

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 140°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.

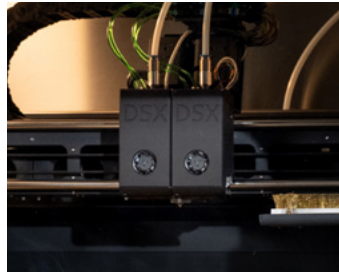
BIGREP IPSO 105 KEY FEATURES



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

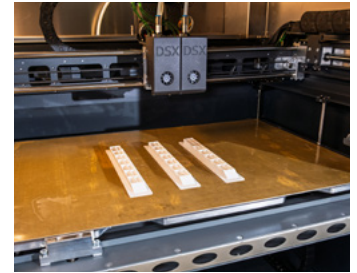
The IPSO 105 features dual DSX extruders, each with integrated cooling channels and multiple sensors for monitoring and control. When filament runs out the Relay Mode kicks in and the second extruder seamlessly takes over. The DSX is particularly good with soft, flexible material with its optimized feeding 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 140°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, ASA, PC, PEKK-A, BVOH, PC/ABS, PA12 CF, PETG, PLA, PA6/66, TPU, PP Open for 3rd party materials.
Support Materials	BVOH. Open to third-party materials.
Extruders	Dual Direct Synchronized Extruders (DSX). Interchangeable hotend with 0.4 mm, 0.6 mm, 1.0 mm nozzles.
Minimum Layer Thickness	From 0.15 mm. Other layer heights supported through slicer software.
Compatible Filament Diameter	1.75 mm
Nozzle Temperature	Up to 450 °C (842 °F)
Print Bed Temperature	Up to 140 °C (284 °F)
Build Chamber Temperature	Up to 100 °C (212 °F)
Position Accuracy	< 0.05 mm
Printer Weight	Approx. 400 kg (882 lbs)
Size	X 990, Y 1150, Z 1740 mm (X 39.0, Y 45.0, Z 69.0 in)
Power	1P + N + PE, 208–240 V, 16 A, 50/60 Hz

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