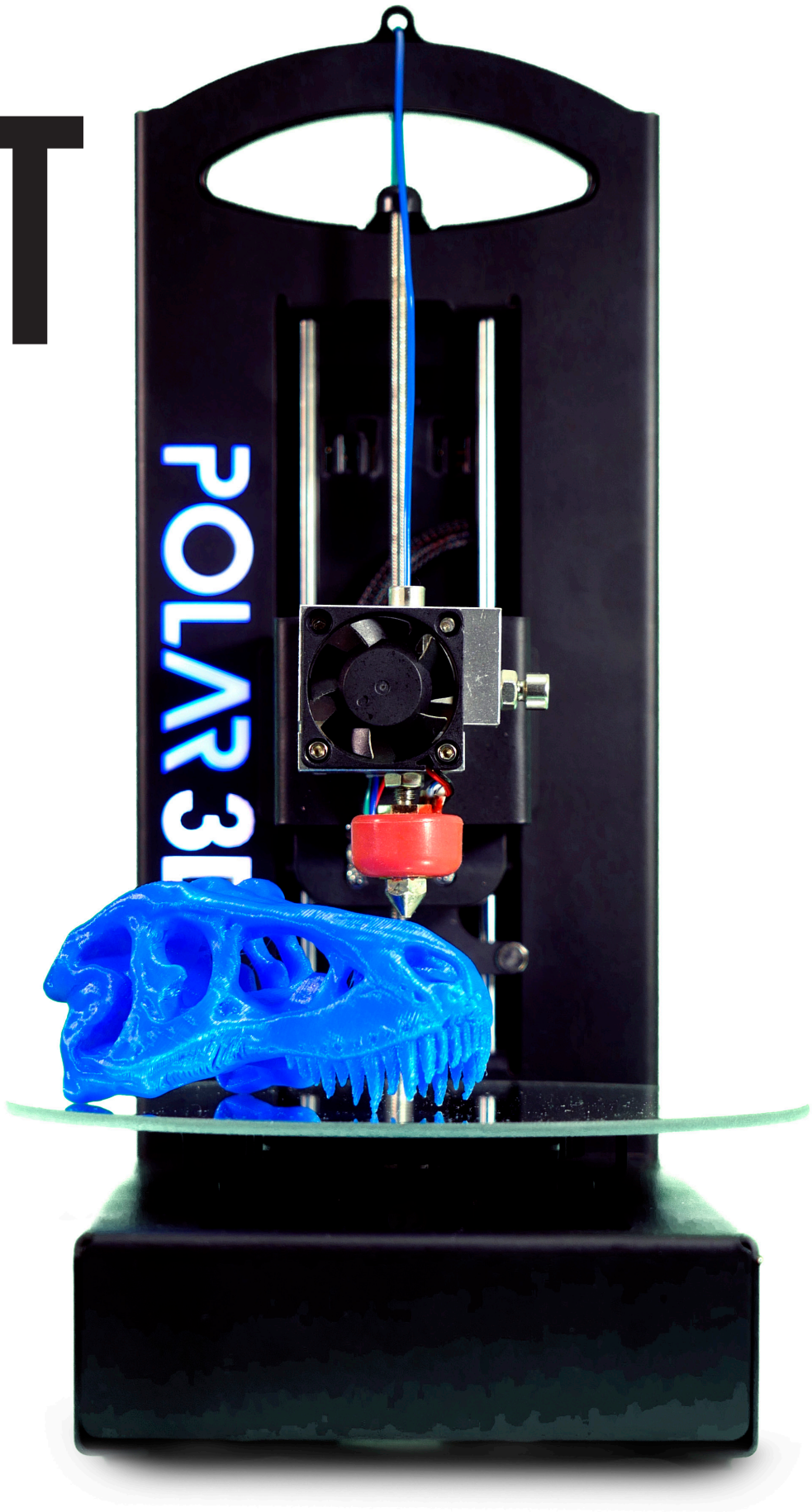
POLAR 3D

PRINT OUT SIDE THE BOX.



WWW.POLAR3D.COM

The Polar3D is more than just a printer. It's an integrated system of powerful hardware, software, cloud-based services and curricula — all designed for ease-of-use and seamless collaboration. Polar 3D is perfect for the home or the classroom.

The Polar Classic is the world's first 3D Printer based on polar coordinates. This radical innovation delivers 3.14 times the build volume of a cartesian design, giving it the largest build volume to footprint ratio of any 3D printer. With 30% fewer parts than a comparable Cartesian printer, no leveling, and Polar 3D's plug-and-play setup and cloud-based collaboration tools, the Polar Classic is redefining ease-of-use in 3D printing.

