



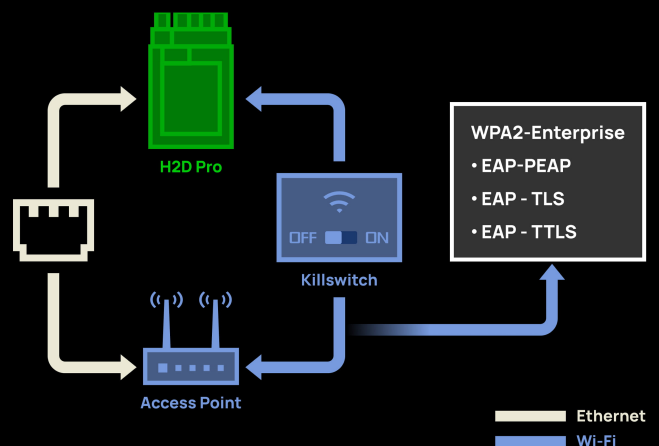
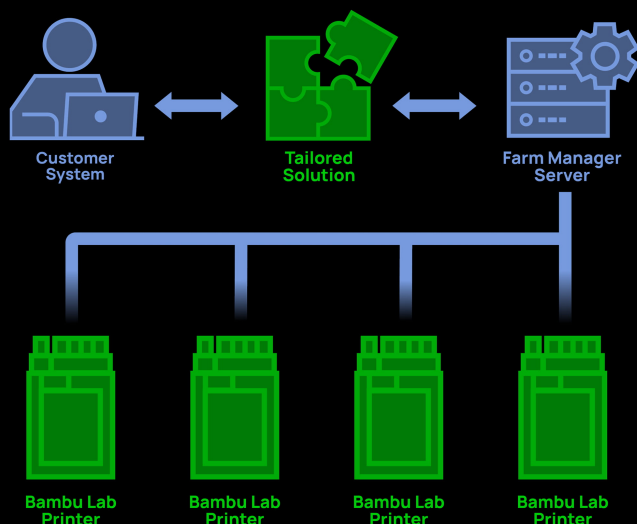
Bambu Lab H2D Pro Professional Dual-Nozzle 3D Printing Solution



Professional Connection Options

Stable Ethernet Connection, WPA2-Enterprise Authentication Wi-Fi Connection

The H2D Pro offers the option to connect to your devices through its newly added Ethernet port, ensuring robust network communication in complex environments. Ethernet connectivity can also be used in crowded wireless signal environments. Additionally, the H2D Pro provides WPA2-Enterprise Wi-Fi Authentication (EAP-PEAP/EAP-TLS/EAP-TTLS) and individual physical kill switches for Wi-Fi, meeting stringent network security requirements.



Tailor Solution For Printer Management

Bambu Lab provides professional support for enterprises to custom-develop efficient printer fleet management tools, meeting their business integration needs. Our expert software R&D team offers full technical assistance to help clients achieve their required customized functionalities. For more details, please contact your local reseller.



