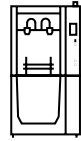


# Printer comparison sheet

Compare BCN3D printer models



Omega I60



Epsilon W50 SC



Epsilon W27 SC



Epsilon W50



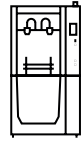
Epsilon W27

## Printing properties

	Omega I60	Epsilon W50 SC	Epsilon W27 SC	Epsilon W50	Epsilon W27
Printing volume	60 Liters 450 x 300 x 450 mm 17.7 x 11.8 x 17.7 in	50 Liters 420 x 300 x 400mm 16.53 x 11.81 x 15.75 in	27 Liters 420 x 300 x 220 mm 16.53 x 11.81 x 8.66 in	50 Liters 420 x 300 x 400mm 16.53 x 11.81 x 15.75 in	27 Liters 420 x 300 x 220mm 16.53 x 11.81 x 8.66 in
Extrusion system	Direct Drive 1.75 mm	Bowden 2.85 mm	Bowden 2.85 mm	Bowden 2.85 mm	Bowden 2.85 mm
Heated chamber	Active, up to 70°C (158 °F)	Passive	Passive	Passive	Passive
IDEX	✓	✓	✓	✓	✓
Connectivity	✓	✓	✓	✓	✓
Heated bed	✓	✓	✓	✓	✓
Flexible buildplate	✓	Optional upgrade	Optional upgrade	Optional upgrade	Optional upgrade
Filament presence sensor	✓	✓	✓	✓	✓
Enclosure and filtering	✓	✓	✓	✓	✓
XYZ Autocalibration	✓	✓	✓	✓	✓
Filament humidity control	✓	✓	✓	✗	✗
Uninterruptible power supply (UPS)	✓	✓	✓	✗	✗
High speed ready	✓	✗	✗	✗	✗
Active filament recovery (70°C / 158°F)	✓	✗	✗	✗	✗
Filament autoloading and swapping	✓	✗	✗	✗	✗
Built-in camera	✓	✗	✗	✗	✗
Process control sensors	✓	✗	✗	✗	✗
Emergency stop	✓	✗	✗	✗	✗
Component identification	✓	✗	✗	✗	✗

# Printer comparison sheet

Compare BCN3D printer models



## Printing properties

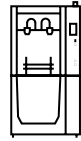
	Omega I60	Epsilon W50 SC	Epsilon W27 SC	Epsilon W50	Epsilon W27
3D Printing Technology	FFF	FFF	FFF	FFF	FFF
Architecture	IDEX HAQ-XY	IDEX	IDEX	IDEX	IDEX
Number of extruders	2	2	2	2	2
Full color Touch screen	7.0"	5.0"	5.0"	5.0"	5.0"
Enclosed chamber	✓	✓	✓	✓	✓
HEPA filter (Category H13)	✓	✓	✓	✓	✓
Carbon filter	✓	✓	✓	✓	✓
Safety Pause	✓	✓	✓	✓	✓
Heated bed maximum temperature	120°C (248 °F)	120°C (248 °F)	120°C (248 °F)	120°C (248 °F)	120°C (248 °F)
Electronics	Single Board Computer: Toradex ARM Compute Module Motion Board: 32bits BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: 8bits BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: 8bits BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: 8bits BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: 8bits BCN3D Electronics with Independent Stepper Drivers
Firmware	BCN3D Embedded Linux distribution BCN3D Omega - Marlin 2.1 custom	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin 1.1.9 custom	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin 1.1.9 custom	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin 1.1.9 custom	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin 1.1.9 custom

## Nozzle/Tip Compatibility

Nozzle/Tip	Omega Hotend Tip 0.4 HR (default) Omega Hotend Tip 0.6 HR	0.4 (default), 0.6, 0.8, 1.0 mm Hotend X (0,6 mm, for fiber-filled materials) and Hotend M (0,4 mm, for metal-filled materials)	0.4 (default), 0.6, 0.8, 1.0 mm Hotend X (0,6 mm, for fiber-filled materials) and Hotend M (0,4 mm, for metal-filled materials)	0.4 (default), 0.6, 0.8, 1.0 mm Hotend X (0,6 mm, for fiber-filled materials) and Hotend M (0,4 mm, for metal-filled materials)	0.4 (default), 0.6, 0.8, 1.0 mm Hotend X (0,6 mm, for fiber-filled materials) and Hotend M (0,4 mm, for metal-filled materials)
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# Printer comparison sheet

Compare BCN3D printer models



Omega I60



Epsilon W50 SC



Epsilon W27 SC



Epsilon W50



Epsilon W27

## Software

Offline printing	✓ USB	✓ SD card	✓ SD card	✓ SD card	✓ SD card
Wireless printing	✓	✓	✓	✓	✓
BCN3D Stratos software support	✓	✓	✓	✓	✓
BCN3D Cloud software support	✓	✓	✓	✓	✓

## Materials

Filament diameter	1,75 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm
BCN3D Filaments	✓ For Omega Series	✓ For Epsilon Series	✓ For Epsilon Series	✓ For Epsilon Series	✓ For Epsilon Series
Open Filament Network (OFN)	✓	✓	✓	✓	✓
Custom Materials	✓ (with free license activation <sup>1</sup> )	✓	✓	✓	✓

<sup>1</sup> The Omega I60 is an open material platform that offers customers the flexibility to use custom materials and create their own printing profiles at no extra cost. An Omega Open Filament License (OOFL) is required for this purpose. For more information: <https://3d.bcn3d.com/bcn3d-omega-i60-omega-open-filament-license>