

EPSILON W50



FFF | Double Head

PRODUCT DESCRIPTION

Powerful professional 3D printer. It is designed to manufacture solid parts with industrial materials thanks to features such as its closed design that allows greater temperature control inside the chamber. Equipped with the revolutionary Independent Double Extrusion (IDEX) system, the Epsilon W50 prints functional and resistant parts with extreme quality and precision.



FEATURES

- Heated base up to 120°C: Equipped with a heated base that can reach up to 120°C, ideal for printing with technical materials and avoiding deformation problems.
- e3D™ Hotends: The e3D™ hotends have been carefully designed by the e3D™ manufacturer to provide the smoothest and most reliable extrusion.
- 5" multilingual touch screen: Equipped with an intuitive multilingual interface that will guide you through its advanced functions.
- Aluminum housing: The aluminum structure guarantees strength and durability over time.
- Bondtech™ Extruders: Extruders composed of two high-tech Bondtech™ gears, offering more control, sharper detail and superior performance with any type of filament.
- End-of-filament sensor: Sensor that detects when the filament runs out and stops the printing process until it is reloaded.

3D printer for manufacturing functional parts with robust mechanical properties

It can be used for a wide range of technical applications with BCN3D's industrial materials, developed by two of the most renowned chemical companies: BASF and Mitsubishi Chemical. You can also work with confidence with any material of your choice thanks to our Open Filament System:

Standard: PLA Pro / rPET / TPU 85A

Technical: BVOH / ASA / HIPS

Independent double extrusion system (IDEX)

Developed by BCN3D, the independent double extrusion technology makes the difference in 3D printing.

- Mirror mode: Prints the models and their symmetrical parts at the same time, increasing the iteration speed.
- Duplication mode: Prints the same models with both printheads simultaneously, thus doubling the production capacity.
- Soluble media mode: Print with soluble media to create complex structures and avoid geometric limitations.
- Multi-material mode: A technique that allows printing two different materials and combining their properties.

TECHNICAL DATA

Technology

FFF (Fused Filament)

Printing Materials

Plastic filaments



Printing Volume	420 length x 300 width x 220 400 (50 liters)
Purpose	Final Piece
Filament Diameter	2.85 mm
FDM filaments	Standard, technical, composites
Chamber Temperature	Heated base up to 120°C
Max. temperature Extruder	300°C
Nozzle diameter	Brass nipple: 0.4mm (default) 0.6mm 0.8mm 1.0mm Hotend X: 0.6mm - Hotend M: 0.4mm
Dimensions	690mm (W) x 530mm (D) x 900mm (H)
Weight	50 kg
Power Requirements	AC 100-240V, AC 3.6-1.3A, 50-60Hz

RELIABILITY AND SAFETY

- The Epsilon W50 and Epsilon W27 3D printers have a fully enclosed, passively heated print chamber, which keeps the internal temperature controlled and can reach up to 60°C, while the heated base can reach up to 120°C.
- These printers have a Safety Pause feature, which will stop the 3D printing process every time the door is opened, ensuring a completely safe experience.
- As for filters, BCN3D Epsilon printers are equipped with a HEPA filter that protects the working environment from possible harmful particles that may be emitted when printing with industrial materials. In addition, the carbon filter of these printers protects the environment from possible harmful vapors produced by the materials used.

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