

# bigrep **STUDIO**<sup>G2</sup>



**RELIABLE** PRINTING IN **LARGE-FORMAT**  
FOR **ENGINEERING-GRADE** MATERIALS



STUDIO G2

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## CREATE **DURABLE** LARGE-FORMAT PARTS **EFFICIENTLY & AFFORDABLY**

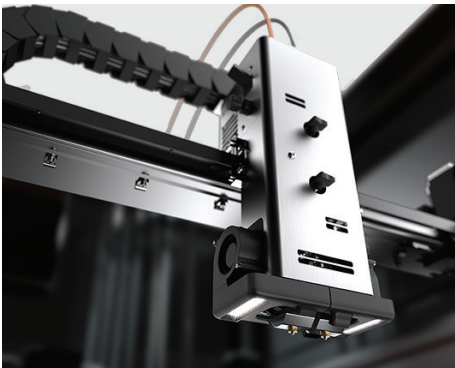
Explore new frontiers of large-format industrial printing with the new and improved BigRep STUDIO. Introducing the STUDIO G2, made for abrasive and engineering-grade materials. With a fast-heating print bed and temperature-controlled filament chamber this high-resolution large-print workhorse produces incredible results with high-quality materials.

Rediscover manufacturing with the BigRep STUDIO G2's engineering-grade materials. The enclosed print envelope maintains a controlled temperature and boasts a print volume of 500 mm x 1000 mm x 500 mm, enabling continuous printing of large-format objects with nylon and other engineering-grade materials. The dual extruder equipped with two 0.6 mm hot ends is specially designed for printing high-resolution, complex parts in an efficient, cost-effective process. In its sleek space-conscious body the STUDIO G2 is optimal for all workspaces, from design labs to production floors.

As winner of the prestigious 2018 German Innovation Award the BigRep STUDIO is the ideal German-engineered 3D printer, proven for all types of industry professionals to bring their innovative designs to life. Now the STUDIO G2, specially designed for 3D printing with engineering-grade materials, propels the STUDIO G2 to a class of its own.

# RELIABLE PRINTING IN **LARGE-FORMAT** FOR **ENGINEERING-GRADE** MATERIALS

The BigRep STUDIO G2 is optimal for large-format 3D print projects and has been specially designed for printing with engineering-grade materials. Delivering high-quality results at any time in an ideal size for all working and production environments.



## **Engineering-Grade Materials**

### The Best-In-Class Print Heads

With the inclusion of ruby nozzles, the STUDIO G2 is made for printing with abrasive, engineering-grade materials at maximum speed and high resolutions. The specially designed extruder achieves high-level detail with layer heights as low as 0.1mm on parts up to a meter long, enabling more options to perfect a part's mechanical properties.



## **Fully Enclosed Environment**

### The Insulated Build Envelope

The STUDIO G2's enclosed, temperature- controlled build envelope is the perfect environment for engineering-grade materials, providing users the ability to visually monitor the printing process with safe and easy access to the print bed. Environmental features like auto-pause upon opening ensure a smooth and safe printing process.



## **Independent Temperature Controls**

### The Heated Filament Chamber

The heated filament chamber integrated into the STUDIO G2 ensures that engineering-grade materials remain dry in a consistently controlled environment for best-in-class quality. Going beyond industry standards, the filament chamber features independent temperature control.



BigRep 3D printers are German-engineered for durable, around the clock performance. Made from the highest quality materials these workhorse machines are built to be reliable, long-term partners for innovation.



### Easy and Intuitive

#### The New Slicer

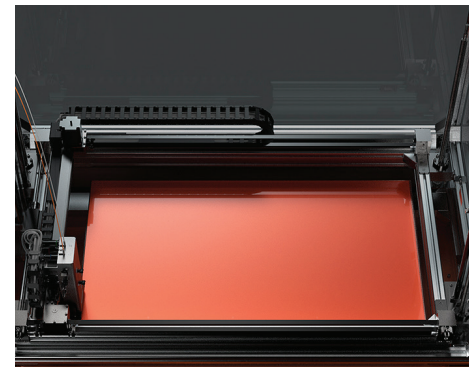
The easy to use BigRep "BLADE" slicing software allows for greater control of printing parameters while providing presets for all BigRep-compatible materials, making a rapid, hassle-free start to printing possible. The new estimation engine gives accurate printing time and material use predictions for unmatched productivity. BLADE is one of the fastest and most precise slicers on the market.



