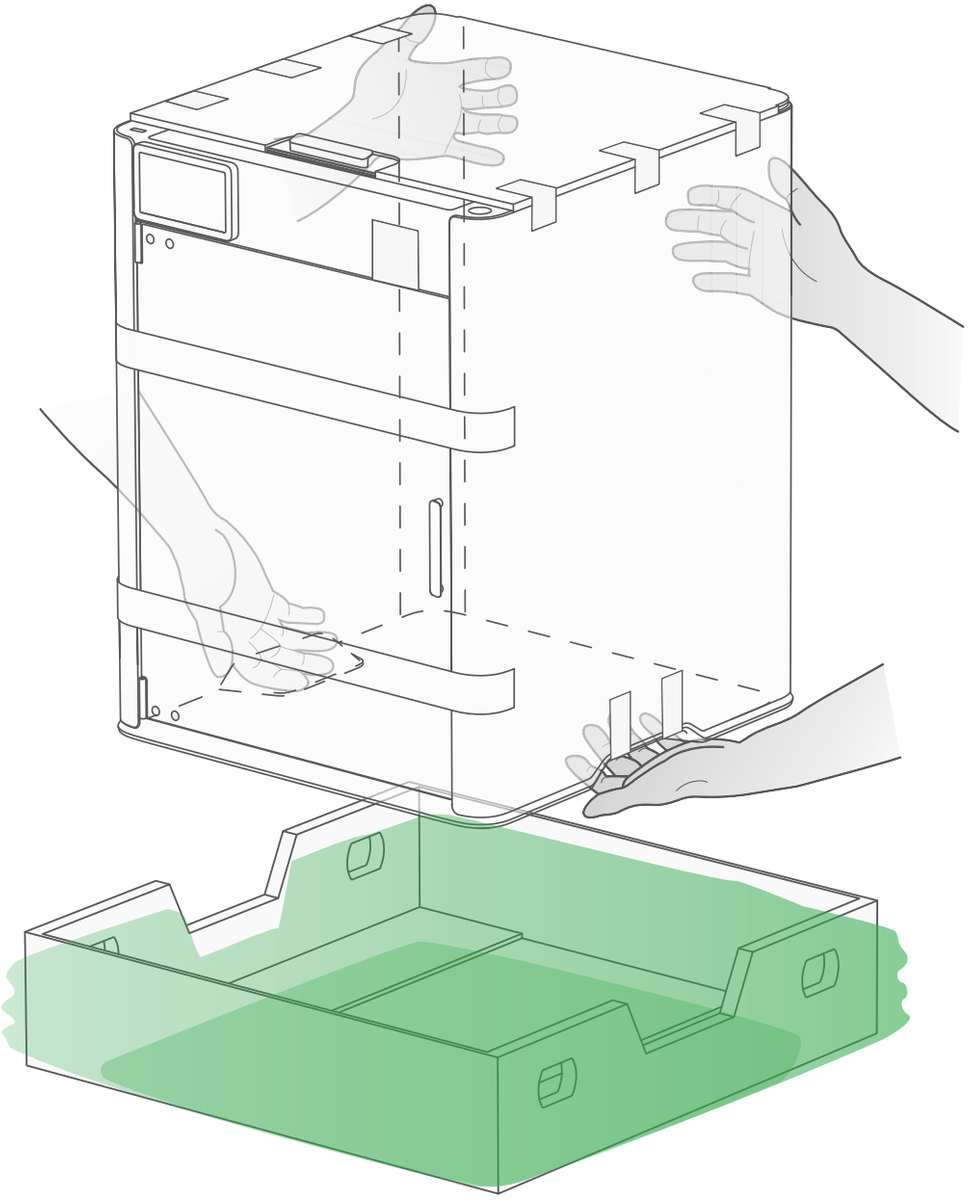
1. Take out the accessory box, and remove the surrounding cardboard, foam and tape.

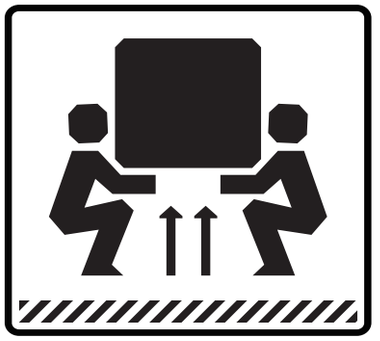
Remove the package



2. Remove the stickers from the sides and top opening of the moisture-proof bag. Then, pull the bag downward and fold it over all four corners of the bottom cardboard.

Remove the package



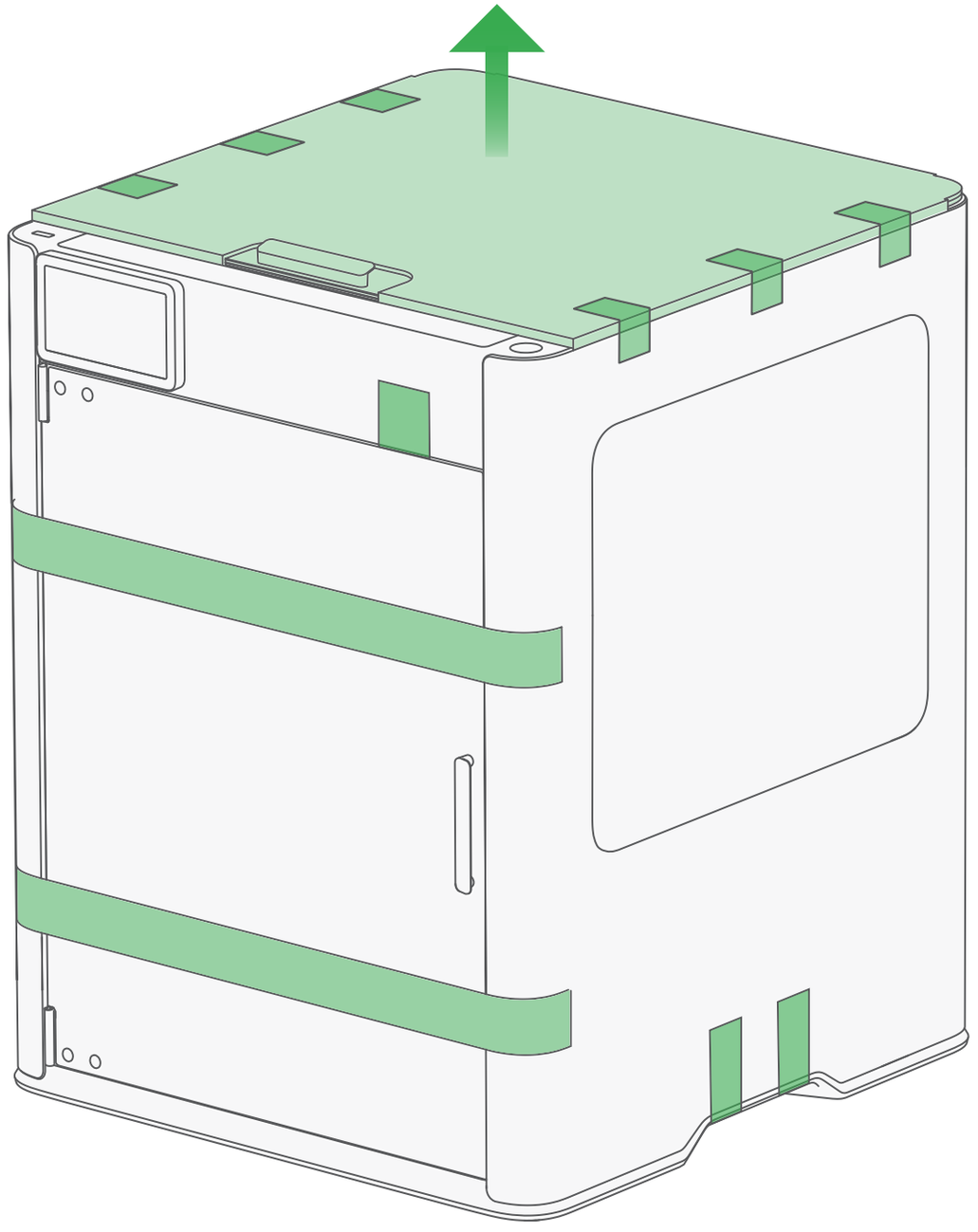


WARNING

To prevent the risk of suffocation, keep these bags away from babies and children

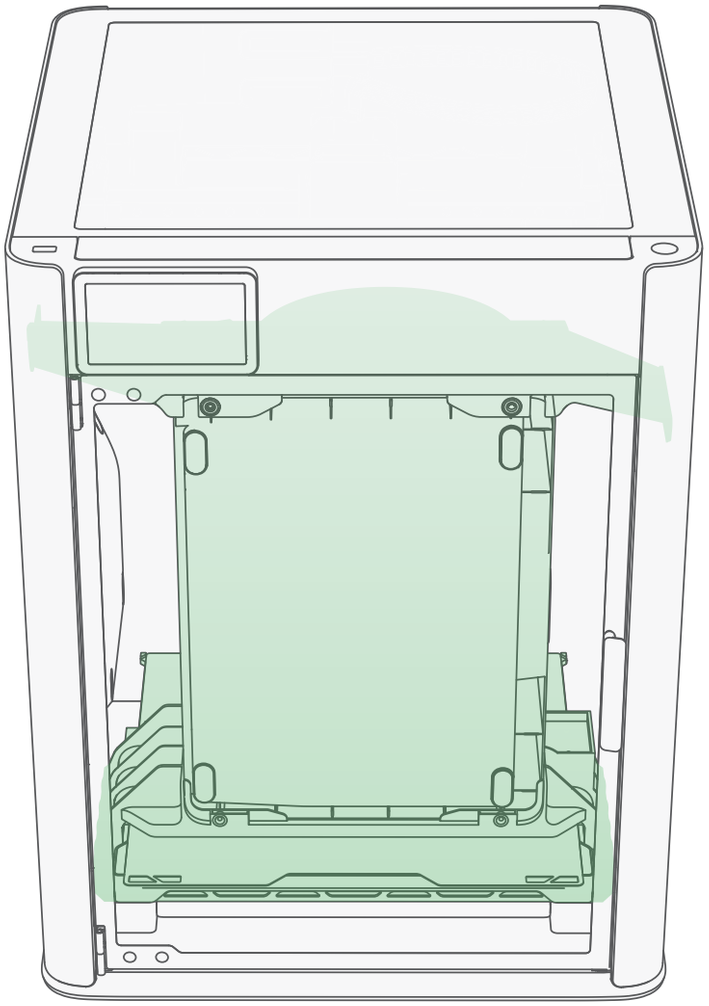
3. Ensure the bottom cardboard stays in place. With two people, carefully lift the printer out of the cardboard and moisture-proof bag, and place it on a stable surface.

