

sigmax

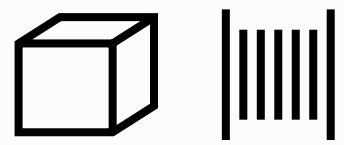


BCN3D Sigmax

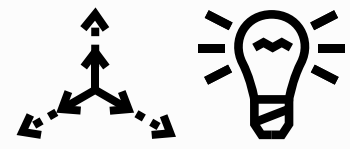


BCN3D Sigma

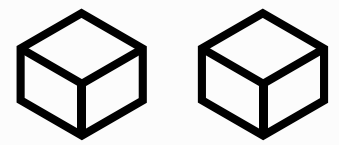
The BCN3D Sigma is a professional FFF 3D printer characterized by its impressive printing volume and Independent Dual Extruder (IDEX) system. These main features turn the Sigma in the most versatile 3D printer in the market, ideal for those who need to print big, complex parts or increase their productive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



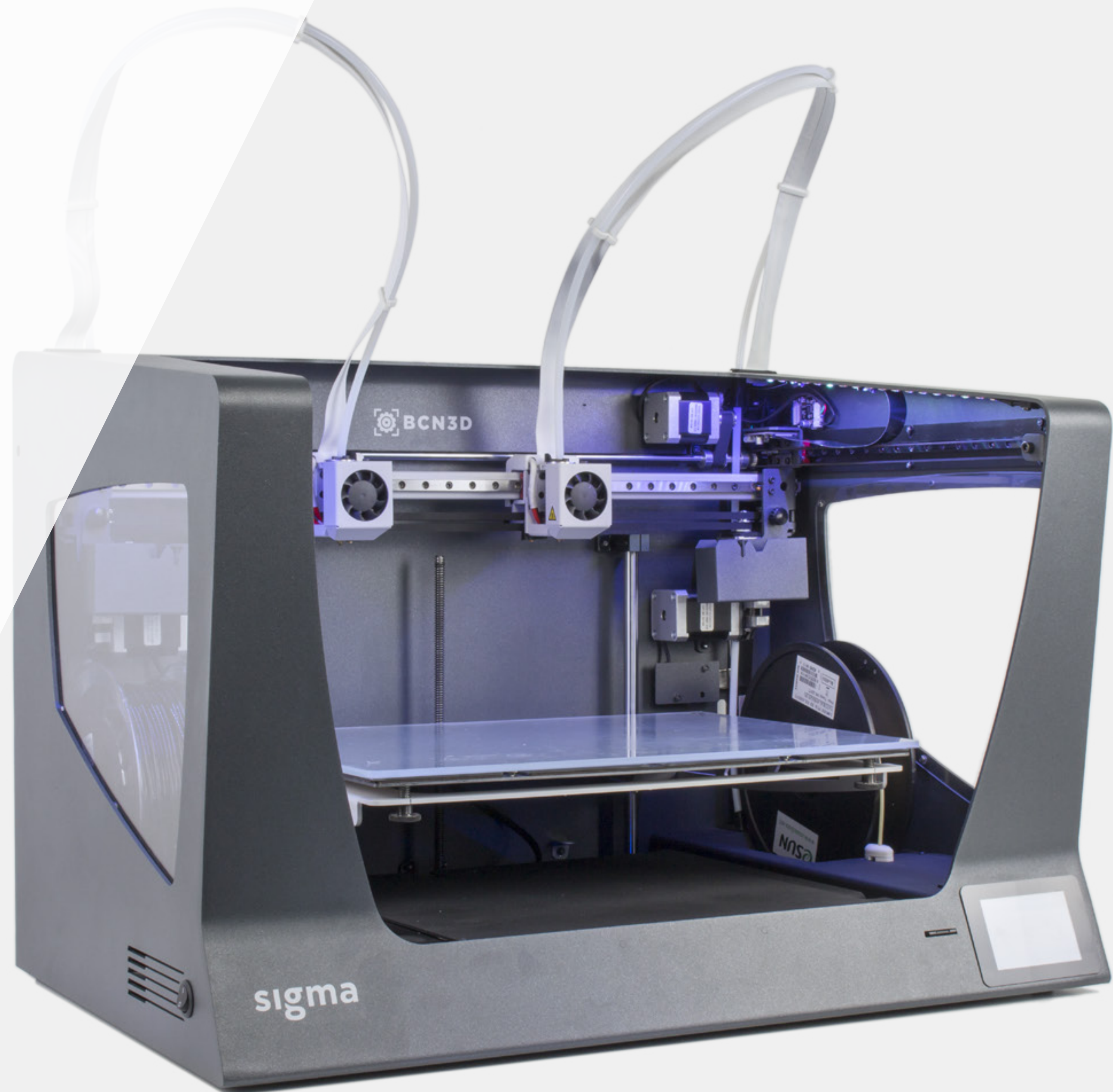
Beyond geometric and material limitations



