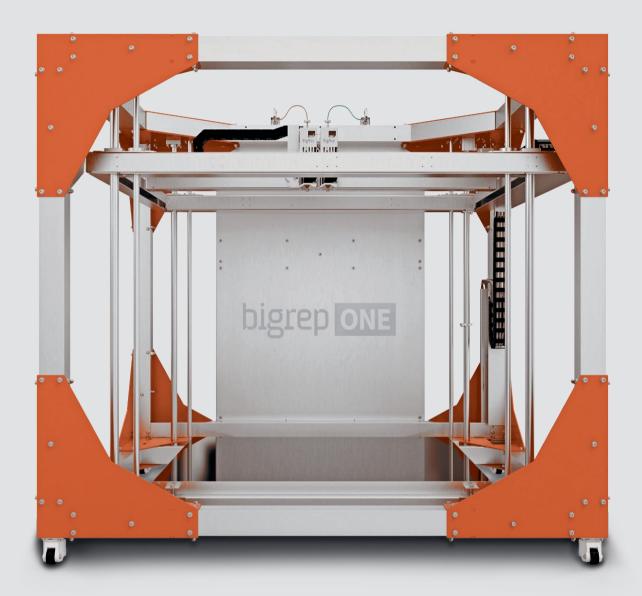
bigrep ONE



THE MOST ADVANCED LARGE SCALE 3D PRINTING EXPERIENCE.

The large-scale FFF 3D printer for professional and industrial use.



The driving force behind the BigRep ONE hasn't changed: make large-scale 3D printing affordable and available to more users. To achieve the best possible conditions for printing large objects a lot of new features are being introduced.

To achieve the best possible conditions for printing large objects, a lot of new features have been introduced to the latest version of the BigRep ONE large scale 3D printer. The modular print heads have been completely redesigned, in combination with a larger flexible spool holder, this provides the ideal 3D printer for manufacturing large-scale objects. The open format allows the user to have the best view for monitoring the print process. For large scale prints, our new high throughput extruder for 1 and 2mm nozzles allows for the highest throughputs, making the BigRep ONE v3 one of the fastest large-scale 3D printers on the market.

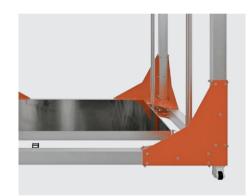






UNCOMPROMISING GERMAN ENGINEERING — THE NEW **BIGREP ONE**

The BigRep ONE v3 was developed to make 3D printing of large-scale objects as easy as possible. Every detail has received our full expertise and experience — for better quality, higher speed, and increased safety.



Open and Safe

The Print Heads

large-scale printing projects.

The Print Bed

prep time considerably.

The Frame Construction

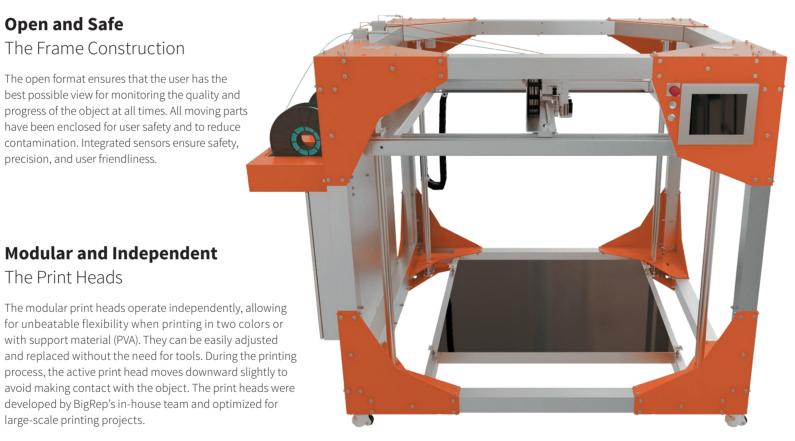
The open format ensures that the user has the best possible view for monitoring the quality and progress of the object at all times. All moving parts have been enclosed for user safety and to reduce contamination. Integrated sensors ensure safety, precision, and user friendliness.

