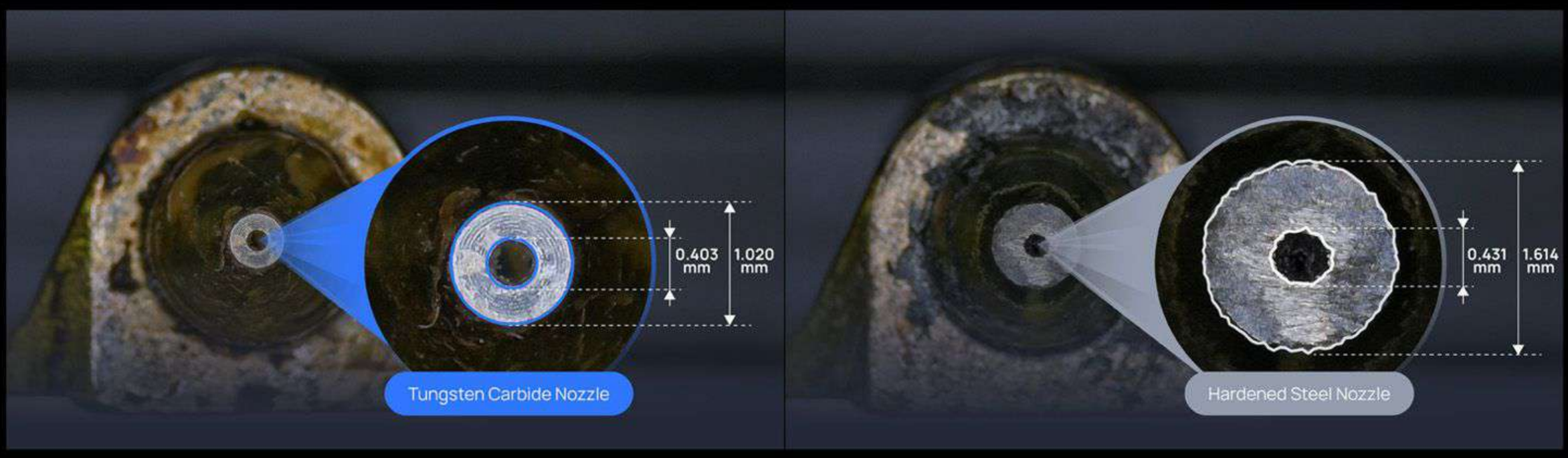
Bambu Lab

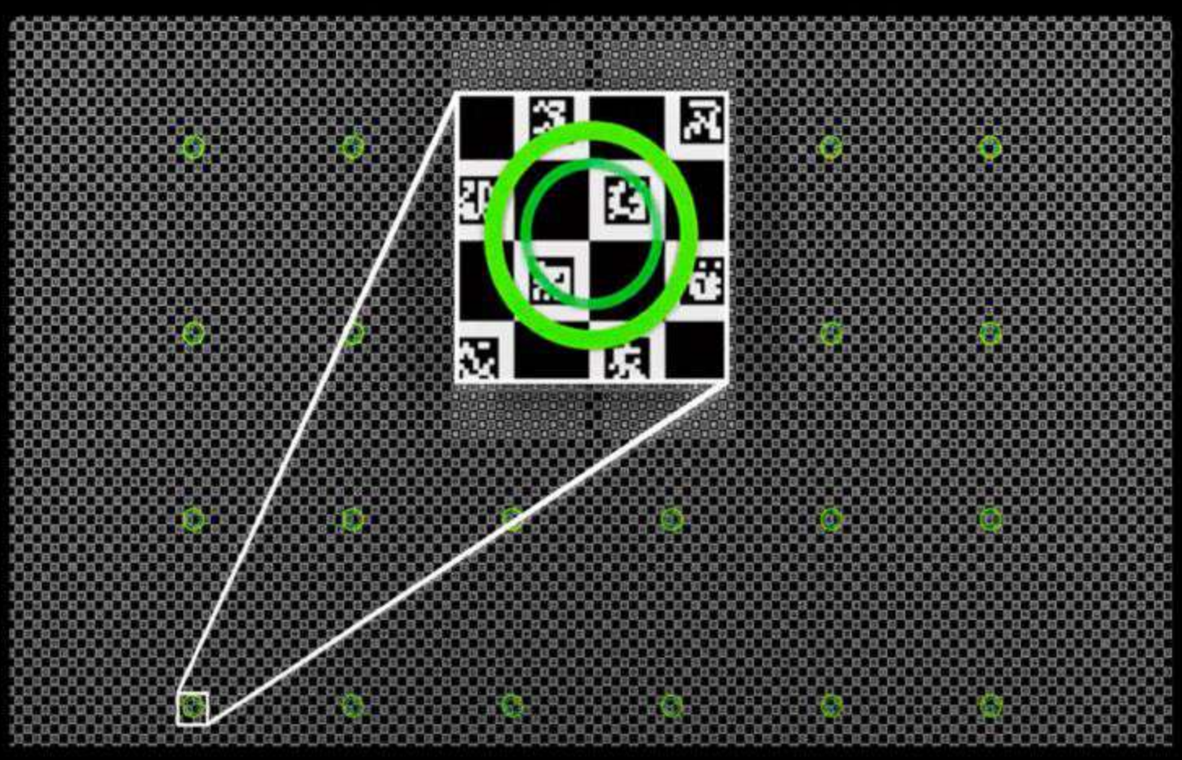
MAPTEC

Professional Dual-Nozzle 3D Printing Solution

Tungsten Carbide Super Durable Nozzle

H2D Pro's tungsten carbide nozzle provides exceptional wear resistance, results in a 50% increase in lifespan when printing abrasive, high-performance fiber-reinforced filaments.



