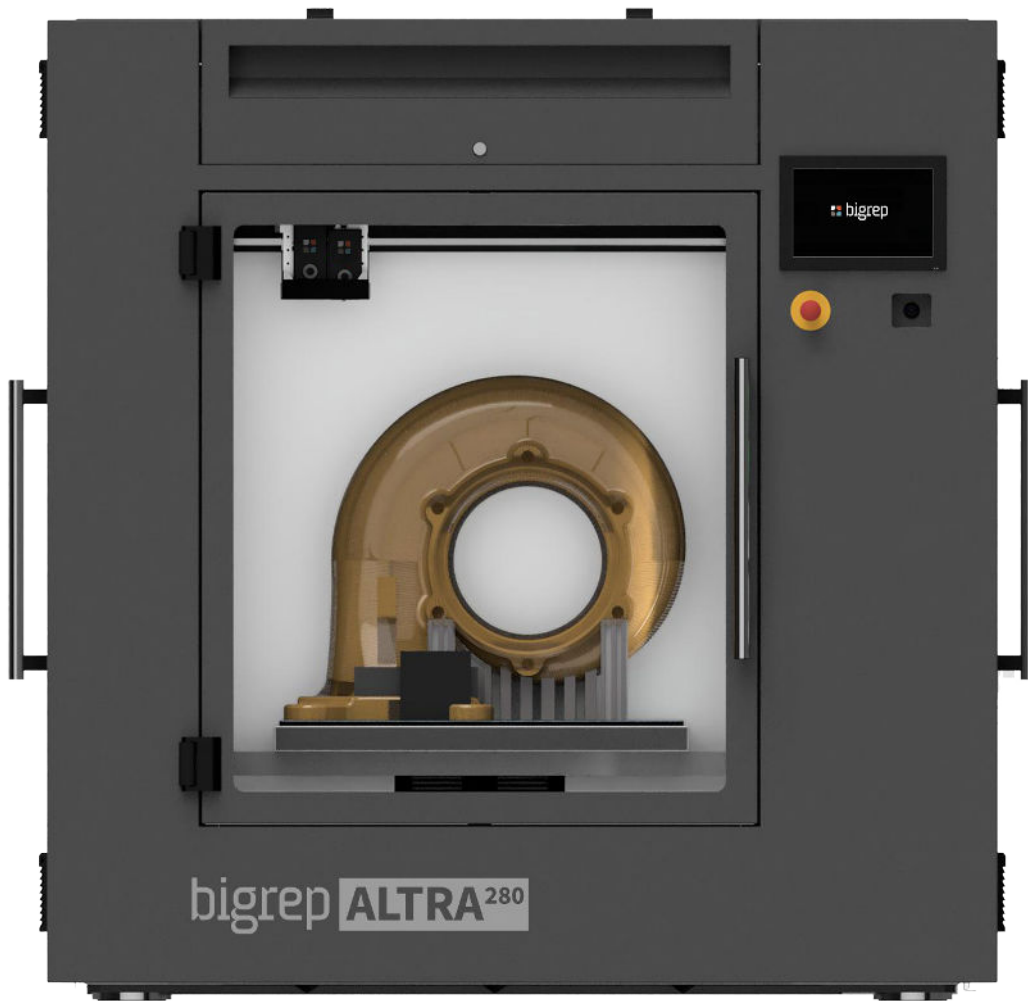


bigrep ALTRA²⁸⁰



The Ultimate High-Performance Machine.

The ALTRA 280 is a high-performance industrial powerhouse with an expansive build volume. It delivers unrivaled reliability with up to 4 state-of-the-art DSX extruders. These controlled dual extruders with their respective backups are groundbreaking in additive manufacturing, delivering flawless prints every time. The high-temperature capabilities enable peak-level 3D printing for demanding applications from automotive to aerospace and defense industries. The ALTRA 280 is everything at once – a large, fast, reliable, high-temp industrial machine. It delivers complex production-quality parts without compromise.

BIGREP ALTRA 280 KEY FEATURES



Accuracy in Large Scale

The Generous Build Chamber

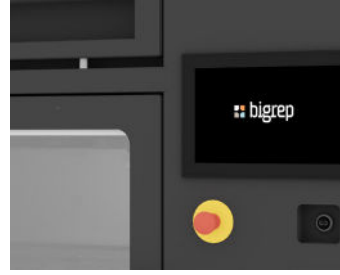
With a build volume of 280 liters, the ALTRA produces intricate full-fledged prototypes, production, and end-use parts. Thanks to the welded frame, ball screws and servo motors like those found in CNC technology, ALTRA 280 achieves the accuracy and repeatability you expect in an industrial machine.



Up to 4 DSX Extruders

Uninterrupted Productivity

The ALTRA 280 is equipped with up to 4 DSX capable of printing at 450°C up to 20kg in one cycle. Achieve complex prints with dual extruders and ensure seamless production with two respective backup extruders. Each DSX is a masterpiece, with integrated cooling channels and multiple sensors for monitoring and control.



Fully Automated Quick Start

Print at the Push of a Button

Getting started is quick and easy thanks to automatic functions like bed calibration, 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 and build chamber both maintain uniform heat distribution. The airflow control precisely tempers the prints resulting in enhanced and consistent mechanical properties.

TECHNICAL SPECIFICATIONS

Version	BigRep ALTRA 280
Build Volume	x 500 y 700 z 800 mm (x 19.7 y 27.6 z 31.5 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, PEEK, PEKK, PEKK-CF, PETG, PLA, PP, PP-GF, PPS, PPSU, TPU, TPC, ULTEM 9085 Open for 3rd party materials.
Support Materials	BVOH, Lye-Soluble Filament Open for 3rd party materials.
Extruders	Up to 4 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 180 °C (356 °F)
Print Speed Throughput	Up to 350 mm/s Up to 250 g/h
Position Accuracy	< 0.05mm in XY
Printer Weight	Approx. 1980 kg (4365 lbs)
Size	x 2550 y 1950 z 1920 mm (x 100.4 y 76.8 z 75.6 in)
Power	400 V, 32 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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