bigrep ONE

INDUSTRIAL 3D PRINTING IN LARGE SCALE

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.

GERMAN DESIGN AWARD 2016

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 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 or 2 mm nozzles, the hot ends are easily adjusted and replaced. While printing the inactive print head moves upwards to avoid the object.
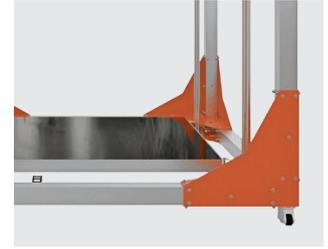

One Cubic Meter
The Build Volume

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)**
Layer height resolution	**0.1 mm - 1.4 mm***
Acceleration	**Up to 400 mm/s²**
Extruder	**Two modular extrusion heads** Standard Extruder with 1 mm nozzle Power Extruder with 0.6 mm, 1 mm and 2 mm nozzles (option)
Printing technology	**FFF – Fused-Filament-Fabrication (FDM)**
Certified Bigrep materials	**PLA, PETG, Pro HT, Pro HS, Pro FLEX** Other filaments upon request
Support materials	**PVA** Other filaments upon request
Print bed temperature	**Max. 80 °C**
Printer weight	**Approx. 460 kg**
Size	**x 1850 y 2250 z 1725 (mm)**
Power	**208 V – 240 V, 16 A, 50/60 Hz**
Safety certifications	**CE approved**

* Depending on selected extruder/ nozzle

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