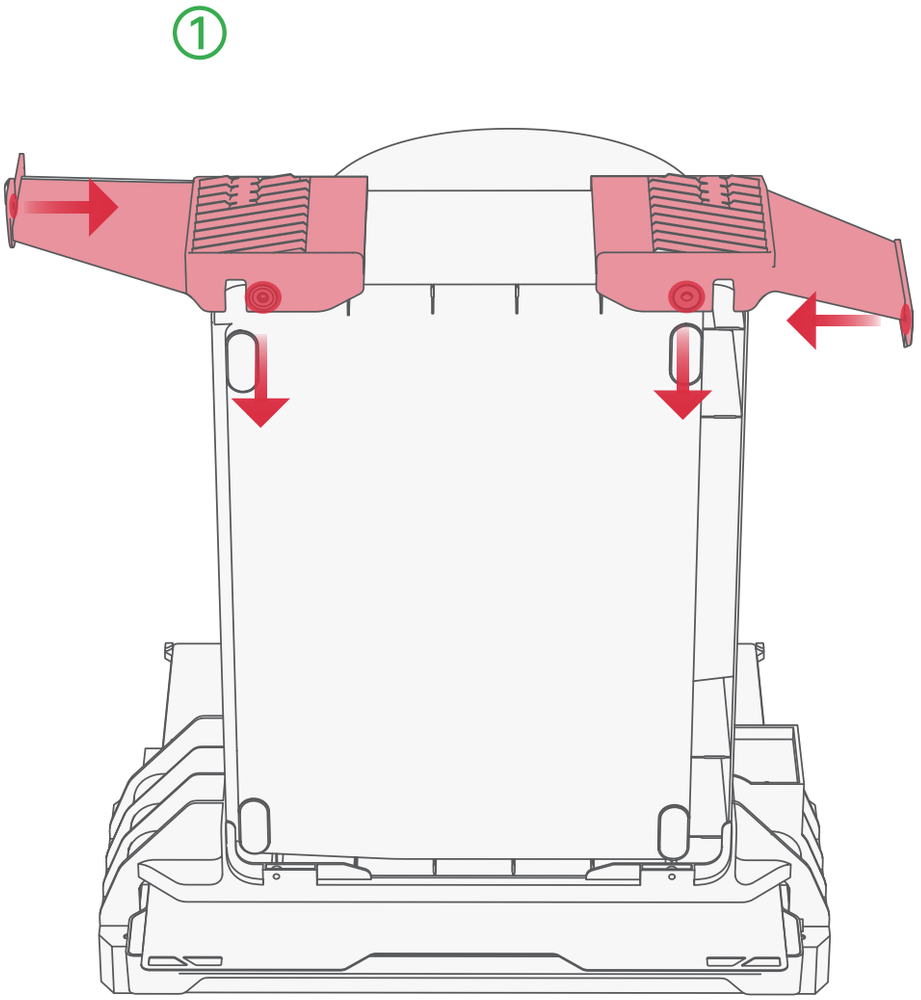
Remove the package



4. Remove the adhesive tapes and other packaging materials. Then take out the top glass coverand set aside.

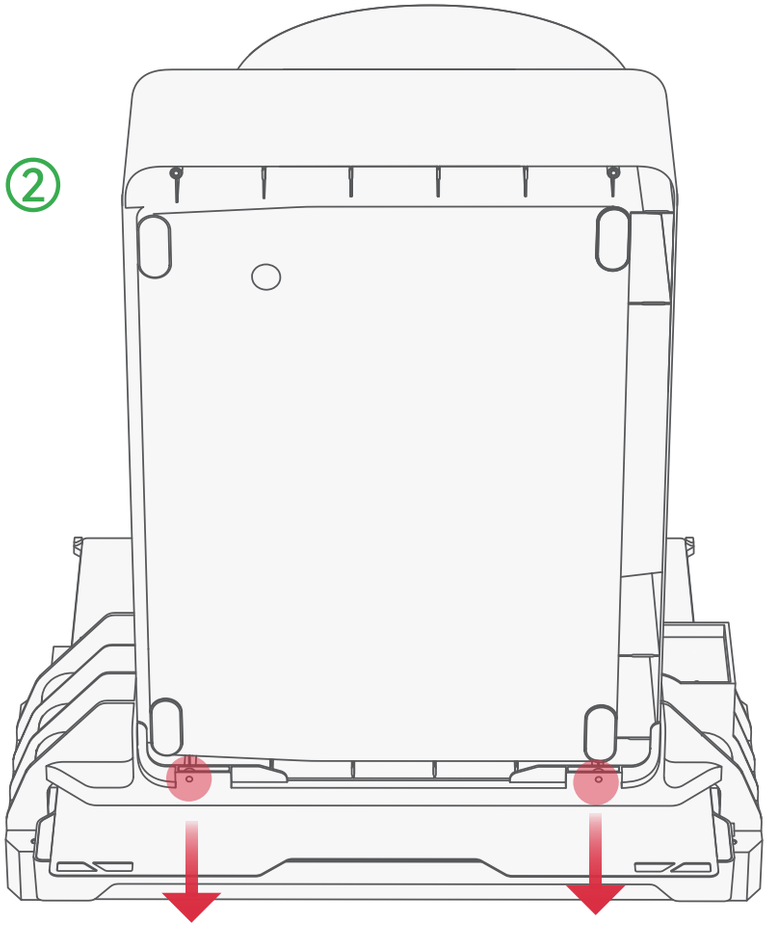
Unlock the AMS 2 Pro



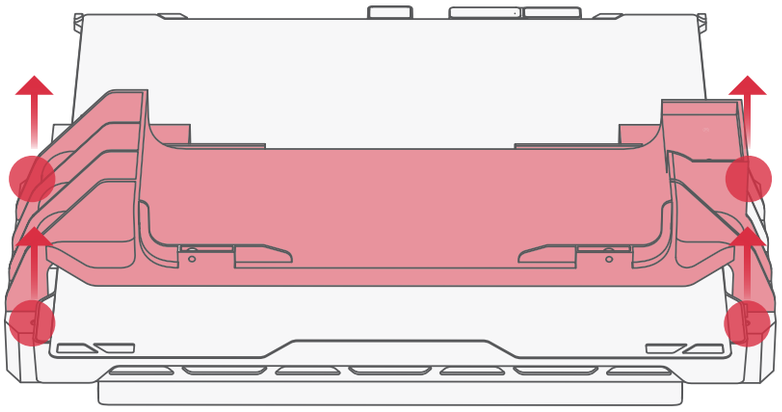


1. Use the longer H2.0 allen key from the accessory box to remove the 4 screws marked in red. Next, detach the two plastic parts from the top.

②

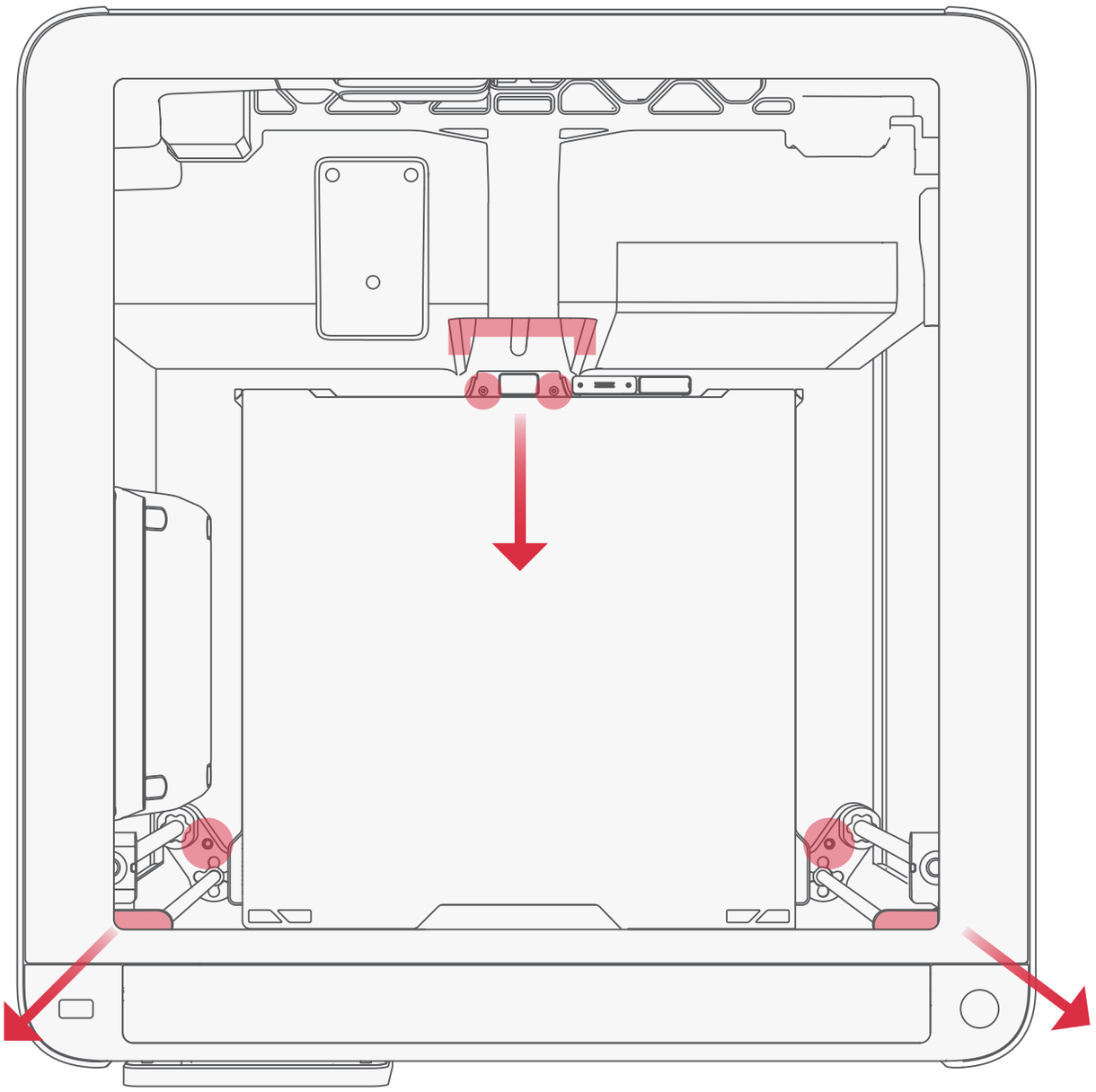


③



2. Use the H2.0 allen key to remove the 2 screws marked in red. Then, carefully take out the AMS 2 Pro.
3. Use the H2.0 allen key to remove the 4 screws marked in red. Then, take out the fixture and the nearby foam (except the foam under the heatbed).