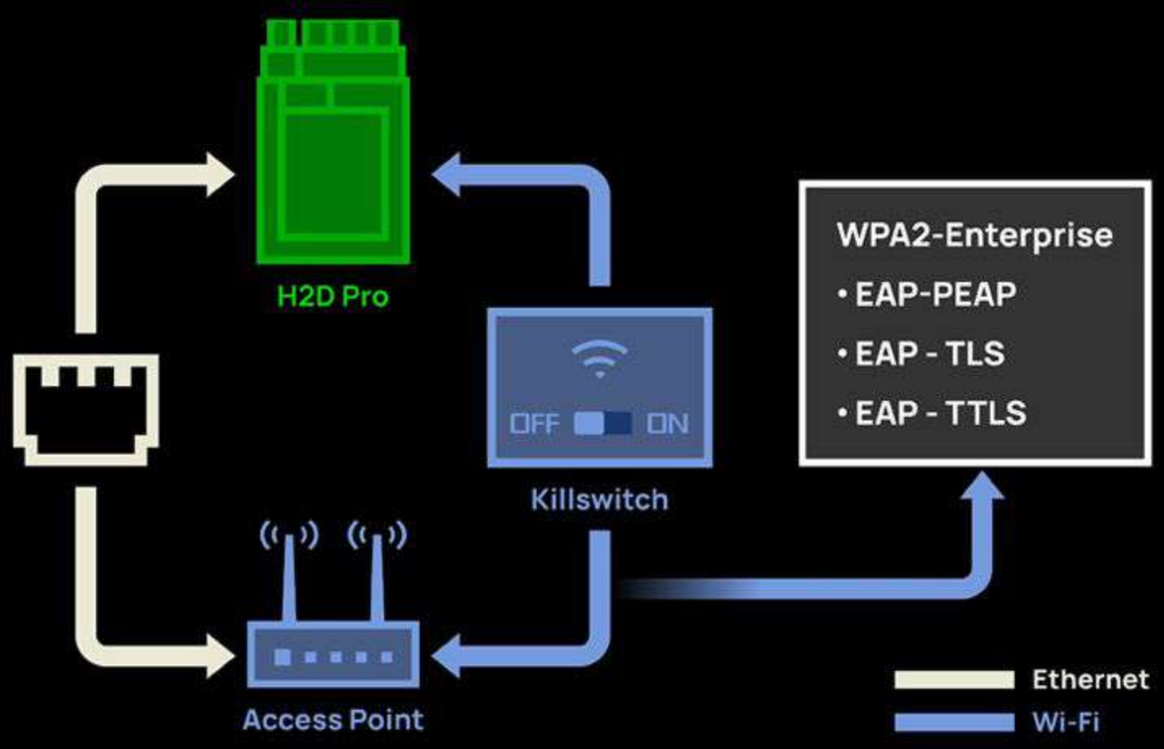


50μm ultra-fine motion accuracy

H2D Pro comes standard with vision encoder plate to calibrate toolhead movement. This advanced system ensures consistent and distance-independent 50μm motion accuracy across the entire buildplate.