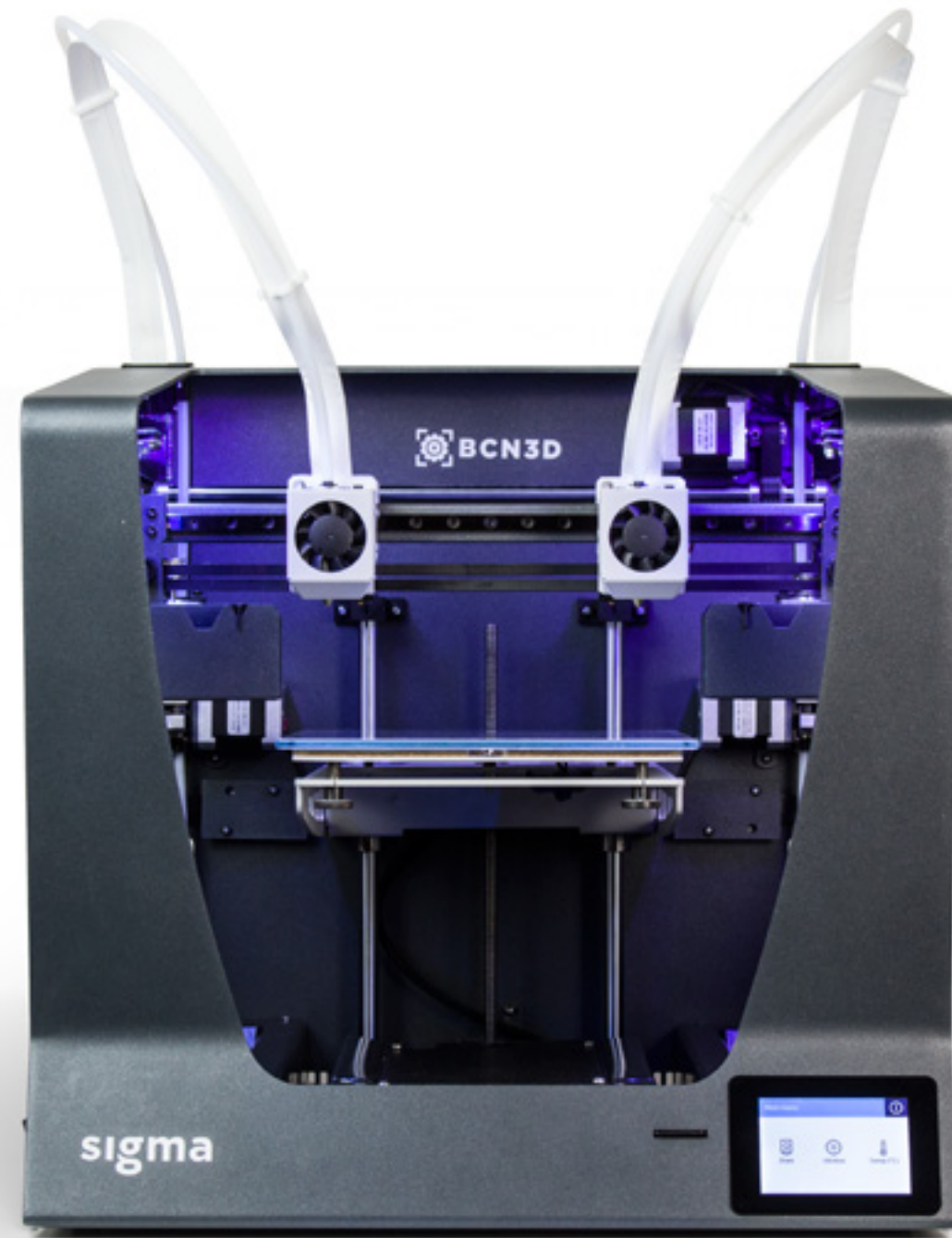
Capture even bigger ideas



Duplicate your productivity

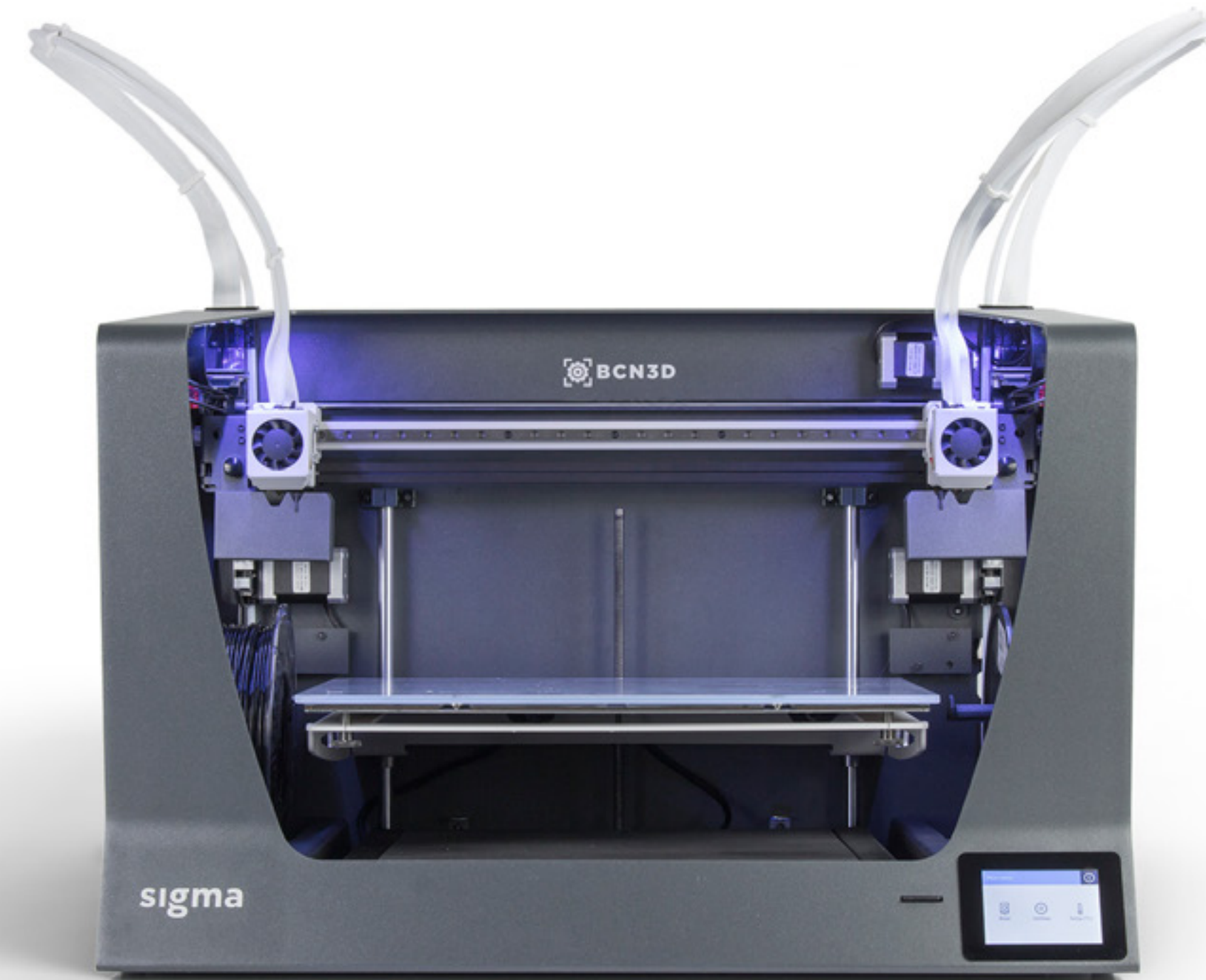


RANGE OF PRODUCTS



Sigma R2017

- **Overall dimensions:**
465mm x 440mm x 680mm
- **Printing modes:**
Simple
IDEX
- **Build Volume:**
210mm x 297mm x 210mm
- **Default hotend:**
0,4mm



Sigma Max

- **Overall dimensions:**
665mm x 440mm x 680mm
- **Printing modes:**
Simple
IDEX
Mirror
Duplicator
- **Build Volume:**
420mm x 297mm x 210mm
- **Default hotend:**
0,6mm



A new standard

The unique Independent Dual Extruder system allows to print 2 different materials or colours while ensures 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.

