

# εpsilon





# UNBOXING





# UNBOXING

Retain packaging for warranty

—

Packing and straps



## SETUP





## SETUP

Wifi vs Ethernet

-

Dongle wifi compatibility

-

Printer registration & Cloud



## INSTALLING PRINTING SURFACE



# LOADING FILAMENT





# PRINTING SURFACE CALIBRATION





# HOTEND CALIBRATION



# INSTALLING SHIMS



## Administrador de impresoras



Apagada

040-200131-0003


**Serie:** 040-200131-0003

**Modelo:** Epsilon W50

**Propietario:** jrgarcia@sicnova3d.com

**Extrusor izq.**


Temperatura

0° / -

ABS 0.4

**Extrusor der.**


Temperatura

0° / -

TPU 0.4

**Cama**


Temperatura

0° / -

**Cámara**


Temperatura

0° / -

Nombre de archivo	Impreso en	Tiempo de impresión	Origen	Estado
E_Superficie.gcode	08/10/2020, 10:05	02h 09min		Acabado  
E_Superficie.gcode	07/10/2020, 11:09	02h 08min		Acabado  
E_Superficie.gcode	07/10/2020, 10:44	00h 11min		Cancelado  
E_018-003 Pantalla Blanca Refleio v Soporte.acode	06/10/2020, 09:00	00h 04min		Cancelado  

[Ver más](#)

## Escritorio de miembros

### Mis impresoras

No tienes impresoras

### Comparto mis impresoras con...

 Daniel Morales (dmorales@bcn3d.com)

Eliminar

Invitar...

### Impresoras compartidas conmigo

 **Nombre de impresora:** WeCare  
**Propietario:** Fran García (fgarcia@bcn3d.com)

 **Nombre de impresora:** 040-200227-0122  
**Propietario:** Fran García (fgarcia@bcn3d.com)



## PRINT MODES - SD CARD

SD Card printing

-

USB Printing not available

## PRINT MODES - RATING

How was your print?





# SIGMA OVERVIEW

420 x 300 x 200

Width Depth Height



# SIGMA OVERVIEW

Maintenance notifications

-

Warnings



# SIGMA OVERVIEW

NOTIFICATION: Maintenance recommended

The printer has run over 250Km.

It's recommended to lubricate the axes.  
Learn how at: [bcn3d.com/lubricate\\_e](https://bcn3d.com/lubricate_e)

[Main menu](#)

# SIGMA OVERVIEW



WARNING: Filament runout

Filament has not been detected on the left extruder.

Abort the printjob or press NEXT to prepare to remove the remaining filament.

Abort

Next

# FILAMENTS

## BASIC

**PLA**

**PVA**

**PET-G**

**BVOH**

## ADVANCED

**TPU**

**TOUGH PLA**





# FILAMENTS - COMPATIBILITY

Material	Compatible Printers	Adhesive	Compatible Hotends (mm)							Enclosure		General tips		
			PRINTER	0.3	0.4	0.5 HP	0.6	0.8	1.0	0.6 X	PRINTER		ENCLOSURE	
PLA	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Apply Magigoo adhesive on the build plate</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
ABS	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo / None	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Recommended	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant.</li> <li>Prints well on clean glass or use Magigoo adhesive</li> <li>Once the part is printed, remove carefully the piece to avoid chipping the glass. The removal of the object is easier if you just apply water on the glass.</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Recommended	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
TPU	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo / None	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Dry filament before printing. Place it in an oven or in a dehydrator at 60-70°C for 6 to 8 hours</li> <li>Prints well on clean glass or use Magigoo adhesive</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
PVA	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Dry filament before printing. Place it in an oven or in a dehydrator at 50°C for 6 to 8 hours</li> <li>Apply Magigoo adhesive on the build plate</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Not needed	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
PET-G	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Recommended	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Apply Magigoo adhesive on the build plate</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Recommended	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
PA	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo PA	Sigma R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Needed	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Dry filament before printing. Place it in an oven or in a dehydrator at 50°C for 6 to 8 hours</li> <li>Apply Magigoo PA adhesive on the build plate</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	✓	✓	✓	✓	✓	✓	✓	X	Sigma R19	Needed	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
PP	Sigma R19 Sigmax R19 BCN3D Epsilon	Magigoo PP	Sigma R19	X	✓	X	X	X	X	X	X	Sigma R19	Needed	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Apply Magigoo PP adhesive on the build plate</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>
			Sigmax R19	X	✓	X	X	X	X	X	X	Sigma R19	Needed	
			BCN3D Epsilon*	X	✓	X	✓	✓	✓	✓	X	BCN3D Epsilon	Built in	
PAHT CF15	BCN3D Epsilon	Magigoo / None	BCN3D Epsilon*	X	X	X	X	X	X	✓	BCN3D Epsilon	Built in	<ul style="list-style-type: none"> <li>Store it in an airtight container with desiccant</li> <li>Feed it cautiously into the machine: it's very fragile and can break easily</li> <li>Preheat the machine with the filament inside to soften up the material</li> <li>Prints well on clean glass</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>	
PP GF30	BCN3D Epsilon	Magigoo PPGF	BCN3D Epsilon*	X	X	X	X	X	X	✓	BCN3D Epsilon	Built in	<ul style="list-style-type: none"> <li>Apply Magigoo PPGF adhesive on the build plate</li> <li>Build surface must be very well calibrated due to strong warping</li> <li>Use preset profiles on BCN3D Cura developed by BCN3D</li> </ul>	

