

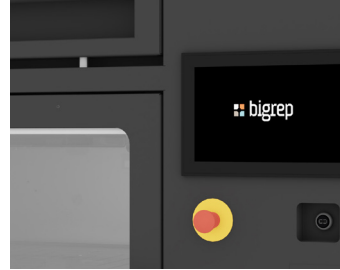
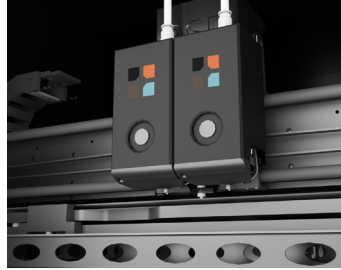
bigrep IPSO¹⁰⁵



Maximum Performance. Unbeatable Price.

The IPSO 105 is an industry all-rounder high-temp machine with an unbeatable price-to-performance ratio. It is the most automated, reliable, and fastest way to get robust, high-performance parts in the hands of industrial engineers and designers. Aptly called the tool maker's tool, it is a blazing hot machine of 105 liters reaching 100°C with a print bed heating up to 180°C. It is built with state-of-the-art dual extruders capable of printing high-performance materials with open access to the world's most advanced materials, including PC, PEKK, PEKK-CF.

BIGREP IPSO 105 KEY FEATURES



Full-Scale 3D Printing

A Toolmaker's Build Volume

With a build volume of 105 liters, IPSO hits a sweet spot between a desktop and a large-scale 3D printer, perfect for many tooling applications. Thanks to its made-to-last industrial components and stepper motors with encoders, IPSO 105 achieves the accuracy and repeatability you expect in an industrial machine.

Reliable Dual DSX Extruders

Uninterrupted Productivity

The IPSO 105 features dual DSX extruders, each with integrated cooling channels and multiple sensors for monitoring and control. When filament runs out the Relay Mode kicks in and the second extruder seamlessly takes over. The DSX is particularly good with soft, flexible material with its optimized feeding mechanism.

Fully Automated Quick Start

Print at the Push of a Button

Getting started is quick and easy thanks to automatic functions like bed calibration via topology measurement and corresponding automatic compensation. After a smooth start, built-in sensors will secure your 24/7 operation while the camera enables real-time remote monitoring so you won't miss a thing.

Even Temperature Distribution

For Top Mechanical Performance

Consistent temperature is key for excellent prints and a requirement for high-performance parts. Reaching temperatures up to 180°C, the print bed maintains uniform heat distribution. The airflow control precisely tempers the prints resulting in enhanced and consistent mechanical properties.

TECHNICAL SPECIFICATIONS

Version	BigRep IPSO 105
Build Volume	x 400 y 600 z 440 mm (x 15.8 y 23.6 z 17.3 in)
Printing Technology	Fused-Filament-Fabrication (FFF / FDM)
Compatible Materials	ABS, ABS-ESD, ABS-FR, ASA, HT-PETG, PA6, PA6-CF, PA12, PA12-CF, PA12-GF, PC, PC-ABS, PC-FR, PC-CF, PCTG, PEKK, PEKK-CF, PETG, PLA, PP, PP-GF, TPU, TPC Open for 3rd party materials.
Support Materials	BVOH, Lye-Soluble Filament Open for 3rd party materials.
Extruders	Dual Direct Synchronized Extruders (DSX) Interchangeable hotend with 0.4mm, 0.6mm, 1.0mm nozzles.
Layer Heights	From 0.05mm Other layer heights supported through slicer software.
Nozzle Temperature	Up to 450 °C (842 °F)
Print Bed Temperature	Up to 180 °C (356 °F)
Build Chamber Temperature	Up to 100 °C (212 °F)
Print Speed Throughput	Up to 200 mm/s Up to 150 g/h
Position Accuracy	< 0.1mm in XY
Printer Weight	Approx. 420 kg (926 lbs)
Size	x 1270 y 1120 z 1730 mm (x 50.0 y 44.1 z 68.1 in)
Power	400 V, 16 A

BigRep GmbH (HQ – Europe)

Gneisenaustraße 66
10961 Berlin
Germany
Phone +49 30 20 84 82 60

BigRep America Inc.

50-E Concord Street
Suite 100
Wilmington, MA 01887
United States
Phone +1 781 281 0569

BigRep APAC

BigRep Private Ltd.
201 Henderson Road
Apex @Henderson #03-13
Singapore 159545
Phone +65 6909 8191 / 9793 2515

bigrep.com



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