

bigrep ONE

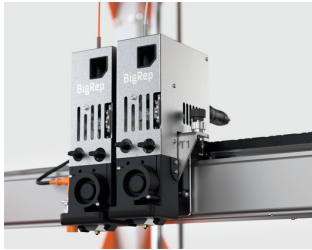


LARGE 3D PRINTERS FOR INDUSTRIAL APPLICATIONS

The BigRep® ONE was developed to make 3D printing of large-scale industrial objects as easy as possible. The highest quality machinery enables accuracy, speed and easy access to the print bed for large-format printing of industrial objects. Every detail has received our full expertise and experience, for better quality, higher speed and increased safety.

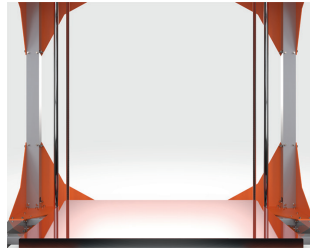


With a build volume of more than one cubic meter, the workhorse BigRep ONE 3D printer has been German-engineered and manufactured for countless printing hours, consistent quality and optimal results.



Modular and Independent
The Fiber Extruders

The modular print heads work independently, allowing flexibility when printing in two colors or different materials (break-away or soluble). With 0.6 mm, 1 mm nozzles for Fiber PEX and an additional 2 mm nozzle option for PEX, the hot ends are easily adjusted and replaced.



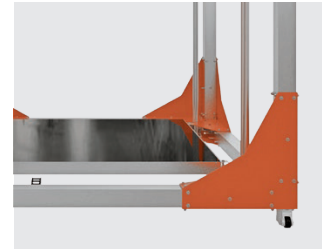
One Cubic Meter
The Build Volume

The BigRep ONE features a build volume of 1005 mm x 1005 mm x 1005 mm. With a capacity of over one cubic meter, the BigRep ONE is the largest serially produced FFF 3D printer currently available on the international market.



Easy and Intuitive
The Graphical User Interface

The new intuitive user interface on the touch panel PC brings about a ton of new features, such as remote load, print progress monitoring via webcam, effortless changing of print parameters, resuming printing after power failure, and many more.



Open and Safe
The Frame Construction

The open format ensures effortless quality and progress monitoring. The enclosed design is aided by integrated sensors for precision and user friendliness. The spool holder can hold two spools up to 8kg, and an in-built detection system notifies when the filament is about to end.

TECHNICAL SPECIFICATIONS

Build volume	x 1005 y 1005 z 1005 mm (x 39.5 y 39.5 z 39.5 in)
Layer height resolution	0.1 mm - 1.4 mm*
Acceleration	Up to 400 mm/s²
Extruder	Two modular extrusion heads - Power Extruder with 2mm nozzles - Fiber Power Extruder with 0.6mm and 1 mm nozzles
Printing technology	FFF – Fused-Filament-Fabrication (FDM)
Certified BigRep materials	HI-TEMP CF, PETG, PLA, PLA Antibacterial, PLA Ultralight, PLX, Pro HT, TPU Other filaments upon request
Support materials	BVOH Other filaments upon request
Print bed temperature	Max. 80 °C (176° F)
Printer weight	Approx. 460 kg (1,014 lb)
Size	x 1850 y 2250 z 1725 mm (x 72.8 y 88.6 z 67.9 in)
Power	208 V – 240 V, 16 A, 50/60 Hz
Safety certifications	CE approved

* Depending on selected extruder/ nozzle



319 South 1st Street
Temple, TX 76504

www.ImpacSystems.com

254.742.2050 713.784.3500

