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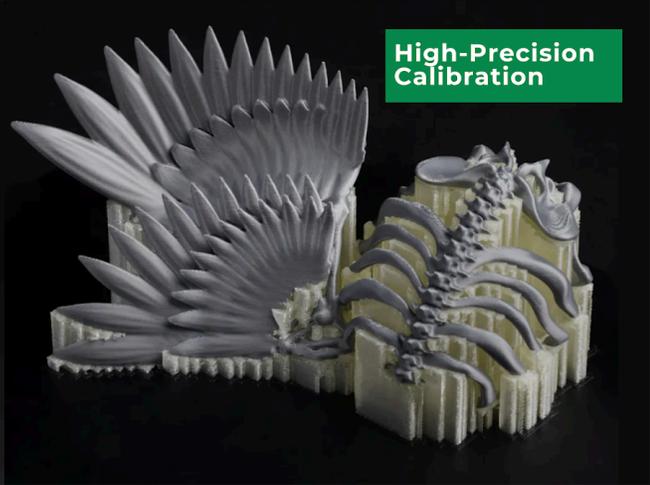


[Bambu Lab \(/s/store?q=Bambu%20Lab\)](#)

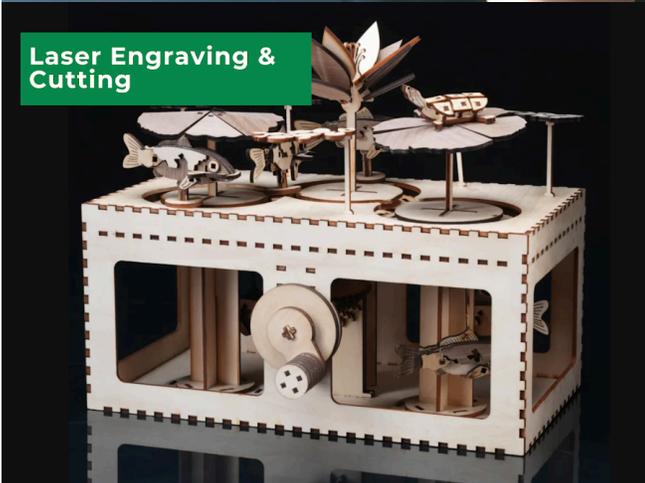
### Bambu Lab H2D



**Dual-Nozzle System**



**High-Precision Calibration**





The Bambu Lab H2D is a personal manufacturing machine with a dual-nozzle system that supports multi-material and multi-color printing up to 350°C. It offers a 350 x 320 x 325 mm<sup>3</sup> build volume, optional 10W or 40W laser modules, and 50µm motion accuracy for precise extrusion and detailed fabrication.

- Create vibrant multi-material prints effortlessly
- Engrave or cut materials with optional laser variant
- Master large projects with high precision

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#### Available Add-ons (10)

- Bambu Lab H2D Extended 2 Year Warranty - 2 Years of Comprehensive Coverage**  
\$299.00
- Bambu Lab H2D Laser Edition Extended 2 Year Warranty - 2 Years of Comprehensive Coverage**  
\$469.00
- Bambu Lab AMS 2 Pro - Automatic Material System**  
~~\$599.00~~ \$549.00

[SHOW MORE ADD-ONS](#)

Product No. M-R2N-Q9PV

Machine Model: **Standard**

**Standard** ▾

Bundle Type: **Basic**

**Basic** ▾

(/about/rewards) Get back **\$55.47** in rewards (/about/rewards).

List Price: ~~\$2,099.00~~

Price: **\$1,849.00**

Availability: **In Stock**

Order Now: **Ships Today**  
 Free U.S. Shipping

*This item cannot be shipped to a PO Box or APO/FPO/DPO address.*

We're open! Call us at [+1 \(800\) 613-4290](tel:+18006134290) (tel:+18006134290).

LOOKING FOR THE BAMBU LAB H2D PRO? [CLICK HERE! \(HTTPS://WWW.MATTERHACKERS.COM/STORE/L/BAMBU-LAB-H2D-PRO-3D-PRINTER/SK/MHYRYQTL\)](https://www.matterhackers.com/store/l/bambu-lab-h2d-pro-3d-printer/sk/mhyryqtl)

**Jump To:**

[• Description \(#description\)](#) [• Features \(#features\)](#) [• What's Included \(#included\)](#) [• Comparison \(#c](#)

## BAMBU LAB H2D

### REVOLUTIONIZING PERSONAL MANUFACTURING

The Bambu Lab H2D 3D Printer combines cutting-edge technology with versatile functionality, making it a standout choice for both hobbyists and professionals.

**Key Features of the Bambu Lab H2D:**

- Dual-nozzle system for multi-material and multi-color 3D printing
- Optional 10W/40W laser modules for engraving and cutting
- Large print volume of 350 x 320 x 325 mm<sup>3</sup> for ambitious projects
- High-precision optical motion calibration with 50µm motion accuracy
- Advanced monitoring systems for precise extrusion and filament control





## DUAL-NOZZLE PRINTING

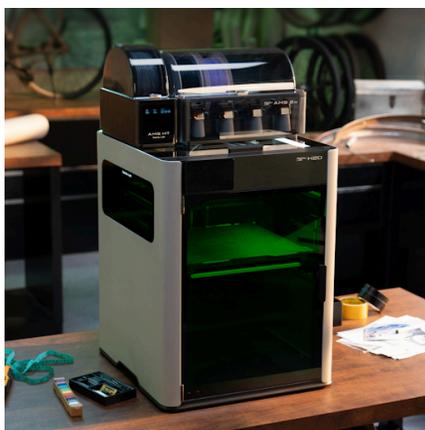
Experience seamless multi-material and multi-color prints with the H2D's innovative dual-nozzle system, capable of reaching temperatures up to 350°C.

