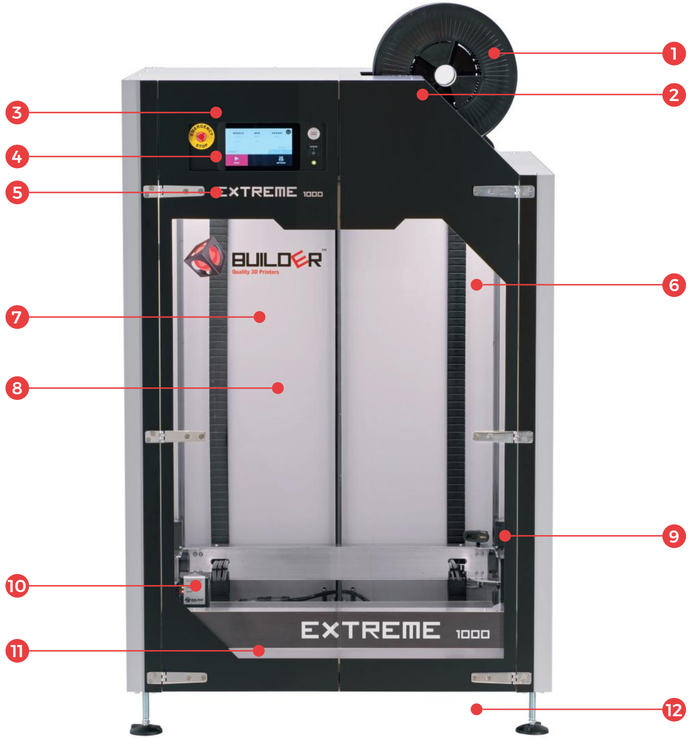

Key features

1. FIlament 2 x 4.5 kg
2. Filament detection
3. Wi-Fi and ethernet
4. 7-inch touchscreen
5. USB
6. Uniterruptible power supply
7. 700 x 700 x 820 mm (XYZ)
8. Fully-closed housing
9. Onboard Camera
10. Dual-Feed extruder
11. Heated bed
12. BOFA extraction unit (optional)

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BUILDER

3D print functional and complex industrial grade parts on the Builder Extreme 1000 PRO.

Fully-closed housing

The fully closed housing of the Builder Extreme, in combination with the heated bed, positively influences the print quality of the finest details of your print. It also improves the adhesion of the 3D printed part which is a key factor for extremely large prints. The transparent doors allow you to monitor the 3D printing process and reduce the sound of the machine by 40%.

Specs

Builder Extreme 1000 PRO

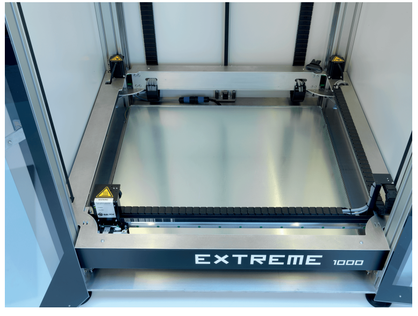
Please find below the key specs of the Builder Extreme 1000 PRO. Is there a specific spec or material you are missing? Please contact the Builder team. A complete spec sheet can be found on our website.

Key Features	Operating volume	700 x 700 x 820 mm (XYZ)
	Print speed	Up to 300 mm/s
	Layer height resolution	0.1 – 0.9 mm
	Unique features	Filament detection system Uninterruptible power supply Easy-to-swap nozzles BOFA extraction unit (optional)
General specifications	Outside dimensions	101 x 101 x 155 cm (LxWxH)
	Shipping dimensions	108 x 108 x 190 cm (LxWxH)
	Weight	225 kg
	Power rating	1800 W (peak)
	UPS system	Resume after power outage
Printing process	Technology	Fused deposition modeling (FDM/FFF)
	Print head	Mono- or Dual-Feed Extruder
	Print speed	Up to 300 mm/s
	Travel speed	Up to 500 mm/s
	Build plate	Aluminium build plate
	Heated bed	Up to 60 °C
	Bed Leveling	Automatic leveling
	Feeder type	Direct drive
	Nozzle diameter	0.4 / 0.8 / 1.2 mm
Control	Connectivity	Wi-Fi, USB port, Ethernet
	Display	7-inch full color touch screen
	On-board camera	Snap shots from desktop or mobile devices
	Supplied software	Simplify3D®
Filaments	Filament diameter	1.75 mm
	Filament detection	Yes
	Materials	PLA, PET, PVA, PRO1 (ABS replacement), flexible filament

** Some specs might be subjected to change.*

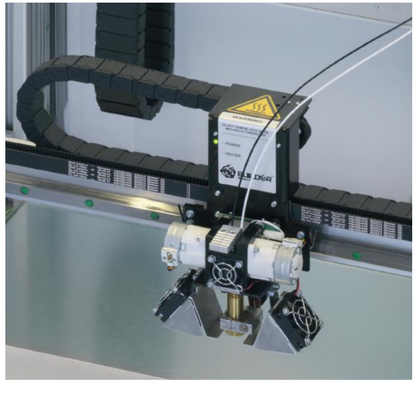
Massive build volume

The large build volume of 700x700x820 mm (XYZ) makes the Builder Extreme 1000 PRO one of the biggest industrial FDM 3D printers available today. With these dimensions of the printing area, engineers are now able to print full size objects within days. It is the perfect machine for 3D printing full-size automotive or aerospace prototypes, new product designs and art pieces.



Effortless operation – 7-inch touch screen

The responsive, full-colour touch screen makes operating the Builder Extreme easy and effortless. The touch screen allows you to have adjustment control over the 3D printed part and Builder Extreme. From print speed, temperature to changing filaments – most of the parameters can be changed on the screen. The printer comes with useful instruction videos about the machine operation and maintenance. Lock the screen with your personal code for safety reasons.



Versatile Dual-Feed extruder

The Dual-Feed extruder was developed in-house and has only one nozzle. The machine allows printing dual-material objects, such as PLA with PVA, as well as extremely large single material prints. The extruder comes with a set of easy to swap nozzles of three different diameters, which helps optimise between the print quality and time.

- 0.4 mm nozzle	(0.1 – 0.3 mm layer height)
- 0.8 mm nozzle	(0.4 – 0.7 mm layer height)
- 1.2 mm nozzle	(0.8 – 0.9 mm layer height)

Features that make large scale 3D printing trouble-free

The Builder Extreme comes with an integrated UPS system that resumes the operation after a power cut. When a power failure occurred, the current status will be saved and as soon as the power comes back, you can resume the print. The filament detection kicks in when the machine is running out of filament. After refilling the new spool, you can finish the print job. This also allows you to fully use each spool to reduce leftovers on bigger spools.