\* Printing profiles for BCN3D Epsilon: 0.8mm profiles will be released mid-january. Printing profiles for 0.6mm and 1.0mm will be released at the beginning of Q2.



## FILAMENTS - STORAGE





## ADHESIVES

Regular Magigoo

-

PA Nylon Magigoo

-

PP Magigoo

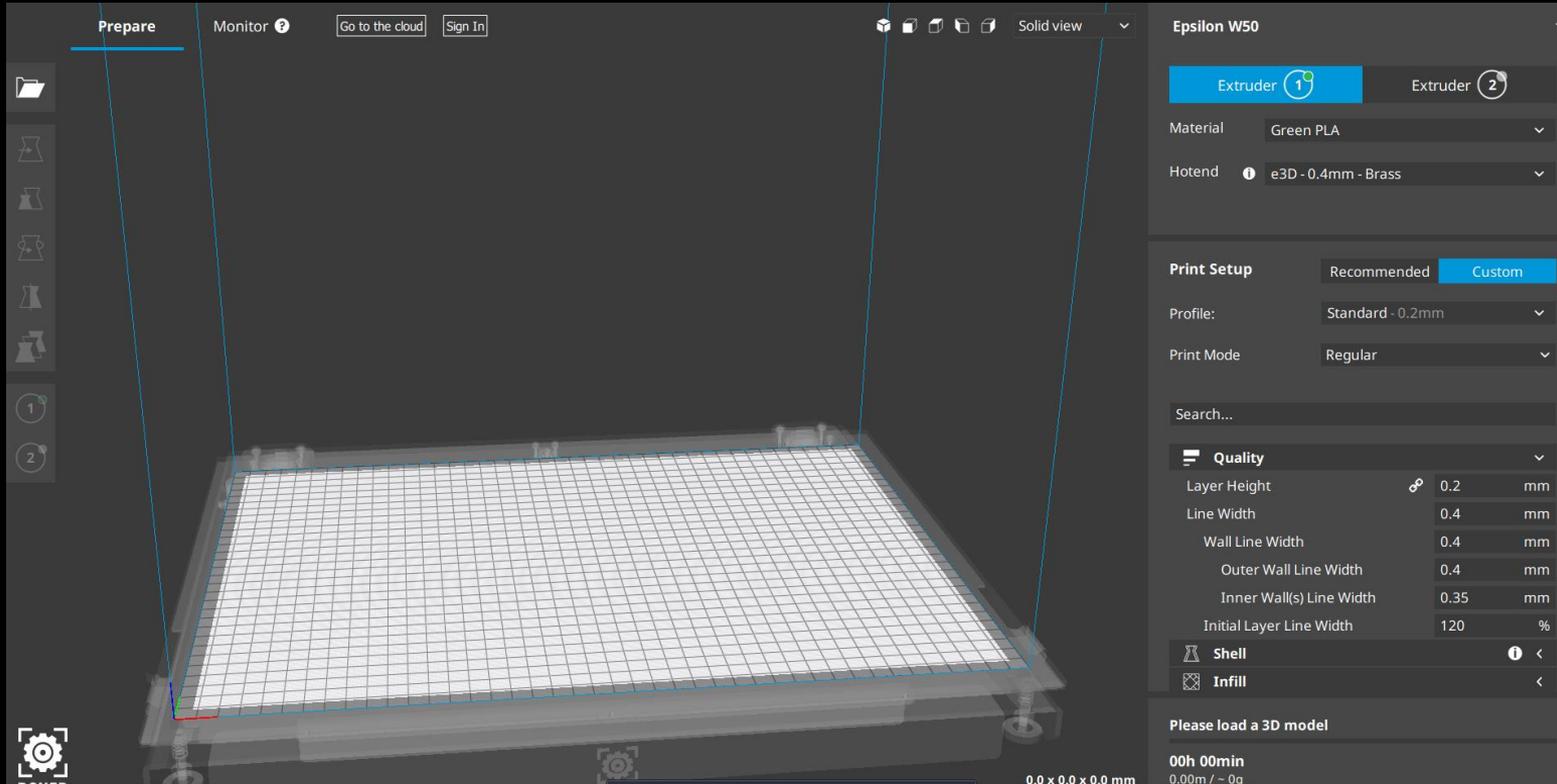
-

PPGF Magigoo



# HOTENDS

Full metal hotend (0.4 - 0.8)



The screenshot displays the BCN3D CURA software interface. The main window shows a 3D view of a printer bed with a grid. The interface includes a top navigation bar with 'Prepare', 'Monitor', 'Go to the cloud', and 'Sign In' buttons. A sidebar on the left contains icons for file management and printer settings. The right sidebar contains the 'Epsilon W50' printer settings, including extruder selection, material (Green PLA), hotend (e3D - 0.4mm - Brass), and print setup options (Recommended, Custom). The 'Quality' section lists parameters like Layer Height (0.2 mm), Line Width (0.4 mm), Wall Line Width (0.4 mm), Outer Wall Line Width (0.4 mm), Inner Wall(s) Line Width (0.35 mm), and Initial Layer Line Width (120 %). The 'Shell' and 'Infill' sections are also visible. At the bottom right, there is a status bar showing '00h 00min' and '0.00m / - 0g'. The printer name 'Epsilon W50' is displayed at the top right of the settings panel.

**Prepare** | Monitor ⓘ | Go to the cloud | Sign In | Solid view

**Epsilon W50**

Extruder 1 | Extruder 2

Material: Green PLA

Hotend: e3D - 0.4mm - Brass

**Print Setup** | Recommended | Custom

Profile: Standard - 0.2mm

Print Mode: Regular

Search...

**Quality**

Layer Height	0.2	mm
Line Width	0.4	mm
Wall Line Width	0.4	mm
Outer Wall Line Width	0.4	mm
Inner Wall(s) Line Width	0.35	mm
Initial Layer Line Width	120	%

