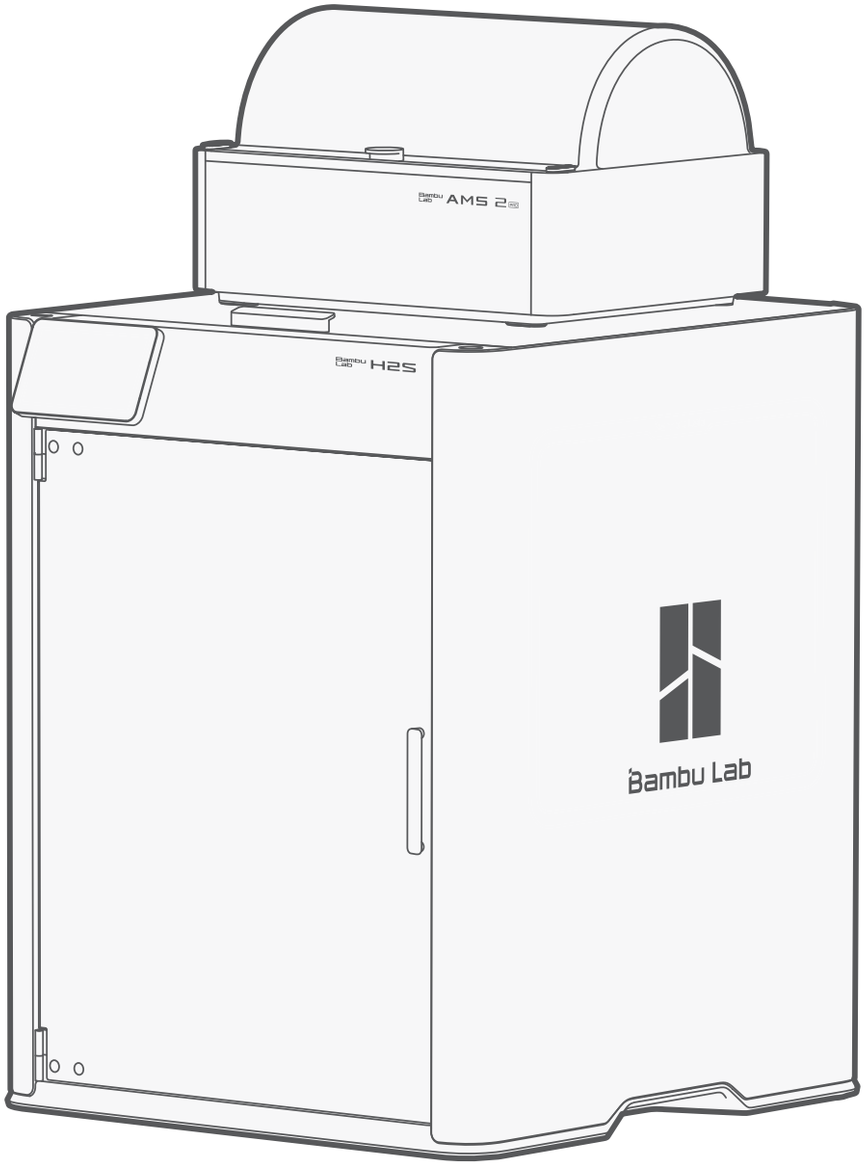
Bambu Lab H2S Laser Full Combo

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-L | SA007

If you want to use the laser or cutting function, please see the corresponding quick start guide.

Video Guide

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

bambulab.com/h2s-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.

makerworld.com

Get help

Scan the QR code to visit our support center, contact technical support, and access more useful tutorials.

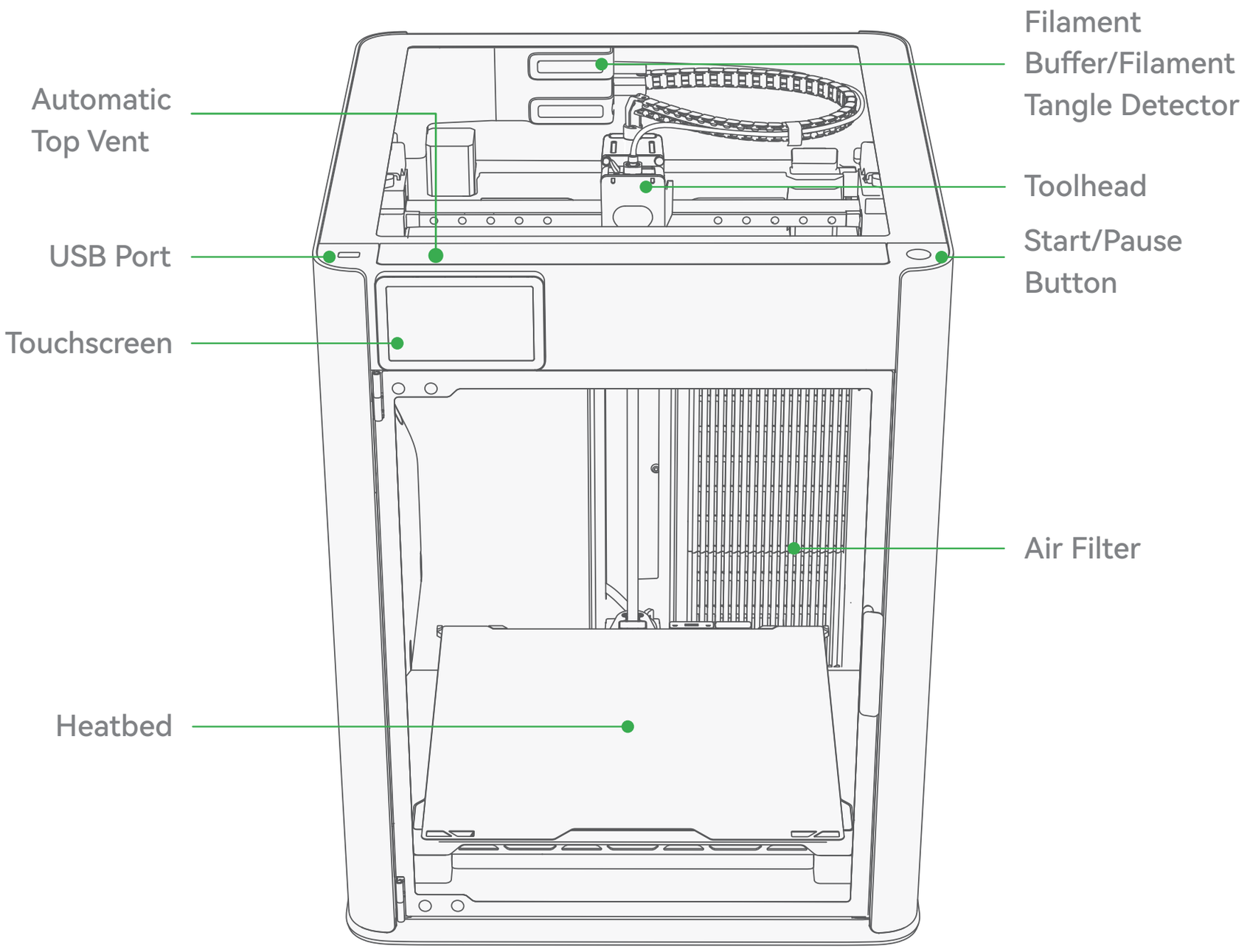
bambulab.com/support

Read before use

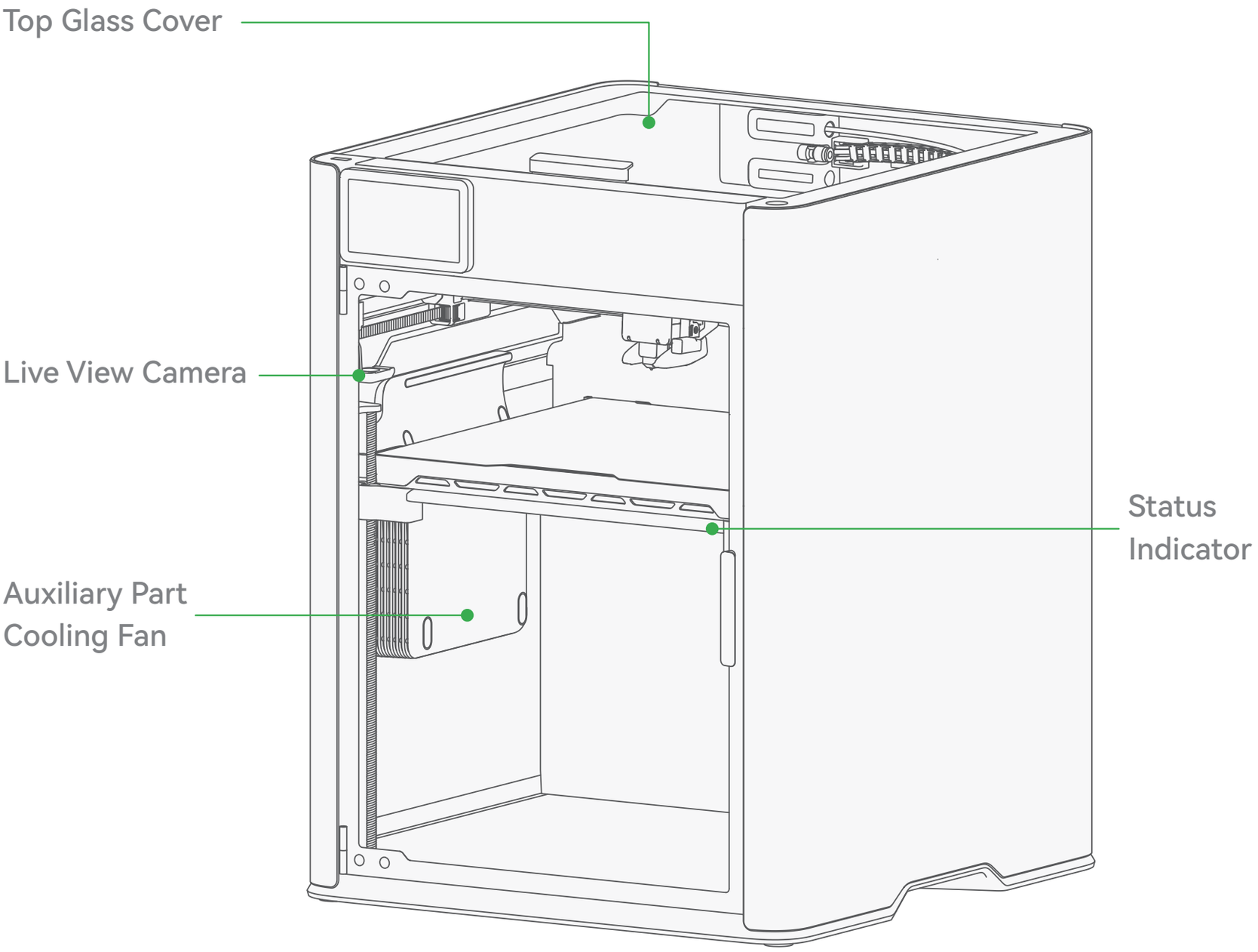
To ensure safety and optimal performance, please follow these guidelines:

- 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 "Specifications" section for details.
- Regular maintenance is essential to keep the printer's complex mechanisms running smoothly. For guidance, see the "Regular Maintenance" section.
- 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 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.