- High-temperature capability for diverse materials
- Multi-material versatility in a single print
- Enhanced creativity with color options

## LASER ENGRAVING OPTIONS

Expand your creative possibilities with optional **10W and 40W** laser modules for precise engraving and cutting.

- Supports various materials including wood
- Precision engraving for intricate designs
- Robust cutting for thicker materials
- Note that the 10W and 40W Laser Modules are each packaged separately and as a result may ship separately.



## EXPANSIVE PRINT VOLUME

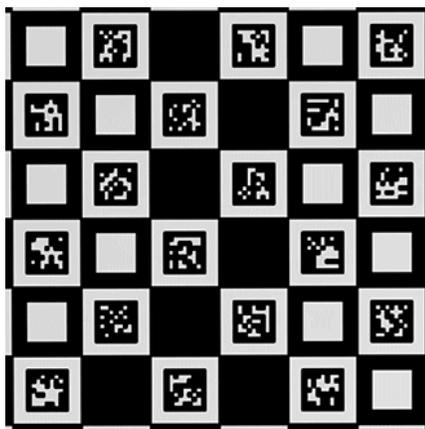
Tackle ambitious projects with ease, thanks to a generous print volume of **350 x 320 x 325 mm<sup>3</sup>**.

- Large build area for big projects
- Freedom from size constraints in printing
- Ideal for bringing big ideas to life

## HIGH-PRECISION CALIBRATION

Achieve exceptional accuracy with **50µm ultra-fine** motion accuracy for flawless results.

- Consistent quality across all projects
- Exceptional accuracy for detailed work
- Flawless results with every print
- Combine with [Vision Encoder](https://www.matterhackers.com/store/l/bambu-lab-h2d-vision-encoder-calibration-tool/sk/M8YSJDZR) (<https://www.matterhackers.com/store/l/bambu-lab-h2d-vision-encoder-calibration-tool/sk/M8YSJDZR>) (sold separately), which features 5µm resolution optical measurements to achieve



50µm motion accuracy across the entire workspace



### SMART MONITORING SYSTEMS

Ensure perfect prints every time with advanced systems that monitor extrusion and filament control.

- Real-time issue detection and correction
- Peace of mind with reliable printing
- Exceptional quality maintained consistently

### WHAT'S INCLUDED WITH THE BAMBU H2D?

	H2D	H2D AMS Combo	H2D Full Laser Combo
<b>H2D</b> 	✓	✓	–
<b>H2D (Laser Edition)</b> 	–	–	✓
<b>Build Plate</b> 	✓	✓	✓
<b>Spool Holder</b> 	✓	✓	✓
<b>Accessory Box</b> 	✓	✓	✓
<b>AMS 2 Pro</b> 	–	✓	✓
<b>10W Laser Module</b> 	–	–	Depends on Laser Full Combo selection
<b>40W Laser Module</b> 	–	–	Depends on Laser Full Combo selection
<b>Cutting Module (with Pen Holder)</b> 	–	–	✓
<b>Laser Platform</b> 	–	–	✓

<b>Cutting Platform</b> 	-	-	✓
<b>Safety Key</b> 	✓	✓	✓
<b>Ventilation Pipe</b> 	-	-	✓
<b>Laser &amp; Cutting Materials</b> 	-	-	✓
<b>Emergency Stop Button</b> 	-	-	✓

### WHAT'S INCLUDED IN THE BUNDLES?

In addition to the model you've chosen above, the bundles contain the following:

Start your 3D printing journey smoothly with 1-hour of direct virtual access to an expert at MatterHackers.

**INCLUDED**

1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance \(https://www.matterhackers.com/store//matterhac](https://www.matterhackers.com/store//matterhac)

Try MatterHackers' line of professional 3D printer filament in PLA, Tough PLA, PETG, and ABS.

MatterHackers' PRO Series is known for its tight tolerances, enormous breadth of hues, and reliable color consistency. Produce prints that put the "pro" in professional.

**INCLUDED**

- 1 × [PRO Series PLA \(1kg\)](https://www.matterhackers.com/store/l/pro-series-pla/sk/MY6C8H7E) <sup>1</sup>
- 1 × [PRO Series Tough PLA \(1kg\)](https://www.matterhackers.com/store/l/pro-series-tough-pla-filament/s) <sup>1</sup>
- 1 × [PRO Series PETG \(1kg\)](https://www.matterhackers.com/store/l/pro-series-petg/sk/MGTE765N) <sup>1</sup>
- 1 × [PRO Series ABS \(1kg\)](https://www.matterhackers.com/store/l/pro-series-abs/sk/M6A3VYQ9) <sup>1</sup>

If purchasing the H2D variant **WITH an AMS 2 Pro**, the [Hydra 2 AMS Spool Adapter](https://www.matterhackers.com/store/l/hydra-2-ams-spool-adapter/sk/MH2AMS) <sup>1</sup> enable wider spool compatibility with third-party filaments.