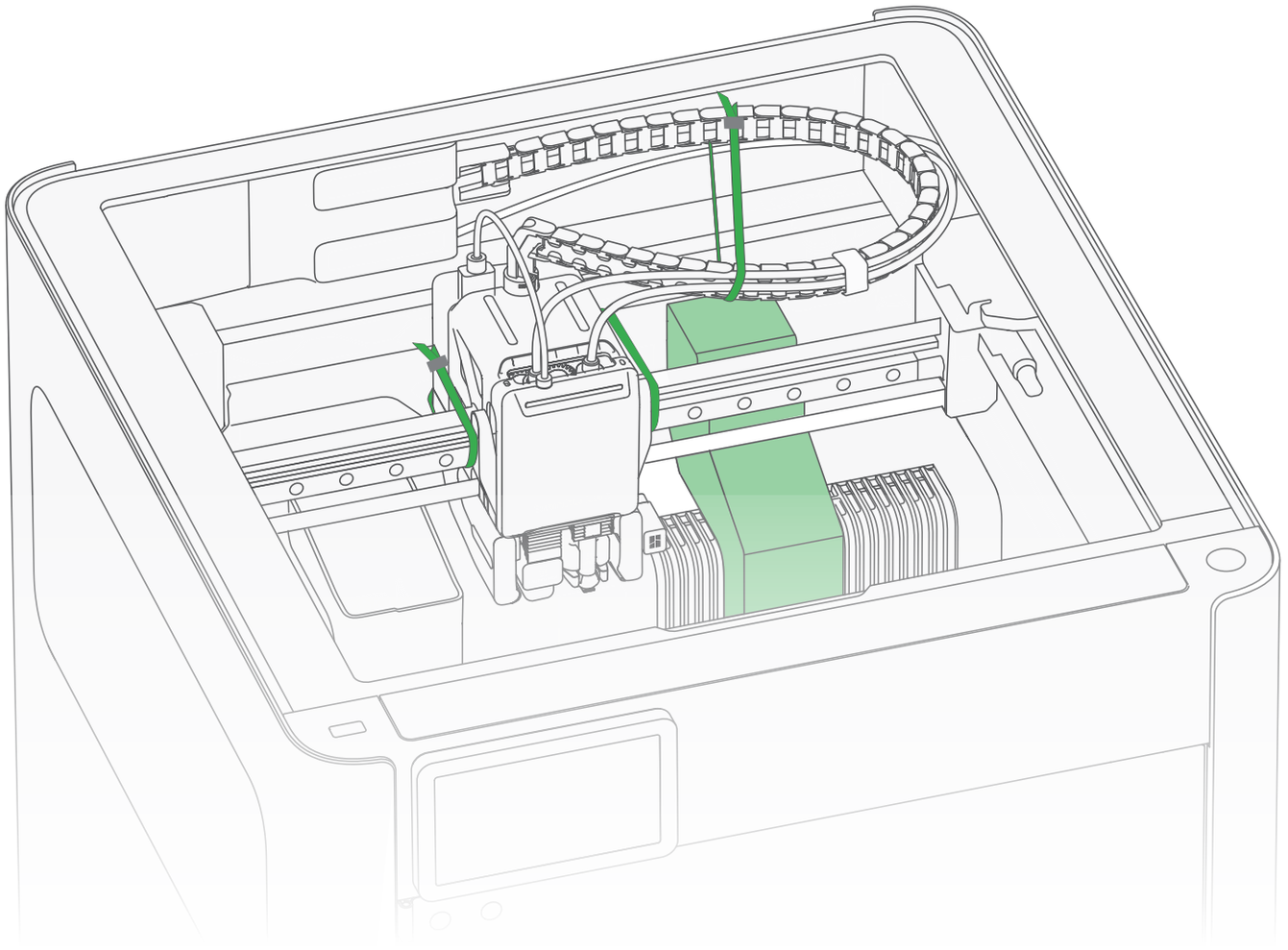
Unlock the heatbed



Use the H2.0 allen key to remove the 4 screws marked in red to unlock the heatbed, and then remove the foams marked in red securing the lead screws.

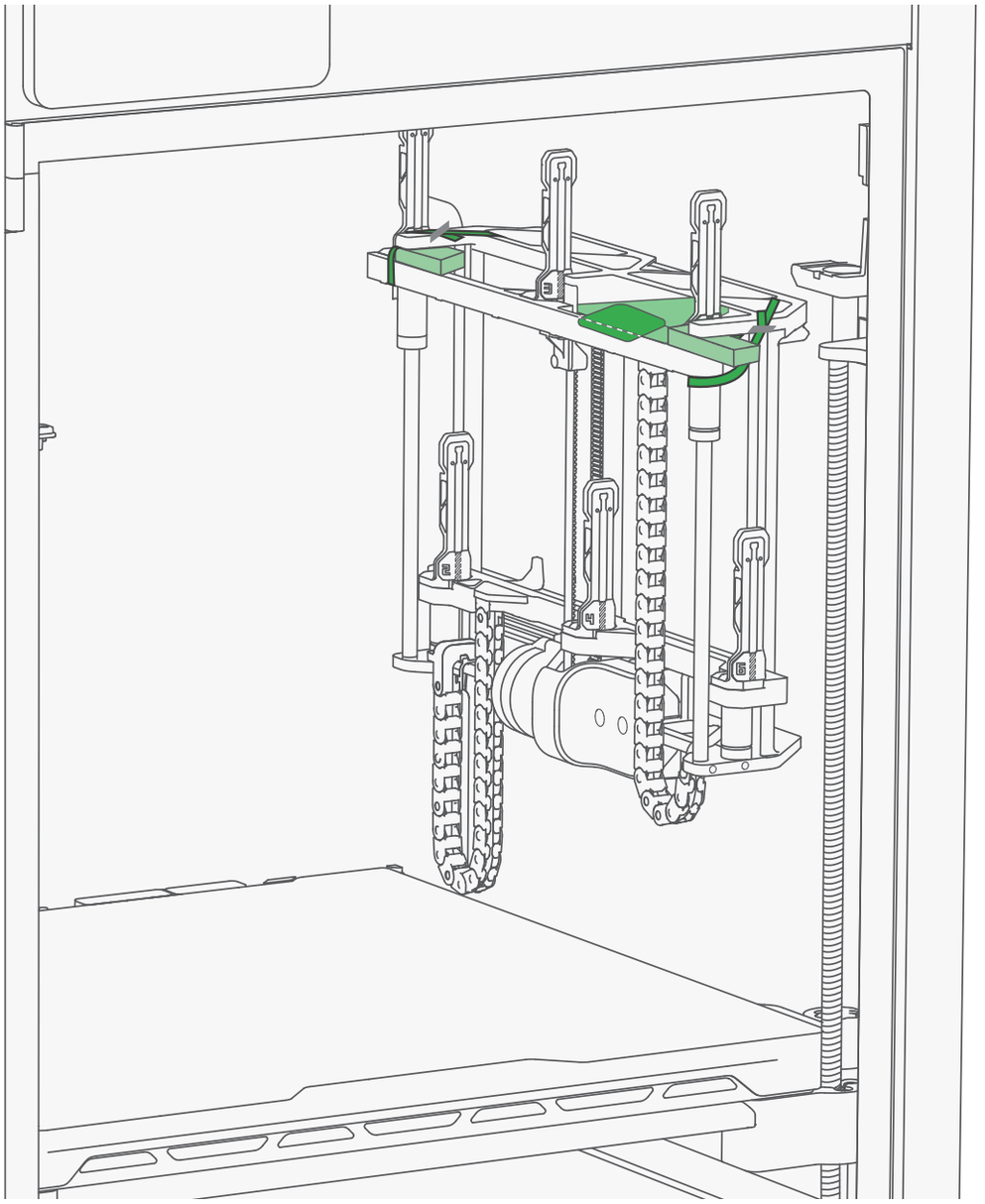
The foam under the heatbed can be removed only after the calibration process is completed.

Unlock the toolhead



Cut and remove all zip ties. Pull the toolhead toward the front of the printer, then remove the foam piece marked in green.