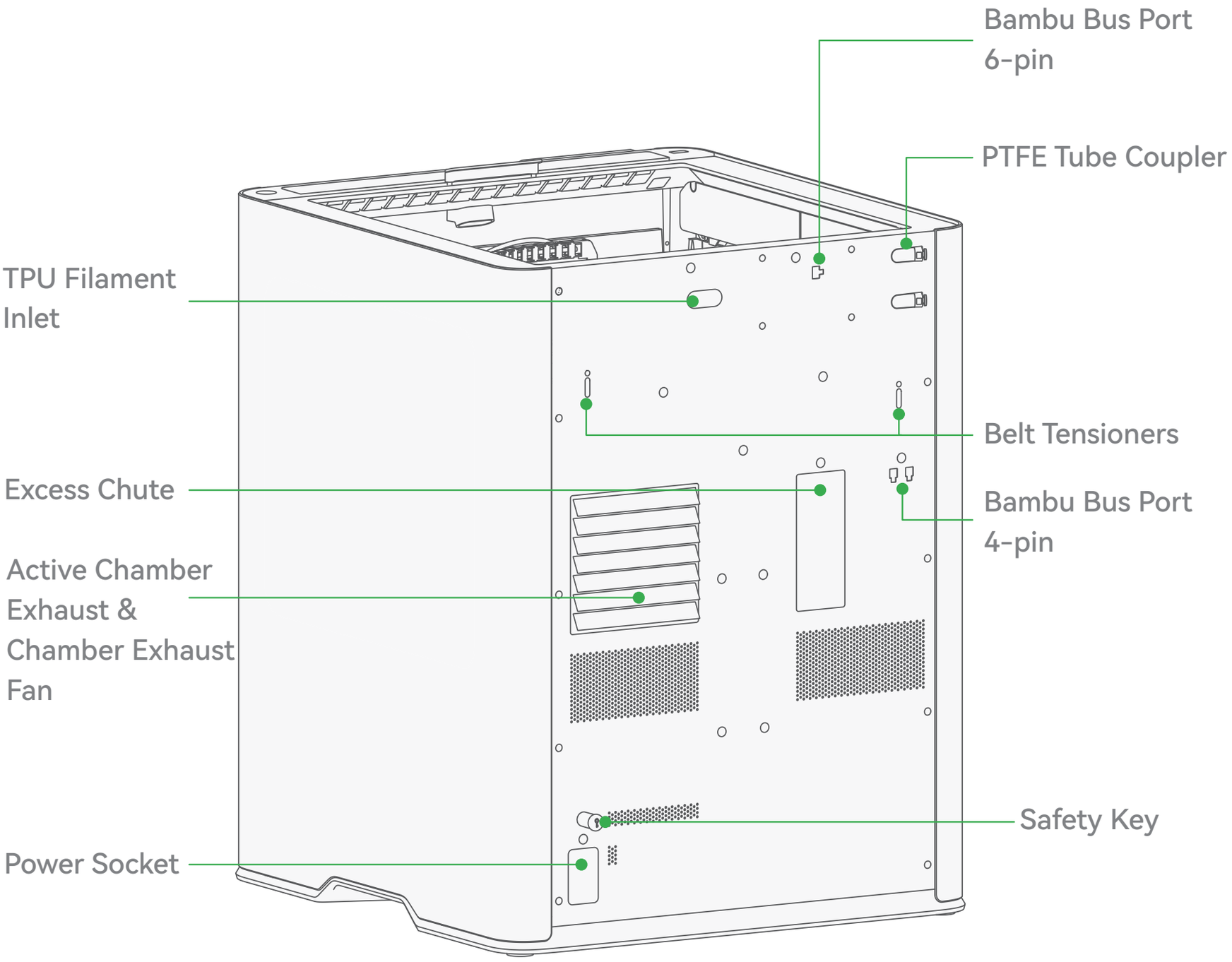
Printer component introduction



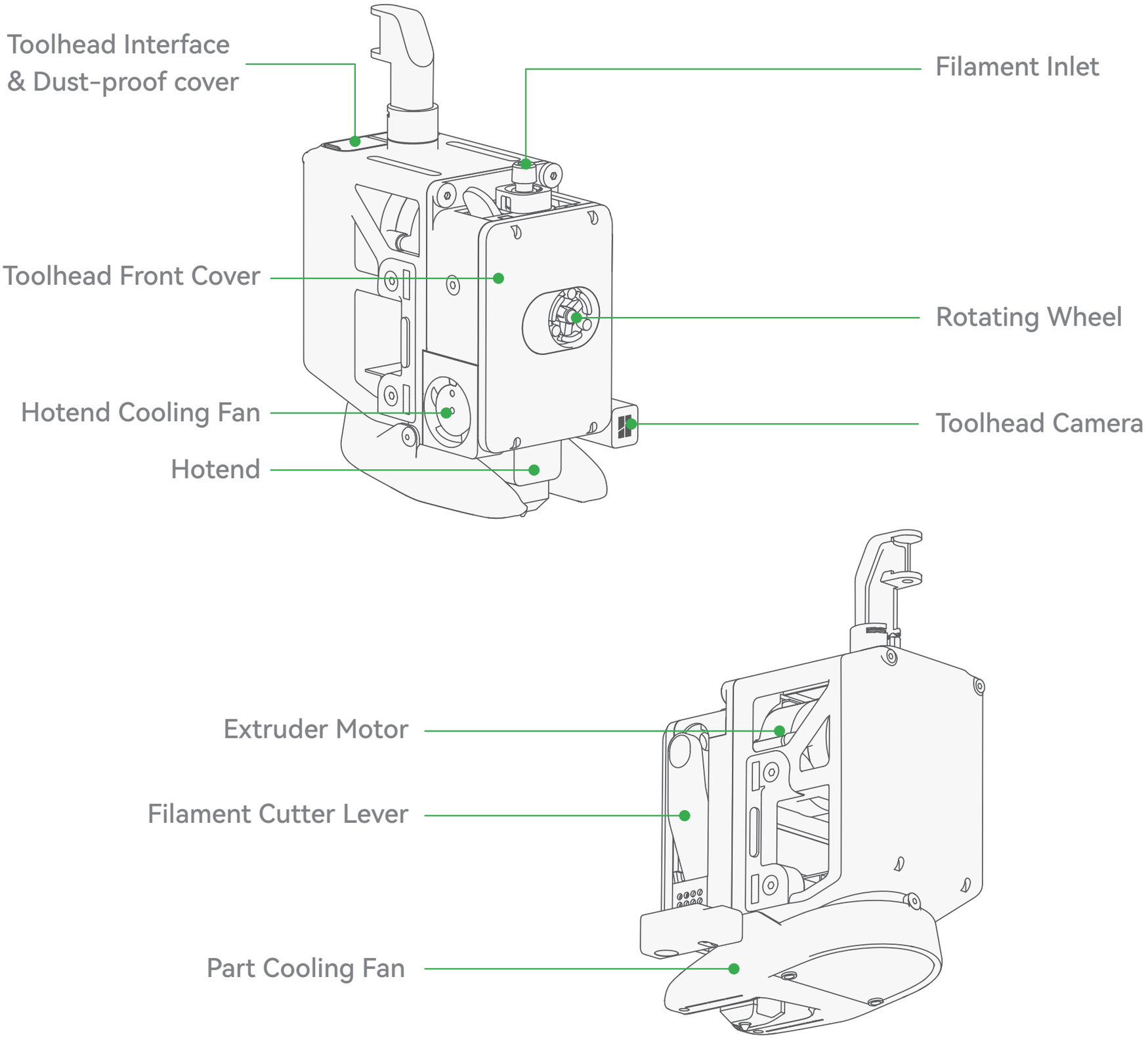
Printer component introduction



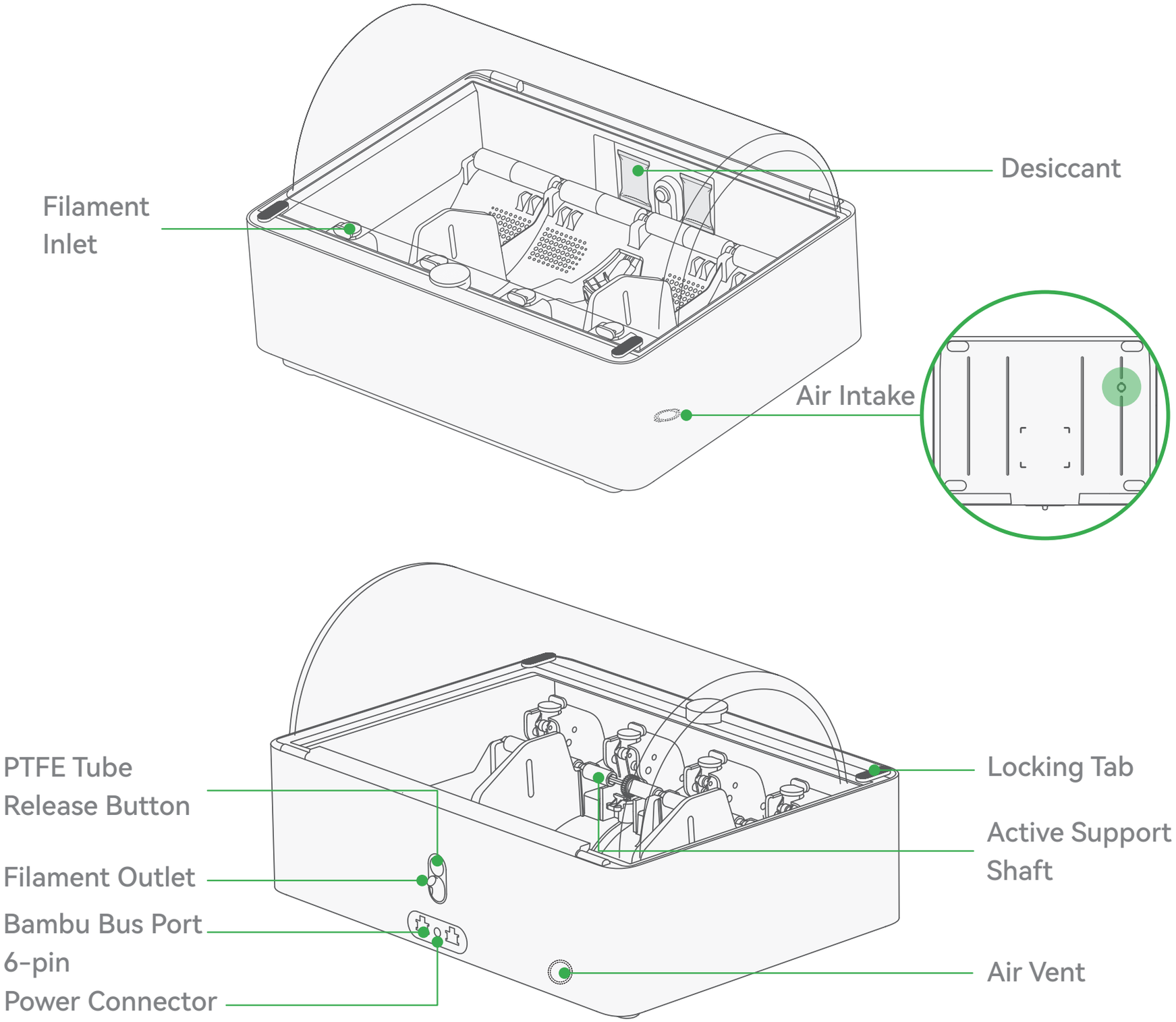
Printer component introduction



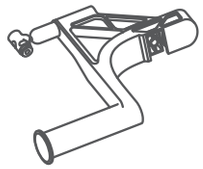
Toolhead component introduction



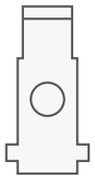
AMS 2 Pro component introduction



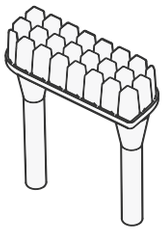
Included accessories



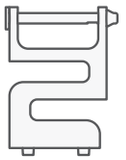
Spool Holder



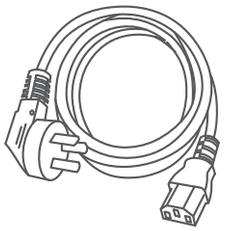
Filament Cutter



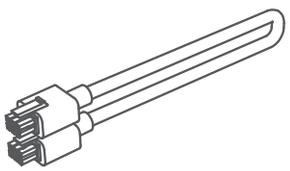
Wiping Pad



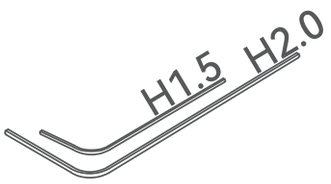
Nozzle Wiper



Power Cord

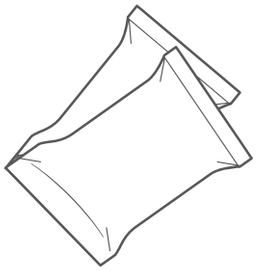


Bambu Bus
Cable 6-pin

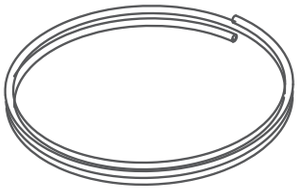


Allen Key H1.5
Allen Key H2.0

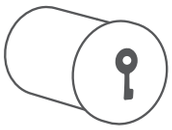
Unclogging Pin



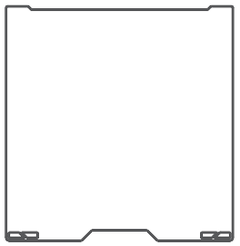
Desiccant



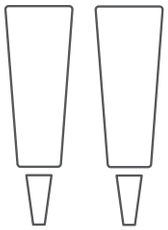
PTFE Tube



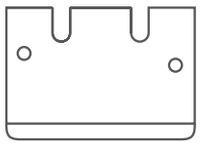
Safety Key



Build Plate
(Pre-installed on heatbed)



