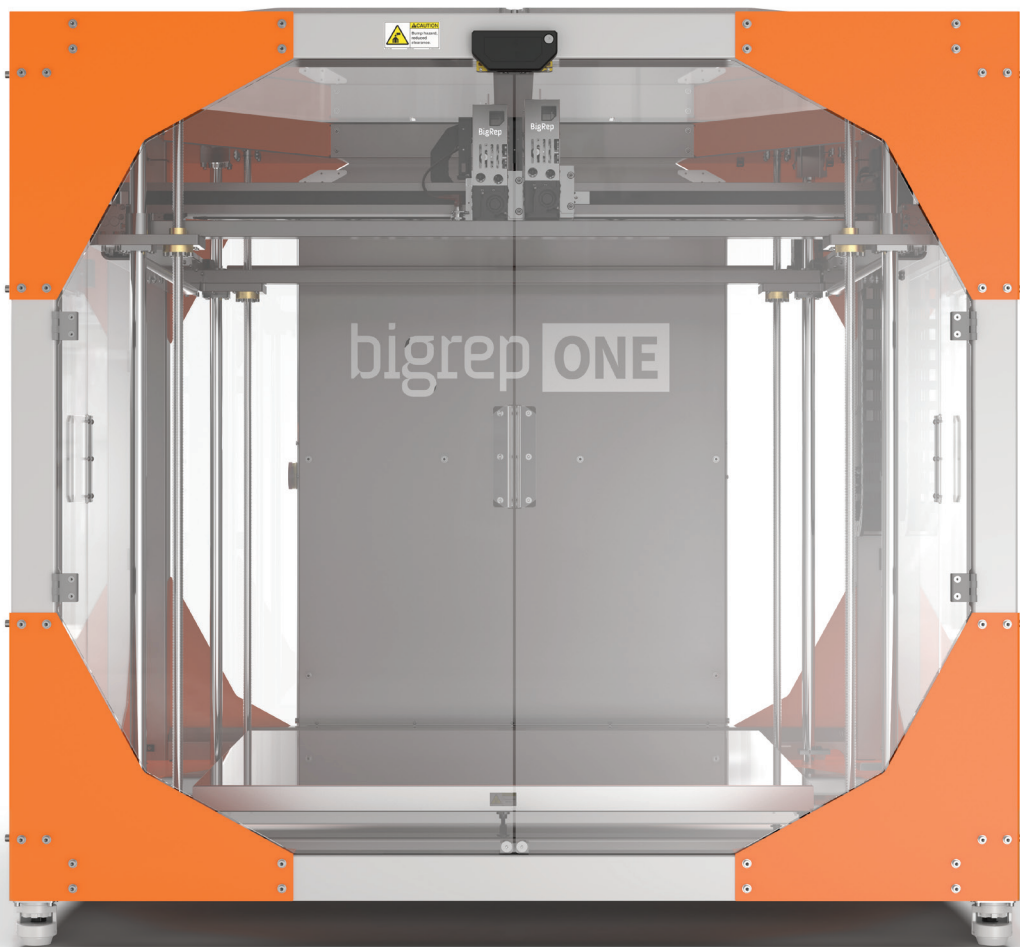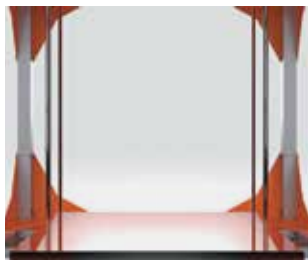# bigrep ONE

LARGE-SCALE **INNOVATION**.
LIMITLESS **CREATIVITY**.

The BigRep ONE is an award-winning, large-format 3D printer at an accessible price point. With over 500 systems installed worldwide, it's a trusted tool of designers, innovators, and manufacturers alike. Featuring a massive $1\,m^3$ build volume, the fast and reliable ONE brings your designs to life in full scale. Perfect for prototyping, production, and a wide range of applications, the ONE comes equipped with two BigRep fiber-ready Power Extruders (PEX) that feature interchangeable hotends with 0.6, 1.0 and 2.0 mm nozzles for maximum detail or high-flow additive manufacturing.
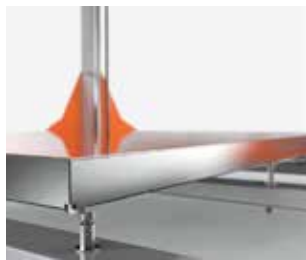
BIGREP ONE KEY FEATURES

Large-Scale 3D Printing
The Massive Build Volume

With a one-cubic-meter build volume, the award-winning BigRep ONE is designed to produce massive 3D prints for demanding and geometrically complex applications. Go beyond the limited capabilities of smaller systems and use the ONE to print your parts in full scale.

Consistent & Efficient
The Semi-Automatic Print Bed

The heated print bed is coated with a polyimide foil that provides optimal adhesion throughout the printing process. Thanks to an integrated inductive sensor, the ONE uses semi-automatic bed leveling to streamline build platform calibration and ensure peak performance and consistent prints.

Modular & Independent
The Fiber-Ready Power Extruder

BigRep's fiber-ready Power Extruder is available for single or dual extrusion on the BigRep ONE. It consistently produces high-quality, full-scale parts in a range of BigRep filaments such as bio-polymers, water soluble support, and fiber-reinforced, as well as third party materials.

Modules & Add-Ons
Configure your solution.

Configure your custom ONE and choose from single, dual, or twin extruder modes plus add-ons like an enclosed housing and even the printer's color to create the perfect machine just for you. As your 3D printing needs evolve, simply upgrade your ONE with additional features to grow along with you.

TECHNICAL SPECIFICATIONS

Version	**BigRep ONE.4**
Build Volume	**x 1005 y 1005 z 1005 mm** (x 39.5 y 39.5 z 39.5 in)
Compatible BigRep Materials*	**HI-TEMP, HI-TEMP CF, PETG, PLA, PLA Antibacterial, PLA Ultralight, PLX, Pro HT, TPU**
Support materials*	**BVOH**
Layer heights	**0.3 mm, 0.6 mm, 1.0 mm** Other layer heights supported through slicer software.
Max. Speed	Max. Acceleration (XY)	**500 mm/s	400 mm/s²**
Extruders	**Fiber-Ready Power Extruder (PEX)** Interchangeable hotend with 0.6 mm, 1 mm and 2 mm nozzles.
Printing Technology	**Fused-Filament-Fabrication (FFF / FDM)**
Print Bed Temperature	**Max. 80 °C** (146 °F)
Printer Weight	**Approx. 460 kg** (1 014 lbs) without housing
Size	**x 1850 y 2250 z 1725 mm** (x 72.8 y 88.6 z 67.9 in)
Max. Throughput	**130 g/h (115 cm³/h)** with PLA
Nozzle Diameters	**0.6 mm, 1.0 mm, 2 mm**
Nozzle Temperature	**Max. 250 °C** (482 °F)
Power	**208 V – 240 V, 16 A, 50 / 60 Hz**
Safety certifications	**CE approved, EC Machinery Directive 2006/42/EC Compliant**

* Other filaments upon request

THINGLAB
by *FREEDSPACE*

7a Kent Street / Yarraville / Victoria 3013 / AUSTRALIA
(03) 7018 2121   freedspace.com.au/thinglab

bigrep