The BCN3D Sigma x is a professional FFF 3D printer characterized by its impressive printing volume and Independent Dual Extruder (IDEX) system. These main features turn the Sigma x into the most versatile 3D printer in the market, ideal for those who need to print big, complex parts or increase their productive capacity.

Beyond geometric and material limitations

Capture even bigger ideas

Duplicate your productivity
**Sigma R2017**

- **Overall dimensions:** 465mm x 440mm x 680mm
- **Build Volume:** 210mm x 297mm x 210mm
- **Printing modes:** Simple, IDEX
- **Default hotend:** 0.4mm

**Sigmax**

- **Overall dimensions:** 665mm x 440mm x 680mm
- **Build Volume:** 420mm x 297mm x 210mm
- **Printing modes:** Simple, IDEX, Mirror, Duplicator
- **Default hotend:** 0.6mm
A new standard
The unique Independent Dual Extruder system allows to print 2 different materials or colours while ensuring the finest surface finish. The idle toolhead remains parked, preventing the dripping of molten plastic onto the part.

You choose:
MULTIMATERIAL OR MULTICOLOR
Create functional parts by combining the properties of two different materials, like rigid and flexible filaments. Or make your designs more attractive by printing with two colours.

PRINT FURTHER, PRINT SOLUBLE SUPPORTS
Avoid geometric limitations and print the most challenging parts thanks to soluble supports. Just immerse the model into water and watch the supports vanish.
SCALE UP YOUR PROJECTS
Because sometimes size matters, the Sigmax features a massive printing volume of 420x297x210mm.

Produce larger-scale functional parts and get rid of dividing or scaling down models: volume will be no longer a limitation.

Don’t constrain your ideas, just make them real.
BOOST YOUR PRODUCTIVITY

The Sigmax is not just a rapid prototyping machine, but a mighty production center. Thanks to its IDEX system, it features two highly productive printing modes:

- **Duplication mode**: Print the same model with both toolheads simultaneously and, therefore double printing capacity.

- **Mirror mode**: Print the model and its symmetrical part at once, increasing iteration speed and shortening design times.
## SPECIFICATIONS

### PHYSICAL DIMENSIONS
- **Overall dimensions**: 675mm x 440mm x 680mm (including cables)
- **Weight**: 18kg (without filament spools)
- **Shipping box dimensions**: 760mm x 550mm x 630mm
- **Shipping weight**: 24kg

### PRINTER PROPERTIES
- **Architecture**: Independent Dual Extruder (IDEX)
- **Technology**: Fused Filament Fabrication (FFF)
- **Build Volume**: 420mm x 297mm x 210mm
- **Extruders**: 2
- **Nozzle diameter**: 0,3mm / 0,4mm / 0,5mm (Special) / 0,6mm (Standard) / 0,8mm / 1,0mm
- **Heated bed**: PCB
- **Screen**: Full Color Capacitive TouchPAD
- **Electronics**: BCN3D Electronics v1.0
- **Firmware**: BCN3D Sigma – Marlin
- **Supported files**: gcode

### PRINTING PROPERTIES
- **Layer height**: 0,05 – 0,5mm (depending on the nozzle diameter)
- **Extruder maximum printing temperature**: 280°C
- **Operating sound**: 50 dB(A)
- **Positioning resolution (X/Y/Z)**: 12,5µm / 12,5µm / 10µm
- **Operating temperature**: 15°C – 35°C
- **Extruder maximum temperature**: 290°C

### MATERIALS
- **Filament diameter**: 2,85 ± 0,05 mm
- **Compatible Materials**: PLA, ABS, PVA, Co-polyesters, Nylon, TPU, HIPS, Specials

### ELECTRIC PROPERTIES
- **Input**: AC 84-240V, AC 7,2-2,6A, 50-60Hz
- **Output**: 24V DC, 26A
- **Power Consumption**: 480W

### SOFTWARE
- **File preparation software**: Cura-BCN3D, Simplify3D
- **Operative Systems**: Windows, Mac, Linux
- **Supported files**: STL, OBJ, AMF

### ELECTRIC PROPERTIES
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- **Output**: 24V DC, 26A
- **Power Consumption**: 480W