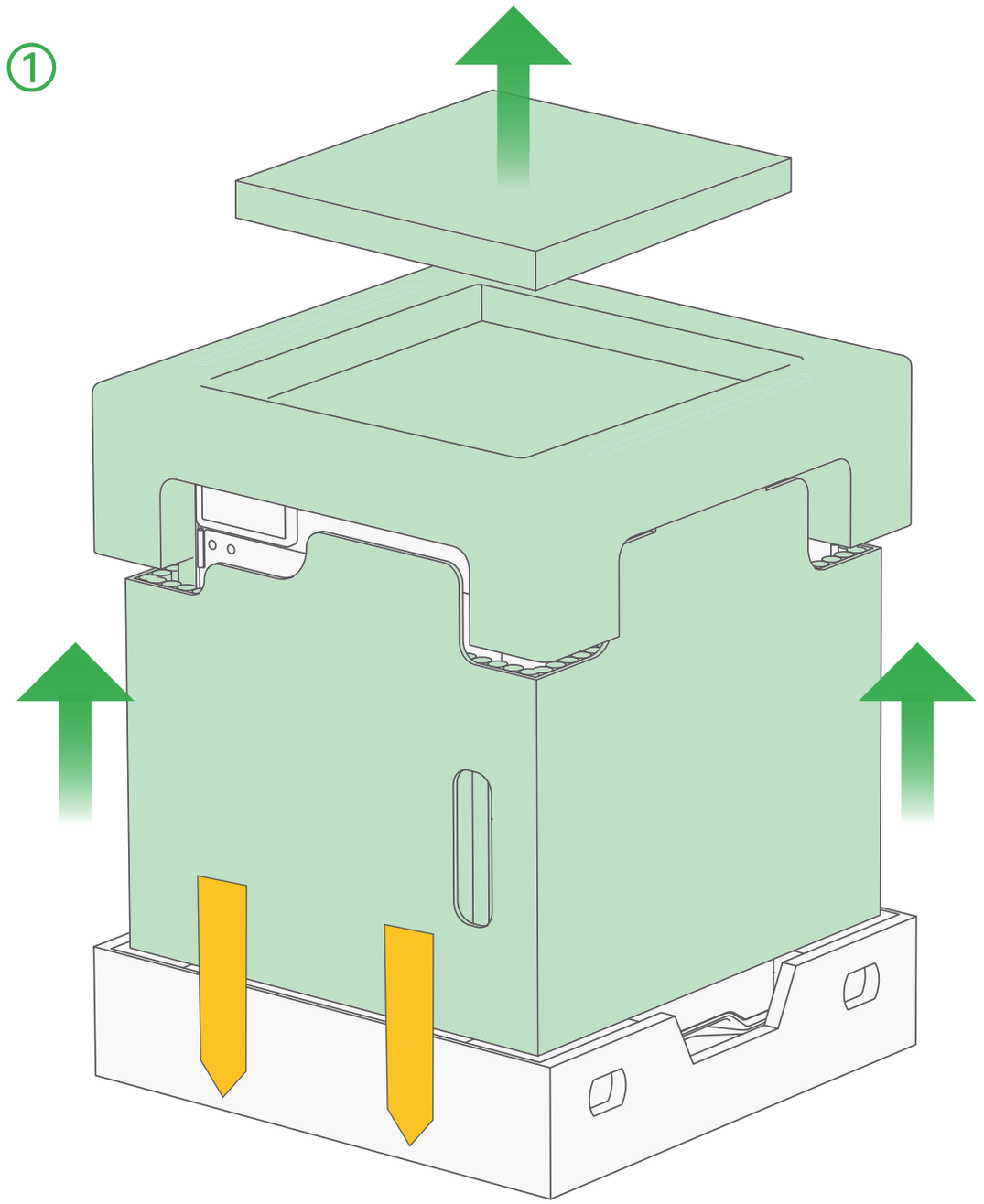
Lubricant Grease
& Lubricant Oil



Scraper
Blade

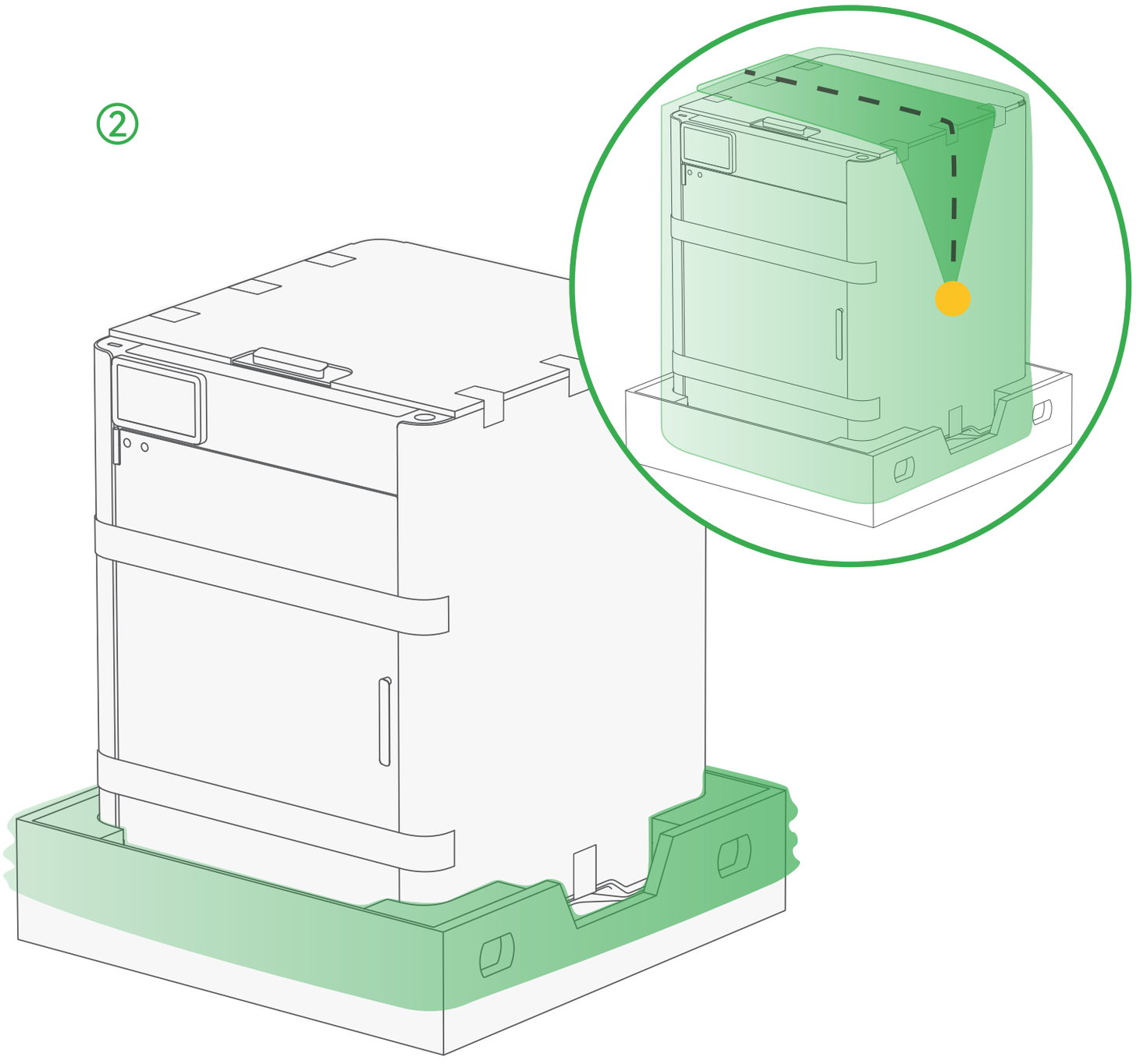
Remove the package

Keep packaging materials and screws for shipping.



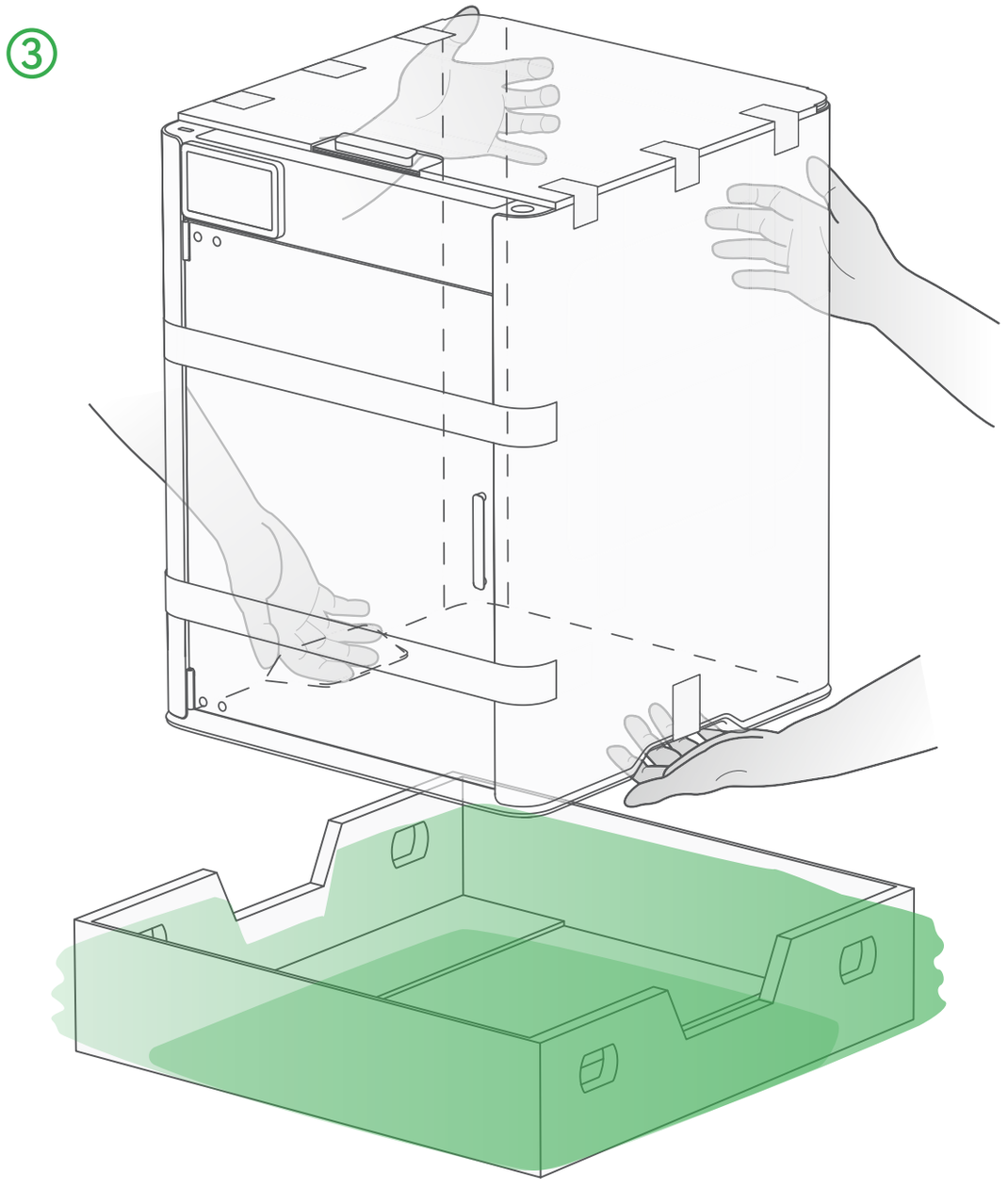
Take out the supply box, and remove the surrounding cardboard, foam and tape.

Remove the package



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

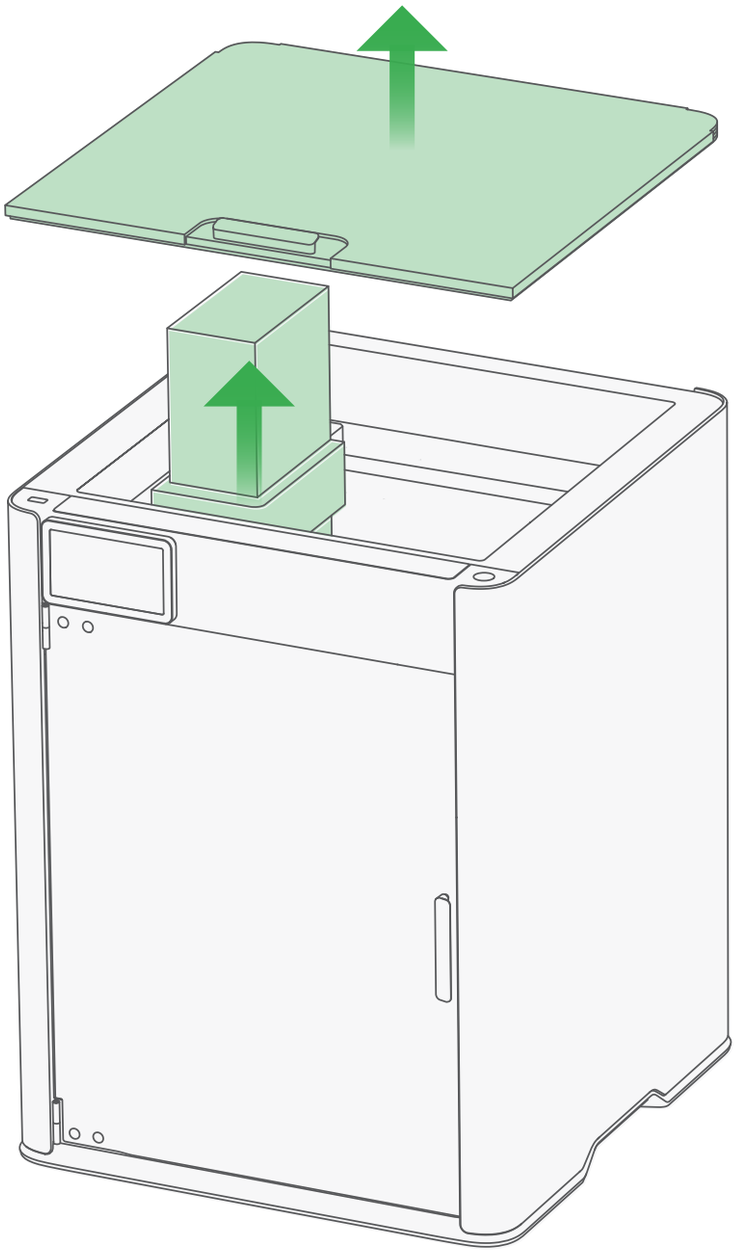
To prevent the risk of suffocation, keep these bags away from babies and children

As shown in the picture, 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.

* Please leave at least 30 cm of space on the back of the printer for installing the smoke ventilation pipe later.