### Optimal Printing Temperatures

#### The Fast-Heating Print Bed

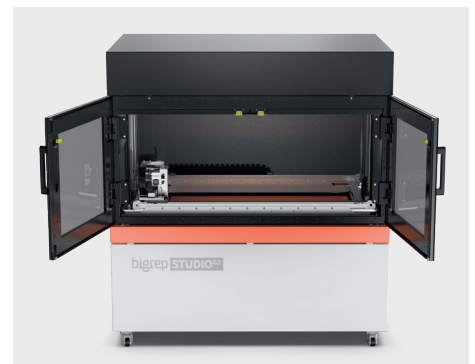
Preparation time is significantly reduced for all print projects by the fast-heating print bed. The new inductive sensor enables semi-automatic leveling to ensure optimal calibration and maximum control. With higher heat dimensions reaching 100°C, adhesion to the print bed is improved for a variety of high-quality materials.



### Big Enough for Any Idea

#### The Massive Build Volume

Enable room for innovation with the STUDIO G2's astounding 500 mm x 1000 mm x 500 mm build volume. With unparalleled size in a sleek package, features combine to create a premium environment for printing large-format engineering-grade parts fast at high resolution.



## AN EXTRUDER FOR FINE FINISHES

With the BigRep STUDIO G2, creating large-format, high-resolution 3D printed parts is a streamlined process. The improved direct drive extruder enables dependable printing of large-format parts quickly in ultra-fine detail. Harness the ultimate freedom of custom print speeds, temperatures and material flow to achieve perfect mechanical properties. The STUDIO G2 works quickly and efficiently - helping your business deliver exceptional results.



The STUDIO G2 has a unique dual extruder equipped with two 0.6 mm ruby nozzles, made for printing with abrasive, engineering-grade materials efficiently at high-resolution. The STUDIO G2's extruder is capable of printing layer heights as low as

0.1 mm for high-resolution parts. Improved extruders enable a larger variety of material properties with high-temperature, engineering-grade filaments including BigRep PLA, Pro HT, TPU, PA 6/66 and more.

	Dual Extruder
Nozzle size	<b>0.6 mm</b>
Layer height range	<b>0.1 mm - 0.5 mm</b>
Max. throughput	<b>19 mm<sup>3</sup>/s</b>

# TECHNICAL SPECIFICATIONS

Fitting neatly into an ergonomically designed, space-saving package, the BigRep STUDIO G2 is a workhorse machine that punches above its class to deliver top-grade results.

Build volume	<b>x 1000 y 500 z 500 (mm)</b>
Layer height resolution	<b>0.1 – 0.5 (mm)</b>
Acceleration	<b>Up to 600 mm/s<sup>2</sup></b>
Extruder	<b>Dual extruder</b> Equipped with two 0.6 mm hot ends
Printing technology	<b>Fused Filament Fabrication (FFF)</b>
Certified BigRep materials	<b>PLA, PETG, Pro HT, TPU, PA6/66</b> More engineered materials in development
Print bed temperature	<b>Max. 100 °C</b>
Printer weight	<b>Approx. 500 kg</b>
Size	<b>x 1715 y 1170 z 1765 (mm)</b>
Power	<b>208 V - 240 V, 16 A, 50/60 Hz</b>
Safety certifications	<b>CE approved</b> All major certifications in progress

## ENGINEERED & MANUFACTURED IN GERMANY

BigRep STUDIO G2 printers are engineered and manufactured in the heart of Germany. BigRep's experts designed and engineered the STUDIO G2 for long-term performance, applying the highest standards to its manufacturing processes. Made for professionals who know and expect the best quality prints, every time.




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