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Jump right into 3D printing with two types of materials from ThriftyMake, the affordable filament engineered to make FDM 3D printing accessible. PLA+ is the go-to filament for a beginner-friendly start and everyday use. PETG, the more durable material of the two, offers a balance of beginner-friendly printing with just enough of a challenge to enhance your 3D printing skills.

MatterHackers has your back with extended protection on your machine for peace of mind.

**INCLUDED**

- 1 × [Extended Warranty](https://www.matterhackers.com/store/l/bambu-lab-h2d-extended-2-year-warranty) <sup>1</sup>
- 2 × [ThriftyMake PLA+ \(1kg\)](https://www.matterhackers.com/store/l/thriftymake-pla-filament-1.75mm/sk) <sup>1</sup>
- 2 × [ThriftyMake PETG \(1kg\)](https://www.matterhackers.com/store/l/thriftymake-petg-filament-1.75mm-1) <sup>1</sup>

If purchasing the H2D variant **WITH an AMS 2 Pro**, the [Hydra 2 AMS Spool Adapter](https://www.matterhackers.com/store/l/hydra-2-ams-spool-adapter/sk/MH2AMS) <sup>1</sup> enable wider spool compatibility with third-party filaments.

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Includes a tool kit, spare accessories that keep downtime minimal, and four spools of MH Build PLA.

MatterHackers' MH Build filament balances quality, variety, and affordability.

MatterHackers has your back with a 1-hr virtual assistance video call setup and extended protection on your machine for peace of mind.

**INCLUDED**

- 1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance](https://www.matterhackers.com/store/l/matterhackers-1-hr-launchpad-expert-virtual-set-up-assistance) <sup>1</sup>
- 1 × [Extended Warranty](https://www.matterhackers.com/store/l/bambu-lab-h2d-extended-2-year-warranty) <sup>1</sup>

- 1 × [Bambu Lab Smooth PEI Build Plate for H2D](https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6) (<https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6>)
- 1 × [MatterHackers FDM Premium Tool Kit](https://www.matterhackers.com/store//matterhackers-3d-printer) (<https://www.matterhackers.com/store//matterhackers-3d-printer>)
- 2 × Bambu 0.4mm Hardened Steel Hotend for H2D
- 4 × [MH Build PLA \(1kg\)](https://www.matterhackers.com/store//175mm-pla-filament-black-1kg/sk/MY6) (<https://www.matterhackers.com/store//175mm-pla-filament-black-1kg/sk/MY6>)

If purchasing the H2D variant **WITH an AMS 2 Pro**, the [Hydra 2 AMS Spool Adapter](https://www.matterhackers.com/store//hydra-2-ams-spool-adapter) (<https://www.matterhackers.com/store//hydra-2-ams-spool-adapter>) enable wider spool compatibility with third-party filaments.

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Includes a variety of hotends and plates to cover a diverse range of printing needs. Print fine with the 0.2 hotend, a balance of fine and fast with the 0.4 hotend, 0.6 hotend for composites 0.8 for fast, strong parts. Texture and smooth build plates offer alternate first-layer texture of prints. The Vision Encoder Tool ensures highly accurate prints every time.

MatterHackers has your back with extended protection on your machine for peace of mind.

#### INCLUDED

- 1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance](https://www.matterhackers.com/store//1-hr-launchpad-expert-virtual-set-up-assistance) (<https://www.matterhackers.com/store//1-hr-launchpad-expert-virtual-set-up-assistance>)
- 1 × [Extended Warranty](https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty) (<https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty>)
- 1 × [Bambu Lab Smooth PEI Build Plate for H2D](https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6) (<https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6>)
- 1 × [Bambu Lab H2D Vision Encoder Calibration Tool](https://www.matterhackers.com/store//bambu-lab-h2d-vision-encoder-calibration-tool) (<https://www.matterhackers.com/store//bambu-lab-h2d-vision-encoder-calibration-tool>)
- 1 × [Bambu Lab Textured PEI Build Plate for H2D](https://www.matterhackers.com/store//bambu-lab-build-plate-textured-pe1-175mm-pla-filament-black-1kg/sk/MY6) (<https://www.matterhackers.com/store//bambu-lab-build-plate-textured-pe1-175mm-pla-filament-black-1kg/sk/MY6>)
- 2 × Bambu 0.2mm Stainless Steel Hotend for H2D
- 2 × [Bambu 0.4mm HF Hotend for H2D](https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6) (<https://www.matterhackers.com/store//bambu-lab-build-plate-smooth-pe1-175mm-pla-filament-black-1kg/sk/MY6>)
- 2 × Bambu 0.6mm Hardened Steel Hotend for H2D
- 2 × Bambu 0.8mm Hardened Steel Hotend for H2D

If purchasing the H2D variant **WITH an AMS 2 Pro**, the [Hydra 2 AMS Spool Adapter](https://www.matterhackers.com/store//hydra-2-ams-spool-adapter) (<https://www.matterhackers.com/store//hydra-2-ams-spool-adapter>) enable wider spool compatibility with third-party filaments.

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Be twice as efficient with two high-flow hotends, additional build plates, and a dedicated material feeder for each print head. By including an additional material system, your H2D's 2nd print head can simply pull from the second AMS system rather than having to go through the tedious process of unloading the current filament and switching to a new one (when printing with more than two spools for a single print job). This ensures a more efficient and reliable extrusion operation.

MatterHackers has your back with a 1-hr virtual assistance video call setup and extended protection

on your machine for peace of mind.