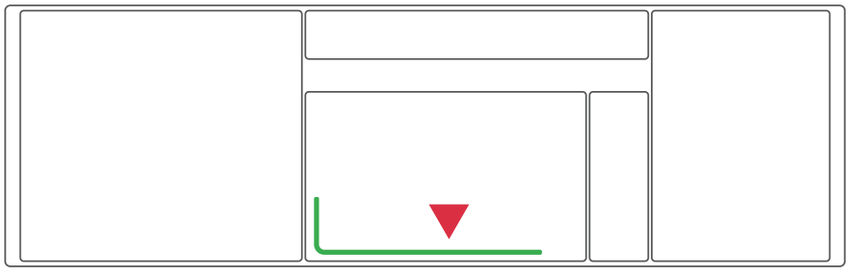
Remove the package

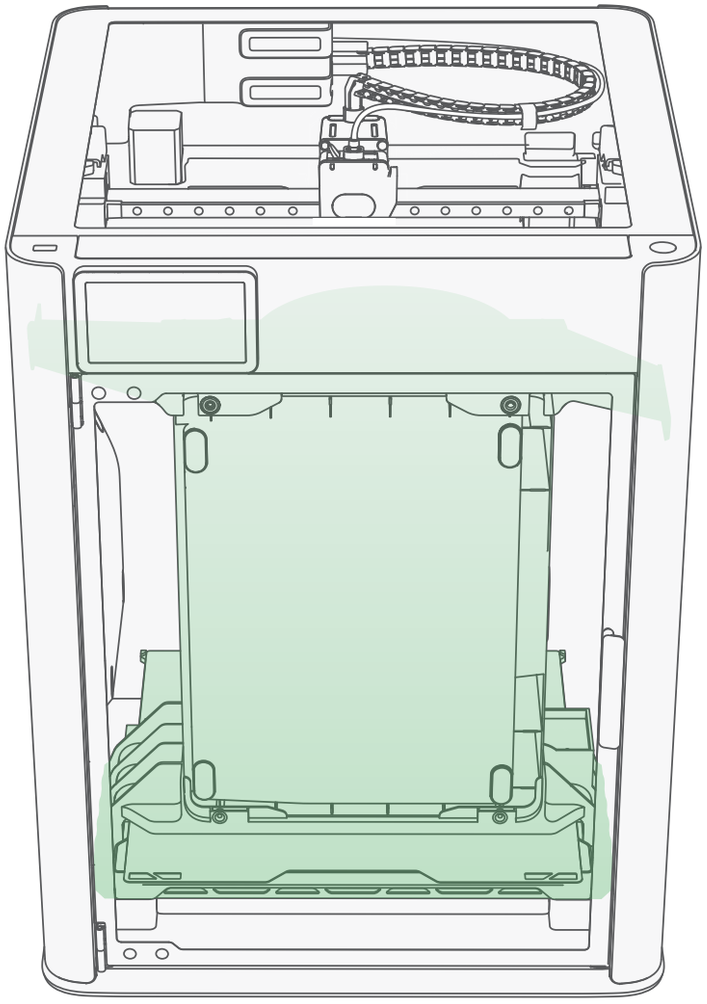
④

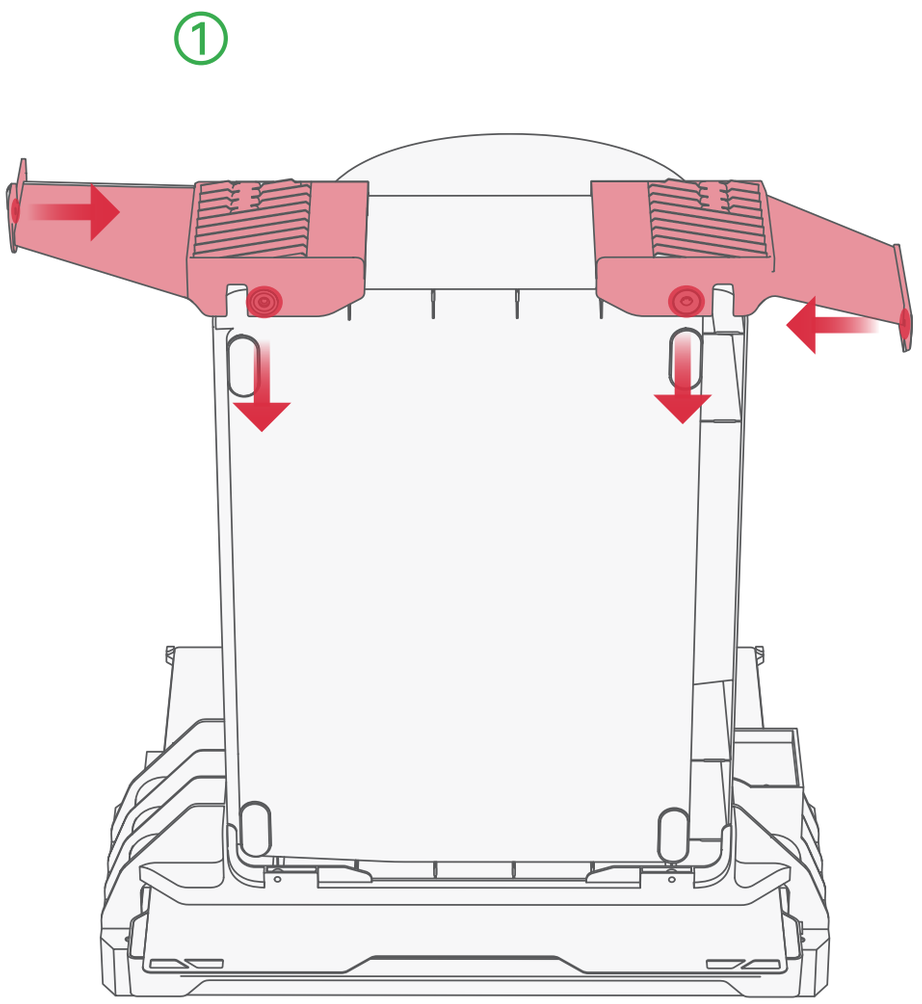


Remove the adhesive tapes and other packaging materials, then take out the top glass cover and the accessory box and set them aside.

Unlock the AMS 2 Pro

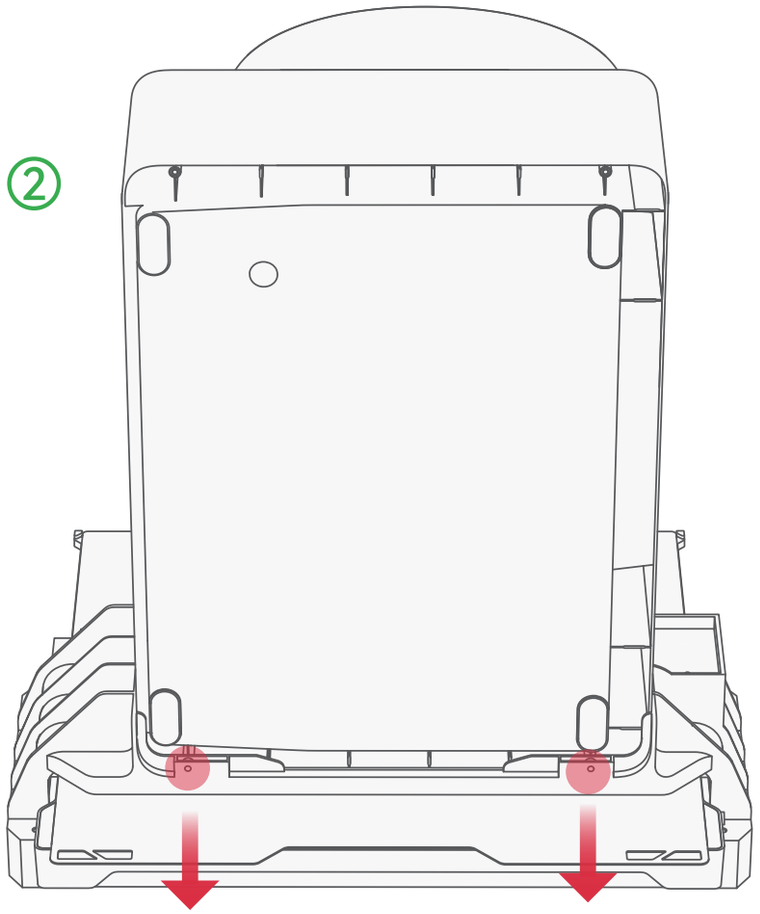




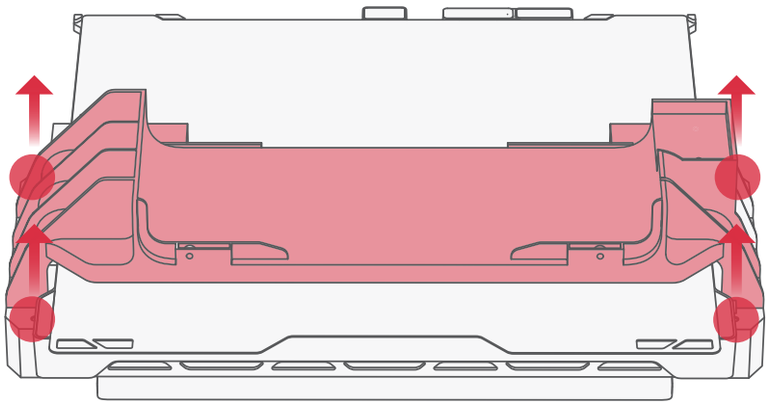


Use the longer H2.0 allen key from the accessory box to remove the 4 screws marked in red. Next, detach the two plastic parts from the top.

Unlock the AMS 2 Pro

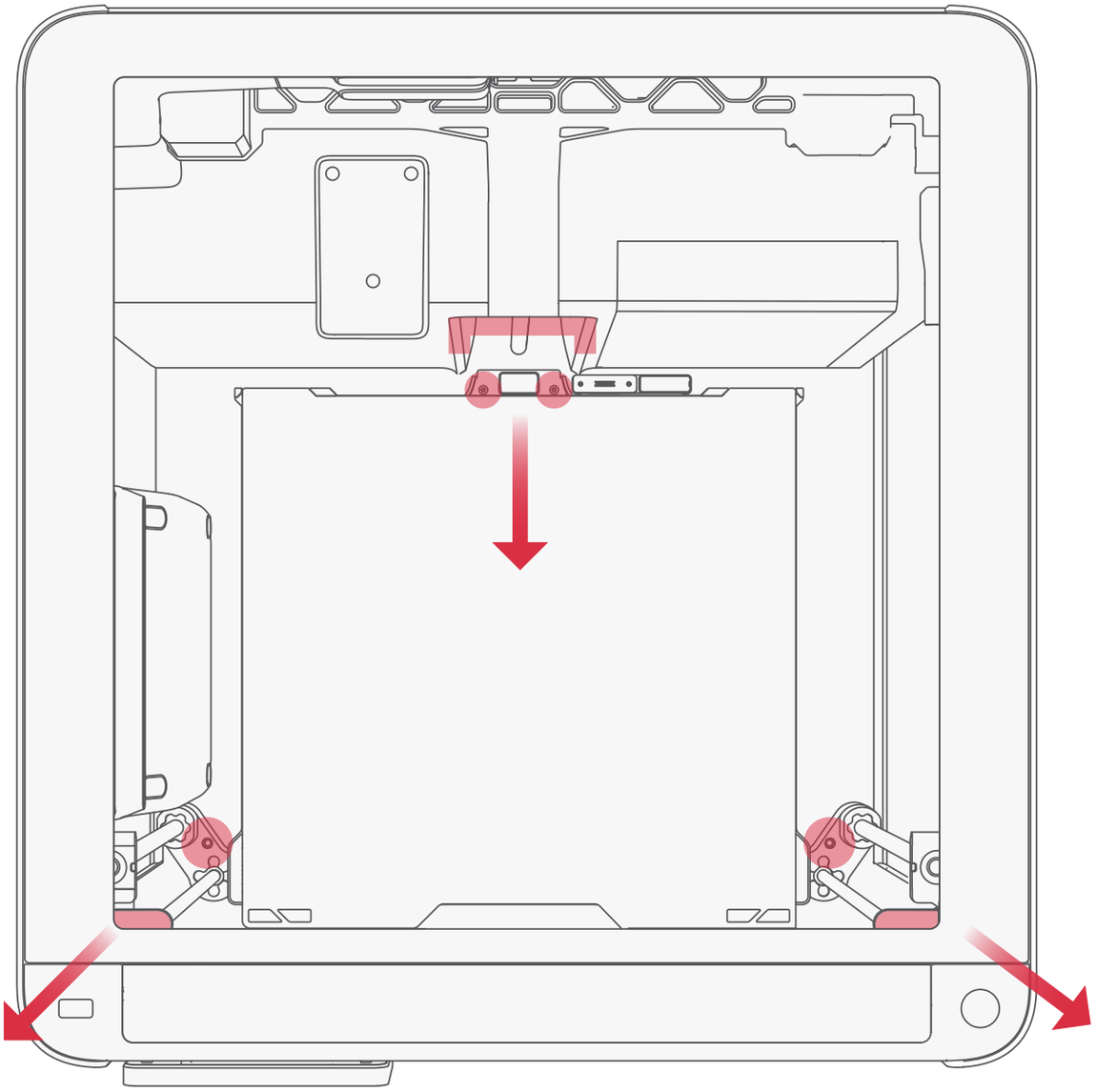
② 

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, which should be removed after calibration).

