






Overview



Compare BCN3D printer models

	 Epsilon W50 SC	 Epsilon W27 SC	 Epsilon W50	 Epsilon W27	 Sigma D25
IDEX Technology (Independent Dual Extrusion System)	✓	✓	✓	✓	✓
Bondtech extruders	✓	✓	✓	✓	✓
Multilingual 5" touchscreen	✓	✓	✓	✓	✓
Filament runout sensor	✓	✓	✓	✓	✓
Automatic Calibration System	✓	✓	✓	✓	✓
Connectivity	✓	✓	✓	✓	✓
Heated bed	✓	✓	✓	✓	✓
Standard materials (PLA, Tough PLA, PET-G, TPU 98A, PVA, BVOH)	✓	✓	✓	✓	✓
Technical materials (ABS, PP, PA)	✓	✓	✓	✓	✗
Composite materials (PAHT-CF15, PP-GF30, PET CF15)	✓	✓	✓	✓	✗
Metal Materials (Ultrafuse 316L, Ultrafuse 17-4PH)	✓	✓	✓	✓	✗
Enclosure & passive heated chamber	✓	✓	✓	✓	✗
Air filtering	✓	✓	✓	✓	✗
Huge volume	✓	✗	✓	✗	✗
Safety pause	✓	✓	✓	✓	✗
Material handling	✓	✓	✗	✗	✗
Power protection	✓	✓	✗	✗	✗

Printer comparison sheet



Compare BCN3D printer models

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, UKCA	CE, FCC, UKCA	CE, FCC, UKCA	CE, FCC, UKCA	CE, FCC, UKCA
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

Printer comparison sheet



Compare BCN3D printer models

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)	✓	✓	✓	✓	✗
Hotend M (0.4mm)	✓	✓	✓	✓	✗
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, Tough PLA, PET-G, TPU 98A, PVA, BVOH)	✓	✓	✓	✓	✓
Technical materials (ABS, PP, PA)	✓	✓	✓	✓	✗
Composite materials (PAHT-CF15, PP-GF30, PET CF15)	✓	✓	✓	✓	✗
Metal Materials (Ultrafuse 316L, Ultrafuse 17-4PH)	✓	✓	✓	✓	✗
Open filament system	✓	✓	✓	✓	✓