Professional Connection Options

The H2D Pro can connect to your devices through Ethernet port or WPA2-Enterprise Wi-Fi Authentication (EAP-PEAP/EAP-TLS/ EAP-TTLS) with individual physical kill switch, meeting stringent network security requirements.



Heavy Duty Air Filtration

H2D Pro's filtration system integrated a G3 pre-filter, an H12 HEPA filter, and a premium coconut shell activated carbon filter. Effectively minimizes excessive odors and particulates.

Multi-Material Printing

Flexible and rigid, low cost and exotic materials in one print

Combine flexible and rigid materials in a single print to create impressive interlocking structures and innovative designs beyond traditional manufacturing. Pairing high-performance materials with standard ones further reduces costs and boosts material efficiency by using premium materials only where necessary.

Dedicated Support Material

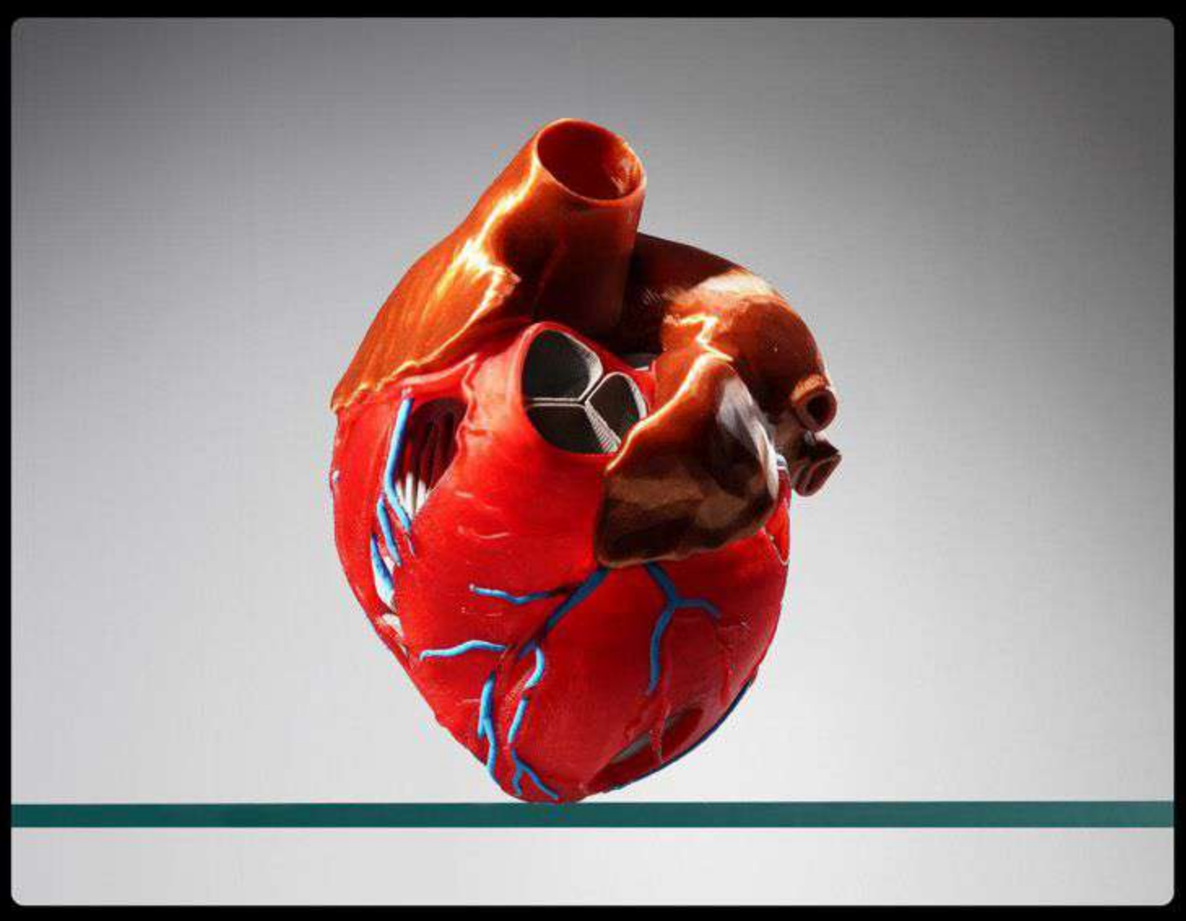
Efficient Support Printing & Perfectly Smooth Interface

Print with support is no longer a headache. With H2D's dual-nozzle setup, one nozzle can be reserved for dedicated support material, allowing secured print and perfect support interface.