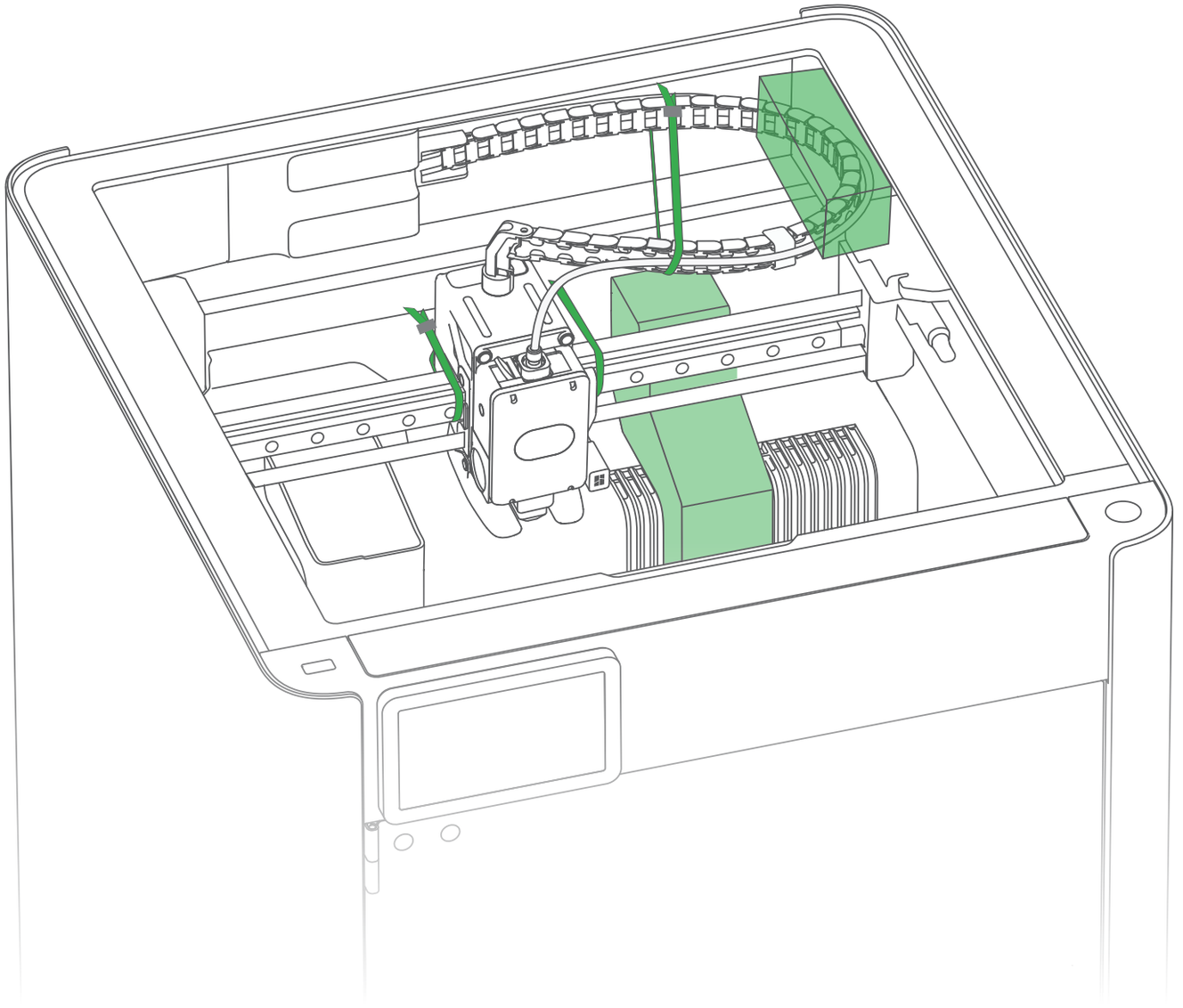
Unlock the heatbed



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

The foam under the heatbed should be removed after calibration.

Unlock the toolhead

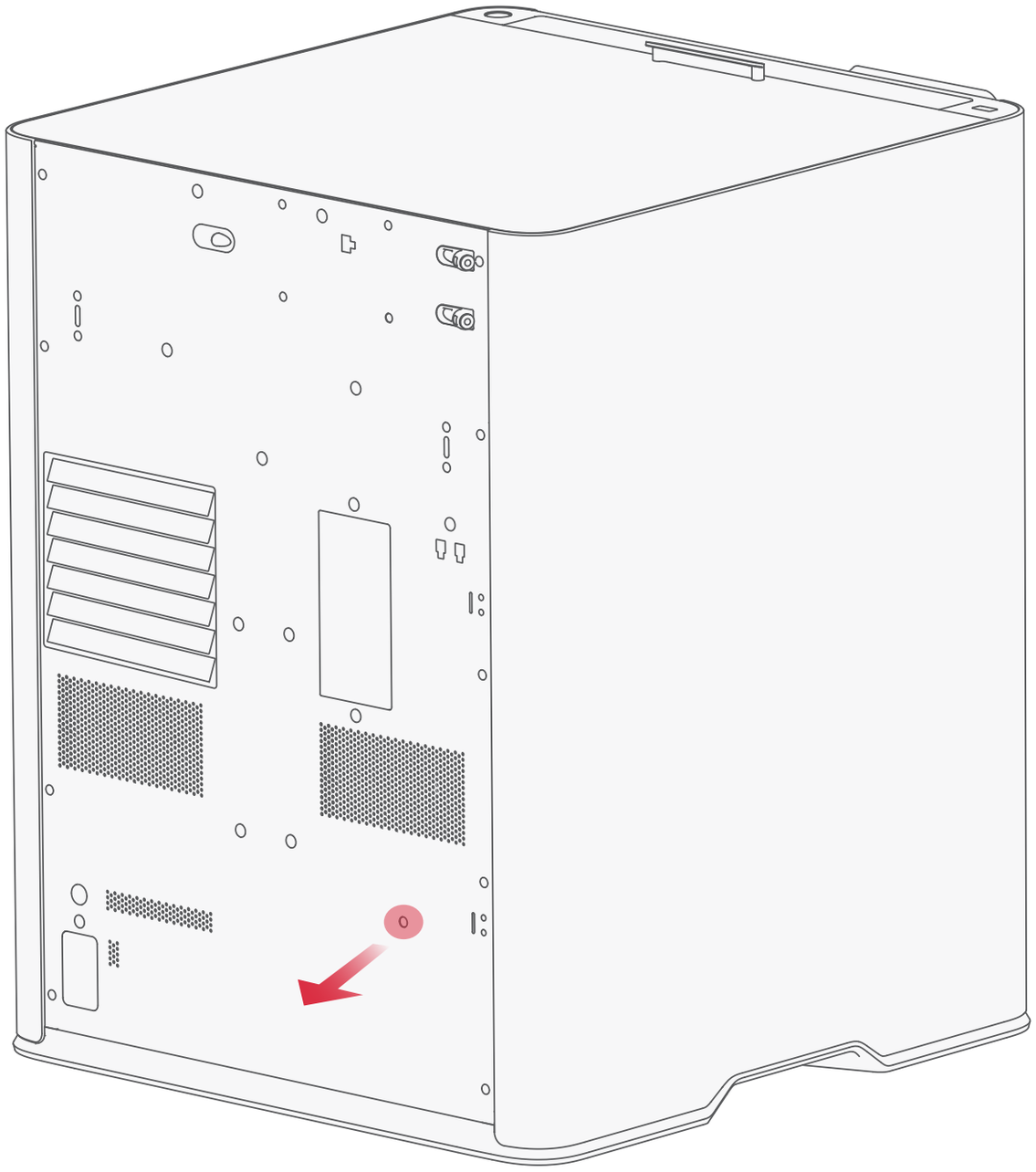


① Cut and remove all zip ties.

② Pull the toolhead towards the front door, and remove the foam pieces marked in green.

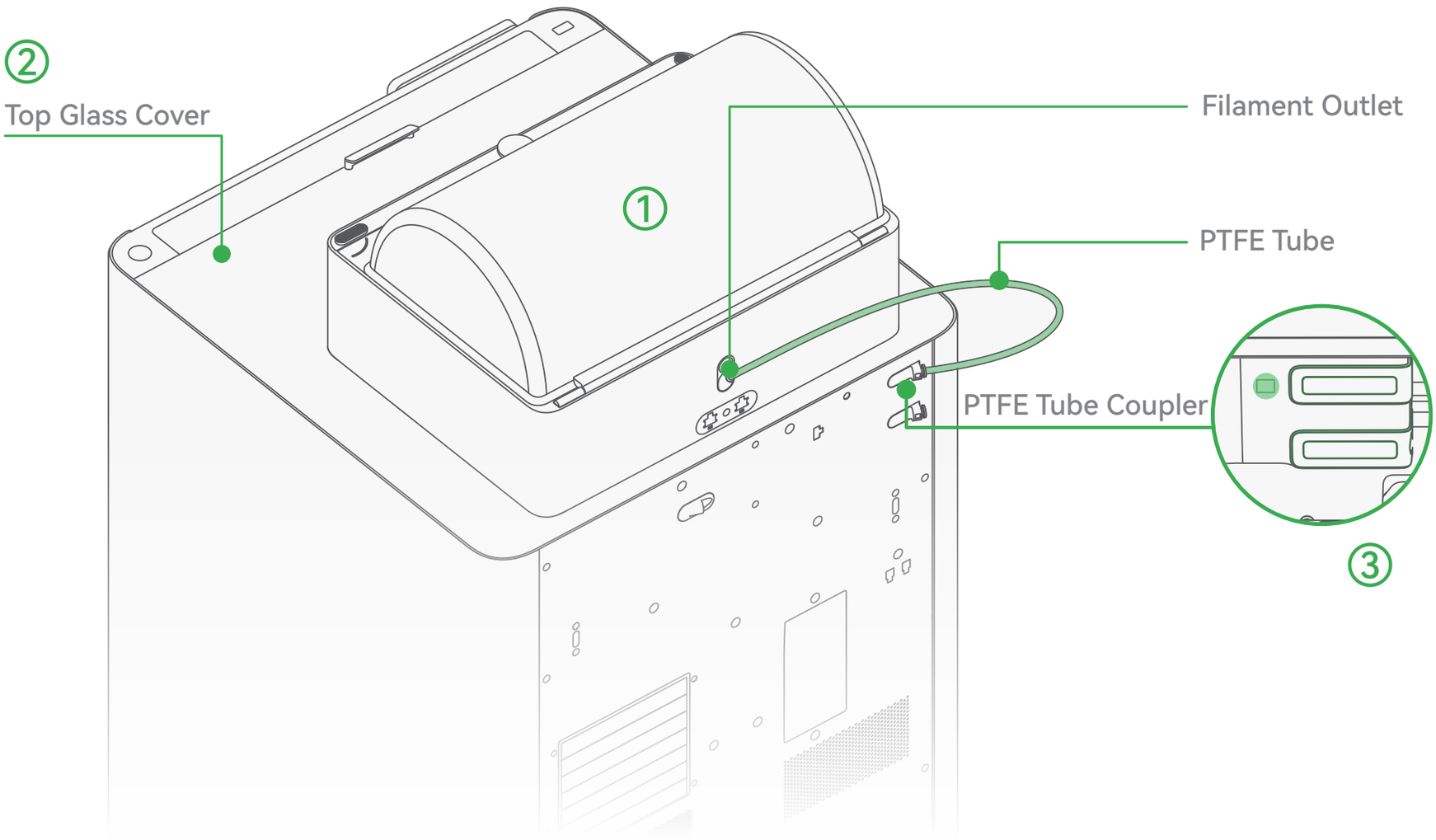
③ Remove other foam pieces and tapes marked for removal inside the chamber.

Remove the screw fixing the air pump



Use the H2.0 allen key to loosen the air pump fixing screw marked in red, and then take it out slowly to prevent it from falling inside the printer.

Install the AMS 2 Pro

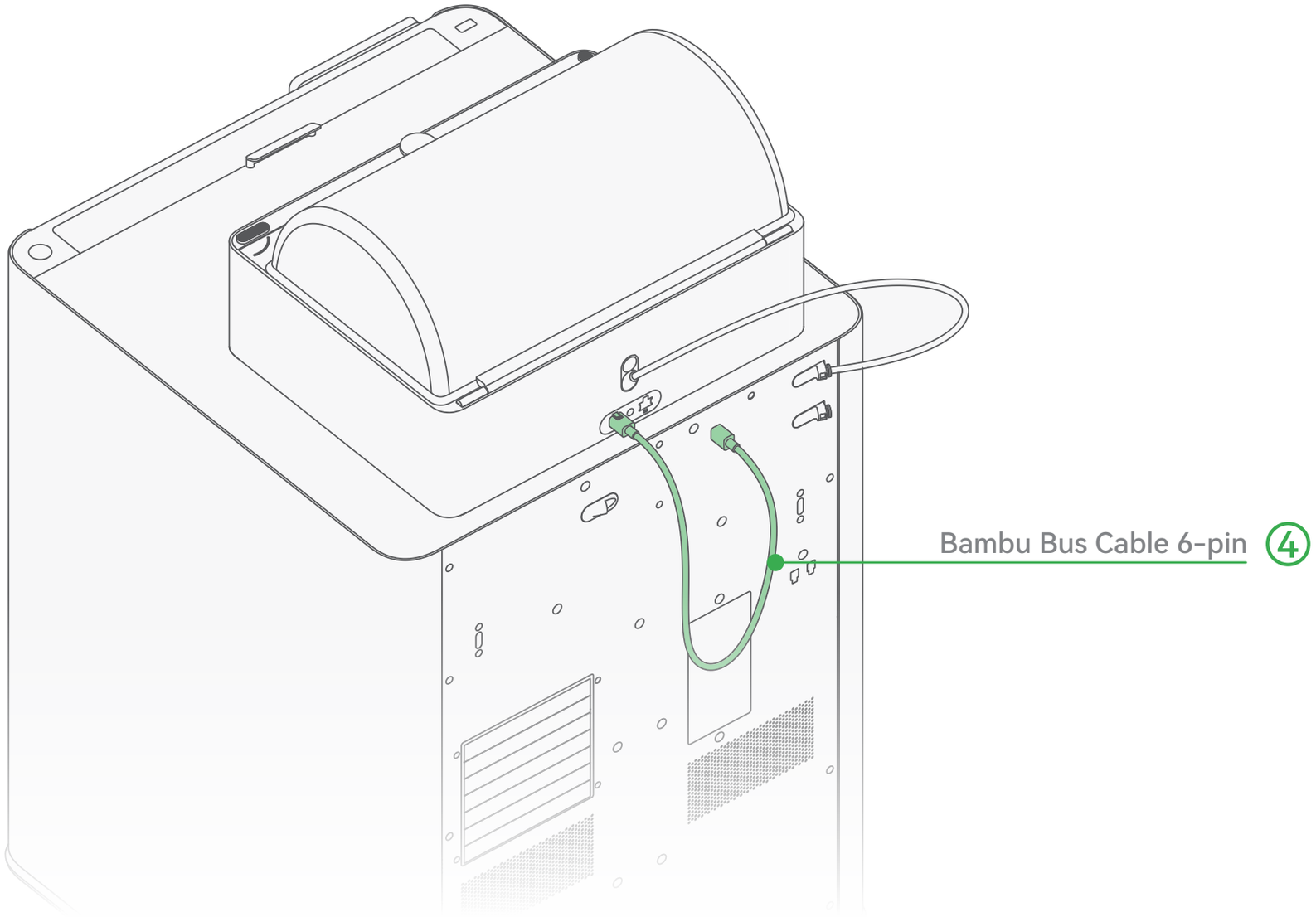


① Take out the accessories in the AMS 2 Pro.