Modular and Independent

The heated print bed provides optimal adhesion in the printing process right from the onset. Thanks to

the integrated automatic inductive sensor, the print

bed can be leveled quickly and effortlessly, reducing



The BigRep ONE v3 – the largest serially produced FFF 3D printer.

Big, Bigger, the Biggest

The Build Volume

The new BigRep ONE v3 features a build volume of X 1005 mm x Y 1005 mm x Z 1005 mm. With a capacity of over one cubic meter, the new BigRep ONE v3 provides the largest FFF build volume currently available on the international market.



Spacious and Flexible

The Spool Holder

The spool holder was designed to fit all standard spool sizes. It can hold several spools up to 8 kg. A run-out detection system notifies the user when the spool is about to end.

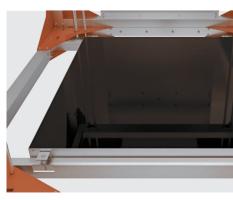


Semi-automatic print bed levelling **Easy and Intuitive**

The Graphical User Interface

New intuitive user interface on touch panel PC, enabling lots of new features as remote load and check print progress via webcam, resume print after power failure and many

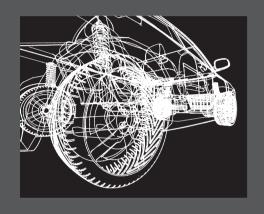






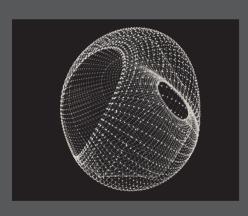
A COST-EFFICIENT TECHNOLOGY FOR A BROAD RANGE OF APPLICATIONS

The BigRep ONE v3 sets new standards and offers a broad range of applications for large-scale 3D printing projects. It is easy to use and can be employed virtually anywhere, allowing quick and cost-efficient manufacturing of prototypes, molds, and, in particular, final products.



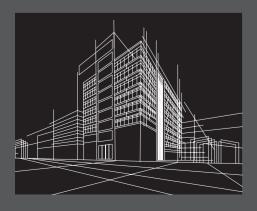
ENGINEERING AND RAPID PROTOTYPING

Being able to produce prototypes quickly and cost-efficiently opens up new development and design possibilities for industrial users. With the BigRep ONE v3 large numbers of iterations can be simply manufactured without incurring high costs. This means better products and shorter development times.



RESEARCH AND DEVELOPMENT

With the BigRep ONE v3 we provide a tool that offers new possibilities for teaching and research to students, teachers and scientists alike. The machine is easy to use, plus its open format enables numerous users to observe, and to experiment with additive manufacturing processes while gaining experience in the production of large-scale objects.



ART, DESIGN, AND ARCHITECTURE

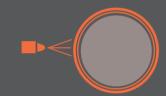
The BigRep ONE v3 is a tool which opens up previously inconceivable opportunities to designers, artists, and architects. The BigRep ONE v3 can be installed virtually anywhere and put into operation after brief familiarization. Creative professionals can now produce large objects in their own studios and workshops. Thanks to the cost-efficient technology, trying out various designs quickly and effortlessly is no problem. Even final products of up to one cubic meter in size can be manufactured with the BigRep ONE.

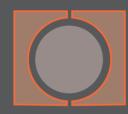


REFINE BIG PRINTS WITH POST-PROCESSING

Sometimes a 3D print serves as a blank. Objects printed with FFF can be treated and refined in various ways, for example by improving or modifying their surfaces or by using objects as positive or negative forms for molding and casting processes.







SMOOTHING AND FINISHING

Grinding, sandblasting, and shot blasting as well as vapor steaming are the most common methods for finishing FFF 3D-printed objects. This allows the creation of prototypes which adequately convey the final product's look and feel.

Smartly combining design or construction and finishing results in usable and aesthetically sophisticated products.