Efficient Multi-Color Printing

Fast and efficient multi-color printing

Dual-nozzle printing reduces purge cycles in multi-color prints. H2D's smart algorithms optimize filament use, maximizing dual-nozzle efficiency to save time and materials.



Toolhead Enhanced Cooling Fan

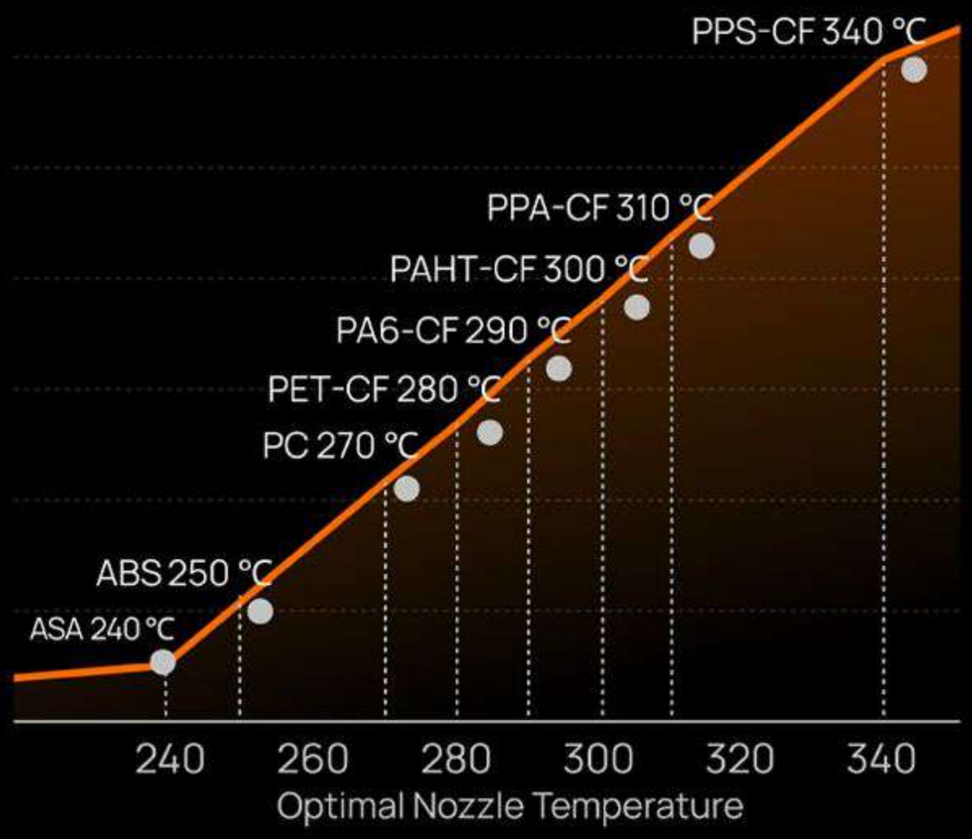
Improving high-temperature reliability

A new high-performance fan integrated into the toolhead front cover effectively cools the extruder and hotend heatsink. This intelligent temperature control mitigates potential clogging and filament jaming in challenging environments, enabling a 5°C increase in the recommended printer operating temperature.

350°C (662°F) High-Temperature Nozzle

Print engineering filaments better

Unlock the full potential of your high-temperature engineering filaments with a 350°C (662°F) nozzle. Experience improved layer bonding when printing demanding materials like PPA-CF, PPS, and PPS-CF at higher temperatures, leading to stronger and more reliable parts.