② Place the top glass cover and AMS 2 Pro on top of the printer.

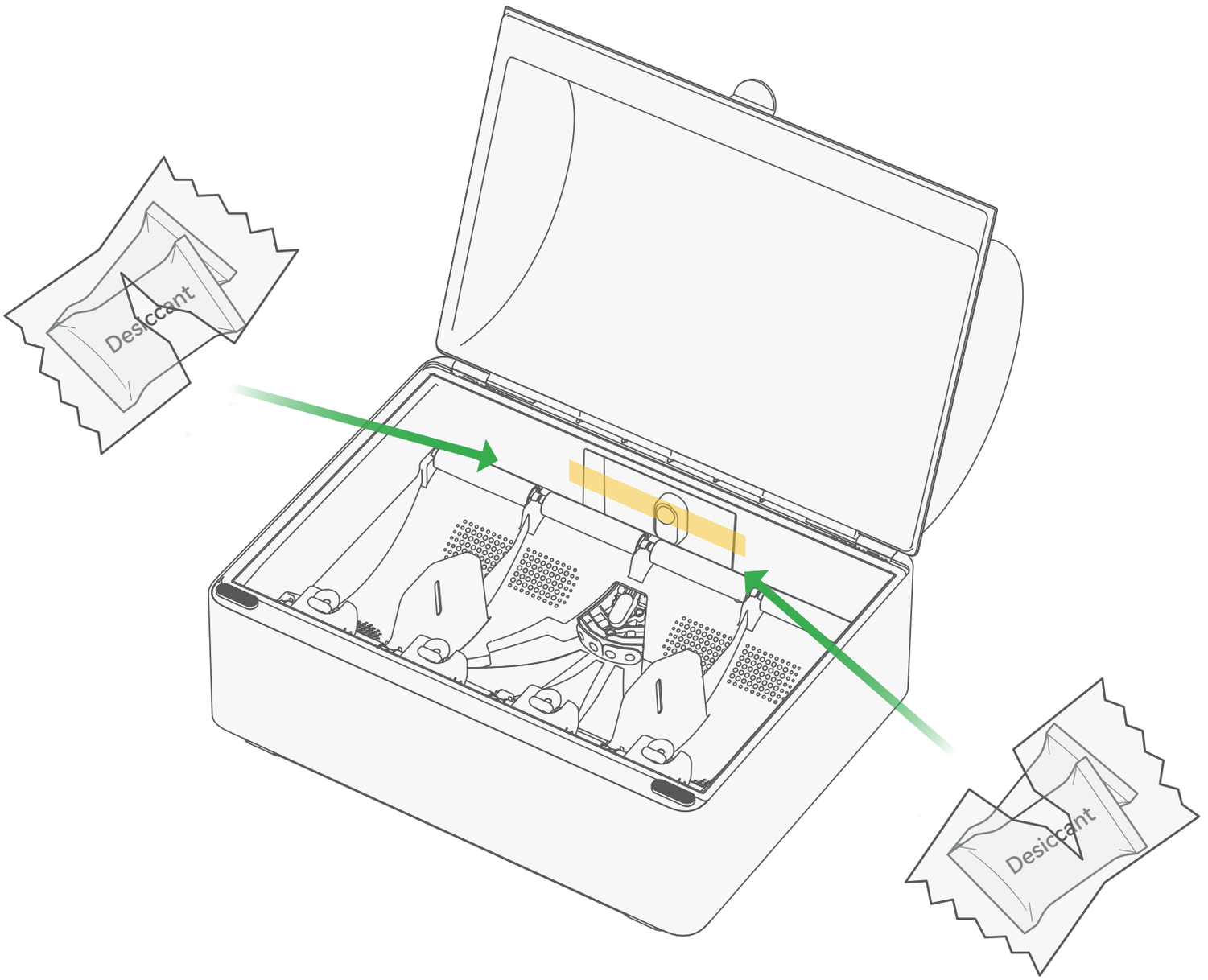
③ Take out the PTFE tube from the accessory box, insert it into the AMS 2 Pro's filament outlet and the PTFE tube coupler of the printer, and push the tube forward for approximately 10 cm until it stops (if you can see the PTFE tube from the window next to the buffer from the front of the printer, it is correctly inserted).

Install the AMS 2 Pro



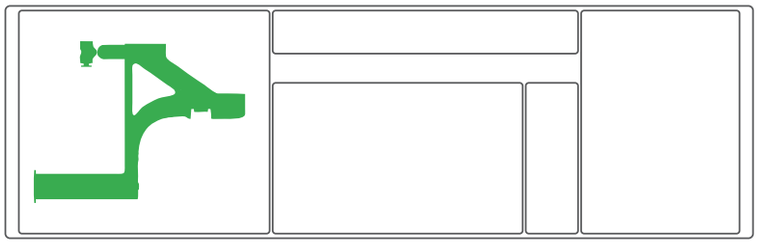
④ Connect the Bambu Bus Cable 6-pin to the printer and either 6-pin port of the AMS 2 Pro.

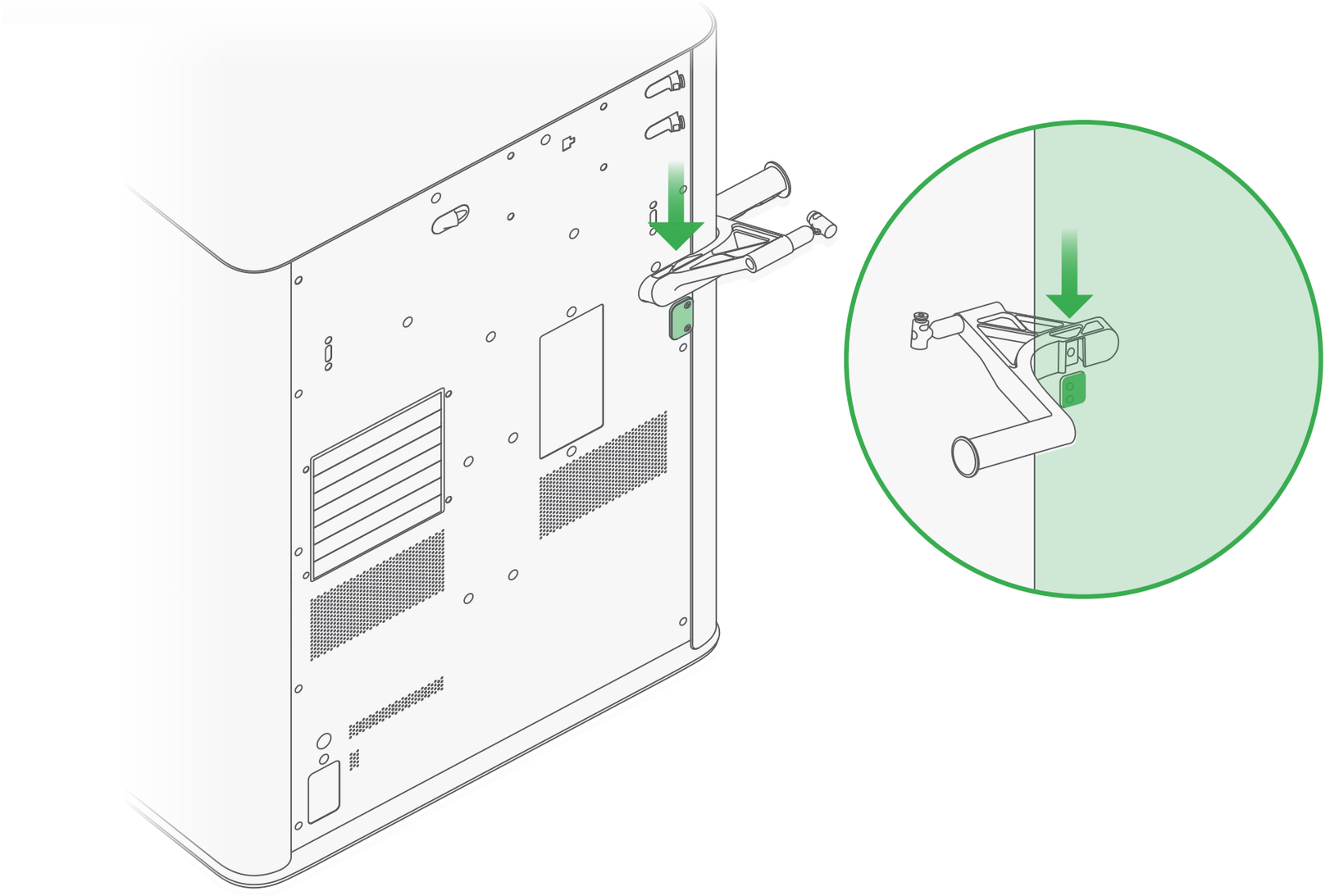
Remove the desiccant packaging material



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 empty space.