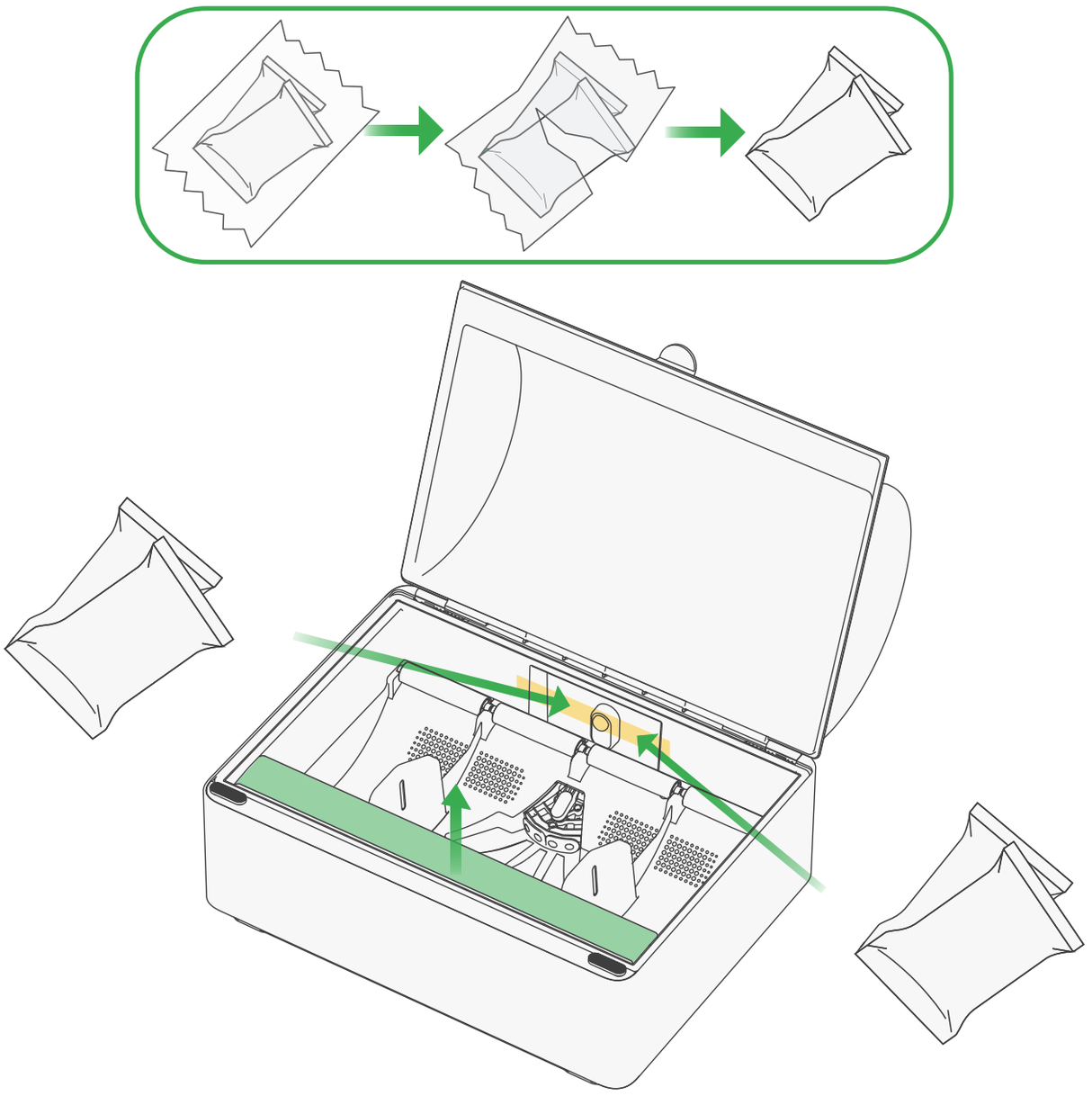
Unlock the induction hotend rack



Cut the zip ties and remove all foam pieces.

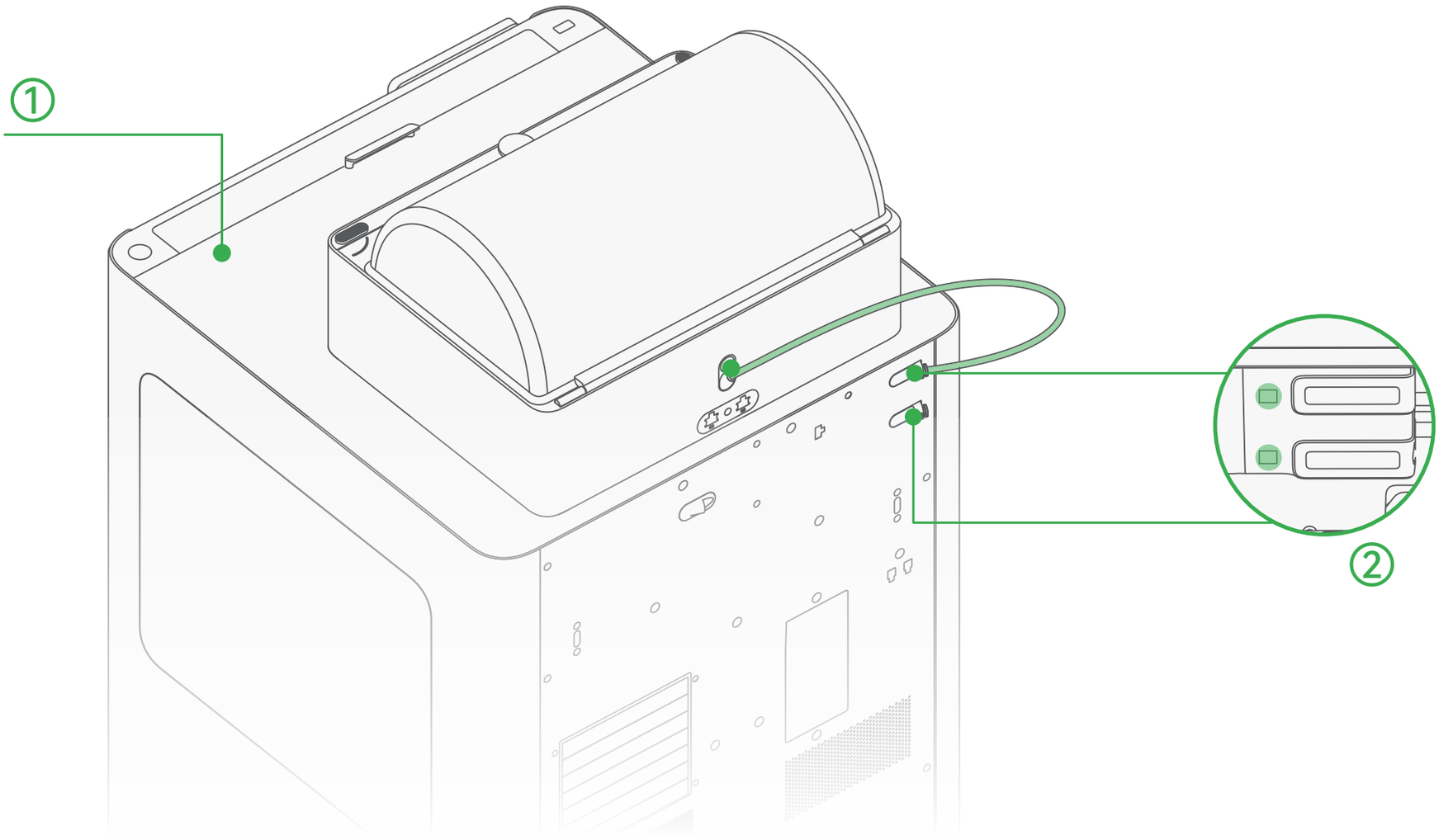
Please do not raise the rack too much to avoid collision with the X-axis belt.

Place the desiccant in the AMS 2 Pro

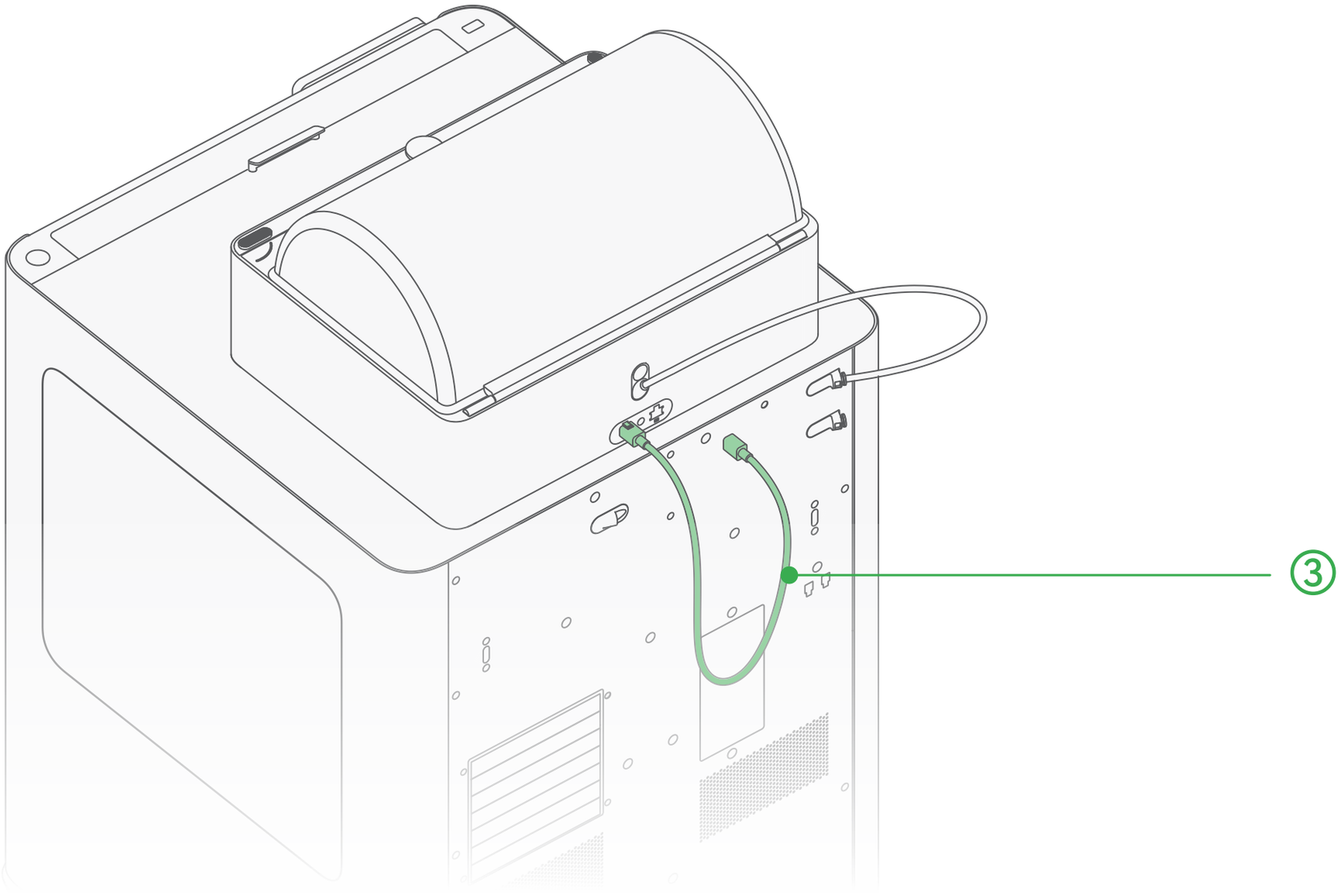


1. Take out the accessories in the AMS 2 Pro.
2. Remove the foam from inside the AMS 2 Pro.
3. Remove the tape from the back of the AMS 2 Pro and take out the desiccant packs. Then, remove the outer plastic packaging. Install 2 desiccant packs on each side of the empty compartment.