**Shell** ⓘ <

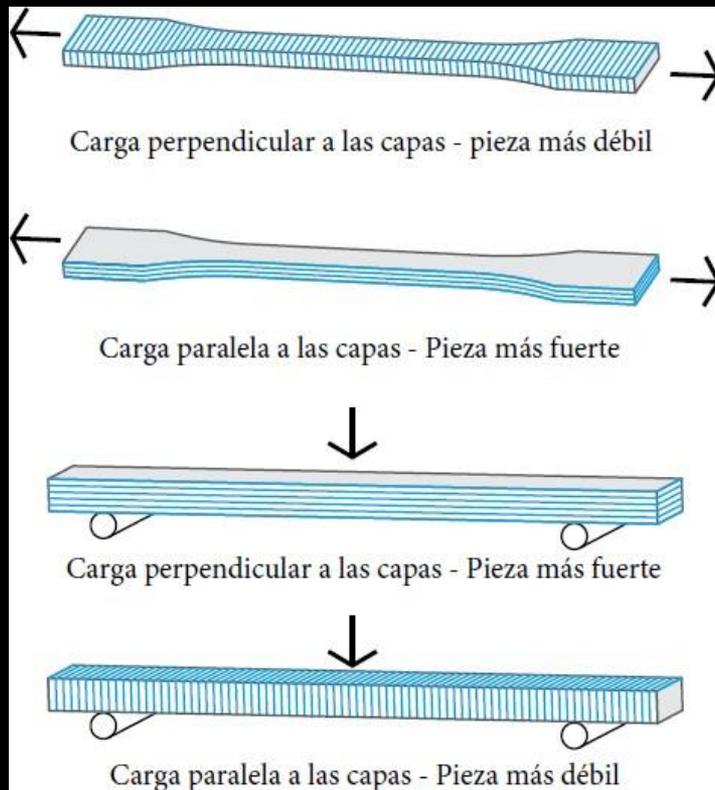
**Infill** <

Please load a 3D model

00h 00min  
0.00m / - 0g

0.0 x 0.0 x 0.0 mm

# BCN3D CURA





# KNOWLEDGE BASE

The screenshot shows the BCN3D Knowledge Base website. At the top left is the BCN3D logo and the text "Knowledge base - BCN3D". At the top right are links for "BCN3D forum" and "Contact support". The main heading reads "Hello. How can we help you?". Below this is a search bar with the placeholder text "Search for answers". The page features a grid of six categories, each with an icon and a label:

- BCN3D Epsilon**: Represented by an icon of a 3D printer.
- BCN3D Sigmax**: Represented by an icon of a document with a checklist.
- BCN3D Sigma**: Represented by an icon of a document with a checklist.
- Filaments**: Represented by a target icon.
- Community**: Represented by a person icon.
- BCN3D+**: Represented by an icon of a document with a checklist.



## MAINTENANCE







## Mantenimiento general

Proceso	Frecuencia	Herramientas
Limpiar la impresora.	Diariamente	Trapo
Quitar restos de filamento esparcidos por la impresora.	Diariamente	Aspirador Aire comprimido
Quitar el filamento que queda dentro de los contenedores.	Diariamente	-
Limpiar el polvo de los ventiladores del hotend, los ventiladores de refrigeración y el del filtro.	Mensualmente	Aire comprimido
Actualizar el SO de la impresora y el firmware	Si la impresora esta conectada a la red, actualízala cuando aparezca la notificación Si no esta conectada, consulta mensualmente la pagina web de BCN3D	-



# MAINTENANCE

## Mantenimiento del hotend

Proceso	Frecuencia	Herramientas
Comprobar que el noozle no este atascado haciendo una purga o comprobando si se ha ocasionado "under-extrusion" en impresiones anteriores.	Cada impresión	-
Comprobar si los hotends y los ventiladores de refrigeración trabajan correctamente.	Cada impresión	-
<a href="#">Limpiar el hotend</a>	Semanalmente o cuando se cambie de material	Filamento de nylon
