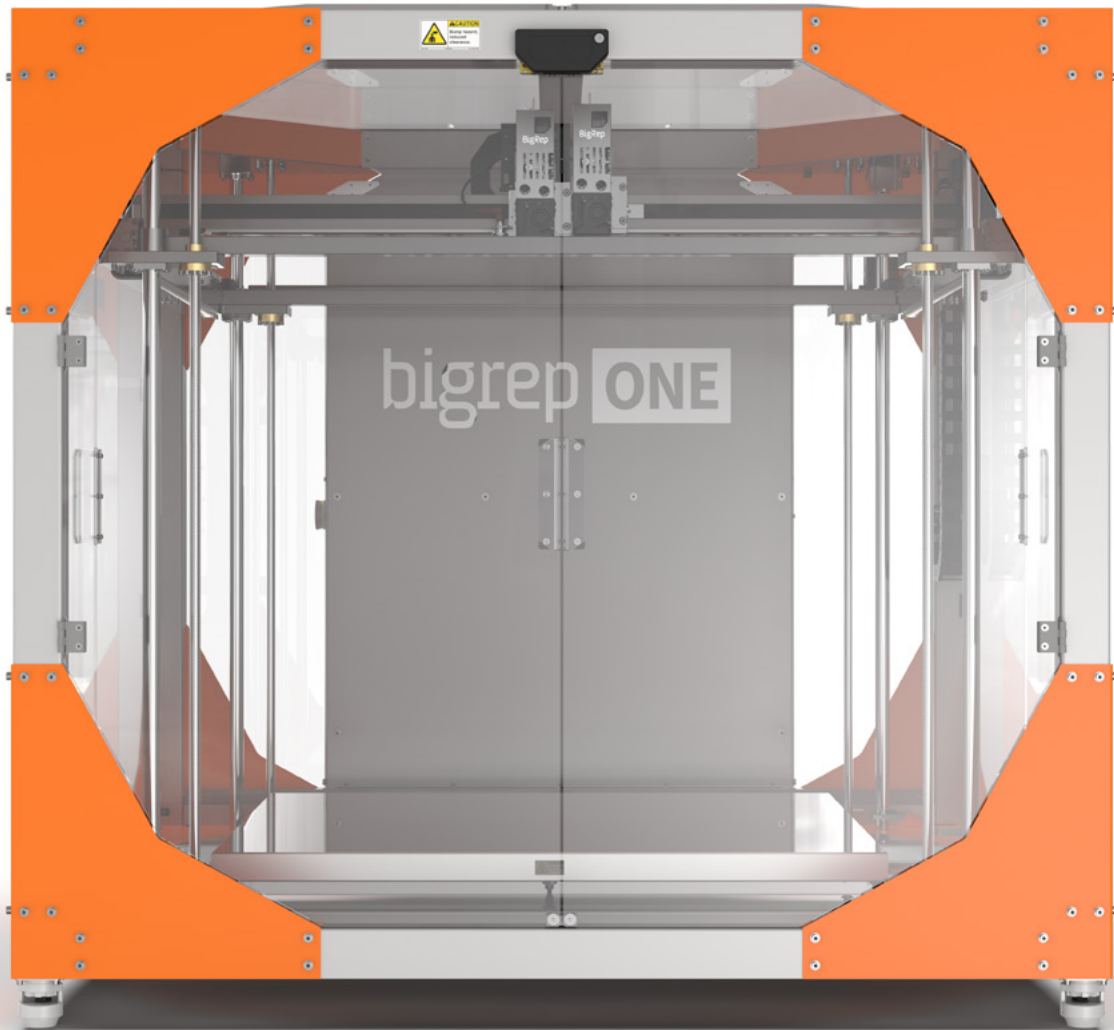