Install the AMS 2 Pro

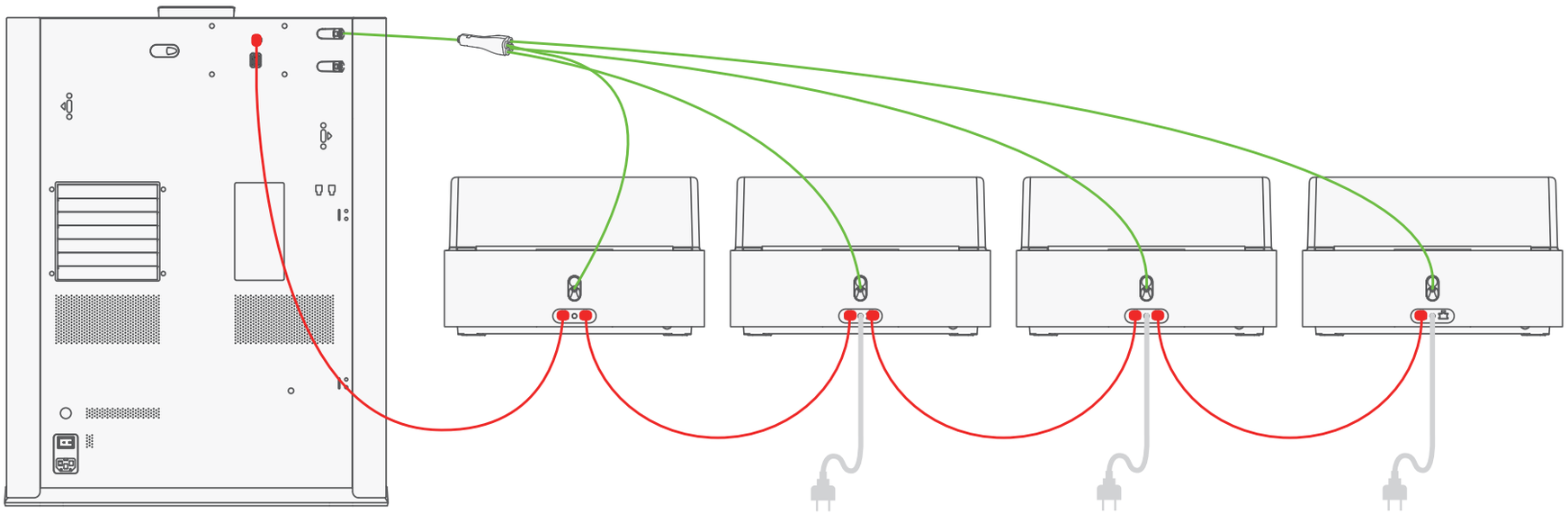


1. Place the top glass cover and AMS 2 Pro on top of the printer.
2. Take out the PTFE tube from the accessory box, insert the PTFE tube into the AMS 2 Pro's filament outlet and any PTFE tube coupler of the printer, and push the tube forward for approximately 10 cm until it stops (if you can see the PTFE tube from the window next to the buffer from the front of the printer, it is correctly inserted).
   * The upper coupler corresponds to the right hotend, and the lower one to the left hotend. Connect one or more AMS 2 Pro units to allow the hotends to print in multiple colors.



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

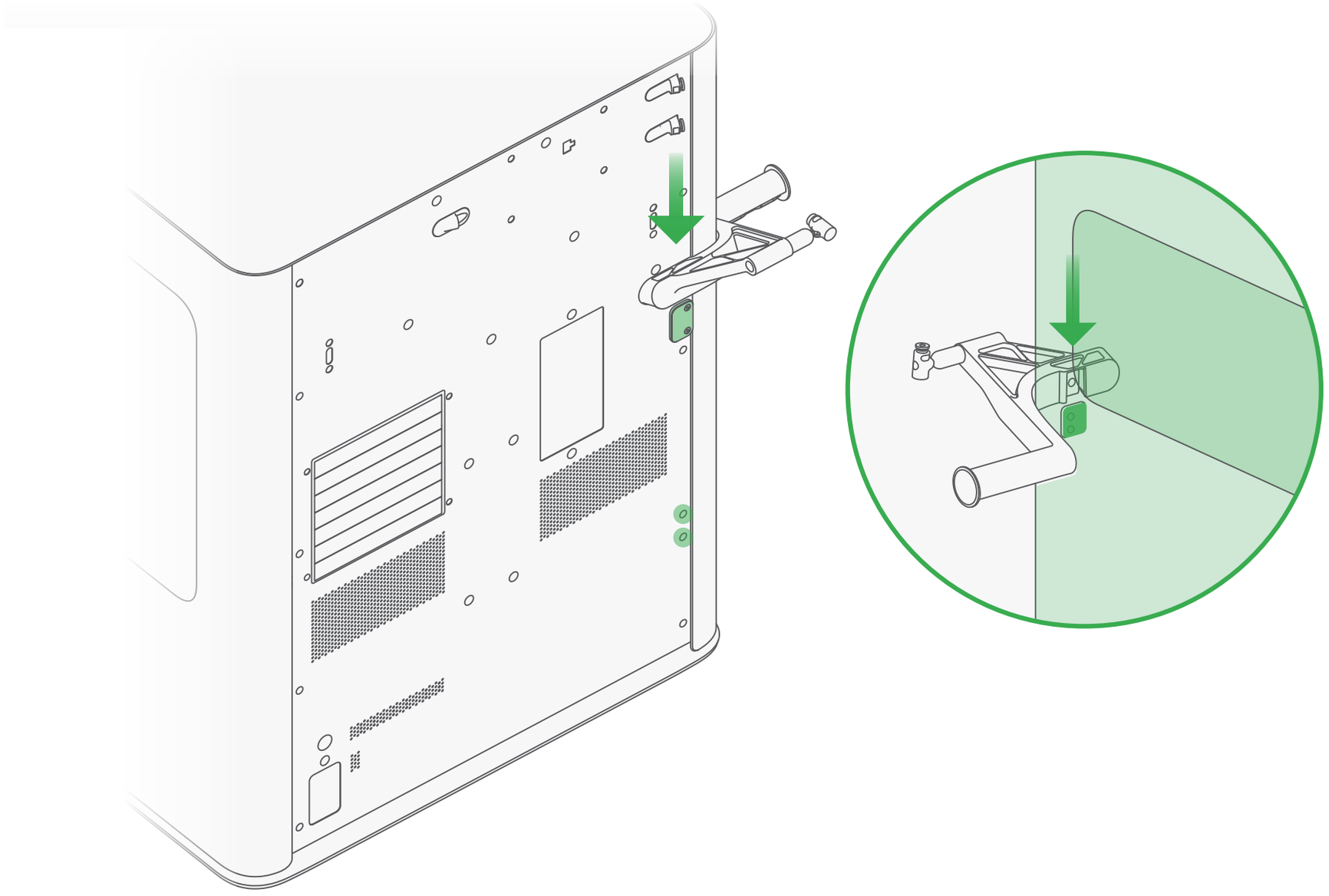
Install multiple AMS 2 Pro units (optional)



If you have more than one AMS 2 Pro, you can connect them to the right hotend to utilize multiple induction hotends to reduce waste when changing filament.

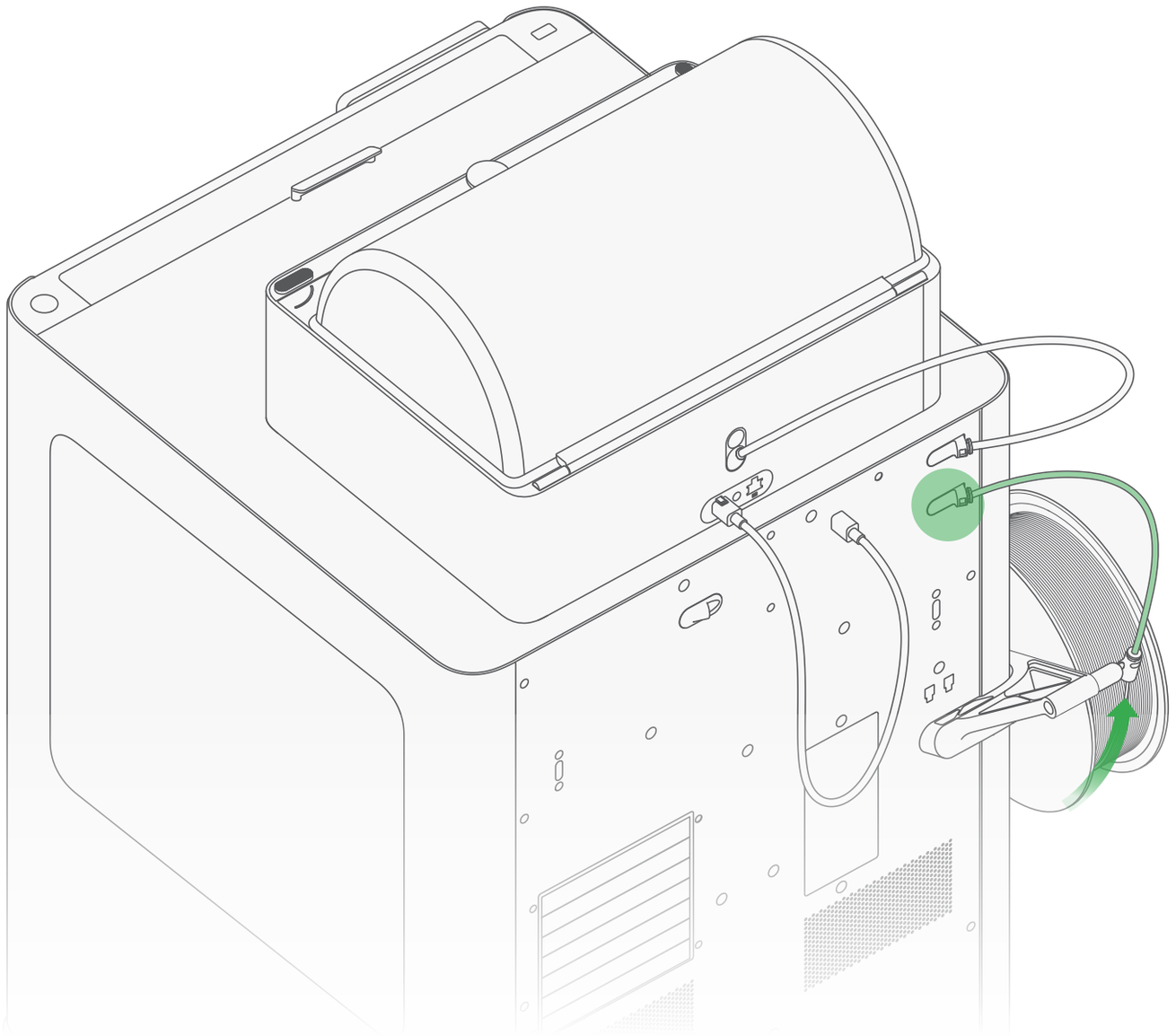
1. Take out a short PTFE tube from the accessory box. Connect it to the 4-in-1 PTFE adapter and the upper PTFE tube coupler of the printer. Ensure to push the PTFE tube until it cannot move forward.
2. Use the longest PTFE tubes to connect the filament outlet of AMS 2 Pro units and the 4-in-1 PTFE adapter.
3. Use a 6-pin cable to connect any AMS 2 Pro and the printer.
4. Use 6-pin cables to connect the remaining AMS 2 Pro units in pairs.
5. If you need to use the drying function of the AMS 2 Pro units, each unit will require an official Bambu Lab power adapter except the one directly connected to the printer.

