

bigrep **STUDIO**^{G2}



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

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

Explore new frontiers of large-format industrial additive manufacturing with the BigRep 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 system produces incredible results with high-quality materials.

The BigRep STUDIO G2's engineering-grade material compatibility makes manufacturing quality large-scale parts easy. Its enclosed print envelope maintains a controlled temperature and a print volume of 1000 mm x 500 mm x 500 mm, enabling continuous printing of large-format objects with polyamide and other abrasive, engineering-grade materials like carbon fiber-reinforced plastics. The dual extruder equipped with two 0.6 mm hot ends is specially designed for printing high-resolution, geometrically complex parts in an efficient, cost-effective process. In its sleek space-conscious body the STUDIO G2 is optimal for all workspaces, from design studios to production floors.

Based on proven technology, BigRep's STUDIO 3D printing systems were awarded the prestigious 2018 German Innovation Award. Building on those capabilities the STUDIO G2, **specially designed for printing with abrasive engineering-grade materials**, is the ideal German-engineered 3D printer and a proven tool for industrial professionals to bring their innovative designs to life.

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



Engineering-Grade Materials

The Best-In-Class Print Heads

With the inclusion of specialized nozzles for carbon fiber-reinforced materials, 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, allowing for more options to perfect a part's mechanical properties.



Fully Enclosed Environment

The Insulated Build Envelope

The STUDIO G2's fully enclosed, temperature-controlled build envelope is the perfect environment for materials with sensitive environmental requirements. It provides users with safe and easy access to the print bed and the ability to visually monitor the printing process in a contained space. Environmental features like auto-pause upon opening the envelope ensure a smooth and safe printing process.



Modular 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, print bed and build envelope each feature independent temperature controls.



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.

Optimal Printing Temperatures

The Fast-Heating Print Bed

Preparation time is significantly reduced for all print projects by the fast-heating print bed. Capable of quickly reaching 100°C for optimal print bed adhesion with a variety of high-quality materials. An inductive sensor enables semi-automatic print bed levelling to ensure optimal calibration and maximum control.



Easy & Intuitive

The New Slicer

BigRep's proprietary BLADE slicing software provides presets for all BigRep-compatible materials while enabling maximum control of all printing parameters – making for a rapid, easy start to printing. The integrated estimation engine provides accurate printing time and material use predictions to optimize productivity efficiently. BLADE is one of the fastest and most precise slicers on the market, specially designed for large-format prints.



Big Enough for Any Idea

The Massive Build Volume

The STUDIO G2's astounding 1000 mm x 500 mm x 500 mm build volume unlocks print size and creates room for innovation. Features combine to create a premium environment for printing large-format engineering-grade parts fast at high resolutions. It's unparalleled size and advanced additive systems in a sleek package.



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 to help your business deliver exceptional results.



The STUDIO G2 has a unique dual extruder equipped with two 0.6 mm specialized nozzles made for printing with engineering-grade materials, including fiber reinforced, efficiently at high-resolution.

The extruder is capable of printing layer heights as low as 0.1 mm for high-resolution parts. Its abrasive material compatibility enables a larger variety of printable materials for optimal properties in final parts. High-temperature, engineering-grade filaments including BigRep's PA6/66, TPU, PET-CF and more.

TECHNICAL SPECIFICATIONS

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

Build volume	x 1000 y 500 z 500 (mm)
Layer height resolution	0.1 – 0.5 (mm)
Acceleration	Up to 600 mm/s
Extruder	Dual extruder Equipped with two 0.6 mm hot ends
Printing technology	Fused Filament Fabrication (FFF)
Compatible BigRep Materials	PA6/66, PET-CF, TPU, and more
Printbed temperature	Max. 100 °C
Printer weight	Approx. 500 kg
Size	x 1715 y 1170 z 1765 (mm)
Power	208 V - 240 V, 16 A, 50/60 Hz
Safety certifications	CE approved 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.

REDEFINING **ADDITIVE**

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