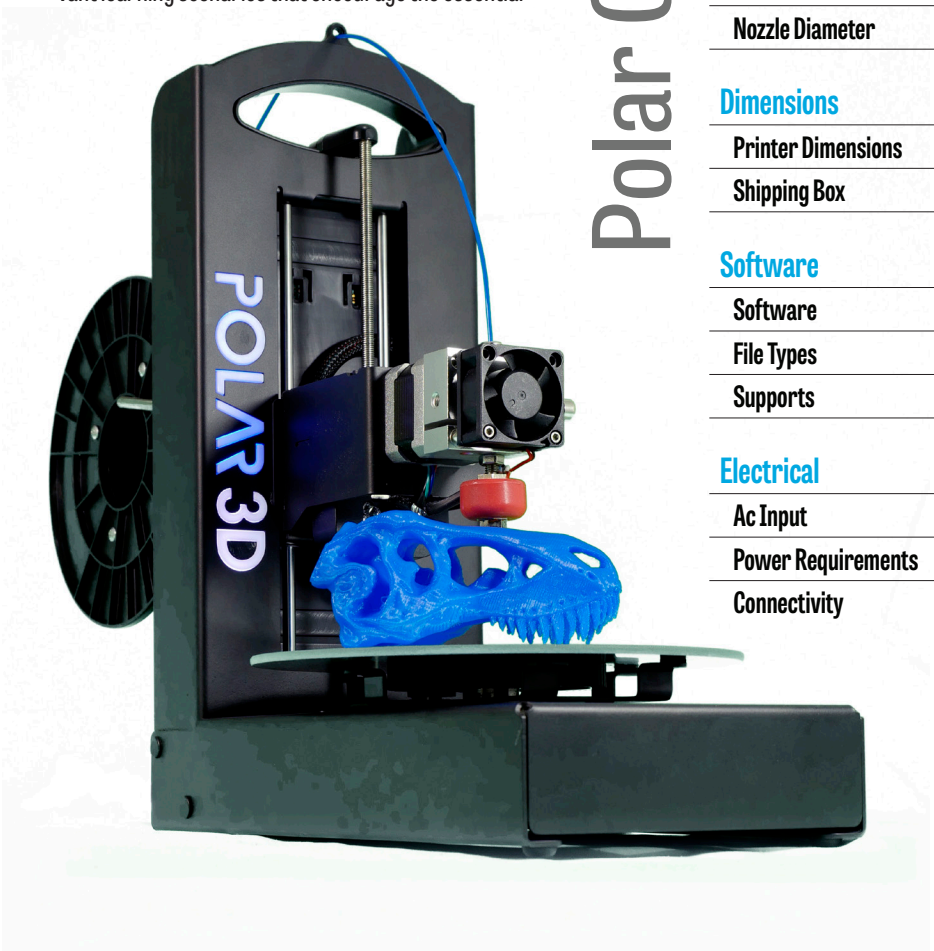
With automatic setup, no leveling, and cloud-based collaboration tools, Polar 3D is a plug-and-play solution for the classroom or home.

Polar Cloud

Every Polar printer can be accessed directly or through integration with Polar Cloud, a cloud-based social platform that allows users to collaborate and print from any device. Polar Cloud brings the power of cloud-based collaboration to the classroom by allowing educators to share their curricula and collaborate across multiple courses and subjects.

Steamtrax Curriculum

STEAMtrax is an innovative supplemental curriculum offered by Polar 3D that integrates engineering and 3D printing technology with core academic knowledge in science, math, language arts, social studies, and art. In the true spirit of the Framework for 21st Century Learning skills, students are engaged in relevant learning scenarios that encourage the essential skills of problem solving, collaboration, communication, clear and critical thinking as well as developing core academic knowledge. Each lesson embeds Computer Aided Design (CAD) and 3D printing as an integral part of the STEAMtrax Engineering Process. Curriculum currently available for K-8 with High School coming Fall 2016. Professional Development training also available.



Polar Classic
POLAR 3D PRINTER

Printing

Print Technology	Fused Filament Fabrication
Build Volume	8.0 Diameter x 6.0 Height (in), 0.3 Diameter x 15.2 Height (cm)
Layer Resolution	50 – 400 Microns
Positioning Precision	X, Y: 10 microns, Z: 1 micron
Filament Diameter	1.75 mm (0.069 in)
Nozzle Diameter	0.4 mm (0.015 in)

Dimensions

Printer Dimensions	12.5 x 8 x 14 in, 10.6 lbs.
Shipping Box	21 x 16 x 9 in, 17 lbs.

Software

Software	Polar Cloud, Built-in CPU with onboard slicing
File Types	.stl, .obj, .p3d
Supports	Google Classroom, Windows, MAC OS X, tablets, smartphones

Electrical

Ac Input	100 – 240 V, ~2 amps, 50-60 Hz
Power Requirements	12 V DC @ 8 amps
Connectivity	Wi-Fi (802.11 b/g/n), Ethernet, USB Serial, USB Thumb Drive

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