

# AFINIA 3D

AUTHORIZED  
EDUCATIONAL  
RESELLER  
FOR THE  
MID-ATLANTIC



Out-of-the-Box 3D Printing Experience For Engineers, Educators and Hobbyists

DIVERSIFIED EDUCATIONAL SYSTEMS, INC

## Key Features

- Free lifetime tech support
- Ready to use Out-of-the-Box
- Fully assembled
- Auto Leveling Platform Calibration, and Nozzle Height Detection
- High quality, non-proprietary, inexpensive plastic filament
- Heated Platform
- Industry leading One Year Warranty

## EXCLUSIVE

FREE CURRICULUM  
AND  
EDUCATIONAL DISCOUNT  
WITH PRINTERS  
PURCHASED  
THROUGH

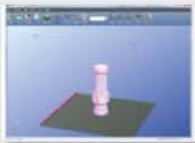


CONTACT US FOR INFO

## Get Started in 3 Easy Steps

- Ready to print within minutes!

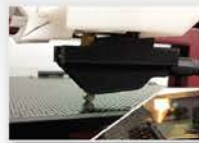
1. Install included software



2. Load Filament



3. Calibrate Nozzle and Platform



## Specifications

### Contents

- Afinia H480 3D Printer
- Easy-to-Use 3D Printer Software
- 3 Perf Boards for the platform
- Handling tools
- Full Spool of ABS plastic (700g)

### Software

- PC: Win XP, Vista (32- and 64-bit), Windows 7/8/8.1 (32- and 64-bit)
- Mac: 10.6 – 10.8

### Printing

- Build Volume: 140 x 140 x 135mm
- Vertical Resolution: 0.15 – 0.40mm
- Print Material: ABS, PLA
- Filament Diameter: 1.75mm
- Heated Platform

### Electrical

- Power: 100-240VAC, 2.5A, 50-60Hz
- Connection: USB 2.0 (Printer may be disconnected once print begins for standalone use.)

### Operation

- Easy-to-use single software interface to:
  1. Load one or more .STL files
  2. Scale, Rotate, Move the models to fit the virtual platform
  3. Choose your Layer Thickness, Fill and Support parameters
  4. Print in either Normal, Fast or Fine speed

### Physical

- Dimensions: 245 x 260 x 350mm
- Weight: Under 11 lbs.
- Environmental Temperature: 60°F to 85°F recommended
- Relative Humidity: 20 – 50% recommended

### File Input

- Input Format: STL, UP3, UPP
- Most CAD software supports output to STL such as Autodesk, Solidworks, Sketchup, Tinkercad, Blender, openSCAD
- There is an extensive online community for downloading and sharing 3D model files

EDUCATIONAL  
START UP SYSTEM  
**\$1,650.00**  
AFTER DISCOUNT



"The Afinia H-Series Desktop 3D printer is the most approachable model we've reviewed, and we'd recommend it to anyone serious about getting started with 3D printing."

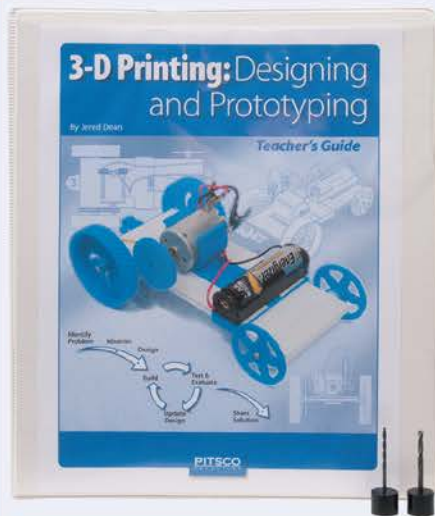
~Rich Brown, Senior Editor cnet.com



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# 3-D Printing: Designing and Prototyping



**NEW!**

## 3-D PRINTING: DESIGNING AND PROTOTYPING CURRICULUM

A PitSCO Exclusive

This curriculum is designed for three-weeks of class time, and students begin by learning engineering and rapid prototype processes and seeing how the 3-D printer operates. Then, they work in teams to design their own battery-operated car, using the 3-D printer to make parts to construct their vehicle. Finally, they see the results of their work on race day.

Written by an engineer, this classroom activity was developed to address several Next Generation Science Standards, specifically the Grades 6-9 Engineering Design performance expectations. Aside from helping instructors meet standards, the activity helps students experience real-world conditions such as peer review and working within a budget.

Includes a DVD, teacher's guide, 5 Competition Catalogs, and drill assemblies for cleaning axle holes. Requires an Afinia H-Series 3-D Printer, sold separately.  
**IBC39674**



**NEW!**

## 3-D PRINTING: DESIGNING AND PROTOTYPING CLASS PACK

A PitSCO Exclusive

Supply your classroom with car kits to use with your 3-D printer with ease. This package provides all the parts needed to create 50 battery-operated cars; however, some parts can be made with the 3-D printer if desired. Includes wheels, axles, chassis, battery holders, batteries, motors, and other needed components and hardware. Requires an Afinia H-Series 3-D Printer, sold separately.  
**IBC39675**

**Note:** 3-D Printing: Designing and Prototyping Curriculum is required to use with this class pack.

