

Comparison of UBOT 3D printers

UBOT P800D



UBOT P440



UBOT S320



3D Printing

Technology:	FFF (Fused Filament Fabrication)	FFF (Fused Filament Fabrication)	FFF (Fused Filament Fabrication)
Workspace (x,y,z):	810 x 810 x 550 mm*	490 x 370 x 360 mm mm*	320 x 300 x 300 mm*
Layer height:	Up to 20-900 microns	Up to 20-700 microns	Up to 20-600 microns
Number of working tools:	2	1 or 2**	1 or 2**
Nozzle diameter:	0.2 / 1.4; also special, reinforced heads	0.2 / 1.2; also special, reinforced heads	0.2 / 1.2; also special, reinforced heads
Minimum wall thickness:	0.2 / 1.4mm	0.2 / 1.4mm	0.2 / 1.4mm
Filament diameter:	1.75 mm	1.75 mm	1.75 mm
Filament flow control:	YES; 2 independent systems	YES; 2 independent systems	YES

*the ranges apply to the main hotend..

The second hotend does not cover the entire working area



**depending on the model

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Model material:	PLA, ABS, HIPS, PET, Nylon, PP, ASA,PC, NanoCarbon, TPU, B-FLEX, PC-ABS, ESD, PETCF, ABSGF, PCPBT, PEEK, Ultem, PPSU, composite materials, and others	PLA, ABS, HIPS, PET, Nylon, PP, ASA,PC, NanoCarbon, TPU, B-FLEX, PC-ABS, ESD,PETCF, ABSGF, PCPBT, PEEK, Ultem, PPSU, composite materials, and others	PLA, ABS, HIPS, PET, Nylon, PP, ASA,PC, NanoCarbon, TPU, B-FLEX, PC-ABS, ESD, PETCF, ABSGF, PCPBT, composite materials, and others
Support material:	Additional extruder for support materials, HIPS, BVOH, PVA	HIPS, BVOH, PVA - dual version	HIPS, BVOH, PVA - dual version
Fume filter:	YES; 4-function, PP, HEPA, cold catalysis filter, active carbon filter	YES; 4-function, PP, HEPA, cold catalysis filter, active carbon filter	YES; 4-function, PP, HEPA, cold catalysis filter, active carbon filter



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Temperatures

Head temperature:	up to 450°C	up to 400°C	up to 320°C
Worktable temperature:	up to 160°C	up to 160°C	up to 120°C
Chamber temperature:	actively heated - up to 80°C	actively heated - up to 80°C	passively heated chamber 55°C

Software

Software:	Simplify3D with preset settings. Possible use of other software.	Simplify3D with preset settings. Possible use of other software.	Simplify3D with preset settings. Possible use of other software.
Supported file formats::	.stl, .obj	.stl, .obj	.stl, .obj
Remote machine control:	using the application from anywhere in the world	using the application from anywhere in the world	using the application from anywhere in the world
How to upload STL files:	wi-fi, usb, ethernet	wi-fi, usb, ethernet	wi-fi, usb,
Built-in memory:	16GB	16GB	16GB
View from the camera	available from the device and application	available from the device and application	available from the device and application



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Mechanics

Precision of XY axis positioning:	2.1 microns	3.1 microns	3.1 microns
Z-axis positioning precision:	0.8 microns	0.8 microns	2.1 microns
XY: axis	400W servo drives with additional planetary gear and HIWIN ball screws	10 mm servo drives and timing belts reinforced with GATES fiberglass	stepper motors and 6mm toothed belts reinforced with GATES fiberglass
Z axis:	400W servo drive, planetary gear, HIWIN ball screws	servo drive, HIWIN ball screws	sstepper motor, trapezoidal screw with clearance reset
Work platform:	made of precision aluminum with adhesive, additionally illuminated	Magnetic platform with a springy adhesive pad for easy removal from the table	Magnetic platform with a springy adhesive pad for easy removal from the table
Automatic calibration:	YES, 81 points	YES, 81 points	YES, 81 points



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Calibration type and heads

Type of table calibration:	inductive sensor	inductive sensor	inductive sensor
Head type no. 1:	direct	direct	direct
Head type no. 2:	bowden	bowden	bowden

Power supply and dimensions

Dimensions:	1270 x 1244 x 2540 mm	1140 x 1000x 865 mm	680 x 530 x 710 mm
Mass:	800 kg	220 kg	40 kg
Power supply:	240V AC ~ 36A 50/60 Hz	240V AC ~ 11A 50/60 Hz	240V AC ~ 2A 50/60 Hz
Power consumption:	max 8500 W	max. 2500 W	450 W
A way to maintain power:	built-in battery	built-in battery	lack
Power backup time:	15 min	15 min	lack



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Others

Type of filament sensor:	laser	laser	laser
Bed heater:	over the entire worktable area	over the entire worktable area	over the entire worktable area
Communication:	USB, WIFI, Built-in Device Memory	USB, WIFI, Built-in Device Memory	USB, WIFI, Built-in Device Memory
Remote printing:	YES; smartphone	YES; smartphone	YES; smartphone
Additional:	U-ME system, camera preview, remote printing, energy maintenance, full range of temperature control during printing, changing parameters in real-time - temperature, speed, cooling; material end sensor with material weight control	U-ME system, camera preview, remote printing, energy maintenance, full range of temperature control during printing, changing parameters in real-time - temperature, speed, cooling; material end sensor with material weight control	U-ME system, camera preview, remote printing, full range of temperature control during printing, changing parameters in real-time - temperature, speed, cooling;



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Warranty and certificates

	UBOT P800D	UBOT P440	UBOT S320
Certificates:	CE	CE	CE
Warranty:	2 years (additionally, it is possible to purchase a PLUS warranty package)	2 years (additionally, it is possible to purchase a PLUS warranty package)	2 years (additionally, it is possible to purchase a PLUS warranty package)
Possibility to extend the warranty:	up to 5 years	up to 5 years	up to 5 years
Access to telephone support:	5 years	5 years	5 years