#### INCLUDED

- 1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance \(https://www.matterhackers.com/store//matterhac](https://www.matterhackers.com/store//matterhac)
- 1 × [Extended Warranty \(https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty](https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty)
- 1 × [Bambu Lab Smooth PEI Build Plate for H2D \(https://www.matterhackers.com/store//bambu-lab-build](https://www.matterhackers.com/store//bambu-lab-build)
- 1 × [Bambu Lab Textured PEI Build Plate for H2D \(https://www.matterhackers.com/store//bambu-lab-build](https://www.matterhackers.com/store//bambu-lab-build)
- 1 × [Bambu Lab Vision Encoder Tool \(https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor](https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor)
- 2 × [Bambu 0.4mm HF Hotend for H2D \(https://www.matterhackers.com/store//bambu-lab-h2d-high-flow](https://www.matterhackers.com/store//bambu-lab-h2d-high-flow)
- 1 × [Bus Cable - 4pin \(https://www.matterhackers.com/store//bambu-lab-bus-cable\)](https://www.matterhackers.com/store//bambu-lab-bus-cable)
- 1 × [PTFE Tube 4000mm \(https://www.matterhackers.com/store//bambu-lab-ptfe-tubes\)](https://www.matterhackers.com/store//bambu-lab-ptfe-tubes)

If purchasing the H2D variant **WITHOUT** an **AMS 2 Pro**, the [AMS HT \(https://www.matterhackers.com/sto](https://www.matterhackers.com/sto)  
[4-in-1 Adapter \(https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D\)](https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D), 2  
 are included.

Includes all essential materials and accessories for successful carbon-fiber nylon 3D printing, along with an additional material system to enable dedicated filament feeding for each print head, ensuring efficient and reliable operation.

Carbon-fiber nylon is a popular go-to material for sturdy, functional prototypes and even end-use parts.

MatterHackers has your back with a 1-hr virtual assistance video call setup and extended protection on your machine for peace of mind.

If selecting the printer configuration that comes with an AMS 2 Pro, a Hydra AMS 2 Pro spool adapter is included to enable wider spool compatibility with third-party filament.

#### INCLUDED

- 1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance \(https://www.matterhackers.com/store//matterhac](https://www.matterhackers.com/store//matterhac)
- 1 × [Extended Warranty \(https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty](https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty)
- 1 × [Bambu Lab Vision Encoder Tool \(https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor](https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor)
- 2 × Bambu 0.6mm Hardened Steel Hotend for H2D
- 1 × [PrintDry Pro 3 Filament Dryer \(https://www.matterhackers.com/store//printdry-pro-3-filament-drying-s](https://www.matterhackers.com/store//printdry-pro-3-filament-drying-s)
- 1 × [5-Pack PrintDry Filament Storage Containers \(https://www.matterhackers.com/store//printdry-filame](https://www.matterhackers.com/store//printdry-filame)
- 3 × [NylonX PA-12 CF \(0.5kg\) \(https://www.matterhackers.com/store//nylonx-carbon-fiber-nylon-filament-](https://www.matterhackers.com/store//nylonx-carbon-fiber-nylon-filament-)
- 1 × [MH Build PVA \(1kg\) \(https://www.matterhackers.com/store//pva-filament-175mm-1kg/sk/M582X02](https://www.matterhackers.com/store//pva-filament-175mm-1kg/sk/M582X02)
- 1 × [Vision Miner 50mL \(https://www.matterhackers.com/store//vision-miner-nano-polymer-adhesive/sk/](https://www.matterhackers.com/store//vision-miner-nano-polymer-adhesive/sk/)
- 1 × [Bus Cable - 4pin \(https://www.matterhackers.com/store//bambu-lab-bus-cable\)](https://www.matterhackers.com/store//bambu-lab-bus-cable)
- 1 × [PTFE Tube 4000mm \(https://www.matterhackers.com/store//bambu-lab-ptfe-tubes\)](https://www.matterhackers.com/store//bambu-lab-ptfe-tubes)

If purchasing the H2D variant **WITHOUT** an **AMS 2 Pro**, the [AMS HT \(https://www.matterhackers.com/sto](https://www.matterhackers.com/sto)  
[4-in-1 Adapter \(https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D\)](https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D), 2  
 are included.

Includes all 3D printing accessories available for the Bambu Lab H2D as well as a set of consumables ready to use for your next maintenance checkpoint. Accessories for increasing success with moisture-sensitive materials (i.e. nylon, PVA, ABS, ASA, etc.) are also included.

An additional material system is included to enable dedicated filament feeding for each print head, ensuring efficient and reliable operation.

MatterHackers has your back with a 1-hr virtual assistance video call setup and extended protection on your machine for peace of mind.