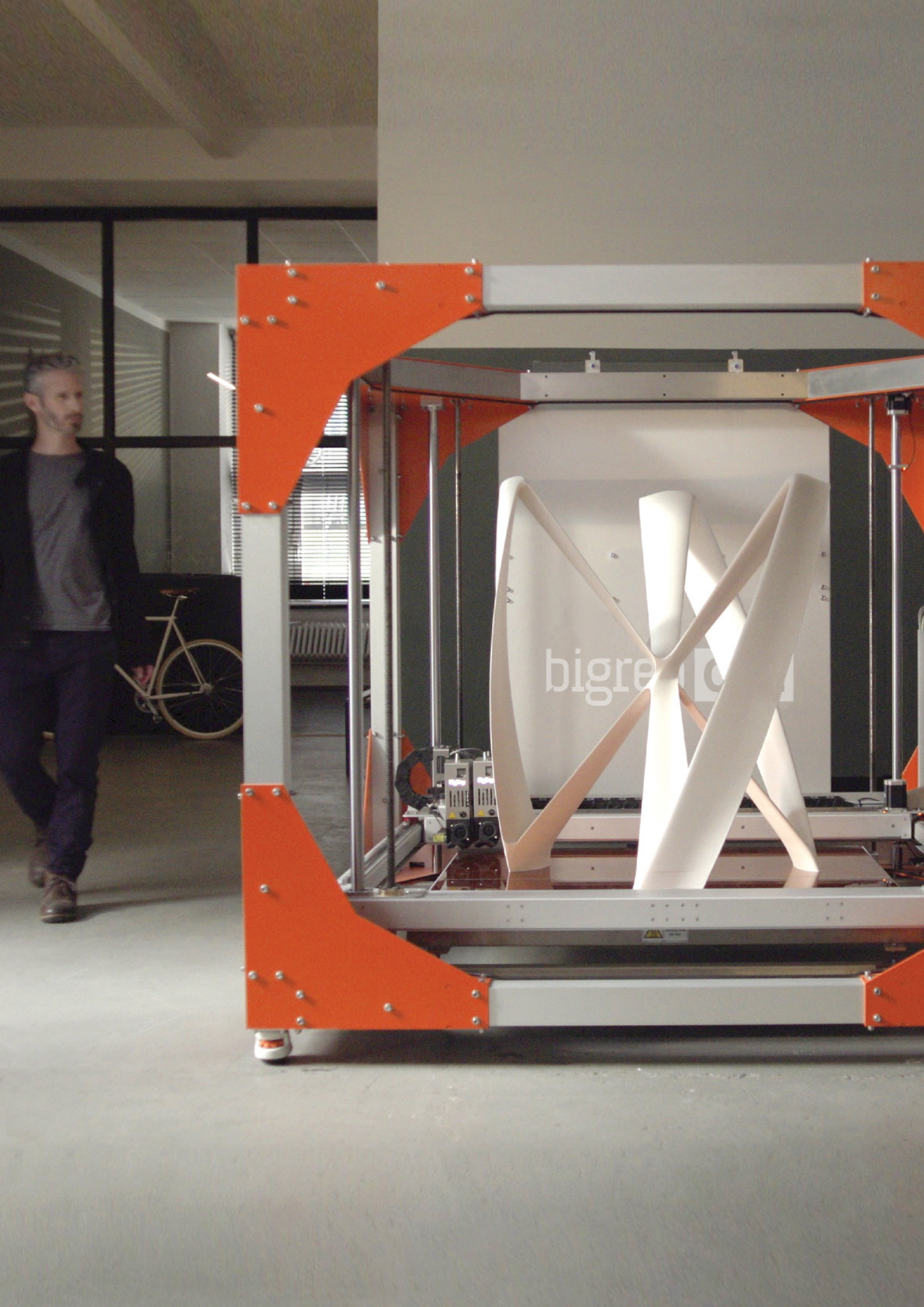