Dual-Nozzle, Enhanced Productivity

Multi-Material Printing

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



Dedicated Support Material

Efficient Support Printing & Perfectly Smooth Interface



Efficient Multi-Color Printing

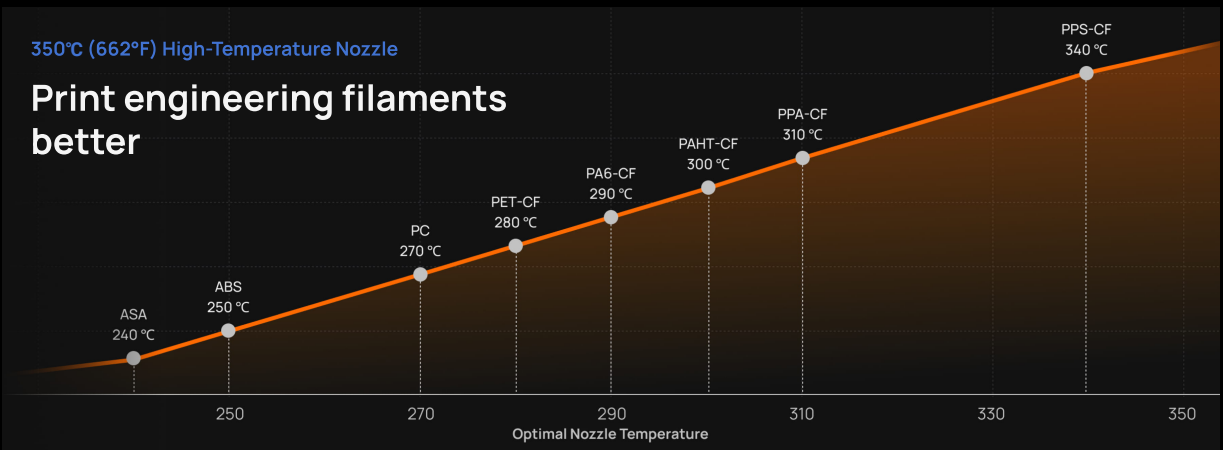
Fast and efficient multi-color printing



Professional High-Temperature Printing Solution

350°C (662°F) High-Temperature Nozzle

Print engineering filaments better



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

Less failure, stronger prints



Toolhead Enhanced Cooling Fan

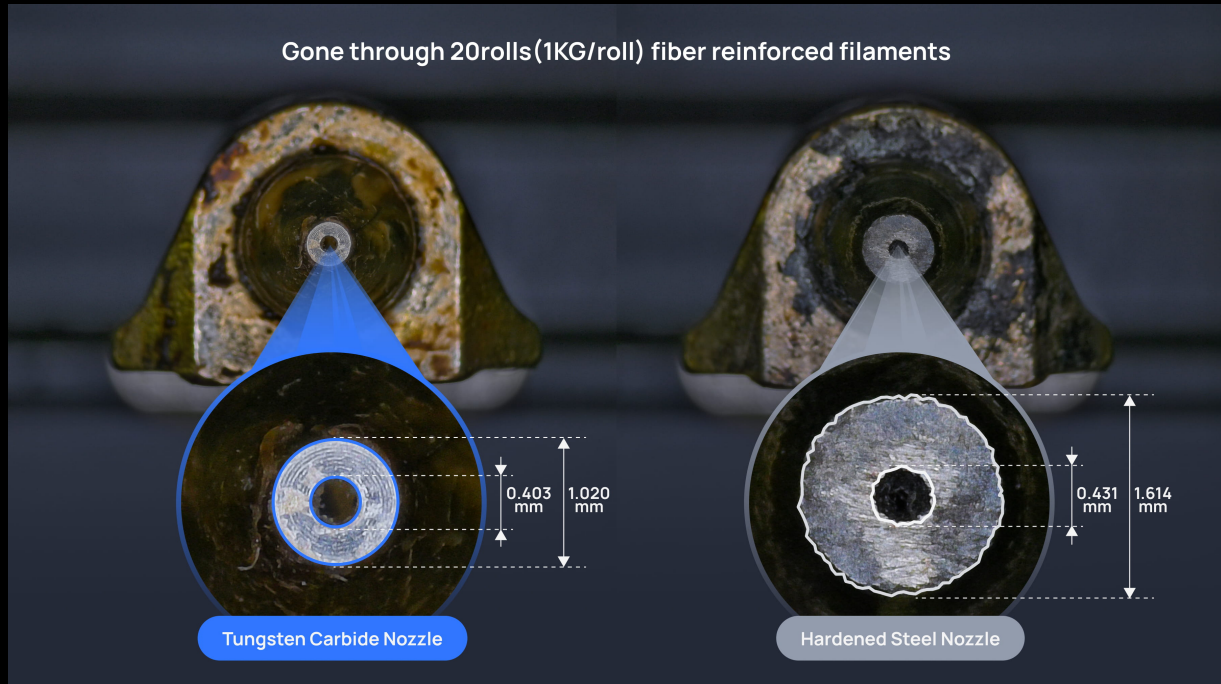
Improving high-temperature reliability



Tungsten Carbide Super Durable Nozzle

HRA 90 Tougher nozzle, lower maintainance

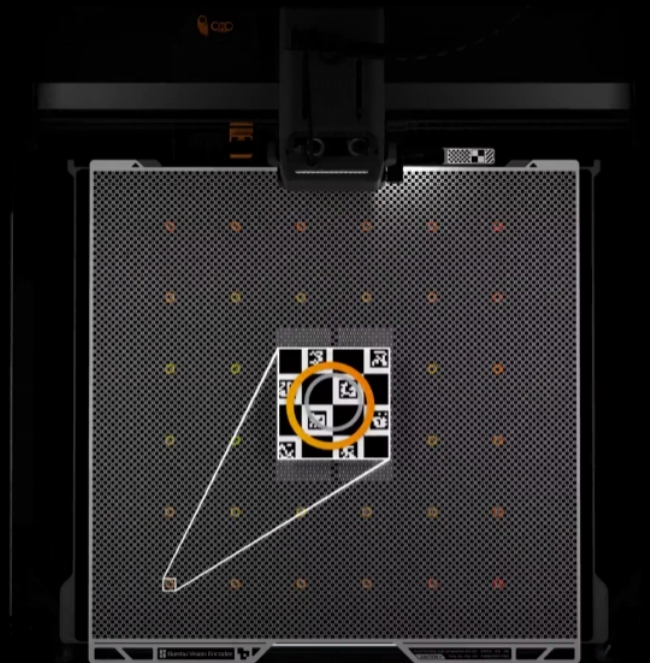
With HRA 90 compared to hardened steel's 74, the H2D Pro's tungsten carbide nozzle provides exceptional wear resistance. This results in a 50% increase in lifespan when printing abrasive, high-performance fiber-reinforced filaments.



Vision Encoder

50μm ultra-fine motion accuracy

The H2D Pro comes standard with an ultra-high precision vision encoder plate, utilizing 5μm resolution optical measurement to calibrate toolhead movement. This advanced system ensures consistent and distance-independent 50μm motion accuracy across the entire build area, lay down strong foundation for producing highly accurate prints.



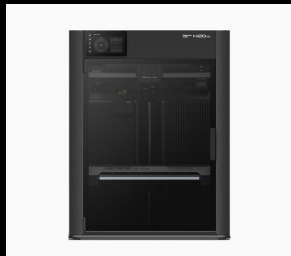
Heavy Duty Air Filtration

Effectively Filter Particulates And VOCs Generated by 3D Printing

For optimal air filtration, we've integrated a G3 pre-filter, an H12 HEPA filter, and a premium coconut shell activated carbon filter. This enhanced system effectively minimizes excessive odors and particulates, particularly beneficial when printing in less ventilated spaces.



What In The Box



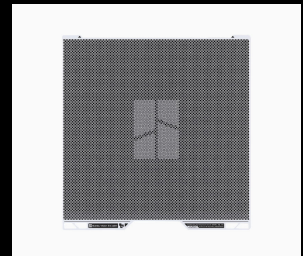
Bambu Lab H2D Pro



Bambu Lab AMS 2 Pro



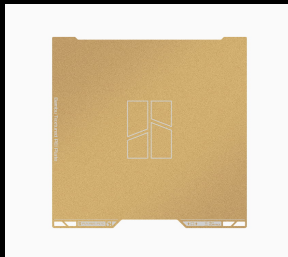
