

Overview



Compare BCN3D printer models



Epsilon W50 SC



Epsilon W27 SC



Epsilon W50



Epsilon W27



Sigma D25

	Epsilon W50 SC	Epsilon W27 SC	Epsilon W50	Epsilon W27	Sigma D25
IDEX Technology	✓	✓	✓	✓	✓
Bondtech extruders	✓	✓	✓	✓	✓
Multilingual 5" touchscreen	✓	✓	✓	✓	✓
Filament runout sensor	✓	✓	✓	✓	✓
Connectivity	✓	✓	✓	✓	✓
Heated bed	✓	✓	✓	✓	✓
Standard materials (PLA, PVA, PET-G, TPU 98A)	✓	✓	✓	✓	✓
Technical materials (ABS, PP, PA)	✓	✓	✓	✓	✗
Composite materials (PAHT-CF15, PP-GF30)	✓	✓	✓	✓	✗
Enclosure & passive heated chamber	✓	✓	✓	✓	✗
Air filtering	✓	✓	✓	✓	✗
Huge volume	✓	✗	✓	✗	✗
Safety pause	✓	✓	✓	✓	✗
Material handling	✓	✓	✗	✗	✗
Power protection	✓	✓	✗	✗	✗

Printer comparison sheet



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Printing properties	Epsilon W50 SC	Epsilon W27 SC	Epsilon W50	Epsilon W27	Sigma D25
3D Printing Technology	FFF	FFF	FFF	FFF	FFF
Architecture	IDEX	IDEX	IDEX	IDEX	IDEX
Number of extruders	2	2	2	2	2
Volume	420 x 300 x 400 mm	420 x 300 x 220mm	420 x 300 x 400 mm	420 x 300 x 220mm	420 x 300 x 200mm
Full color Touch screen	5.0"	5.0"	5.0"	5.0"	5.0"
Certificate	CE & FCC	CE & FCC	CE & FCC	CE & FCC	CE & FCC
Passive Heated chamber	✓	✓	✓	✓	✗
Enclosed chamber	✓	✓	✓	✓	✗
HEPA filter	✓	✓	✓	✓	✗
Carbon filter	✓	✓	✓	✓	✗
Safety Pause	✓	✓	✓	✓	✗
Heated build plate	✓	✓	✓	✓	✓
Heated bed maximum temperature	120°C	120°C	120°C	120°C	80°C
Electronics	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with Independent Stepper Drivers	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with Independent Stepper Drivers
Firmware	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin	BCN3D Embedded Linux distribution BCN3D Epsilon - Marlin	BCN3D Embedded Linux distribution BCN3D Sigma D25 - Marlin

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Hotend Compatibility	Epsilon W50 SC	Epsilon W27 SC	Epsilon W50	Epsilon W27	Sigma D25
Default hotend	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
Hotend 0.4mm	✓	✓	✓	✓	✓
Hotend 0.6mm	✓	✓	✓	✓	✗
Hotend 0.8mm	✓	✓	✓	✓	✓
Hotend 1.0mm	✓	✓	✓	✓	✗
Hotend X - fiber filled materials (0.6mm)	✓	✓	✓	✓	✗
Software					
Offline printing (SDCard)	✓	✓	✓	✓	✓
Wireless printing	✓	✓	✓	✓	✓
BCN3D Cura software support	✓	✓	✓	✓	✓
BCN3D Cloud software support	✓	✓	✓	✓	✓
Materials					
Filament diameter	2,85 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm	2,85 ± 0,05 mm
Standard materials (PLA, PVA, PET-G, TPU 98A)	✓	✓	✓	✓	✓
Technical materials (ABS, PP, PA)	✓	✓	✓	✓	✗
Composite materials (PAHT-CF15, PP-GF30)	✓	✓	✓	✓	✗
Open filament system	✓	✓	✓	✓	✓