bigrep **ONE**



LARGE-SCALE **INNOVATION.**
LIMITLESS **CREATIVITY.**

1 m³ for prototyping, production, and design applications.



A large industrial 3D printer with a prominent orange frame and silver vertical support columns. The machine is situated in a dark, industrial environment.

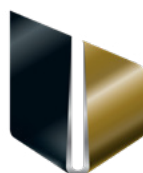
bigrep **ONE**

AWARD-WINNING INDUSTRIAL DESIGN FOR **BIG IDEAS**

The BigRep ONE is an award-winning, large-format 3D printer at an accessible price point. With over 750 systems installed worldwide, it's a trusted tool for designers, innovators, and manufacturers alike. Featuring a massive one-cubic-meter build volume, the fast and reliable ONE brings your designs to life in full scale.

Perfect for prototyping, production, and a wide range of applications, the ONE comes equipped with two BigRep fiber-ready Power Extruders (PEX) that feature interchangeable hotends with 0.6, 1.0 and 2.0 mm nozzles for maximum detail or high-flow additive manufacturing.

Configure your custom ONE and choose from single, dual, or twin extruder modes plus add-ons like an Keep-Dry Box and even the printer's color to create the perfect machine just for you. As your 3D printing needs evolve, simply upgrade your ONE with additional features to grow along with you.



german
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award
18
winner



GERMAN
DESIGN
AWARD
SPECIAL
2016

BIGREP ONE INNOVATION LINE

DESIGN & ARCHITECTURE



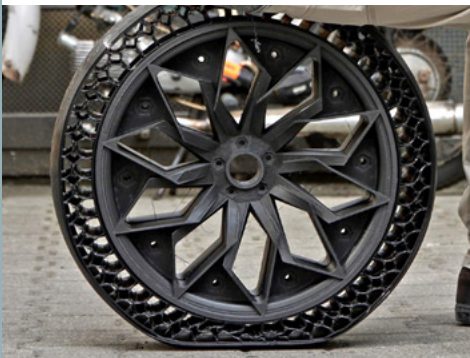
Whether it's fine art, museum displays, film props, or innovative installations, many BigRep customers agree that there is simply no other way to produce their large-scale creative projects. Applications using the BigRep ONE in architectural fields include custom interiors like functional sinks and decorative walls, as well as concrete formwork for unique architecture and restoration projects. By digitizing the fabrication process, designers open the door to a much wider spectrum of possibilities.

FORMS & MOLDS



3D printed patterns and molds can replace expensive CNC milled or hand-crafted traditional forms. By modernizing the first phases of numerous casting applications, the BigRep ONE allows you to produce in-house, iterate faster, cut material costs, and streamline logistics. BigRep customers use the ONE to print forms for making carbon-fiber parts like drones and custom auto bodies, for various kinds of concrete casting, and to produce patterns for anything from bathtubs to propellers.

PROTOTYPES



Producing prototypes quickly and cost-efficiently opens up new development and design possibilities for innovators. BigRep's large-scale 3D printing technology enables large numbers of iterations to be manufactured simply and quickly, without increasing costs. BigRep helped many customers completely transform their development processes resulting in better products, increased customization, and shorter lead times.

RESEARCH & EDUCATION



Many universities use the BigRep ONE to train their students using a pervasive technology to ensure quality, hands-on learning and research. Research teams test theories with rapid iteration and avoid third-party bottlenecks that slow down innovation. While your institution can save time and budget by eliminating external purchases, the biggest advantage of owning a BigRep machine is the chance to learn and experiment without limits.

BIGREP ONE **CASE STUDIES**



CDM:Studio

3D Printed Museum Exhibitions

CDM:Studio created over 110 beautifully life-like dinosaur models in just 9 months. The massive project is part of the permanent exhibition at the Western Australian Museum. In the past, each full-scale model would have had to be hand-built with clay, but the BigRep ONE helped to keep the deadline by skipping the manual labor.