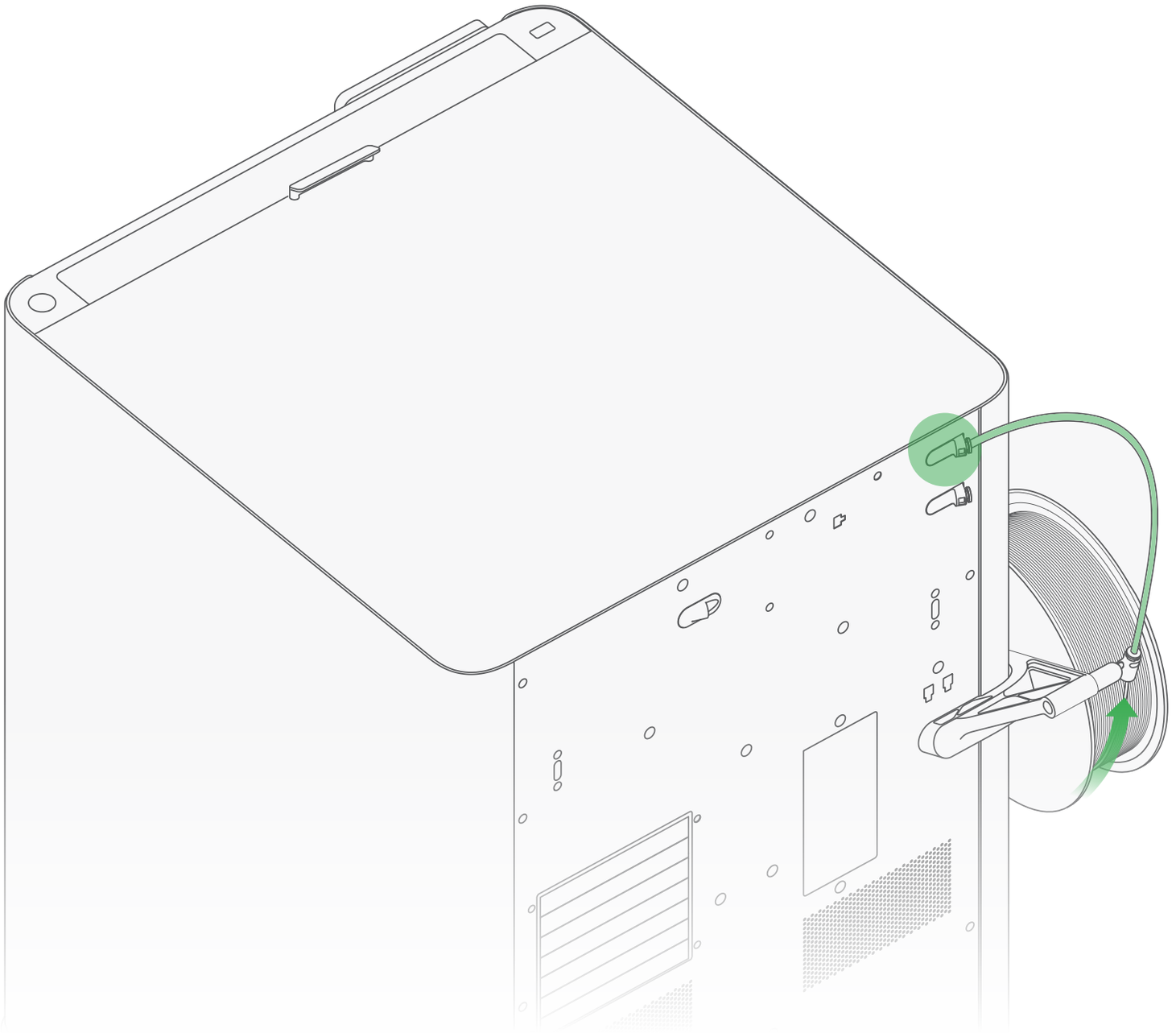
Install the spool holder





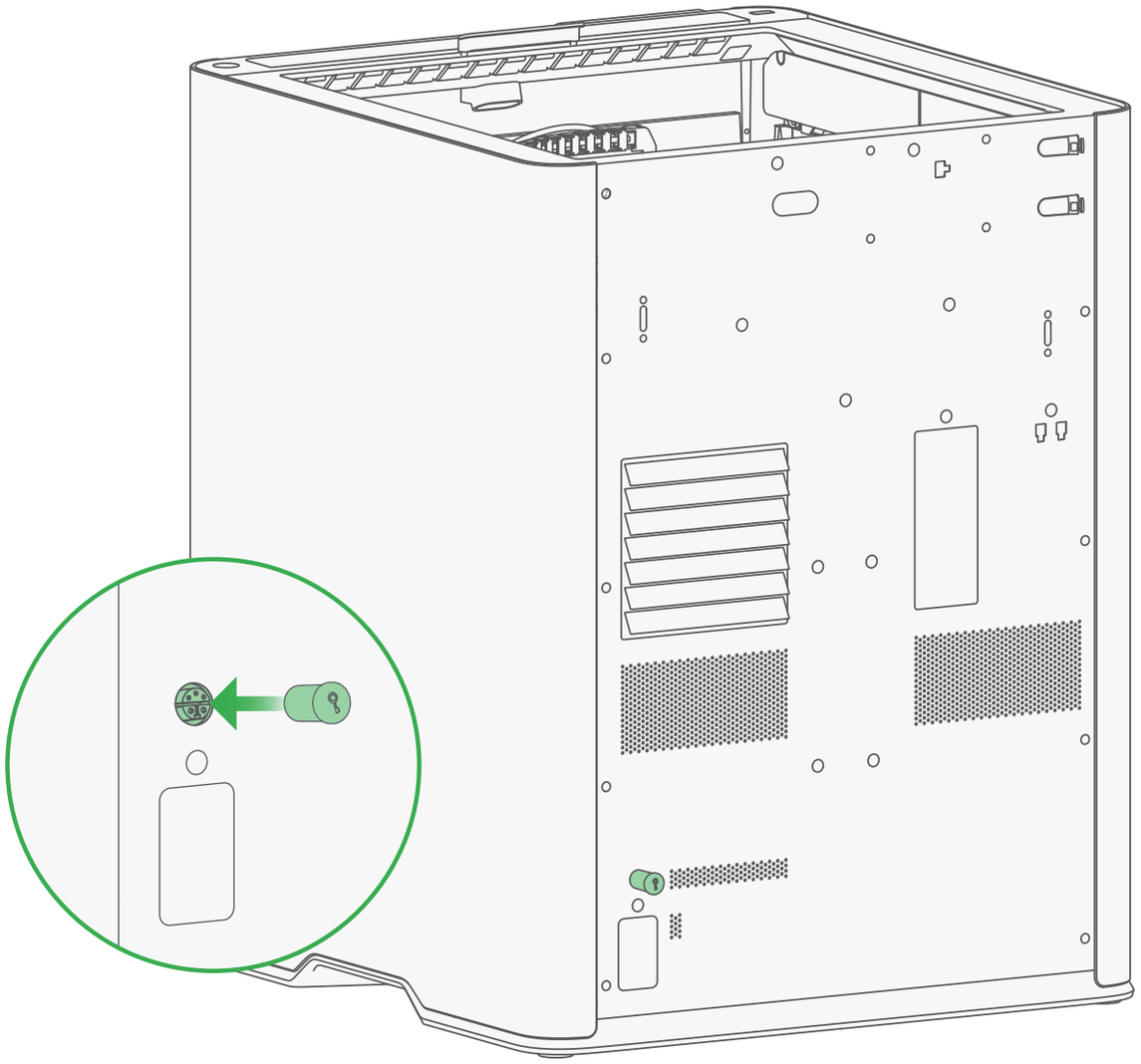
Take out the spool holder from the accessory box. Slide in the spool holder in the direction shown above.

Load filament from an external spool



When the AMS 2 Pro is not used, you can feed filament from an external spool. Take out the shorter PTFE tube from the accessory box. Connect one end of the PTFE tube to the spool holder’s PTFE tube coupler and the other end to the printer's coupler, pushing it in until it stops. Next, insert the filament into the PTFE tube and continue pushing until it enters the extruder and can no longer move forward.

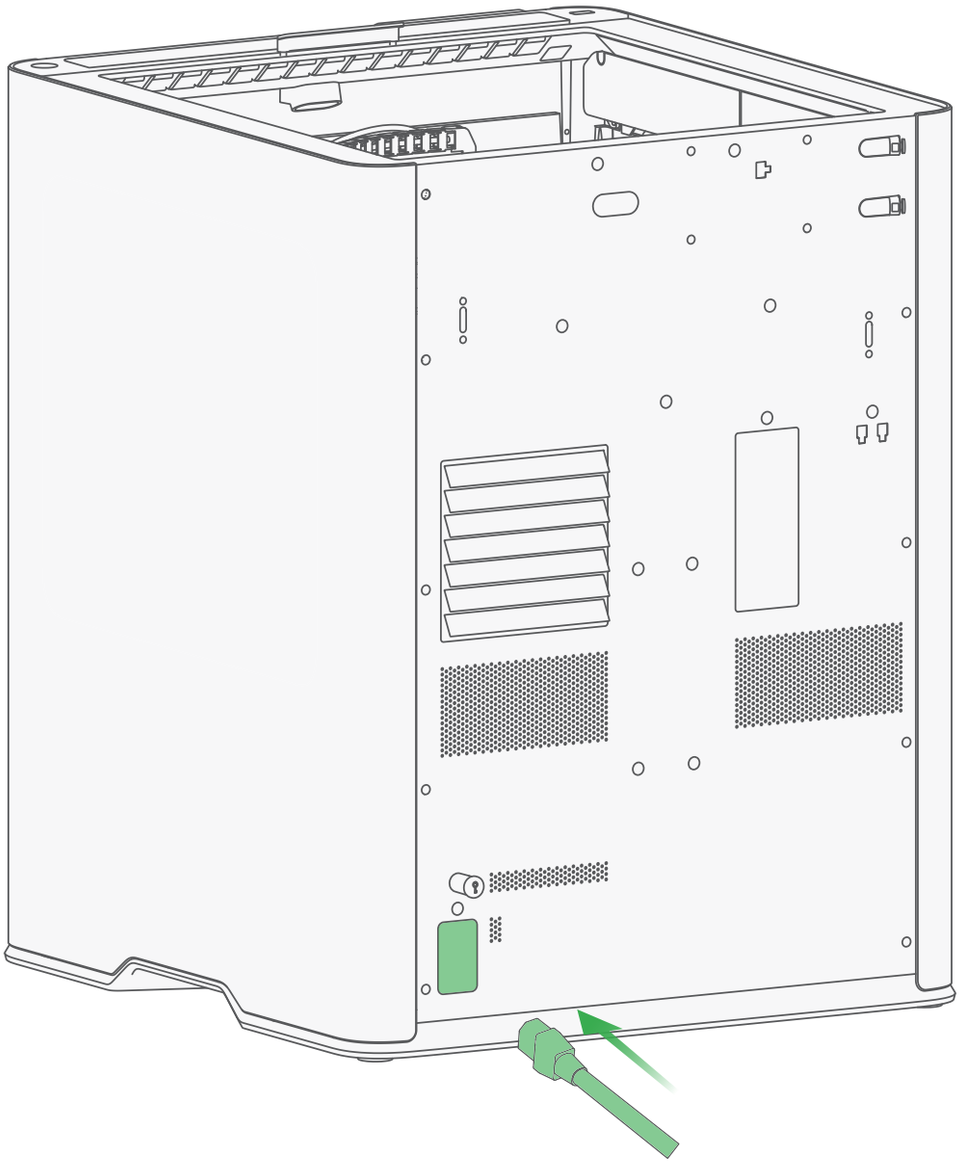
Install the safety key



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

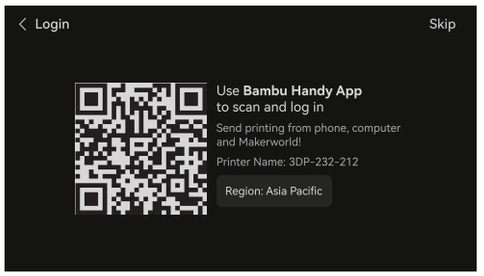


Plug the power cord in the power socket on the back. Then, turn on the power switch.

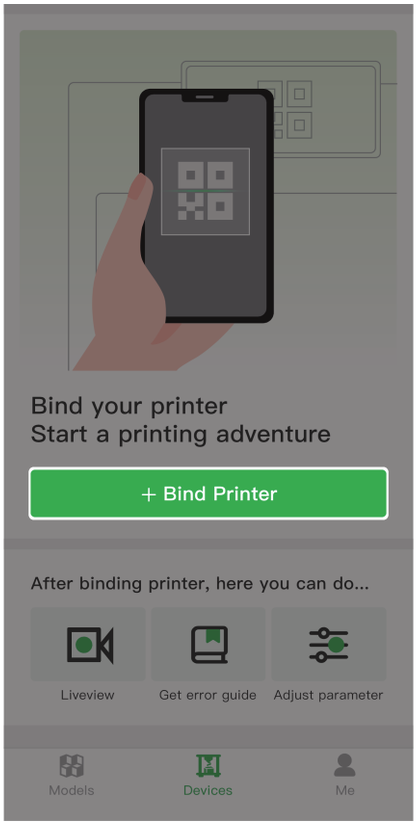
Bind the printer - Bambu Handy

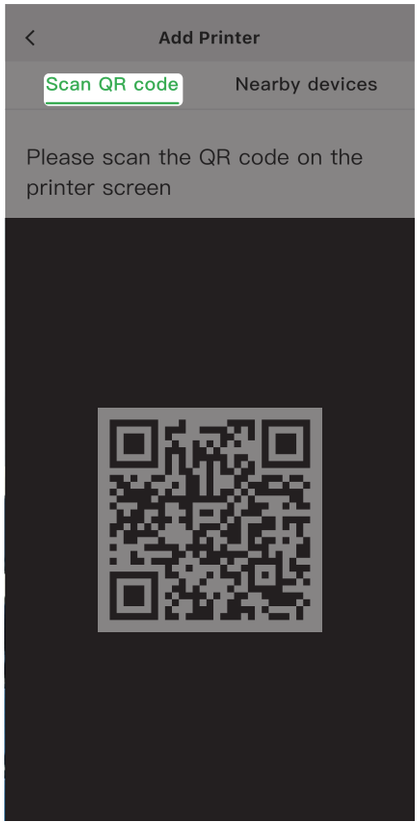
1. Scan the QR code on the right to download Bambu Handy. Register and log in to your Bambu Lab account.

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.

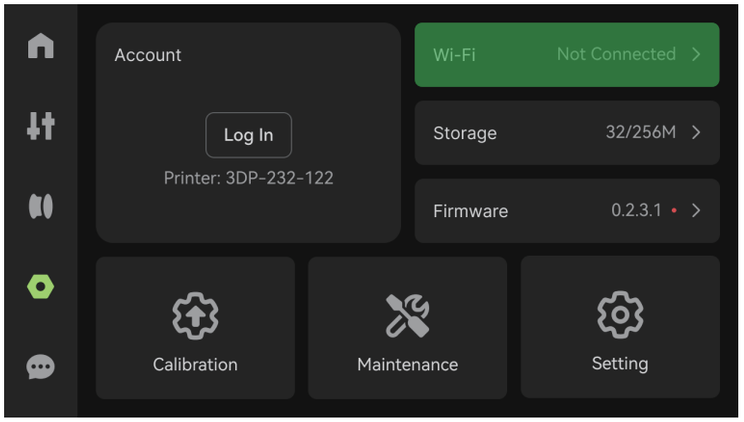




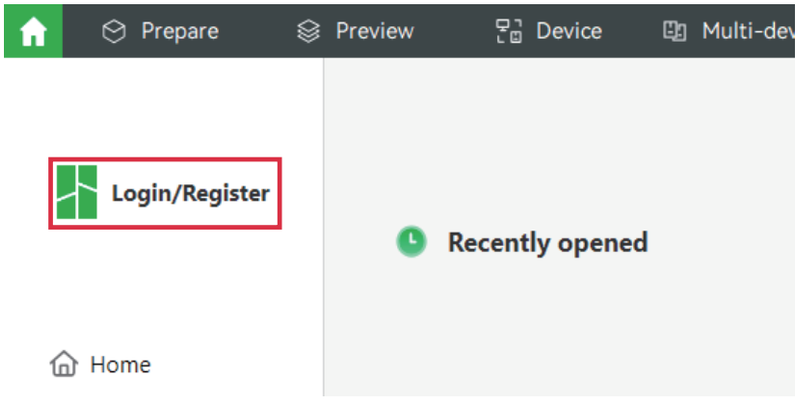
4. Follow the instructions on the screen to complete the initial calibration. It is normal to have vibration and noise during the process.

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

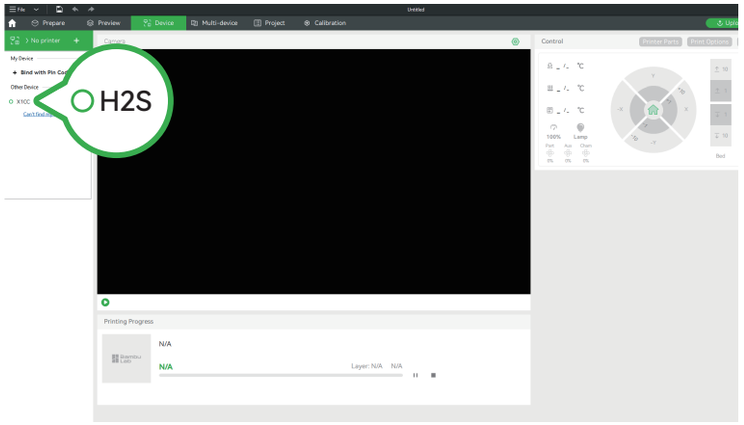
Bind the printer - Bambu Studio



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.

