

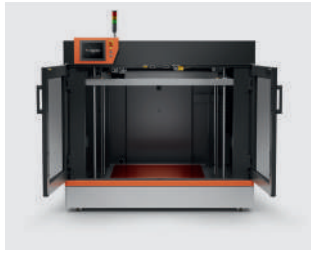
bigrep **PRO**



AN **INDUSTRIAL** MACHINE FOR **BIG PRINTS** THE NEW STANDARD IN **SPEED** AND **PRECISION** EXTRUSION

The Bigrep® PRO is an industrial 3D printer that responds to market demands. Whether it's functional prototypes, composite tooling or end-use products, the PRO delivers, with a range of new features, including a state-of-the-art Bosch Rexroth® CNC system, new Metering Extruder Technology (MXT®), an enclosed build chamber and temperature-controlled filament chambers.

The Bigrep PRO has been expertly engineered to equip companies with advanced technology to print large objects with industrial-grade materials.



Large-Scale Prints
The Build Platform

True to its name, Bigrep makes machines for big prints, and the PRO is no exception. With a build envelope of one cubic meter, the machine is made for 3D printing large-scale industrial objects, enabling countless application possibilities.



Shielded Printing
The Enclosed Frame

An insulated, enclosed metal frame ensures optimum even temperature control and the glass doors offer an optimal view on the print. Further improving safety is the PRO's compatibility with standard ventilation systems, for fume and emissions control, making it a best practice example in industrial environments.



Speed & Precision
The MXT

Bigrep has developed a new metering extruder technology (MXT) with exceptional speed and precision, which is one of the defining features of the PRO. This state-of-the-art extruder allows for ultimate control on the materials deposition, allowing users to achieve the highest quality for every application.



Bosch Rexroth Technology
The CNC System

A new state-of-the-art CNC motion-control system makes the PRO the ideal machine for controlling the entire printing process, from start to finish. Widely used in the automotive industry, the Bosch system ensures maximum responsiveness, accuracy and closed-loop control, as well as superior connectivity.

TECHNICAL SPECIFICATIONS

Build volume	x 1005 y 1005 z 1005 (mm)
Layer height resolution	0.1 mm - 0.8 mm*
Acceleration	Up to 10 m/s²
Extruder	Two MXT extruders MXT with 0.6 mm and 1 mm nozzle
Printing technology	FFF – Fused-Filament-Fabrication (Material Extrusion)
Certified Bigrep materials	ASA, PA66 More engineering materials in development
Support materials	Soluble Plastics
Print bed temperature	Max. 99 °C
Printer weight	Approx. 1550 kg
Size	x 1950 y 2430 z 1790 (mm) – (Without tower light)
Power	3 X AC 400 V, 50/60 Hz, 5100 W
Safety certifications	CE approved

* Depending on selected extruder/ nozzle

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