Scan to see more



CJR Propulsion

Sand Casting Custom Propellers

3D printing with the BigRep ONE helps CJR Propulsion maintain its competitive edge in customized, high-performance marine propellers by pushing innovation and reducing costs with faster, automated production. By digitizing production, you can break free of traditional process chains and avoid slow and expensive skilled manual labor.



Scan to see more



Steelcase

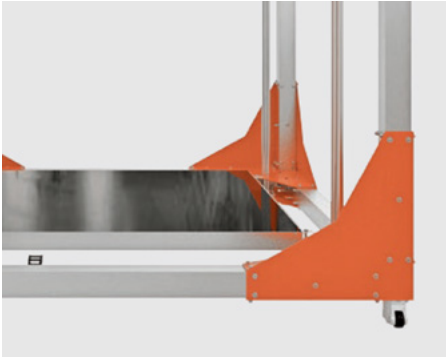
Revolutionizing Prototyping

Steelcase, a global leader in office furniture and space solutions, is using the BigRep ONE to print full-scale samples of new designs, to test how the final product fits in a working space. BigRep's large-scale 3D printing technology enables Steelcase to save on costs in product development, maximize design iteration, and get to market quicker.



Scan to see more

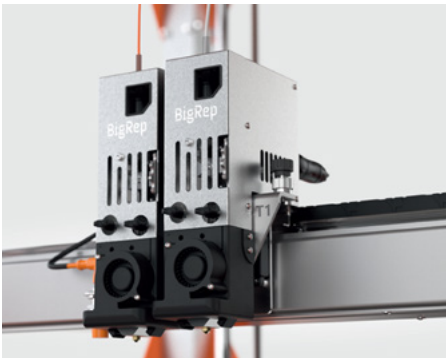
UNCOMPROMISING GERMAN ENGINEERING THE BIGREP ONE



Safe & Accessible

The Frame Construction

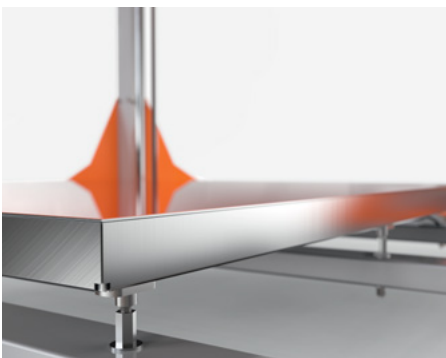
The open design ensures unobstructed print monitoring and easy access to the print bed. Check the print quality and progress at any time with access to the print bed from three sides. The **Plexiglass Enclosure** ensures a constant printing environment and provides CE-compliant operator protection.



Modular & Independent

The Fiber-Ready Power Extruder

BigRep's fiber-ready Power Extruder (PEX) is available for single or dual extrusion on the BigRep ONE. It consistently produces high-quality, full-scale parts in a range of BigRep filaments such as bio-polymers, water soluble support, and fiber-reinforced, as well as third party materials. Featuring interchangeable hotends with 0.6, 1.0 and 2.0 mm nozzles for maximum detail or high-flow additive manufacturing, the BigRep Power Extruder is a flexible solution for a variety of applications



Consistent & Efficient

The Semi-Automatic Print Bed

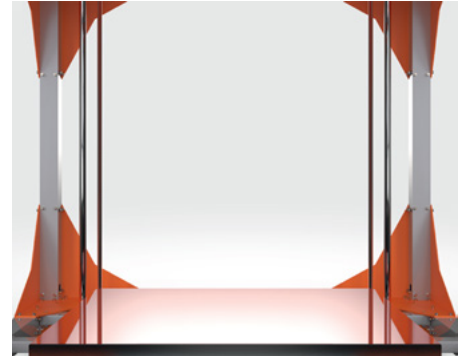
The heated print bed is coated with a polyimide foil that provides optimal adhesion throughout the printing process. Thanks to an integrated inductive sensor, the ONE uses semi-automatic print bed leveling to streamline build platform calibration and ensure peak performance and consistent prints.