COATING

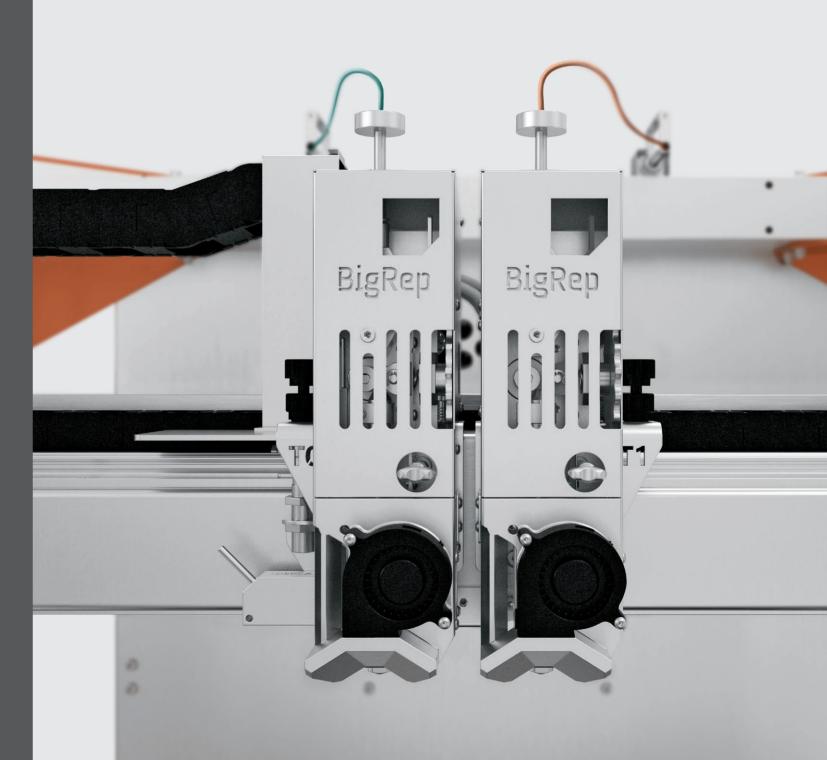
Various coating methods help create trueto-the design prototypes out of 3D-printed objects. Coatings can also improve functional characteristics such as strength, temperature resistance, and adhesiveness.

MOLDING AND CASTING

3D printing, and especially large-scale 3D printing, is an ideal tool for manufacturin positives for molds and casts. Injection molding, silicone molding, and composite molding are the most commonly used techniques.

The BigRep ONE v3 provides cost-efficient technology for the production of molds for large-scale prototyping and production processes.

Effective and successful finishes require good quality 3D prints. The BigRep ONE v3 modular print heads were developed from scratch by our in-house team and can be controlled independently. You can also vary the print speed and amount of material extruded by each print head during the printing process.





UPGRADE YOUR BIGREP ONE AND EXPAND THE POSSIBILITIES

In its basic configuration, the BigRep ONE v3 provides optimal printing results in many fields. For even better quality and safer as well as faster prints, two upgrade packages are available for the BigRep ONE.



ADVANCED KIT

For even better print quality, the Advanced Kit provides protection for the printing material by shielding it from exterior factors such as dust and humidity until in use. This is especially important when working with strongly hygroscopic materials which attract moisture from the environment, as e.g. water soluble support materials.

The Advanced Kit also offers the possibility of monitoring and controlling the printing process remotely. A webcam is installed directly on the printer by BigRep and can be accessed via an app, which can also be used for performing simple operations.



HIGH THROUGHPUT EXTRUDERS

Our high throughput extruders (option) can be equipped with hot-ends for 1mm and 2mm nozzles and make it possible to produce large scale prints significantly faster than if you were using standard extruders.

The new high throughput extruders make the BigRep ONE v3 the fastest large scale FDM 3D printer on the international market.



FILAMENT

BigRep offers filaments designed especially for largescale printing with the BigRep ONE. These filaments are manufactured under carefully controlled conditions to ensure a consistent diameter and thus consistent and precise construction of objects.

