

# Bambu Lab Product Comparison

	Bambu Lab H2C	Bambu Lab H2D	Bambu Lab H2S	Bambu Lab X2D	Bambu Lab P2S	Bambu Lab A1
						
Basic Information						
Nozzle Number	7	2	1	2	1	1
Build Volume	Single Nozzle Printing (Left Nozzle): 325×320×325 mm <sup>3</sup> Single Nozzle Printing (Right Nozzle): 305×320×325 mm <sup>3</sup> Dual Nozzle Printing: 300×320×325 mm <sup>3</sup> Total Volume for Two Nozzles: 330×320×325 mm <sup>3</sup>	Single Nozzle Printing: 325×320×325 mm <sup>3</sup> Dual Nozzle Printing: 300×320×325 mm <sup>3</sup> Total Volume for Two Nozzles: 350×320×325 mm <sup>3</sup>	340×320×340 mm <sup>3</sup>	Main Nozzle Printing: 256*256*260 mm <sup>3</sup> Auxiliary Nozzle Printing: 235.5*256*256 mm <sup>3</sup> Dual Nozzle Printing: 235.5*256*256 mm <sup>3</sup> Total Volume for Two Nozzles: 256*256*260 mm <sup>3</sup>	256 × 256 × 256 mm <sup>3</sup>	256 × 256 × 256 mm <sup>3</sup>
Attachment Compatibility	10W/40W Laser Module, Cutting Module	10W/40W Laser Module, Cutting Module	10W Laser Module, Cutting Module	No	No	No
Motion System	CoreXY	CoreXY	CoreXY	CoreXY	CoreXY	Bed Slinger
Enclosed	Yes	Yes	Yes	Yes	Yes	No
Extruder Gear Assembly	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel
Nozzle	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel	Stainless Steel
Max Nozzle Temp	350 °C	350 °C	350 °C	300 °C	300 °C	300 °C
Max Build Plate Temp	120 °C	120 °C	120 °C	120 °C	110 °C	100 °C
Active Heated Chamber	65 °C	65 °C	65 °C	65 °C	No	No
Flap Switch Airflow & Filtration System	Yes	Yes	Yes	Yes	Yes	No
Air Filter	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration	Activated Carbon Filter	N/A
AMS Compatibility	AMS 2 Pro; AMS; AMS HT	AMS 2 Pro; AMS; AMS HT	AMS 2 Pro; AMS; AMS HT	AMS 2 Pro; AMS; AMS HT	AMS 2 Pro; AMS; AMS HT	AMS lite, AMS 2 Pro; AMS; AMS HT
Electronic & AI Capability						
Filament Run Out Sensor	Yes	Yes	Yes	Yes	Yes	Yes
Filament Grinding Detection	Yes	Yes	Yes	Yes	Yes	No
Filament Tangle Sensor	Yes	Yes	Yes	Yes	Yes	Yes
Nozzle Camera	Yes	Yes	No	No	No	No
Liveview Camera	1080P	1080P	1080P	1080P	1080P	1080P Low Rate
AI Detection	Yes	Yes	Yes	Yes	Yes	No
Display	5-inch Touchscreen	5-inch Touchscreen	5-inch Touchscreen	5-inch Touchscreen	5-inch Touchscreen	3.5-inch Touch Screen
Filament Compatibility						
Max # of Colors/Mater.	25	25	24	25	20	16
PLA, PETG, TPU, PVA	Ideal	Ideal	Ideal	Ideal*	Ideal	Ideal
ABS, AVA	Ideal	Ideal	Ideal	Ideal*	Ideal	Not recommended
PA, PC, PET	Ideal	Ideal	Ideal	Ideal*	Capable	Not recommended
Carbon/Glass Fiber Reinforced Polymer	Ideal	Ideal	Ideal	Ideal*	Capable	Not recommended

\* The filament compatibility applies to the main nozzle only. See the spec sheet for details.