65°C (149°F) Active Chamber Heating & Cooling

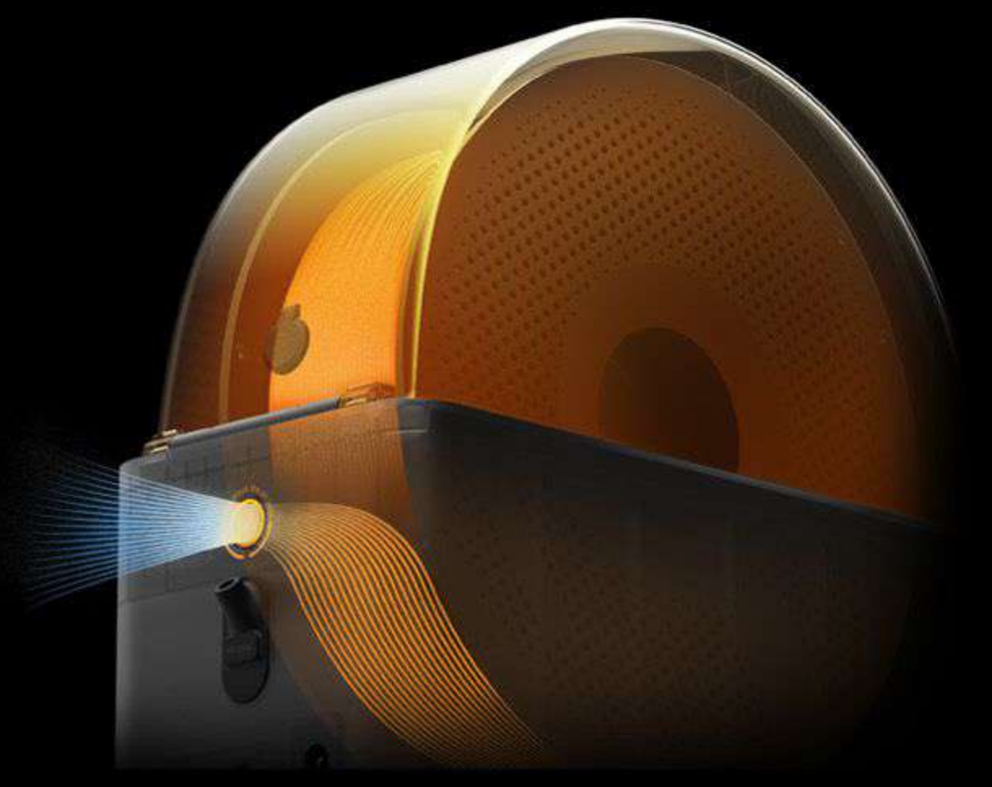
Less failure, stonger prints

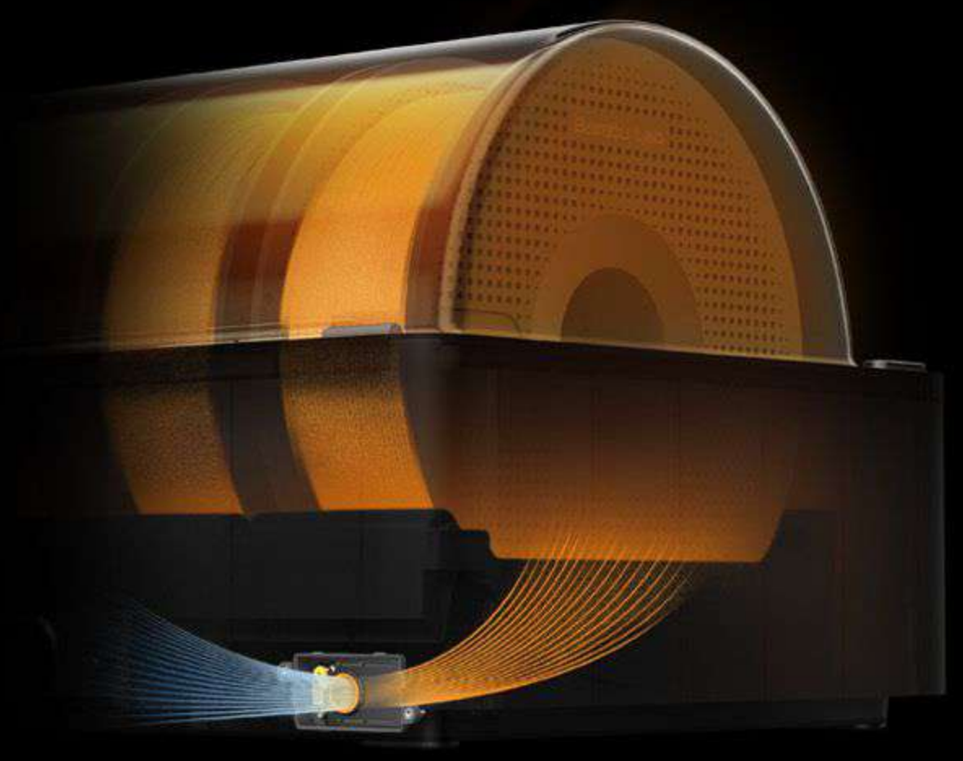
Equipped with a 65°C active chamber heater and adaptive air circulation, the H2D Pro intelligently manages chamber temperature for optimal printing. Active dampers
control internal/external airflow based on filament type, preventing low-temp clogs, reducing high-temp warping, improving layer bonding, and fully leveraging each material's strengths.