The BigRep ONE 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.

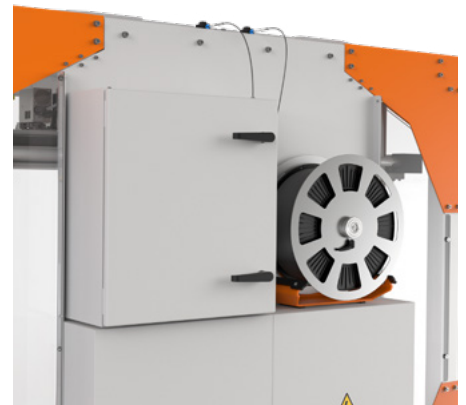
BigRep large-scale 3D printers are German-engineered for high performance around the clock. Made from the highest quality materials, and manufactured in the European Union, BigRep's workhorse machines are built to be reliable partners for innovation.

Large-Scale 3D Printing The Massive Build Volume



With a one-cubic-meter build volume, the BigRep ONE is designed to produce massive 3D prints for demanding and geometrically complex applications. Go beyond the limited capabilities of smaller systems and use the ONE to print your parts in full scale.

Secure & Spacious The Filament Enclosure



The newly designed filament enclosure ensures optimal material handling and fits all standard spool sizes, including two spools up to 8 kg. An out-of-filament sensor pauses printing so you can replace the empty spool, which is particularly useful for very large prints. The

Keep-Dry Box Add-On protects filament from moisture and dust.

Easy & Intuitive The Graphical User Interface

An intuitive user interface on the touch panel PC lets you access helpful features such as remote load, check print progress via webcam, change print parameters, resume print after power failure, and many more.



CONFIGURE YOUR SOLUTION

Configure your custom ONE and choose from single, dual, or twin extruder modes plus add-ons like an enclosed housing and even the printer's color to create the perfect machine just for you. As your 3D printing needs evolve, simply upgrade your ONE with additional features to grow along with you.

MODULES & ADD-ONS

Benefit from packages that are tailored to your needs and applications. Only pay for what you really need for your daily work.

SINGLE MODE

- ♦ BigRep ONE
- ♦ 1x Fiber-Ready Power Extruder
- ♦ 1x Fiber-Ready Hotend 1 mm
- ♦ Plexiglass Enclosure
- ♦ Remote Basic Training
- ♦ 2x PLA filament spools 2.5 kg

DUAL MODE

- ♦ 2nd Fiber-Ready Extruder
- ♦ 2nd Fiber-Ready Hotend 1 mm
- ♦ Unlocked Dual Extrusion
- ♦ Plexiglass Enclosure
- ♦ Remote Basic Training
- ♦ 1x BVOH filament spools 2.5 kg
- ♦ 4x PLX filament spools 2.5 kg

TWIN MODE *(requires Dual Mode)*

- ♦ All Dual Mode Features
- ♦ Unlocked Tandem Printing
- ♦ Plexiglass Enclosure
- ♦ 2x PRO-HT filament spools 2.5 kg
- ♦ 2x HI-TEMP CF filament spools 4.5 kg