<a href="#">Realizar una calibración de XYZ</a>	Cada 300 horas de impresión, después del transporte o cuando se cambien los hotends.	-
Comprobar que los <a href="#">cables planos del hotend están correctamente conectados</a> a la placa electrónica del hotend	Cada 300 horas de impresión, después del transporte o cuando se cambien los hotends.	-
Comprobar que los tornillos que sujetan el hotend al cabezal no estén aflojados	Cada 300 horas de impresión, después del transporte o cuando se cambien los hotends.	Llave allen
<a href="#">Cambiar el hotend</a>	Más de 1000 horas de impresión	Llave allen, tijeras o alicates de corte, hotend
Limpiar los ventiladores	Cada 300 horas de impresión o cuando los ventiladores tengan polvo	Aspirador, aire comprimido o un cepillo, pinzas

## Mantenimiento del motor de extrusión

Proceso	Frecuencia	Herramientas
Quitar las virutas de material depositadas en los engranajes de los extrusores.	Semanalmente	Aire comprimido
Comprobar tubos bowden y sus conexiones al extrusor.	Cada 300 horas de impresión	-
Comprobar que los cables están correctamente conectados al driver del motor y al motor de extrusión	Cada 300 horas de impresión	-
Ajusta el tornillo tensor para que la presión ejercida por los engranajes de extrusión sobre el filamento sea la correcta	Cada 1000 horas de impresión	-
<a href="#">Comprobar los engranajes del extrusor</a>	Cada 1000 horas de impresión	-

## Mantenimiento de la placa de impresión

Proceso	Frecuencia	Herramientas
Limpiar la superficie de impresión con agua caliente y jabón	Antes de cada impresión	Espátula Trapo
Comprobar que el ajuste de las pinzas sea el correcto.	Antes de cada impresión	-
<a href="#">Realizar una calibración de la superficie de impresión</a>	Semanalmente o después del transporte	-
Comprobar que la superficie de impresión no tenga arañazos	Cada 300 horas de impresión	-

# Gracias.

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