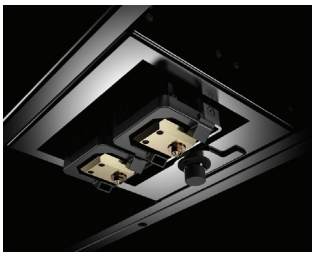
bigrep EDGE

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-performance 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-performance 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.

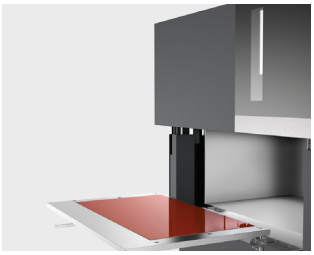


Speed & Precision
The MXT

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 high-performance 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***
Max. throughput with 0.6 mm nozzle	**500 cm³/h**
Extruder	**Two MXT extruders** MXT with 0.6 mm nozzle
Printing technology	**FFF – Fused-Filament-Fabrication (Material Extrusion)**
Certified BigRep materials	**Engineering Plastics, High-Performance Plastics** More industrial materials in development
Support materials	**Soluble Plastics**
Print bed temperature	**Max. 220°C**
Chamber temperature	**Max. 200°C**
Printer weight	**Aprox. 3500 kg**
Size	**x 3100 y 1600 z 2220 (mm)** - (Without tower light)
Power	**240 V – 360 V, 3 x 32 A, 50/60 Hz**
Safety certifications	**CE / UL / FCC / KC**

* Depending on selected nozzle

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