ADD-ONS

CONNECTED CAMERA ADD-ON

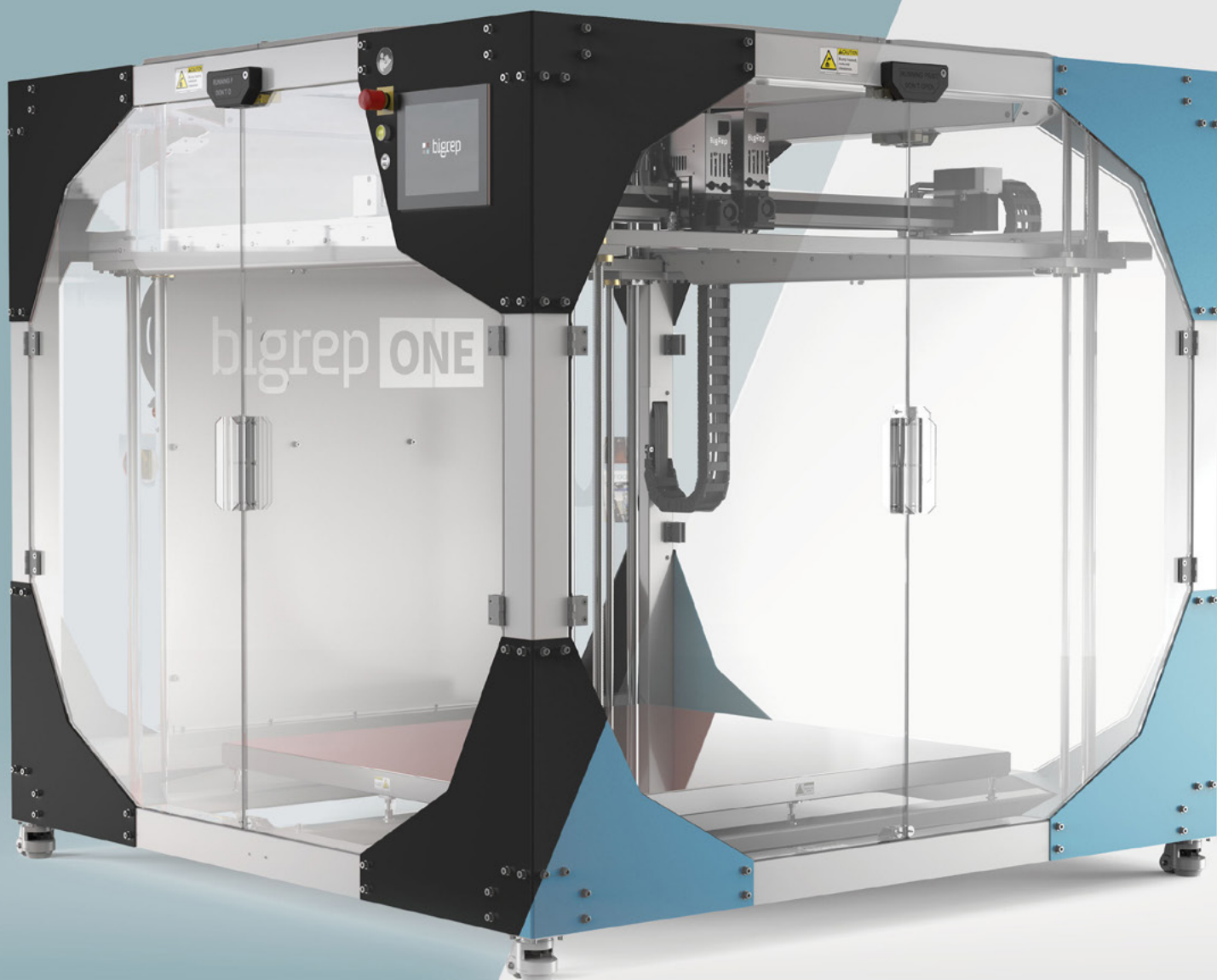
Monitor your print remotely via web cam from any computer or mobile device and check the progress of your print.

KEEP-DRY ADD-ON

Our new Keep-Dry-Box protects the filament from dust and moisture for optimal printing results, particularly for filament that is sensitive to moisture.

CUSTOM COLOR ADD-ON

Customize your printer and replace the standard BigRep orange corners with the paint color of your choice.



REDEFINING **ADDITIVE**

The BigRep ONE is suitable for a wide range of applications from rapid prototyping to end-use design products, patterns and molding. It provides you with affordable and easy-to-use technology for large prints and big ideas.