2nd-Gen Filament Management System

Auto Air Vent Filament Drying

Automated venting facilitates dehumidification during drying and airtight sealing for weeks of quality printing



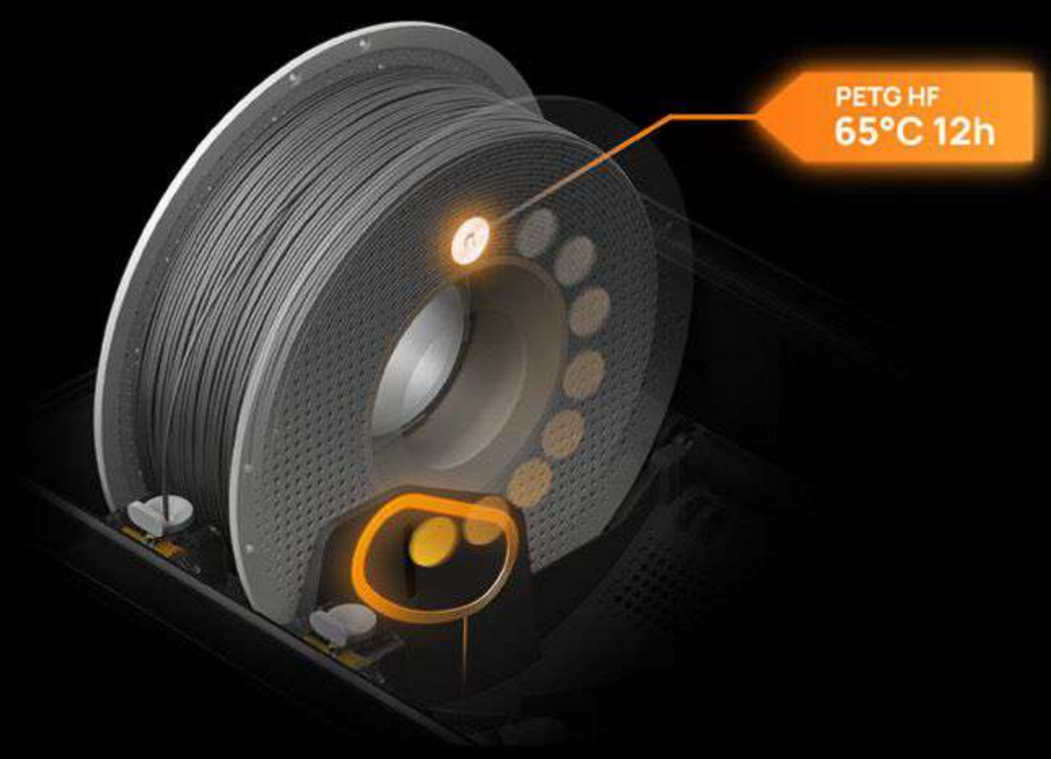


Filament Backup

Your print never stops with automatic spool changing, never worry about running out of filament during your sleep or absence

85°C Max Drying Temperature

AMS HT's 85°C drying temperature optimized for high-temperature materials



RFID Sync

AMS 2 Pro/HT uses RFID to auto-match filament type, color & drying settings for Bambu official filaments, no manual input needed.

Item		Specification
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	Tungsten Carbide
	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 Temperatur 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
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

Item		Specification
Supported Filament Type	PLA, PETG, TPU, PVA, BVOH	Optimal
	ABS, ASA, PC, PA, PET	Superior
	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*	2200 W@220 V / 1320 W@110 V
	Average Power	1050 W@220 V / 1050 W@110 V
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.
	Supported Operating System	MacOS, Windows
Network Control	Ethernet	Yes
	Wireless Network	Wi-Fi
	Network Kill Switch	Yes
	Removable Network Module	Yes
	802.1X Network Access Control	Yes
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.

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