

bigrep **EDGE**



INDUSTRY LEADER FOR HIGH END MATERIALS **THE CUTTING-EDGE OF 3D PRINTING**

The Bigrep® EDGE is an industrial machine for the additive manufacturing of large-scale objects in demanding work environments. The EDGE uses high end thermoplastic materials for end-use products, functional prototypes and composite tooling. With a state-of-the-art Bosch Rexroth® motion control system, new Metering Extruder Technology (MXT®), a heated chamber, and an optimum design, the EDGE sets a new standard in additive printing.

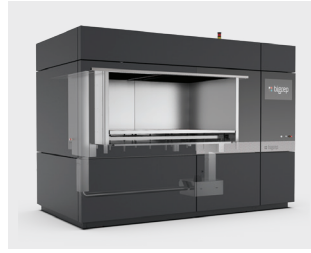
The Bigrep EDGE has been expertly designed and manufactured to print large industrial objects with high end engineering-grade materials in a temperature-controlled environment. Its enormous build and advanced industrial features ensure big results and transformative value for businesses across industries.



Speed & Precision

The MXT

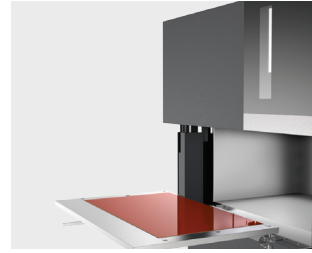
Bigrep's second-generation Metering Extruder Technology (MXT) delivers exceptional speed and precision for industrial projects, forming one of the defining features of the EDGE. A higher travel speed makes the premium model machine ideal for high-speed print completion.



Controlled Environment

The Build Chamber

A heated build chamber provides a controlled, high-temperature environment for engineering-grade materials of up to 200°C in the chamber and 220 °C on the print bed. The EDGE's ventilation system, compatible with standard factory environments, ensures an even chamber temperature and user safety from fumes.



Enormous Print Bed

The Build Volume

The largest of its kind with a controlled heated environment, Bigrep's EDGE offers enormous volume for maximum flexibility and large-scale industrial print capacity. The EDGE has a build size (1500 x 800 x 600 mm) and an advanced pull-out print bed ensures large, heavy prints are easy to remove.



Accessible & Intuitive

The Graphical User Interface

The EDGE places an emphasis on a premium user experience, with fully automated doors opening upwards, access to the print bed from all sides. An easy-to-use graphical user interface with an extra-large screen enables ultimate control over all print settings.

TECHNICAL SPECIFICATIONS

Build volume	x 1500 y 800 z 600 (mm)
Layer height resolution	0.1 mm - 1.6 mm*
Acceleration	Up to 10 m/s²
Extruder	Two MXT extruders
Printing technology	FFF – Fused-Filament-Fabrication (Material Extrusion)
Certified Bigrep materials	Engineering Plastics, High-Performance Plastics More engineering materials in development
Support materials	Soluble Plastics
Print bed temperature	Max. 220°C
Chamber temperature	Max. 200°C
Printer weight	ca. 3500 kg
Size	x 3100 y 1600 z 2220 (mm)
Power	240 V – 360 V, 3 x 32 A, 50/60 Hz
Safety certifications	CE machinery/ UL/ FCC/ Korean Certification

* Depending on selected extruder/ nozzle

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