#### INCLUDED

- 1 × [1-Hr Launchpad Expert Virtual Set-Up Assistance \(https://www.matterhackers.com/store//matterhac](https://www.matterhackers.com/store//matterhac)
- 1 × [Extended Warranty \(https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty](https://www.matterhackers.com/store//bambu-lab-h2d-extended-2-year-warranty)
- 1 × [Bambu Lab Vision Encoder Tool \(https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor](https://www.matterhackers.com/store//bambu-lab-h2d-vision-encor)
- 1 × [Bambu Lab Smooth PEI Build Plate for H2D \(https://www.matterhackers.com/store//bambu-lab-build](https://www.matterhackers.com/store//bambu-lab-build)
- 1 × [Bambu Lab Textured PEI Build Plate for H2D \(https://www.matterhackers.com/store//bambu-lab-buil](https://www.matterhackers.com/store//bambu-lab-buil)
- 2 × Bambu 0.2mm Stainless Steel Hotend for H2D
- 2 × Bambu 0.4mm Hardened Steel Hotend for H2D
- 2 × [Bambu 0.4mm HF Hotend for H2D \(https://www.matterhackers.com/store//bambu-lab-h2d-high-flow](https://www.matterhackers.com/store//bambu-lab-h2d-high-flow)
- 2 × Bambu 0.6mm Hardened Steel Hotend for H2D
- 2 × Bambu 0.8mm Hardened Steel Hotend for H2D
- 1 × Set of Bambu Lab Consumables
  - 6 × Silicone Sock
  - 3 × Replacement Filament Cutter
  - 1 × Air Filter
  - 1 × Purge Wiper
- 1 × [PrintDry Pro 3 Filament Dryer \(https://www.matterhackers.com/store//printdry-pro-3-filament-drying-s](https://www.matterhackers.com/store//printdry-pro-3-filament-drying-s)
- 1 × [5-Pack PrintDry Filament Storage Containers \(https://www.matterhackers.com/store//printdry-filamei](https://www.matterhackers.com/store//printdry-filamei)
- 1 × [Vision Miner 120mL \(https://www.matterhackers.com/store//vision-miner-nano-polymer-adhesive/sk](https://www.matterhackers.com/store//vision-miner-nano-polymer-adhesive/sk)
- 1 × [Bus Cable - 4pin \(https://www.matterhackers.com/store//bambu-lab-bus-cable\)](https://www.matterhackers.com/store//bambu-lab-bus-cable)
- 1 × [PTFE Tube 4000mm \(https://www.matterhackers.com/store//bambu-lab-ptfe-tubes\)](https://www.matterhackers.com/store//bambu-lab-ptfe-tubes)

If purchasing the H2D variant **WITHOUT** an **AMS 2 Pro**, the [AMS HT \(https://www.matterhackers.com/sto](https://www.matterhackers.com/sto)  
[4-in-1 Adapter \(https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D\)](https://www.matterhackers.com/store//bambu-lab-4-in-1-ptfe-adapter/sk/MS4MFU5D), 2  
are included.

\* Launchpad is a virtual set-up assistance service guided by one of our MatterHackers experts to ensure your first-time setup goes as smoothly as possible. This is a one-hour one-on-one live call. Once purchased, the service is available to utilize for up to 3 months upon receiving your machine.

1 Filament color pictured is not guaranteed. Filament color will depend on inventory availability at time of shipment.

#### WHICH BAMBU LAB 3D PRINTER SERIES IS RIGHT FOR ME?

See below for a brief summary/highlights across different Bambu Lab 3D printer series.



[H2D Pro \(https://www.matterhackers.com/store//bambu-lab-h2d-pro-3d-printer/sk/MHYRYQTL\)](https://www.matterhackers.com/store//bambu-lab-h2d-pro-3d-printer/sk/MHYRYQTL) (<http://>

- Secure production for professional and engineering applications •
- Print **Mid-sized** models •
- Supports **Superior** types of filament •
- **Superior** Quality of Life 3D printing features •
- **Single** Extrusion 3D Printing •
- Secure data protection and network access control is required or critical for 3D printing operations •



[H2D / Combo / Laser \(https://www.matterhackers.com/store//bambu-lab-h2d-3d-printer\)](https://www.matterhackers.com/store//bambu-lab-h2d-3d-printer)

- Enhance and expand personal manufacturing capabilities for hobbyists and prosumers •
- Print **Mid-sized** models •
- Supports **Superior** types of filament •
- **Superior** Quality of Life 3D printing features •
- **Dual** Extrusion 3D Printing •
- Multi-manufacturing capabilities available in a single device for space-saving purposes (with the **10W or 40W** laser edition) •



[P1S / Combo \(https://www.matterhackers.com/store/l/bambu-lab-p1s-3d-printer/\)](https://www.matterhackers.com/store/l/bambu-lab-p1s-3d-printer/)

- Reliable quality & output that is budget-friendly for passionate hobbyists
- Print **Standard** models
- Supports **Standard** types of filament
- **Basic** Quality of Life 3D printing features
- **Single** Extrusion 3D Printing

Still undecided and have questions? Request a quote or contact [support@matterhackers.com](mailto:support@matterhackers.com) (<mailto:support@matterhackers.com>) and we'll connect you with one of our MatterHackers Pro's who can help!