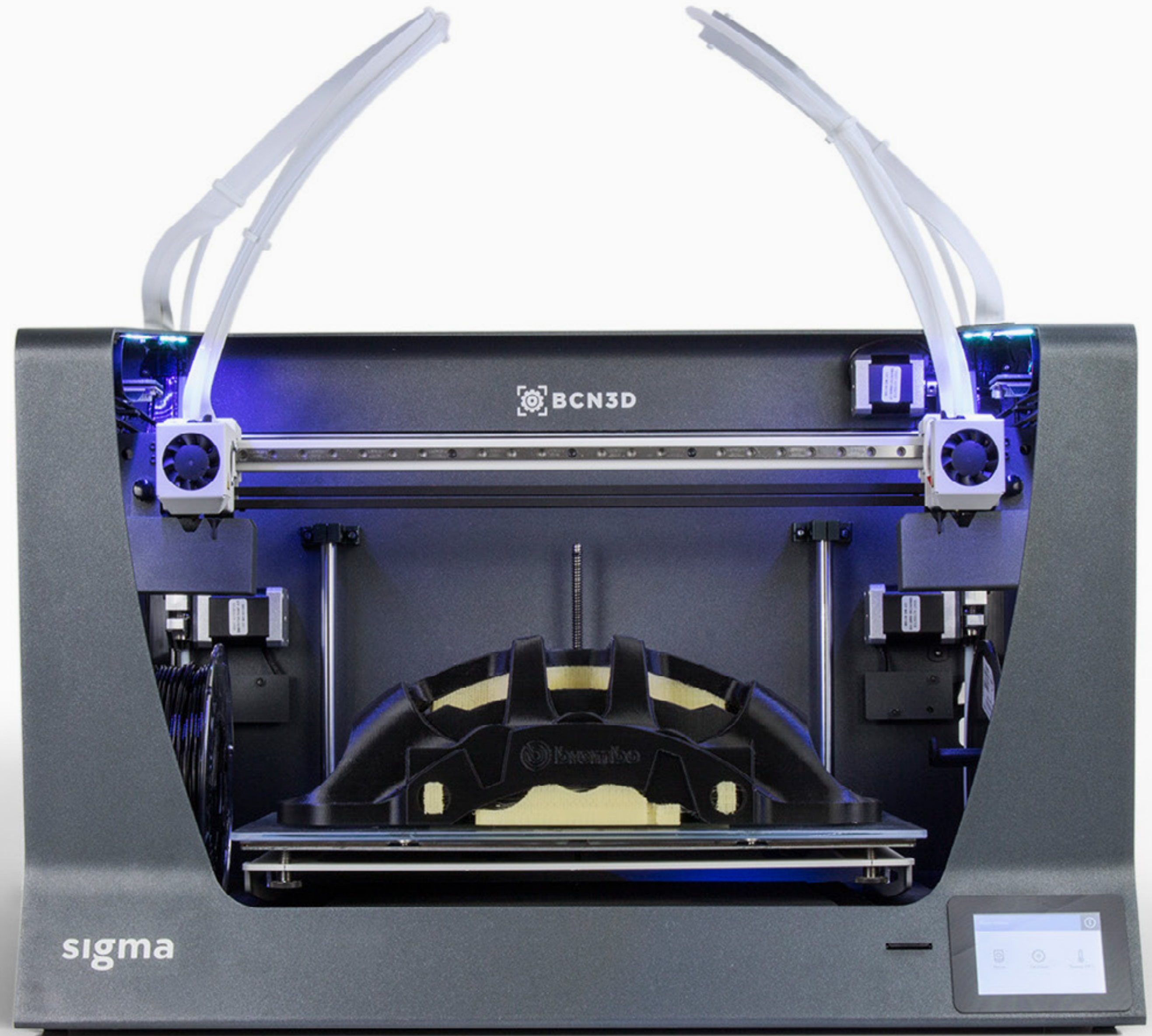
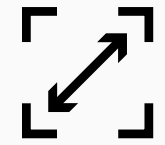


SCALE UP YOUR PROJECTS

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.

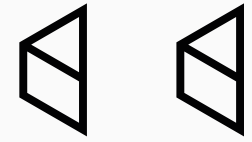
Don't constrain your ideas, just make them real.



