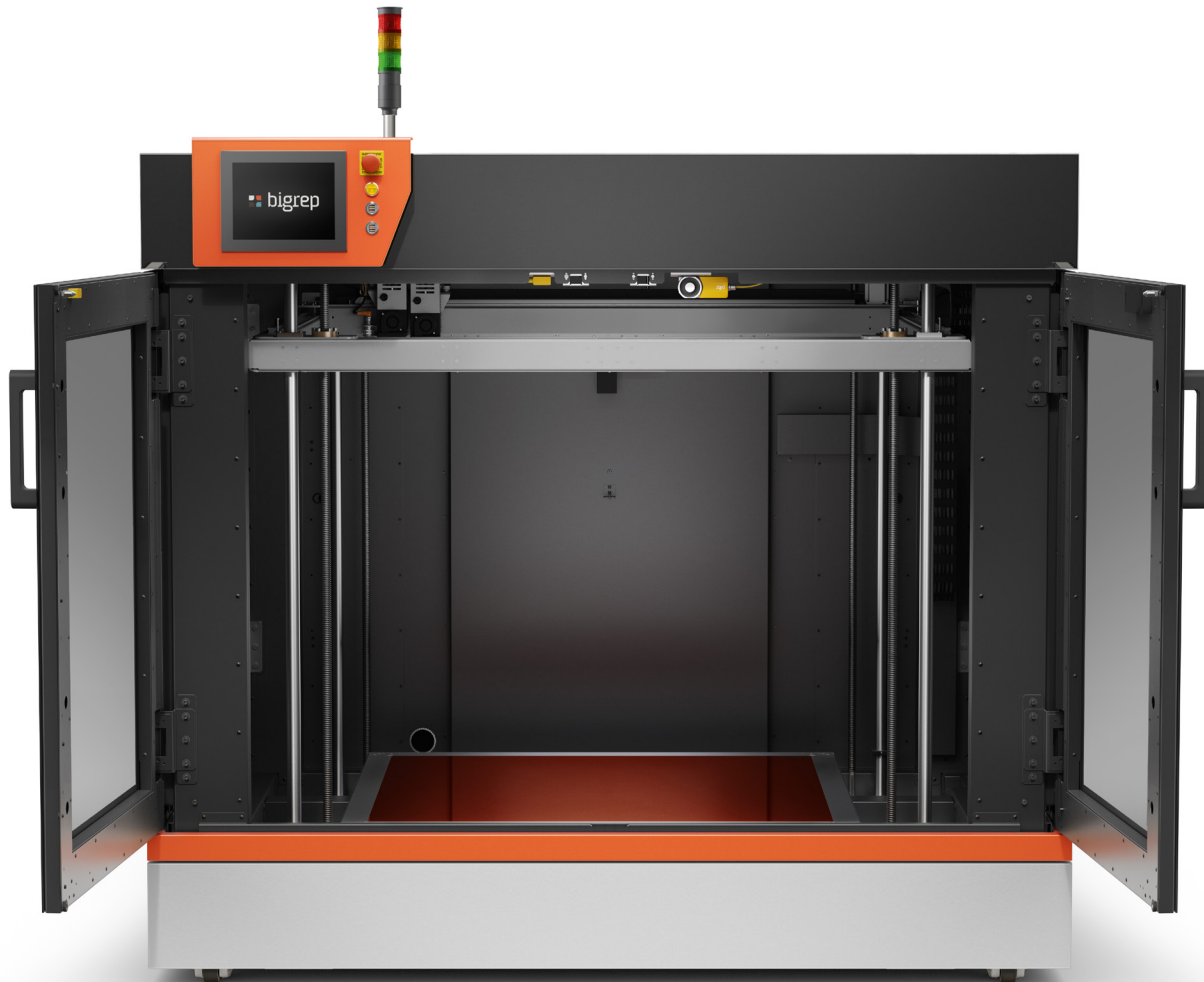# bigrep PRO

1 M³ ADDITIVE MANUFACTURING SYSTEM

ITERATE FAST. PRODUCE FASTER. GET TO MARKET FASTEST.

With almost 1 cubic meter build volume, the BigRep PRO is an industrial machine for producing full-scale, large parts including functional prototypes, factory tooling, patterns and molds, and end-use parts. Built for productivity throughout all stages of manufacturing, the PRO provides designers, engineers and manufacturers with an agile solution to produce faster and cheaper.

The PRO is made to print massive, industrial parts or batches of smaller parts in a fully enclosed build volume, ensuring consistent print temperatures and safety from hazards on the factory floor. Built to run 24/7, the PRO delivers on speed and precision, operating at up to twice the speed of traditional large-format FFF 3D printers and at a lower total cost of ownership.
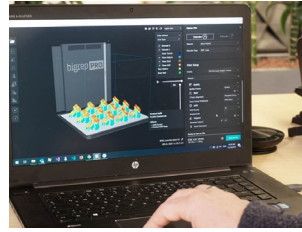

DUAL EXTRUSION OPTIONS: ACE & MXT

Easily changeable, both extruders deliver speed and precision. ACE specializes in material versatility including carbon fiber, and MXT excels at controlled, fast material deposition.
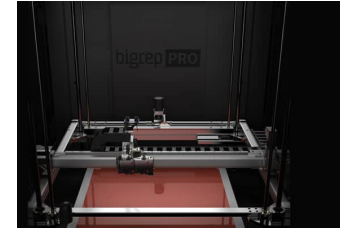
BOSCH REXROTH CNC CONTROL SYSTEM

Bosch Rexroth controls deliver real-time monitoring with 32 integrated sensors, IoT connectivity, and Safe Logic 2-channel failsafe system.

BIGREP BLADE SLICING SOFTWARE

Developed for the PRO, BLADE provides greater control of printing parameters like printing time and material usage.

PRECISION MOTIONS PORTAL

The custom-built gantry is engineered for high speed, fast acceleration, and heavy payloads. Robust Bosch servo motors assure precise movement and self-monitor for position accuracy.

TECHNICAL **SPECIFICATIONS**

Build Volume	x 945 y 970 z 985 mm (x 37 y 38 z 39 inches)
Dual Extruders	ACE and/or MXT
Nozzle Diameter	0.6 mm, 1.0 mm
Layer Height	0.3 mm, 0.6 mm
System Size	x 1950 y 2500 z 2105 mm (with tower)
System Weight	1550 kg
Operating System	Windows based
Network Communication	USB, LAN
Power	EU 3 Phase 400V AC, N, PE Power consumption 6100W
Certification	CE, EC Machinery Directive 2006/42/EC Compliant

MATERIALS FOR THE PRO

Bigrep offers certified BigRep material and also is third party compatible.

- Bio-Plastics: **PRO-HT, PETG**
- Engineering Grade: **ASA, PA6/66**
- Fiber Reinforced: **HI-TEMP CF**
- Support: **Water Soluble (BVOH)**

bigrep.com