## TECH SPECS OF THE BAMBU H2D

GENERAL	
Assembly	Fully-Assembled
Made In	China
Machine Dimensions (W × D × H)	492×514×626mm (19.4"×20.2"×24.6")
Net Weight	31kg (68.4lb)
PRINTER PARAMETERS	
Technology	Fused Deposition Modeling (FDM) / Fused Filament Fabrication (FFF)
Filament Diameter	1.75mm
Extrusion	Dual Extrusion
Build Volume (W × D × H)	<b>SINGLE Extrusion</b> 325mm × 320mm × 325mm (12.79"×12.59"×12.79")
	<b>DUAL Extrusion</b> 300mm × 320 × 325mm (11.81"×12.59"×12.79")

**Total Volume for Two Nozzles**

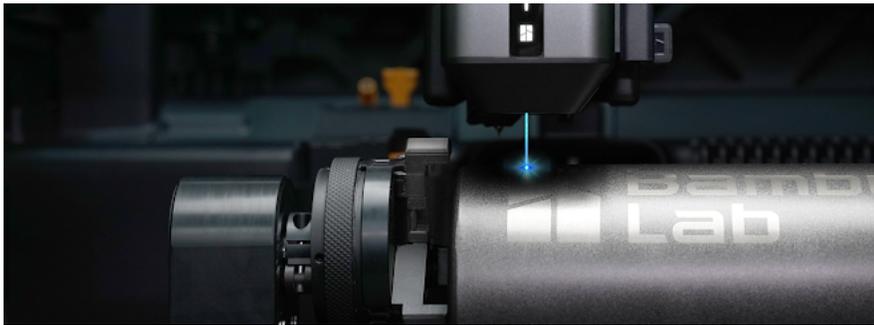
350mm × 320mm × 325mm  
(13.77"×12.59"×12.79")

Extruder Motor	Bambu Lab High-precision Permanent Magnet Synchronous Motor
Extruder Gear	Hardened Steel
Hotend	All-Metal
Nozzle Material	Hardened Steel Nozzle
Max. Nozzle Temperature	350°C
Nozzle Size	0.4mm
	<b>OPTIONAL</b> 0.2 / 0.6 / 0.8mm
Max Build Plate Temperature	120°C
Build Surface	Flexible Textured PEI Plate
	<b>OPTIONAL</b> Smooth PEI Plate
Max Toolhead Speed	1000mm/s
Max Toolhead Acceleration	20,000mm/s <sup>2</sup>
Max Flow Rate (Standard Flow Hotend)	40mm <sup>3</sup> /s*
Active Chamber Heating	Supported
Max Chamber Temperature	65°C
Pre-Filter Grade	G3
HEPA Filter Grade	H12
<b>AIR PURIFICATION</b>	
Activated Carbon Filter Type	Granulated Coconut Shell
VOC Filtration	Superior
Particulate Matter Filtration	Supported
<b>COOLING</b>	
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
<b>PRINTER FEATURES</b>	
Enclosed	Yes—Plastic & Glass
Frame	Aluminum and Steel
Filament Cutter	Built-In
Build Plate	Magnetic, Flexible
Bed Leveling	Fully-automated
Swappable Nozzle System	✓

Power Loss Recovery	✓
<b>CAMERA(S)</b>	
Live View Camera	Built-in; 1920 × 1080
Nozzle Camera	Built-in; 1920 × 1080
BirdsEye Camera	Built-in; 3264 × 2448
Toolhead Camera	Built-in; 1920 × 1080
<b>SENSOR(S)</b>	
Door Sensor	Supported
Filament Runout Sensor	Supported
Filament Tangle Sensor	Supported
Filament Odometry	Supported with <b>AMS</b>
<b>COMPATIBLE MATERIALS</b>	
Supported	PLA, PETG, TPU, PVA, BV OH, ABS, ASA, PC, PA, PET, PPS, PPA, and Carbon/Glass Fiber Reinforced Filament variants of the previously listed materials
<b>COMMUNICATION</b>	
Display	5" Capacitive Touch Screen
Display Resolution	720 × 1280
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
Applicator Processor	Quad-core 1.5 GHz ARM A7
Neural Processing Unit	2 TOPS
Ethernet	Not Available
Wireless Network	WiFi
Network Control	Not Available
Removable Network Module	Not Available
802.1X Network Access Control	Not Available
<b>WI-FI</b>	
Operating Frequency	2412-2472 MHz, 5150-5850 MHz (FCC/CE) 2400-2483.5 MHz, 5150-5850 MHz (SRRC)
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)
Protocol	IEEE 802.11 a/b/g/n
<b>SOFTWARE</b>	
Slicing Software	Bambu Studio  Supports third-party slicers which export standard G-code (i.e. Super Slicer, PrusaSlicer and Cura, etc.), but certain advanced features may not be supported.
Compatible OS	Windows, MacOS
Supported File Format(s)	STL, 3MF

Output File Format(s)	Gcode
<b>10W / 40W LASER PARAMETERS</b>	
Laser Type	Semiconductor Laser
Laser Power	<b>10W:</b> 10 W ± 1 W <b>40W:</b> 40 W ± 2 W
Laser Wavelength	Engraving Laser: 455 nm ± 5 nm Blue Light Height Measuring Laser: 850 nm ± 5 nm Infrared Light
Laser Spot Dimension	<b>10W:</b> 0.03mm × 0.14mm <b>40W:</b> 0.14 mm * 0.2 mm
Working Temperature	0°C - 35°C
Max Engraving Speed	<b>10W:</b> 400mm/s <b>40W:</b> 1000mm/s
Max Cutting Thickness (Basswood Plywood)	<b>10W:</b> 5mm <b>40W:</b> 15mm
Laser Safety Class for Laser Module	Class 4
Overall Laser Safety Class*	Class 1
Engraving Area	<b>10W:</b> 310mm × 270mm (12.2" × 10.6") <b>40W:</b> 310mm × 250mm (12.2" × 9.8")
Processing Height Range	<b>10W:</b> 0mm - 280mm <b>40W:</b> 0mm - 265mm
XY Positioning Method	Visual Positioning
XY Positioning Accuracy	< 0.3 mm
Z Height Measuring Method	Micro Lidar
Z Height Measuring Accuracy	± 0.1 mm
Flame Detection	Supported
Temperature Detection	Supported
Door Sensor	Supported
Laser Module Installation Detection	Supported
Engraving Timelapse	Supported
Safety Key	Included
Air Pump	Built-in; 30 kPa, 30 L/min
Ventilation Pipe Adapter Outer Diameter	100mm
Supported Material Type	Wood, rubber, metal sheet, leather, dark acrylic, stone, and more
<b>CUTTING MODULE PARAMETERS</b>	
Cutting Area	300mm × 285mm (300mm × 255mm (11.8" × 11.2"))
Drawing Area	300mm × 255mm (300mm × 255mm (11.8" × 10.3"))
Supported Pen Diameter	10.5mm - 12.5mm
Cutting Mat Type	LightGrip and StrongGrip Cutting Mats
Blade Type	45° × 0.35 mm
Blade Pressure Range	50 gf - 600 gf
Max Cutting Thickness	0.5mm
Blade and Pen Recognition	Supported

