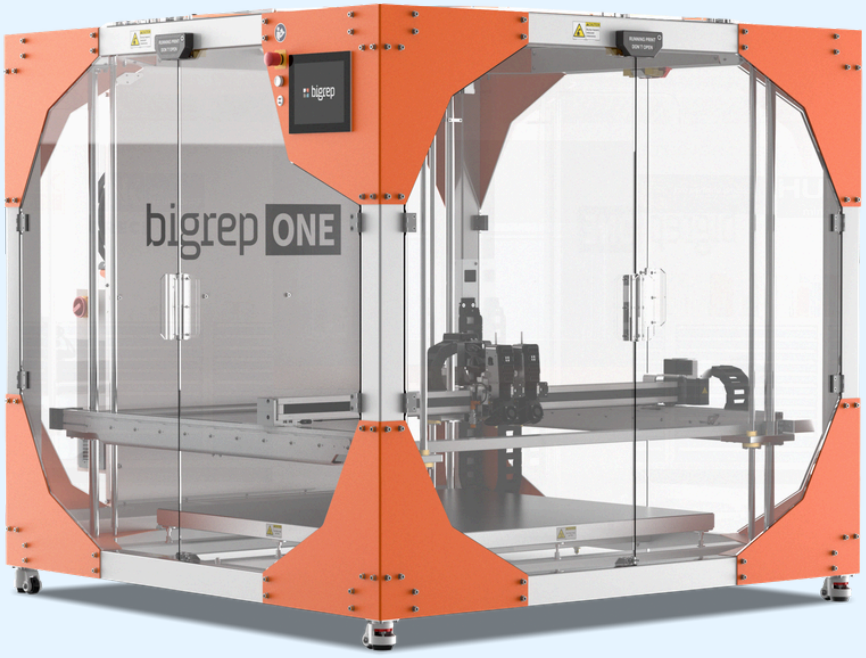
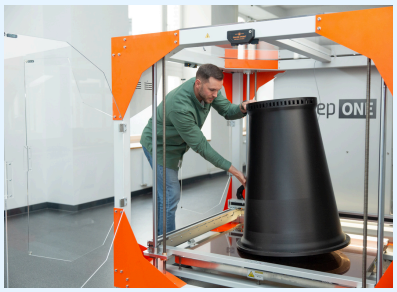
NeoMetrix Technologies, Inc.

bigrep

IT'S TIME TO GO BIG.

Solutions for Your Entire 3D Printing Operations





Accelerate your product development!

bigrep ONE.5X

Build Bigger Parts. Reduce Assembly. Increase Throughput.

- Massive build volume for full-scale prototypes, tooling, molds, fixtures, jigs, patterns, and end-use parts
- Reduce multi-part assemblies and post-processing labor
- Faster iteration for manufacturing, aerospace, automotive, and product development teams
- Print production-ready components without outsourcing
- Ideal for oversized geometries and functional applications

Prep Faster. Print Smarter.

Produce large, industrial-grade parts in-house with fewer assembly steps, shorter lead times, and greater design freedom.

- Reduce print time and material waste
- Start faster with ready-to-use profiles
- Fine-tune settings with advanced control
- Plan production with automated batch tools

Your Portal to Productivity.

Prepare prints faster with optimized settings and ready-to-use profiles. Reduce print time, minimize material use, and streamline production.

- Instant access to training, knowledge, and support
- Manage all printers and organize projects
- Monitor performance and status in real time
- Optimize output with data insights

ONE.5X Technical Specifications

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Materials

Supported Materials	BVOH, HI-TEMP, HI-TEMP CF, PLX, PRO HT, rPETG, rPLA, TPU 98A
Compatible Materials	Open material system, supports third-party filaments

Build & Dimensions

Build Volume	1005 × 1005 × 1005 mm (39.5 × 39.5 × 39.5 in)
Dimensions	1848 × 1668 × 2070 mm (72.8 × 65.7 × 81.5 in)
Weight	Approx. 635 kg (1,400 lbs)
Print Bed Temperature	Up to 80 °C (176 °F)
Print Bed Surface	SWITCHPLATE Prime / Classic

Extrusion

Extruders	Dual Power Extruder 2 (PEX2)
Nozzle Temperature	Up to 280 °C (536 °F)
Nozzle Sizes	0.6 / 1.0 / 2.0 mm
Layer Height	0.3 / 0.6 / 1.0 mm (Custom heights supported in BLADE)
Throughput	Up to 200 g/h
Filament Diameter	2.85 mm
Nozzle Type	Dianoz diamond nozzle

Automation

Out-Of-Filament Detection	✓
Pause and Resume Print	✓
Relay Mode (Backup Function)	✓
Adaptive Mesh Bed Leveling	✓
Automated Calibration	✓
Auto-Sequential Printing	✓

System

Material Storage	Optional Keep-Dry Box
Power	208–240 V, 16 A, 50/60 Hz
Certifications	CE compliant (Machinery Directive 2006/42/EC)

bigrep VIIO 250

The Next Level of Automated Production.