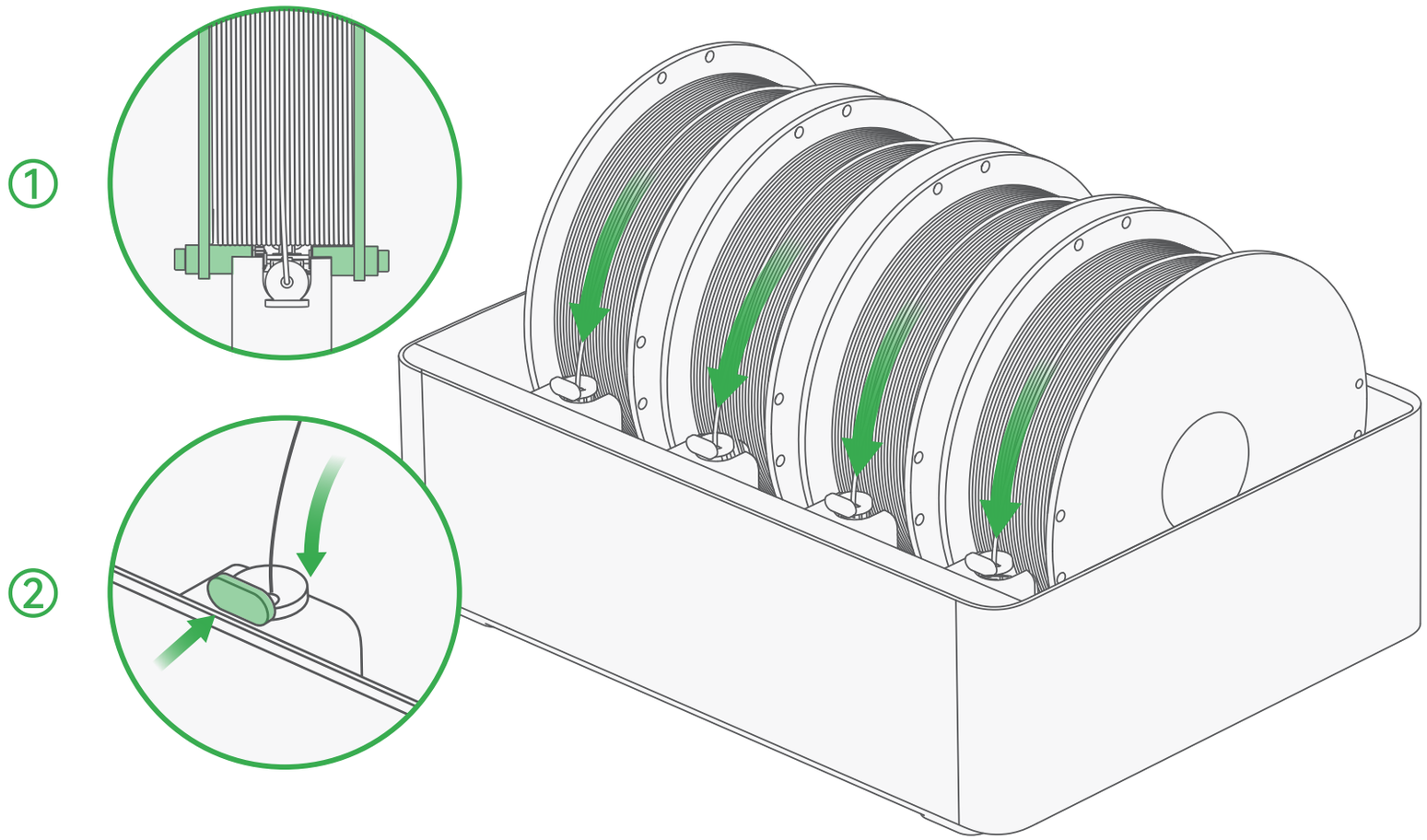


2. Visit the link below to download and install Bambu Studio. Register and log in to your Bambu Lab account.
bambulab.com/download/studio



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.

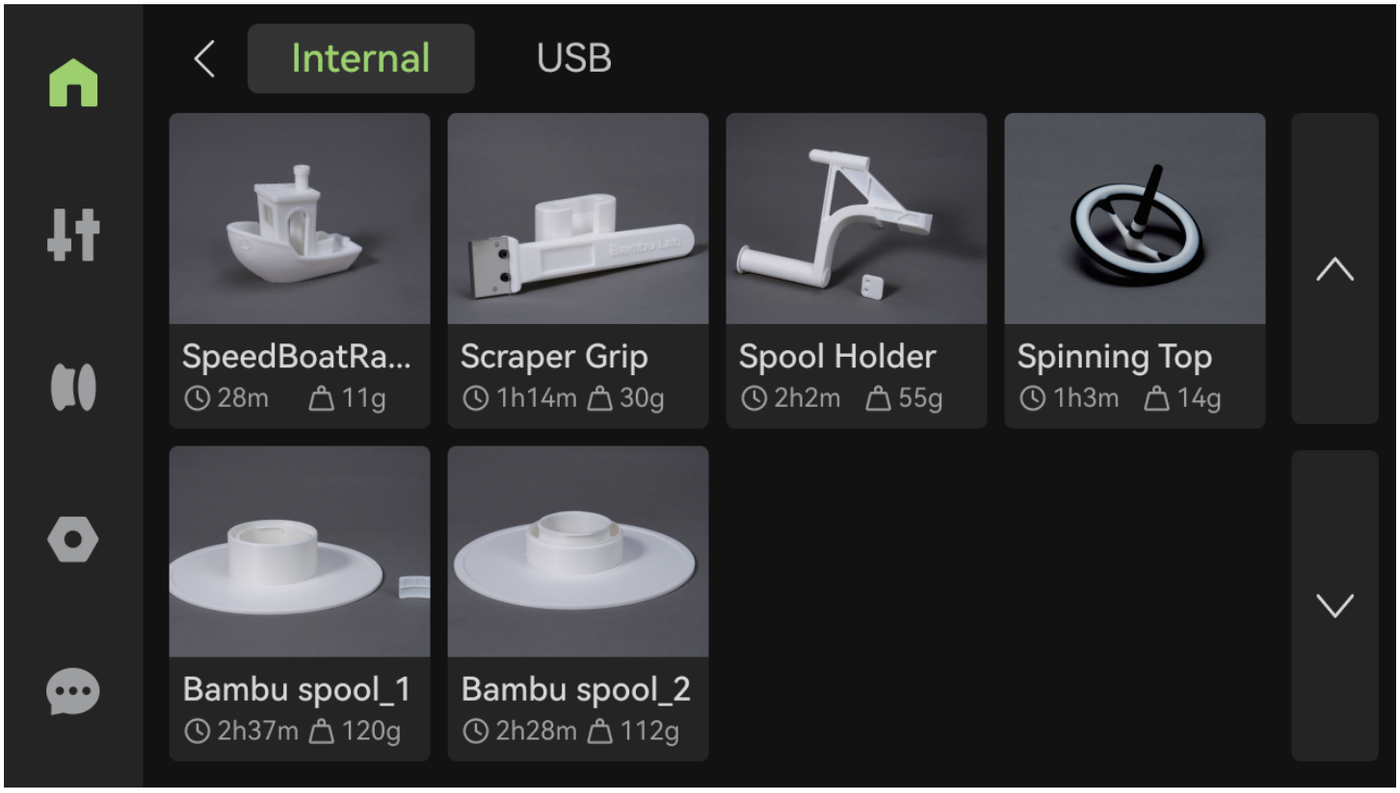
First print with the AMS 2 Pro



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.

③

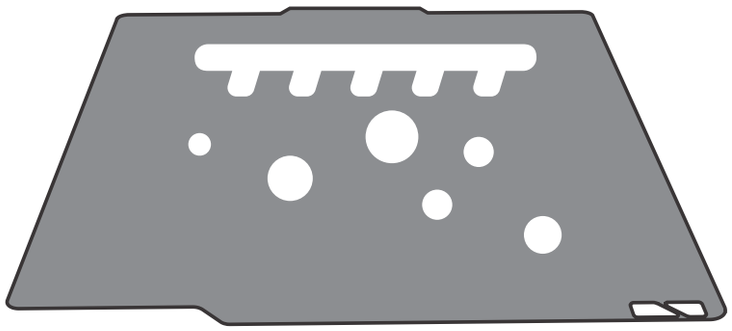


Select  - Print Files, then select a model you wish to print.

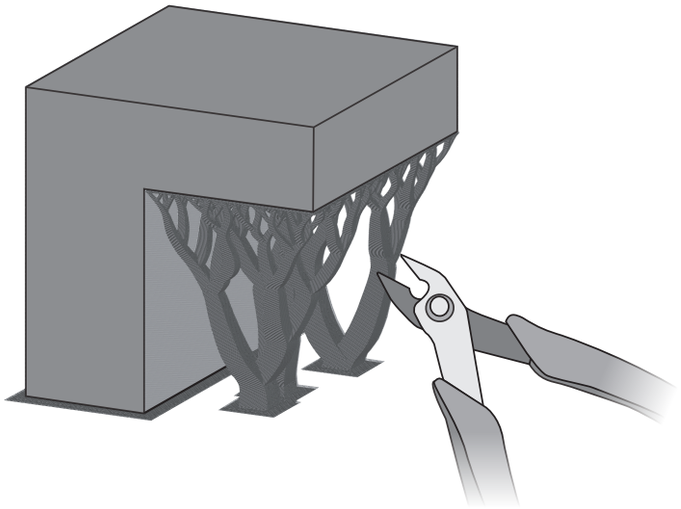
* The textured PEI plate that comes with the printer is sensitive to dirt and oil. If you have touched the surface of the plate with your hands, oils from your hands can transfer to the surface and impact the plate's adhesion properties. It is recommended to wash it with hot water and detergent first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

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.

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)	340*320*340 mm^3
		Chassis	Aluminum and Steel
		Outer Frame	Plastic and Glass
	Physical Dimensions	Physical Dimensions	492*514*626 mm^3
		Net Weight	30.5 kg
	Toolhead	Extruder Gear	Hardened Steel
		Nozzle	Hardened Steel
		Max Nozzle Temperature	350 ℃
		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 ℃
	Speed	Max Speed of Toolhead	1000 mm/s
		Max Acceleration of Toolhead	20,000 mm/s^2
		Max Flow for Hotend (Standard Flow Hotend)	40 mm^3/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 ℃ printing temperature)
	Chamber Temperature Control	Active Chamber Heating	Supported
		Max Temperature	65 ℃
	Air Purification	Pre-filter Grade	G3
		HEPA Filter Grade	H12
		Activated Carbon Filter Type	Granulated Coconut Shell
		VOC Filtration	Superior
		Particulate Matter Filtration	Supported

Specifications

Printer	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
	Filament Supported	PLA, PETG, TPU, PVA, BVOH, ABS, ASA, PC, PA, PET; Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA, PPA, PPS, PPS	
	Sensor	Live View Camera	Built-in; 1920*1080
		BirdsEye Camera	Built-in; 3264*2448
		Toolhead Camera	Built-in; 1600*1200
		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]	2050 W@220 V / 1170 W@110 V
	Working Temperature		10 ℃ -30 ℃
	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
	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.

Specifications

Printer	Software	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
	Wi-Fi	Operating Frequency	2412-2472 MHz (CE/FCC), 2400-2483.5 MHz (SRRC) 5150-5850 MHz
		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
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
	Drying	Highest Temperature	65 ℃
		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

Specifications

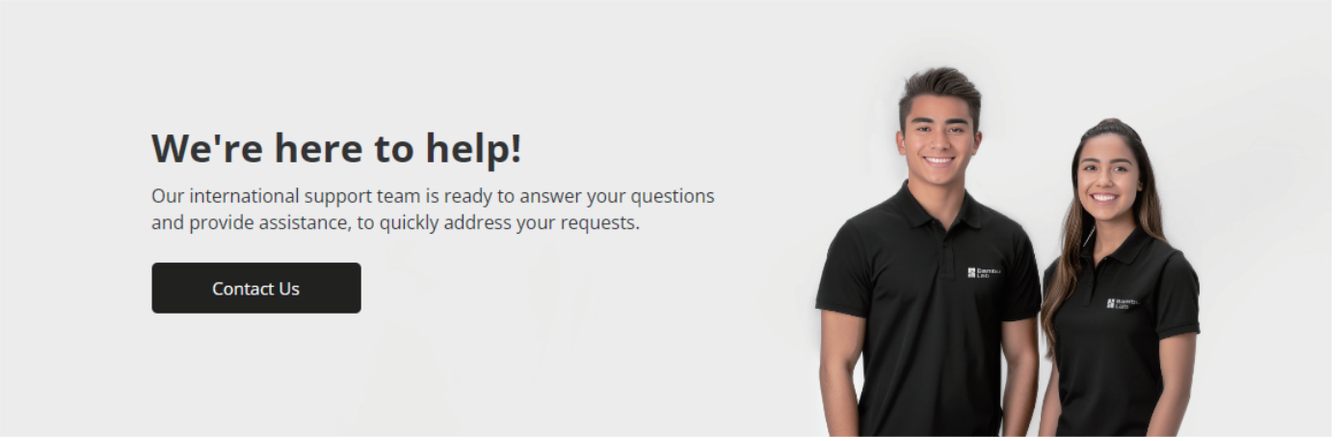
AMS 2 Pro	Drying	Temperature and Humidity Detection and Maintenance	Supported. Real-time temperature and humidity can be displayed on the screen, Bambu Studio, and Bambu Handy.
	Power	Input	24 V 4 A

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 purchasing an AMS HT.

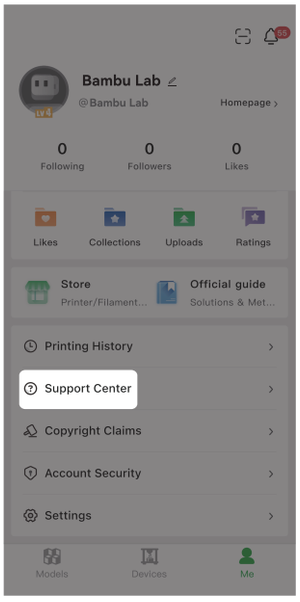
Technical Support

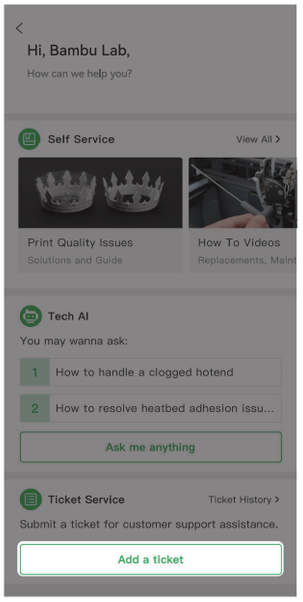
If you need technical support, please follow either of the following methods:

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

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Enjoy!

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