Install the spool holder



Take out the spool holder from the accessory box, and slide it in place as shown above.
* The screws holes marked in green near the bottom of the printer can also be used to install a spool holder bracket, allowing you to add an additional spool holder and print with two external spools of filament simultaneously. The package includes 1 bracket and spool holder by default.

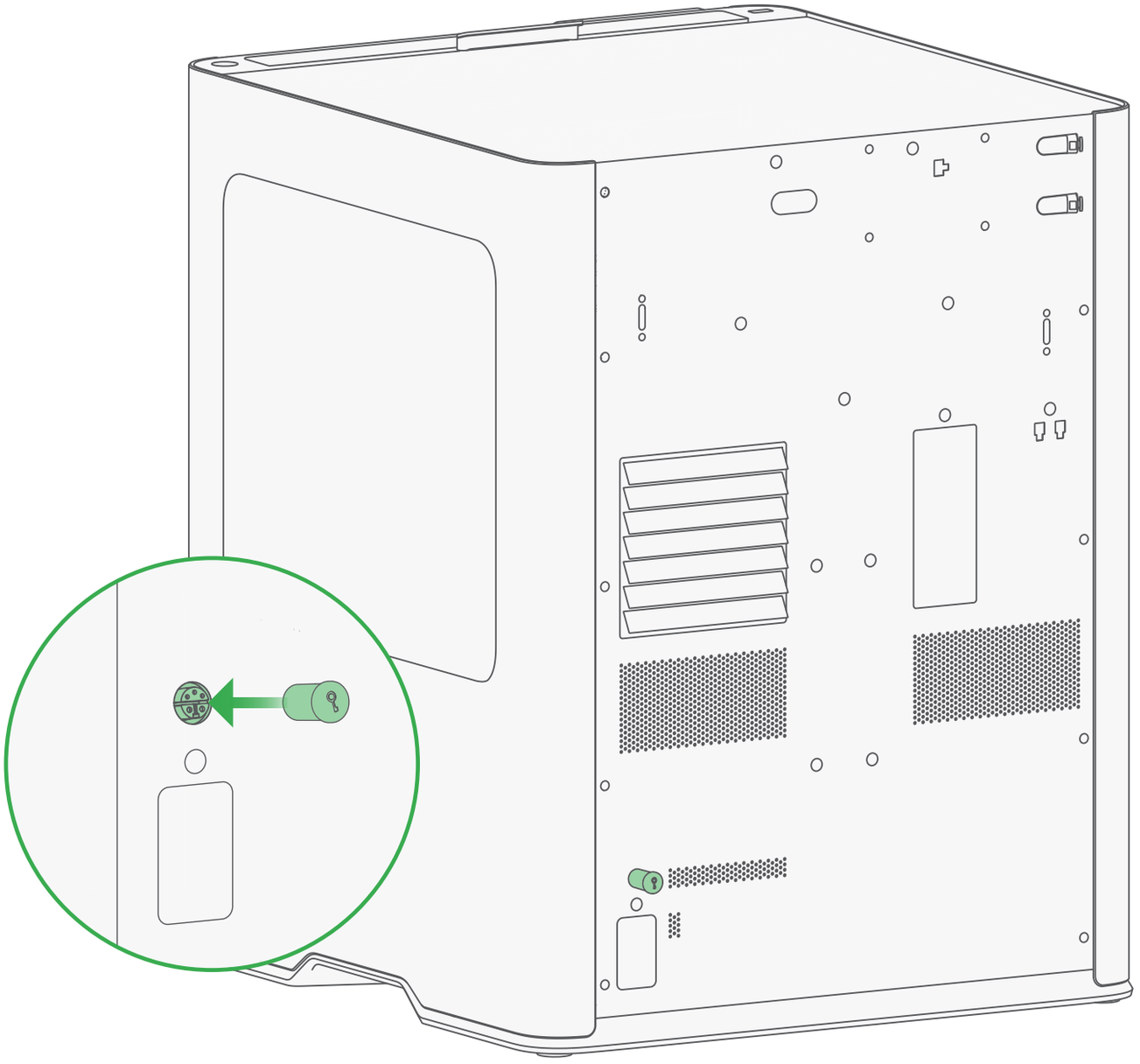
Load filament from an external spool



If the printer is connected to the AMS 2 Pro on a coupler, you can feed filament from an external spool using the additional coupler.

1. Connect one end of the PTFE tube to the spool holder's PTFE tube coupler and the other end to the printer's other coupler, pushing it in until it stops.
2. Insert the filament into the PTFE tube and continue pushing until it enters the extruder and can no longer move forward.

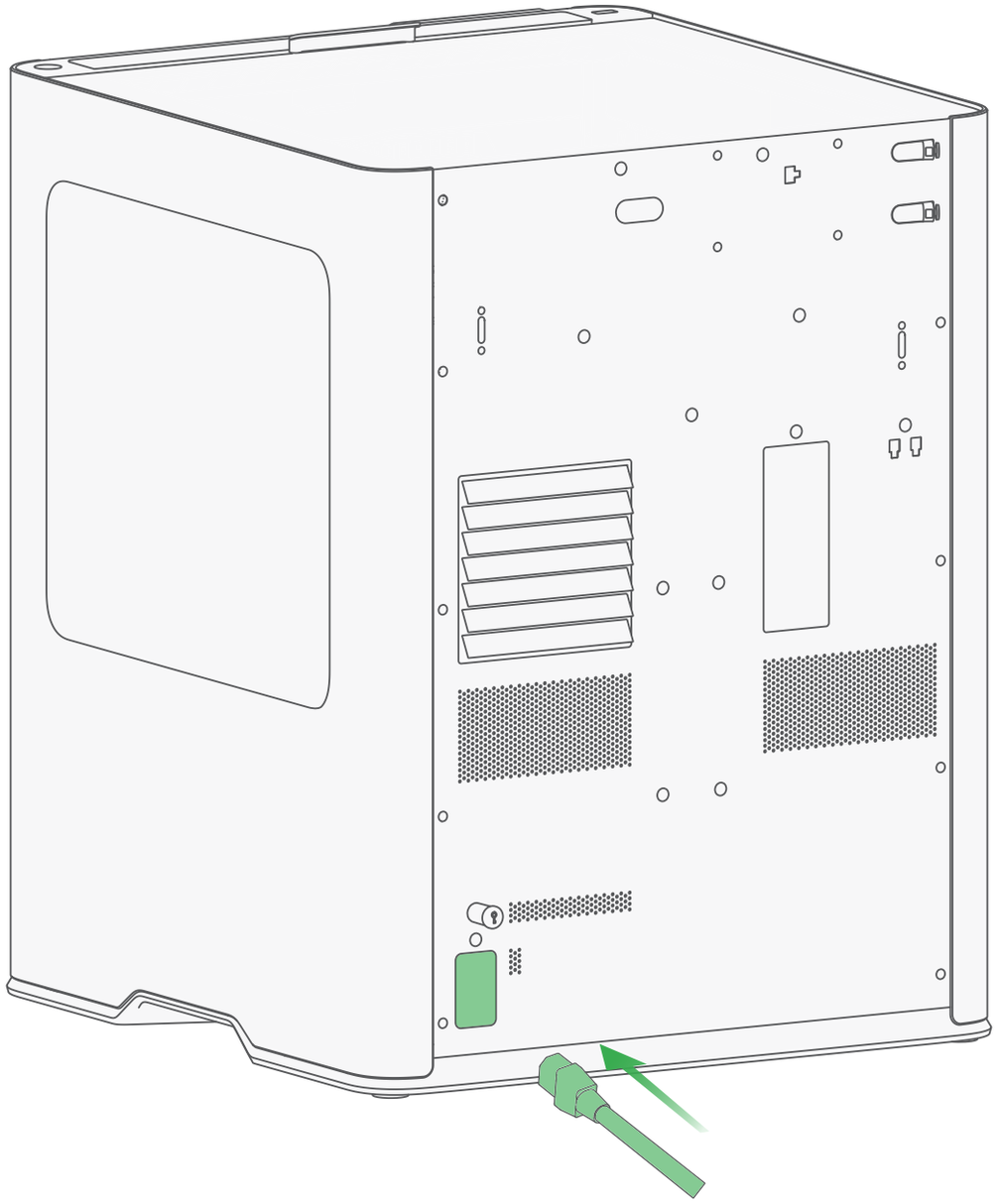
Install the safety key



Take out the safety key on the rear panel, and insert it into the installation slot located above the power socket.

Please do not skip this step, as the printer cannot be powered on without it.

Plug in the power cable and power on



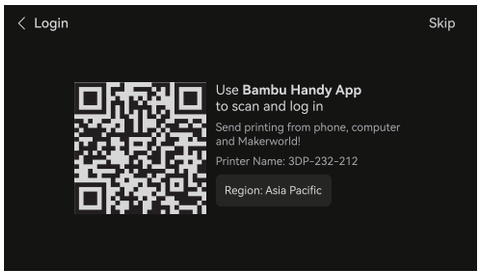
Plug the power cord in the power socket on the back. Then, turn on the power switch.

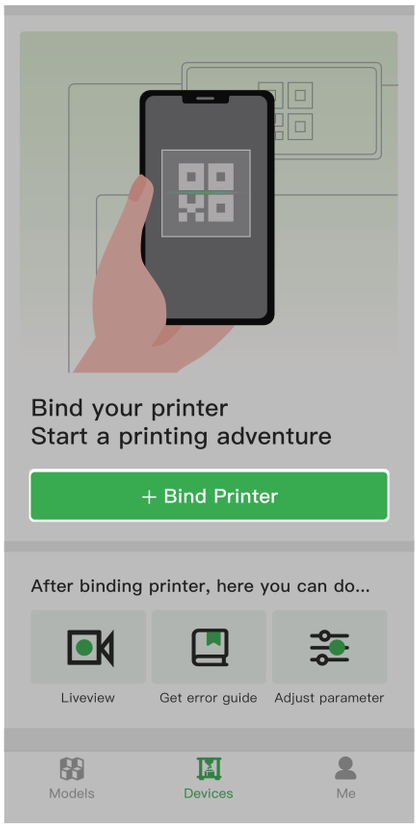
Bind the printer - Bambu Handy

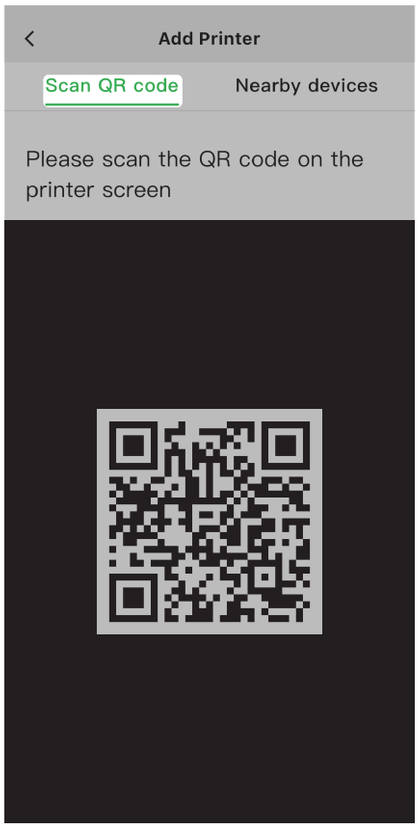
1. Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.