The large-scale BigRep VIIO 250 is a fully automated 3D printer for reliable continuous industrial manufacturing. To achieve this, the machine is built with breakthrough automation features: a backup extruder function - **Relay Mode**, auto print bed calibration, autosequential printing, and the automated filament handler - **Infinity Box**. Featuring dual **Smart Manufacturing Extruders** and an intuitive user machine interface with animated guides, using an industrial 3D printer has never been this easy. These combined automation features deliver a big impact: **maximized machine efficiency**. Print more quality parts in less time so you can save costs and get production off your hands. With the VIIO 250, **spend less time printing and more time doing**.

BIGREP VIIO 250 KEY FEATURES

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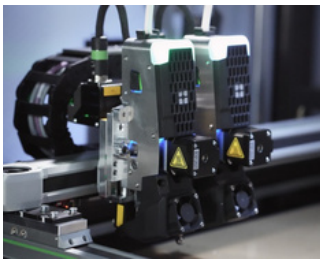
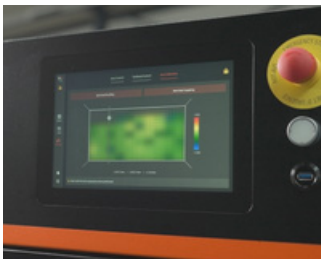
Large Scale Build Volume
The Generous Build Chamber

The 250-liter (1000mm X 500mm X 500mm) spacious build chamber comes with an active temperature control up to 50°C. Built with a compact design, the VIIO 250 offers large-format printing capabilities in a robust, sleek frame that fits for any workspace.



Dual SMX Extruders
Uninterrupted Productivity

Advanced print monitoring thanks to dual SMX (Smart Manufacturing Extruders) extruders that reach up to 350°C with embedded sensors for precise control. The extruders have LED light indicators to signal different statuses and come in 3 nozzle sizes - 0.4, 0.6, and 1.0mm.



24/7 Automation
Reliable Unattended Production

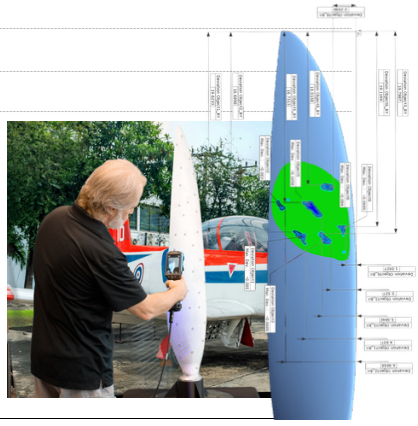
Auto calibration including bed - mapping and flow rate adjustment makes printing easier than ever.
The Infinity Box automatically loads new filament during the print job, and Relay Mode automatically switches to a backup extruder for reliable non-stop printing.

Open Materials Platform
With Optimal MaterialConditions

The VIIO 250 is an open material platform. Use BigRep filament for best quality or a third party's for maximum flexibility. The Infinity Box doubles as an active keep-dry box to store filament in optimal conditions and holds 4 spools of up to 8kg each.

TECHNICAL SPECIFICATIONS

Version	**BigRep VIIO 250**
Build Volume	**x 1000 y 500 z 500 mm** (x 39.37 y 19.69 z 19.69 in)
BigRep Materials	**ASA, HI-TEMP, HI-TEMP CF, PA12 CF, PA6/66, PETG, PLA, PLX, PRO HT, TPU 98A, BVOH**
Compatible Materials	**Open Material System**
Extruder	**Dual Smart Manufacturing Extruders (SMX)**
Nozzle Diameter	**0.4 mm, 0.6 mm, 1.0mm**
Layer Thickness	**0.2 mm, 0.3 mm, 0.6 mm** Other layer heights supported through slicer software.
Extruder Temperature	**350°C max** (662°F)
Build Chamber Temperature	**30-50°C**
Print Bed Temperature	**120°C max** (248°F)
Print Surface	**SWITCHPLATE Select, SWITCHPLATE Prime**



3D SCANNING | REVERSE ENGINEERING | ADDITIVE MANUFACTURING

NeoMetrix Technologies delivers advanced 3D scanning, reverse engineering, CAD modeling, and industrial additive manufacturing for today's engineering and manufacturing teams. Using the latest metrology tools from Creaform, powerful modeling platforms like Geomagic Design X, and production-ready 3D printers from INTAMSYS, Markforged, and BigRep, we help companies capture precise data, rebuild complex components, and produce high-performance parts with confidence.

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Explore BigRep 3D Printers

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