TECHNICAL SPECIFICATIONS

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

Version	BigRep ONE.4
Build volume	x 1005 y 1005 z 1005 mm (x 39.5 y 39.5 z 39.5 in)
Layer heights	0.3 mm, 0.6 mm, 1.0 mm*
Max. speed Max. acceleration	500 mm/s 400 mm/s²
Extruder	Fiber-Ready Power Extruder (PEX) Interchangeable hotends with fiber-ready 0.6 mm and 1.0 mm nozzles and a high-flow 2.0 mm nozzle
Printing technology	Fused Filament Fabrication (FFF / FDM)
Certified BigRep materials	HI-TEMP, HI-TEMP CF, PETG, PLA, PLX, PRO HT, TPU 98A Open for 3rd party materials
Support materials	BVOH Open for 3rd party materials
Print bed temperature	Max. 80 °C (176 °F)
Printer weight	Approx. 460 kg (1014 lbs)
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 (Enclosure required)

* Other layer heights supported through slicer software

BIGREP SOFTWARE SOLUTIONS

bigrep **CONNECT**

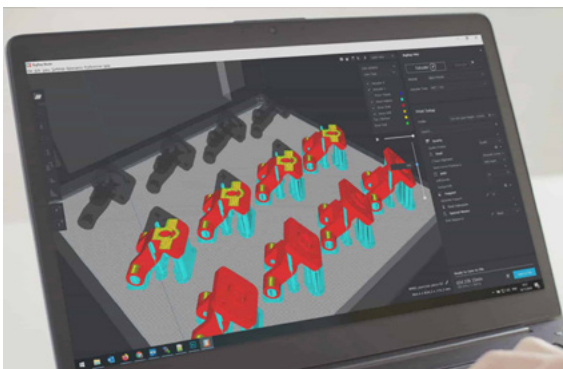
UNLOCK **DATA**. DISCOVER **CONVENIENCE**.



BigRep CONNECT is a **one-stop platform** connecting you with your BigRep printers, boosting productivity with remote monitoring and data analytics. It's fully web-based, giving you access no matter where you are or what device you use. **Monitor printer status** including temperatures, loaded material, and running updates. BigRep CONNECT's **print job management** lets you upload files, organize your job queue, preview prints, check elapsed and remaining print time, and much more. With **team management**, you can create user accounts with designated access to printers and custom user rights. BigRep CONNECT's **printing analytics** gives you statistical data - like printer and filament usage - so you can optimize your production to get the most from your BigRep 3D printer. Best of all: **it's free!**

bigrep **BLADE**

PREP **FASTER**. PRINT **SMARTER**.

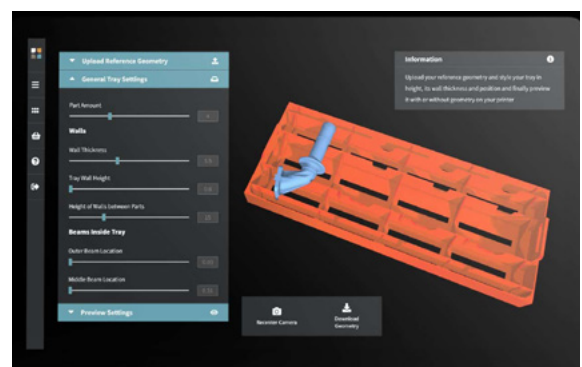


BLADE, BigRep's easy to use slicer software, allows for greater control of printing parameters on all BigRep large-format 3D printers. Its integrated estimation engine gives accurate printing time and material use predictions for unmatched planning and productivity.

bigrep **FLOW**

WORKFLOW **AUTOMATION**
FOR **TOOLS** THAT **WORK**.

A new customizable SaaS solution that makes application engineering for 3D printed jigs, fixtures, and manufacturing aids easier than ever, with no design skills or 3D printing experience required.





REQUEST A QUOTE

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Release Date
2022/11