Alongside black and white, BigRep offers filament in various colors, all inspired by the city in which we were founded: Berlin. Please visit bigrep.com/shop to discover all options currently available.

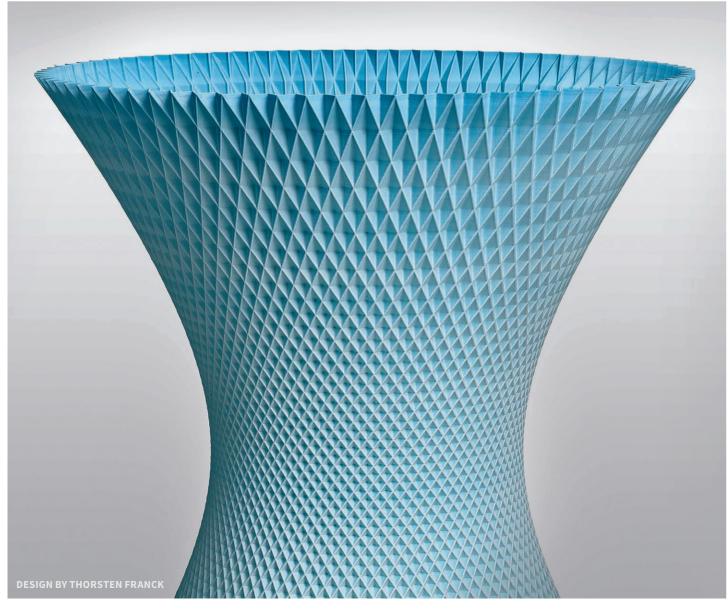
TECHNICAL SPECIFICATIONS

With a build volume of more than one cubic meter, the BigRep ONE v3 was designed and constructed for countless printing hours, consistent quality, and optimal results.

| Build volume | x 1005 y 1005 z 1005 (mm) |
|-----------------------|---|
| Layer resolution | 400 – 900 microns / *150 – 400 microns |
| | *0.5 mm nozzle optional |
| Extruder | Two modular extrusion heads |
| Printing technology | FFF – Fused-Filament-Fabrication (FDM) |
| Certified materials | BigRep PLA, BigRep Pro HT, BigRep PETG, |
| | other filaments on request. |
| Support materials | BigRep PVA |
| Heating strategy | 60 – 80 °C |
| Printer weight | Approx. 460 kg |
| Size | x 1850 y 2250 z 1725 (mm) |
| Power | 208V - 240V, 16A, 50/60Hz |
| Safety certifications | CE approved |
| GUI | Onboard with touch panel PC |
| | |





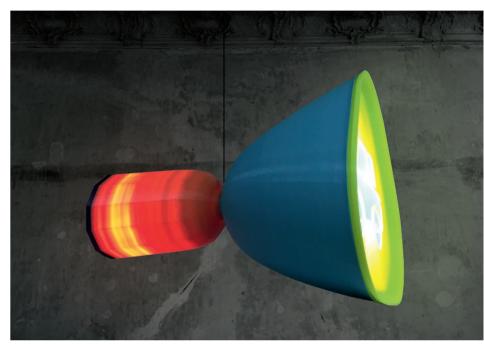


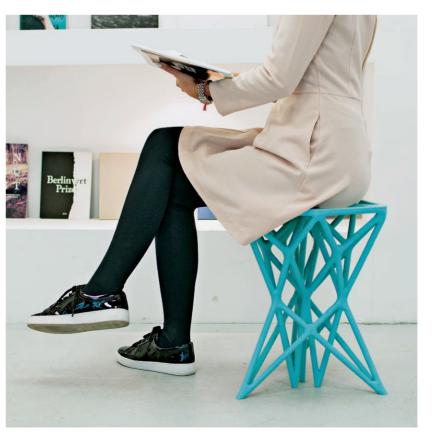












BIG PRINTS.

From experiments to complete furniture, from individual parts to objects composed of multiple components, from the initial idea to the final product – anything is possible.



SMART SOLUTIONS FOR **BIG IDEAS**.

bigrep.com