Bambu Lab AMS HT



Vision Encoder Plate



Emergency Stop Button



Textured PEI Build Plate

Bambu Lab H2D Pro - Technical Specifications

Printing Technology

Fused Deposition Modeling

Body

Build Volume (W*D*H)	Single Nozzle Printing: 325mm*320mm*325mm Dual Nozzle Printing: 300mm*320mm*320mm Total Volume for Two Nozzles: 350mm*320mm*320mm
Chassis	Aluminum and Steel
Outer Frame	Plastic and Glass

Physical Dimensions

Physical Dimensions	492mm*514mm*626mm
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
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
HEPA Filter Grade Activated	H12
Carbon Filter Type	Granulated Coconut Shell
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

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 Please purchase the version corresponding to your region's voltage.

Working Temperature

10 °C-30 °C

Electronics

Touchscreen	5-inch 720*1280 Touchscreen
Storage	Built-in 32 GB EMMC and USB Port
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	Available
Wireless Network	Wi-Fi
Network Kill Switch	Wi-Fi
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
Net Weight	2.5 kg
Housing Material	ABS/PC
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

H2D Pro

RFID Identification	Supported
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	SupportedReal-time temperature and humidity can be displayed on the screen ³ , Bambu Studio, and Bambu Handy
Input	24 V 4 A

AMS HT

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.
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
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
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
Sealed Storage	Supported
Top Lid Open Detection	Supported
Temperature, Humidity Detection and Maintenance	Supported. Real-time information can be displayed on the printer screen, AMS HT screen, Bambu Studio, and Bambu Handy
Voltage	DC: 24V 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.