Cutting Mat Type Detection	Supported
Supported Image Type	Bitmap and Vector Images
Supported Material Type	Paper, vinyl, leather, and more
<b>LASER FEATURES</b>	
Laser Safety Windows	Equipped on Laser Edition - Standard H2D can upgrade through Laser Upgrade Kit
Air Assist Pump	Equipped on Laser Edition - Standard H2D can upgrade through Laser Upgrade Kit
<b>POWER REQUIREMENTS</b>	
Input Voltage	100 - 120 VAC, 50/60 Hz
Max Power**	1320 W@110 V 2200 W@220 V
Average Power	1050 W@110 V 1050 W@220 V
<b>WARRANTY</b>	
Warranty Period	12 Months



## FAQ

### CAN H2D BE UPGRADED TO H2D LASER EDITION?

The H2D laser full combo has a built-in air pump and air pipe on the back of the printer, and is pre-installed with a BirdsEye camera. The front door, left and right side Laser Protective Windows, and top cover are all designed with laser protection. The packaging list includes a laser module, a cutting module, a smoke exhaust pipe and its adapter, as well as an emergency stop button.

Bambu Lab plans to launch a laser upgrade kit for the non-laser version of H2D. The upgrade kit is expected to be released in June and will also provide installation instructional videos to help users complete the upgrade smoothly.

It is important to note that the air pump in the upgrade kit is an external air pump, which has a different installation structure from the built-in air pump in the full set. When using it, it can only be installed externally and connected to the machine through an air tube.

### ARE THE LEFT AND RIGHT HOTENDS EXACTLY THE SAME?

Yes, the left and right hotends have identical structures and materials, and can be used interchangeably.

### WHAT IS THE MAXIMUM NUMBER OF AMS 2 PRO AND AMS HT UNITS THAT THE H2D SUPPORTS? HOW MANY COLORS CAN IT PRINT AT MOST?

The H2D supports a maximum of 4 AMS 2 Pro and 8 AMS HT connected simultaneously, a total of 12 units with 24 slots.

Because H2D is a dual-hotend printer, and in the most extreme scenario, all AMS can be connected to one hotend while the other hotend uses an external spool holder, it can support up to 25 colors.

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### **IS H2D COMPATIBLE WITH THE FIRST-GENERATION AMS?**

The first-generation AMS has been confirmed to have full plug-and-play compatibility and can be used with the H2D for multi-color printing, but it does not support the AMS drying function.

Due to the fundamental differences in the feeding mechanism and buffering structure, the H2D does not support the AMS lite.

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### **AMS 2 PRO IS DIRECTLY CONNECTED TO THE PRINTER THROUGH THE 6-PIN PORTS, SO WHAT ARE THE TWO 4-PIN PORTS ON THE BACK OF THE PRINTER USED FOR?**

The two 4-pin ports on the back are reserved for future expansion accessories. For example, to upgrade a non-laser version of the printer to a laser version, one of these ports can be used to connect an external air pump.

---

### **CAN I USE THE A1 SERIES HOTEND ON THE H2D? CONVERSELY, CAN H2D HOTENDS BE USED ON A1 SERIES PRINTERS?**

Although the hotend of the H2D series is similar to the A1 hotend in structure, it is not exactly the same.

The H2D hotends are specifically designed for the H2D printer, offering optimized compatibility. For example, they support a larger maximum volumetric flow rate, lower clogging risk, more precise nozzle offset calibration between the left and right hotends, and automatic hotend type recognition via the live camera. Therefore, to ensure optimal print quality, it is strongly recommended not to use A1 hotends on the H2D printer.

Therefore, to ensure you get the best print quality, we strongly recommend that you do not use the A1 hotend for H2D printers.

Purchasing additional H2D hotends for use on A1 printers is feasible. However, you will also need to use the H2D hotend silicone sock.