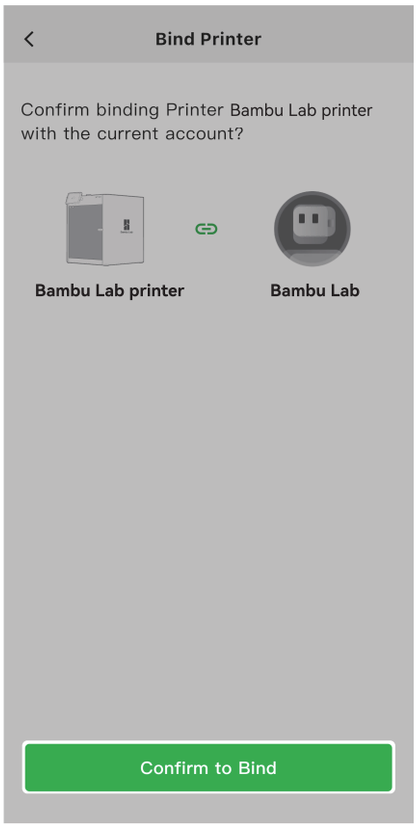
2. Follow the instructions on the screen until a QR code appears.

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





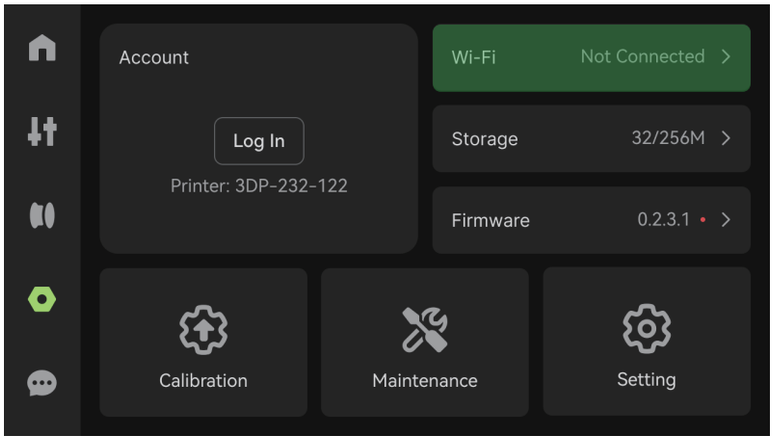




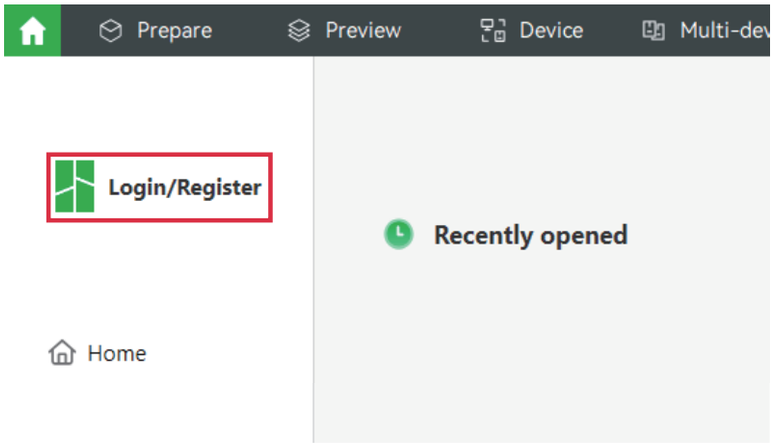
4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

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

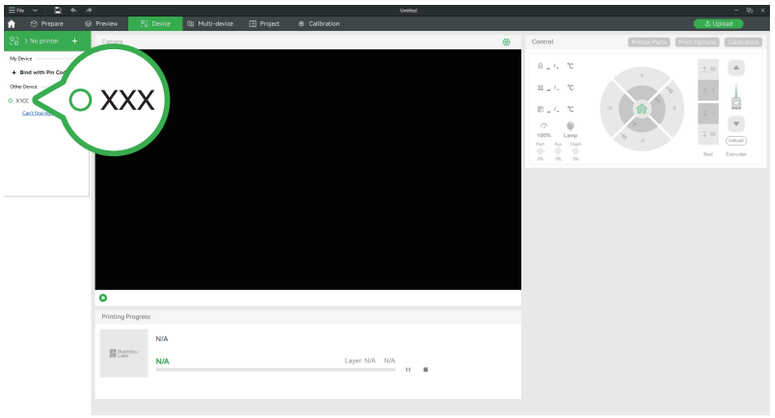
Bind the printer - Bambu Studio



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.

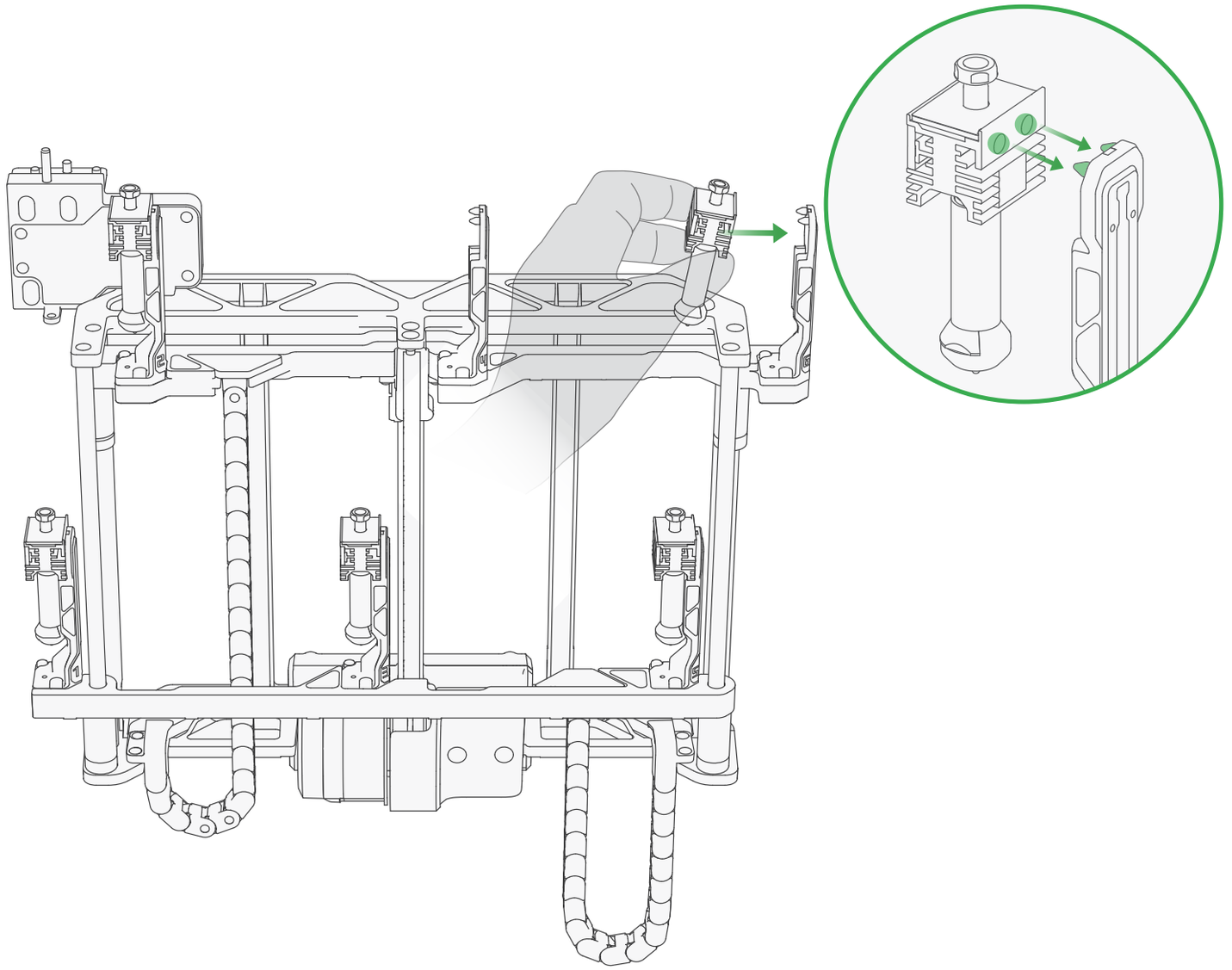


2. Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.
bambulab.com/download/studio



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.