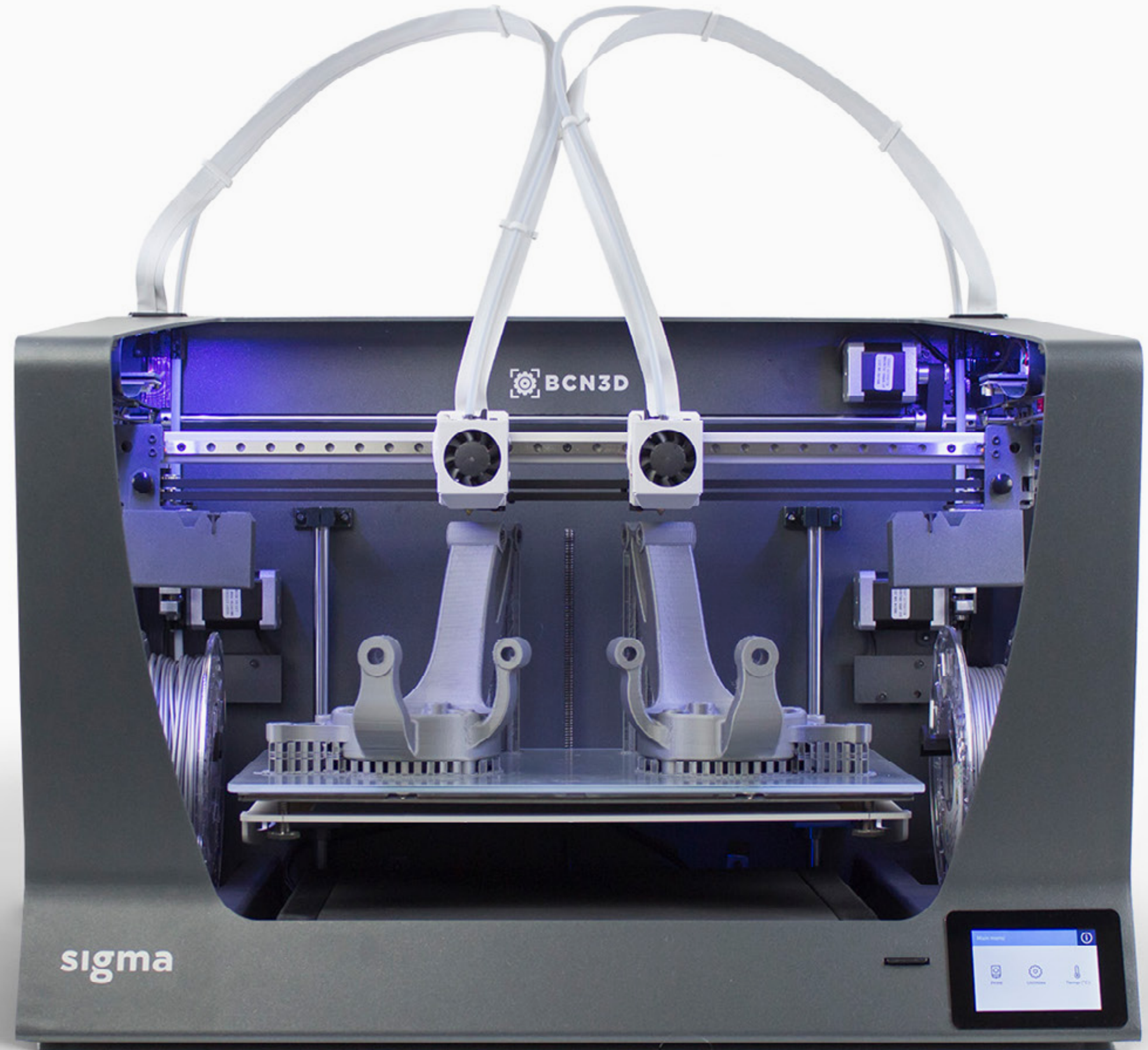
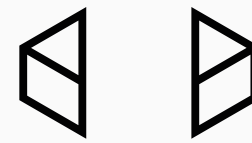
BOOST YOUR PRODUCTIVITY

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
Independent Stepper Drivers

Firmware
BCN3D Sigma - Marlin

Supported files
gcode

Operating Sound
50 dB(A)

Certifications
CE / FCC

Connectivity
SD Card (autonomous)
USB

PRINTING PROPERTIES

Layer height
0,05 - 0,5mm
(depending on the nozzle diameter)

Positioning resolution (X/Y/Z)
12,5µm / 12,5µm / 10µm

Operating temperature
15°C - 35°C

Extruder maximum temperature
290°C

SOFTWARE

File preparation software
Cura-BCN3D, Simplify3D

Operative Systems
Windows, Mac, Linux

Supported files
STL, OBJ, AMF

Extruder maximum printing temperature
280°C

Heated bed maximum temperature
100°C

Support Material
PVA for PLA // HIPS for ABS

ELECTRIC PROPERTIES

Input
AC 84-240V, AC 7,2-2,6A, 50-60Hz

Output
24V DC, 26A

Power Consumption
480W

MATERIALS

Filament diameter
2,85 ± 0,05 mm

Compatible Materials

PLA
ABS
PVA
Co-polyesters

Nylon
TPU
HIPS
Specials



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