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### **WHAT ARE THE DIFFERENCES BETWEEN THE 10W AND 40W LASER MODULES? HOW SHOULD I CHOOSE?**

Both the 10W and 40W laser modules are blue light lasers that support processing a variety of materials, including wood, rubber, metal sheets, leather, dark acrylic, and stone. However, due to differences in power and size, there are the following distinctions:

1. Maximum cutting thickness(For Basswood Plywood):
  1. 10W laser module: 5mm
  2. 40W laser module: 15mm
2. Maximum engraving speed(For Basswood Plywood):
  1. 10W laser module: 400mm/s
  2. 40W laser module: 1000mm/s
3. Processable Area:
  1. 10W laser module: Maximum processing area X310mm \* Y270mm, maximum processing height 280mm
  2. 40W laser module: Maximum processing area X310mm \* Y250mm, maximum processing height 265mm

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### **IS A USB INCLUDED AS STANDARD? WHAT FUNCTIONS ARE AFFECTED WITHOUT A USB?**

The package does not include a standard USB flash drive. You can still initiate printing normally without a USB, as the printer has built-in storage space to run print files.

However, without a USB inserted, the following functions will be affected:

1. The recording and time-lapse photography functions can't be turned on
2. Printing cannot be initiated through the LAN
3. Print files cannot be sent to the machine for storage through the studio
4. Log files cannot be exported

USB2.0 protocol or above (actual minimum write speed needs to be greater than 10M/s), supported file formats are FAT32 and exFAT. And the printer only supports mounting one USB, and cannot connect multiple USB via a USB hub.

---

### **WHY CAN'T I FREELY SELECT HOTEND FOR PRINTING WITH THE PRINTER'S BUILT-IN FILES?**

The hotend to be used for printing has already been determined when the model file is sliced. As for the built-in models, the right hotend has been selected during the slicing process, so it is impossible to change the hotend used for printing on the printer screen.

When you slice the file in Bambu Studio and send the print task, you can freely choose to use the left hotend or the right hotend. For some filaments, such as TPU and PPS/PPA-CF, it is recommended to use specific hotends for printing.

For more details on H2D filament printing, please check the [wiki \(https://wiki.bambulab.com/en/h2/h2d-filament-printing-guide\)](https://wiki.bambulab.com/en/h2/h2d-filament-printing-guide).

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### **WILL THE SMOKE AND DUST GENERATED BY LASER OPERATIONS AFFECT MY PRINTER'S PRECISION AND LIFESPAN?**

H2D is equipped with an efficient exhaust system that effectively removes smoke and dust generated by laser operations, significantly reducing contamination. During R&D, we conducted rigorous testing to ensure that with regular machine cleaning, the impact of smoke and dust on performance and precision is negligible. For detailed cleaning instructions, please refer to [this page \(https://wiki.bambulab.com/en/h2/maintenance/period-maintenance\)](https://wiki.bambulab.com/en/h2/maintenance/period-maintenance).

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### **HOW CAN I IMPROVE THE SUCCESS RATE AND QUALITY OF TPU PRINTING?**

Due to the flexible nature of TPU filaments, there are some operational issues that can arise during feeding and printing. To facilitate TPU printing, we have created a dedicated Wiki guide. Simply follow the instructions in the Wiki to [successfully print with TPU filaments \(https://wiki.bambulab.com/en/h2/h2d-tpu-printing-guide\)](https://wiki.bambulab.com/en/h2/h2d-tpu-printing-guide).

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### **ARE THERE ANY SPECIAL SAFETY PRECAUTIONS I NEED TO TAKE WHEN USING THE LASER FUNCTION?**

Because laser processing involves using high-energy lasers on potentially flammable materials, it's strongly advised that users not leave their machine unattended during laser operations. Please maintain constant vigilance over the machine's operational status and ensure that there are no flammable or explosive materials in the machine's surroundings. For more information please refer [here \(https://wiki.bambulab.com/en/home\)](https://wiki.bambulab.com/en/home).

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#### **\*\*Notice to DoD-Affiliated Buyers:**

If you are purchasing on behalf of the Department of Defense or any entity subject to Section 889 compliance, please contact our Government Sales Team at [tactical@matterhackers.com](mailto:tactical@matterhackers.com) or (800) 613-4290 prior to procuring the Bambu Lab H2D printer to ensure all regulatory requirements are properly addressed.

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## Questions

### Soonest this will ship?

— asked by Lisap3765 🧑‍🦲 December 9<sup>th</sup>, 2025 at 6:14AM

The Bambu Lab H2D is in stock and shipping typically takes 3 days to arrive.

— answered by EdisonC 🧑‍🦲 December 10<sup>th</sup>, 2025 at 10:56AM

### can I add a camera to the Bambu lad H2D

— asked by MarioJuniorLagos 🧑‍🦲 August 11<sup>th</sup>, 2025 at 5:28AM

Both the H2D and H2D-Laser have cameras factory installed.

BirdsEye Camera - Built-in; 32642448 *Equipped with Laser Edition*)

Live View Camera - Built-in; 19201080

Nozzle Camera - Built-in; 19201080

Toolhead Camera - Built-in; 19201080

— answered by kyle.cooper  November 7<sup>th</sup>, 2025 at 11:02AM

**Can you use any filament with this printer or does it force you to use Bambu brand?**

— asked by Caboose  July 2<sup>nd</sup>, 2025 at 7:59AM

You can use any filament but you will not have the advantage of the Bambu RFID

— answered by PatrickMcBride  July 2<sup>nd</sup>, 2025 at 8:04AM

I don't know what that means.

— answered by Caboose  July 2<sup>nd</sup>, 2025 at 8:08AM

Bambu Lab machines use Radio Frequency Identification(RFID) technology which gives the machine the ability to recognize the Material type and amount of material remaining on Bambu Lab filament.

— answered by kyle.cooper  November 7<sup>th</sup>, 2025 at 11:35AM

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