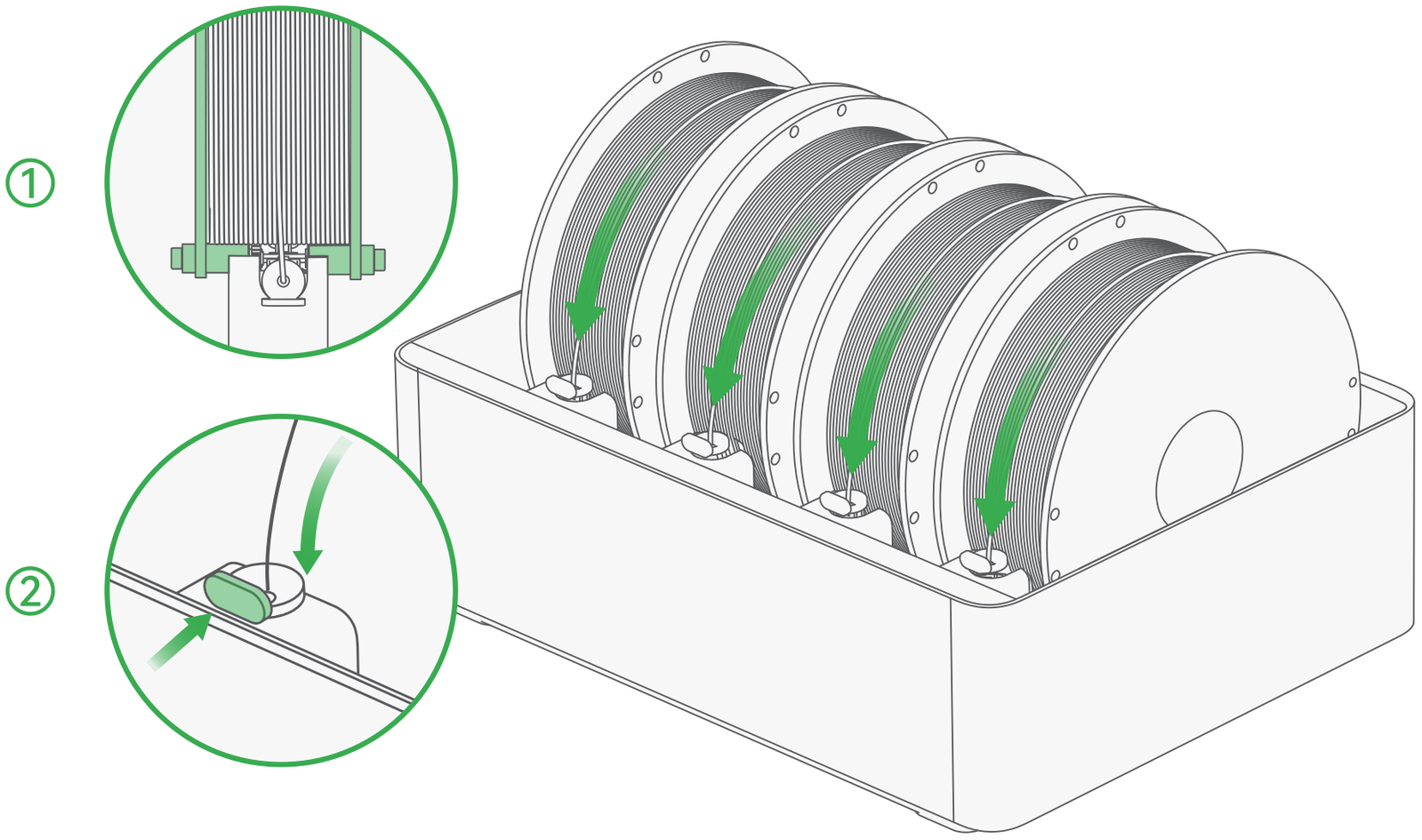
Install induction hotends



After the initial calibration completes, take out the induction hotends from the accessory box and install them on the rack.

The printer can use up to 6 induction hotends, but you can only install up to 5 on the rack so that the one on the toolhead can be placed during hotend switching. Also, if hotends with different diameters are installed, you can only print with hotends with the same diameter.

Please remember to take off all induction hotends before using the laser function as dust can cause them to malfunction.

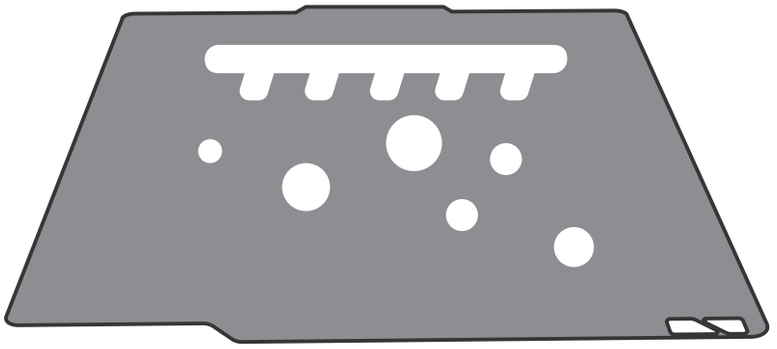


1. Power on the printer and place a spool of filament in any of the four slots. Make sure the spool is correctly placed on the active support shaft as shown in the picture.
2. Push the feeder tab towards the spool, and insert the filament. The AMS 2 Pro will pre-load it after it is detected. When the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

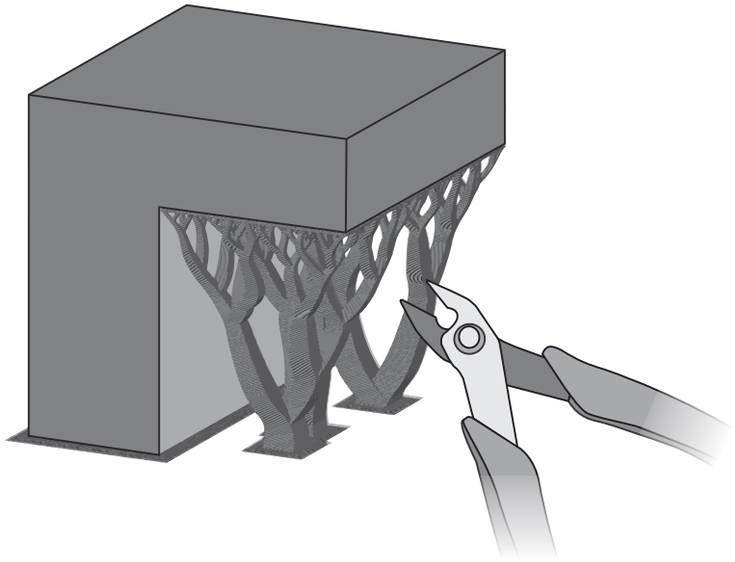
3. Select - Print Files, then select a model you wish to print.
   * The textured PEI plate that comes with the printer is sensitive to dirt and oil. If you have touched the surface of the plate with your hands, oils from your hands can transfer to the surface and impact the plate's adhesion properties. 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 taking down the print. 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.

Induction hotend:

Regularly use a brush to grip a nozzle cleaning sponge dipped in water to remove any filament stuck on the hotend surface to ensure optimal print quality.

Other Components:

- Check camera lenses, fans, and filament sensors for dust or debris.
- Clean fans regularly; gently clean camera lenses using a microfiber cloth dipped in isopropyl or dehydrated alcohol for optimal clarity.
- Regularly remove filament residue in the 4-in-1 PTFE adapter, and replace the filament cleaning pad.

bambulab.com/support/maintenance

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

Printer specifications

Item		Specifications
Printing Technology		Fused Deposition Modeling
Body	Build Volume (W*D*H)	Single Nozzle Printing: 325*320*320 mm^3 (Left Hotend) Single Nozzle Printing: 305*320*325 mm^3 (Right Hotend) Dual Nozzle Printing: 300*320*325 mm^3 Total Volume for Two Nozzles: 330*320*325 mm^3
	Chassis	Aluminum and Steel
	Outer Frame	Plastic and Glass
Physical Dimensions	Physical Dimensions	492*514*626 mm^3
	Net Weight	32.5 kg
Toolhead	Extruder Gear	Hardened Steel
	Nozzle	Hardened Steel
	Max Nozzle Temperature	350 °C
	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

Printer specifications

Item		Specifications
Heatbed	Build Plate Material	Flexible Steel Plate
	Included Build Plate Type	Textured PEI Plate
	Supported Build Plate Type	Textured PEI plate, Engineering 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
	HEPA Filter Grade	H12
	Activated Carbon Filter Type	Granulated Coconut Shell
	VOC Filtration	Superior
	Particulate Matter Filtration	Supported

Printer specifications

Item		Specifications
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
	Toolhead Enhanced Cooling Fan	Closed Loop Control
Supported Filament Type	PLA, PETG, TPU, PVA, BVOH, ABS, ASA, PC, PA, PET, PPS; Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA, PPA, PPS	
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*	1800 W@220 V/1250 W@110 V
	Typical Power	200 W@220 V/200 W@110 V (Single Nozzle Printing PLA)
Operating Temperature		10 °C-30 °C

Printer specifications

Item		Specifications
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 ARM with dedicated NPU
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, Linux
Network Control	Ethernet	Not Available
	Wireless Network	Wi-Fi
	Network Kill Switch	Not Available
	Removable Network Module	Not Available
	802.1X Network Access Control	Not Available

Printer specifications

Item		Specifications
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

* To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3 minutes.

AMS 2 Pro specifications

Item		Specification
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
Drying	Highest Temperature	65 °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
	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	24 V 4 A

* 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.

Technical support

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

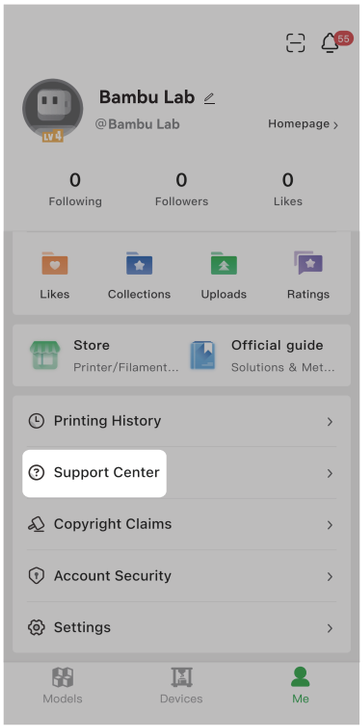
Method 1: Visit the Bambu Lab Wiki for tutorials and maintenance guidance.
wiki.bambulab.com/home

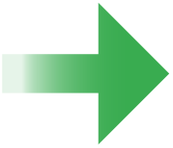
Bambu Lab Wiki

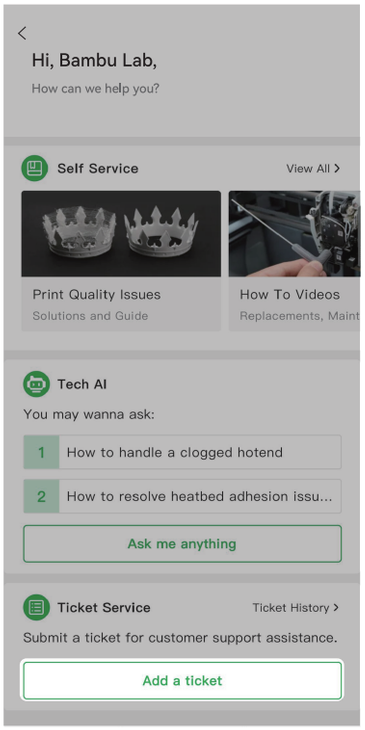
Method 2: Get in touch through one of the options listed in the Contact Us section of our Support Center.
bambulab.com/support

Bambu Lab Support Center

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







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