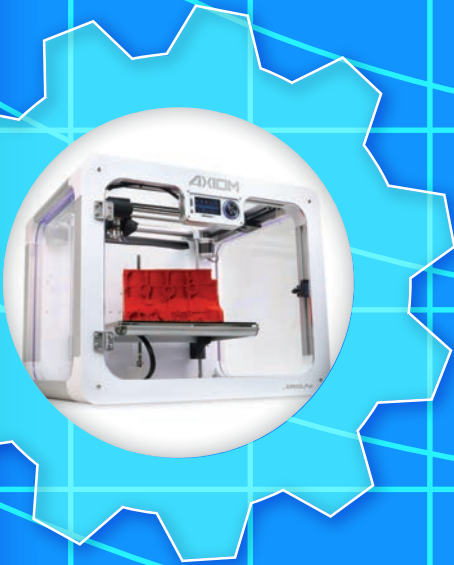


2017 FAB LAB/ MAKER SPACE planning guide



- Input Devices
- 3D Design & Presentation Tools
- Heat Presses
- CNC Machines
- Routers
- 3D Printers
- Laser Engravers/Printers/Cutters
- Custom Lab Environments



ABOUT US

For over 12 years, Aidex has provided innovative, technology-based educational systems and professional resources to schools, colleges, and universities across Illinois, Indiana, Iowa, Kansas, Missouri and Nebraska. As one of the most highly respected education service providers in the industry, Aidex offers complete turnkey solutions for new construction or renovated education labs, as well as customized technical equipment training.

Today's teaching and learning tools have expanded well beyond the blackboard. From interactive multimedia to project-based learning. Technology is enabling educators to offer dynamic teaching materials, devote more time to classroom discussion, and provide valuable hands-on learning for students.

Aidex takes a multidisciplinary approach to technical education solutions to ensure ideal learning environments that provide integrated math, science, technology, and hands-on problem solving for students at all education levels. Through our network of more than 20 manufacturing partners, Aidex provides the most up-to-date coursework, laboratory equipment, training, and customer service in a wide range of technical education programs for K-12 through post-secondary education.

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WHAT IS A FAB LAB?

Makerspaces have been called everything from a FabLab to a Techshop to a hackerspace. Is there a difference between these names? Yes and no. At the core, they are all places for making, collaborating, learning and sharing. Although these spaces have a lot in common, they are also different in a few ways. To start with, a FabLab and Techshop are trademarked names for a particular type of makerspace. They are both generally stocked with similar types of maker equipment like 3D printers, laser cutters, CNC machines, hand tools etc. One is governed by a corporation (Techshop) and the other a foundation (Fab Foundation) and each have their own specific rules and charters to follow.

Whatever name an institution wants to give this type of lab, whether it is a formal FabLab or Techshop, or a lab created for the individual institutions wants and needs they all have some fundamental characteristics. This type of project learning creates an atmosphere of inventive ideas, technology based learning, encouragement, and fun. The hands-on nature of the lab itself adds to classroom learning. A by-product of these types of labs is the ability for institutions to use them as a resource for every aspect of the school. Banners, school signs, arts, communications, promotional materials, and much more!

Fab Labs can take on many variations or combinations of several focus areas:

- Manufacturing
- Fabrication
- Arts & Communication
- Rapid Prototyping
- Family & Consumer Science

Highlights of types of products that can be incorporated into these labs are:

- A proper Lab Environment
- 3D Printers
- 3D Scanners
- Laser Engravers/Cutters
- UV Printers
- Vinyl Printer/Cutters
- Subtractive Prototyping Devices
- CNC Routers
- Professional Design Software
- Heat Press

These work with components and materials optimized for use in the field, and are controlled with custom software for integrated design, manufacturing, and project management.

5 STEP PROCESS TO A SUCCESSFUL, TURN-KEY LAB ENVIRONMENT

1. Preliminary Planning

- Personal Visit By Our Sales Solutions Specialist
- Detailed Information - Pricing, Literature, Equipment List
- Presentation to Administration, School board, Teachers, etc.

2. Lab Design

- Specific Lab Layout Assistance
- Room Layout
- Furniture Layout
- Equipment Layout
- Electrical Specifications
- Network Specifications

3. Installation

- Complete On-Site Delivery
- Installation of the Lab
- Equipment Configuration
- Network Testing
- Software Testing
- Lab Orientation
- Inventory of Delivered Items

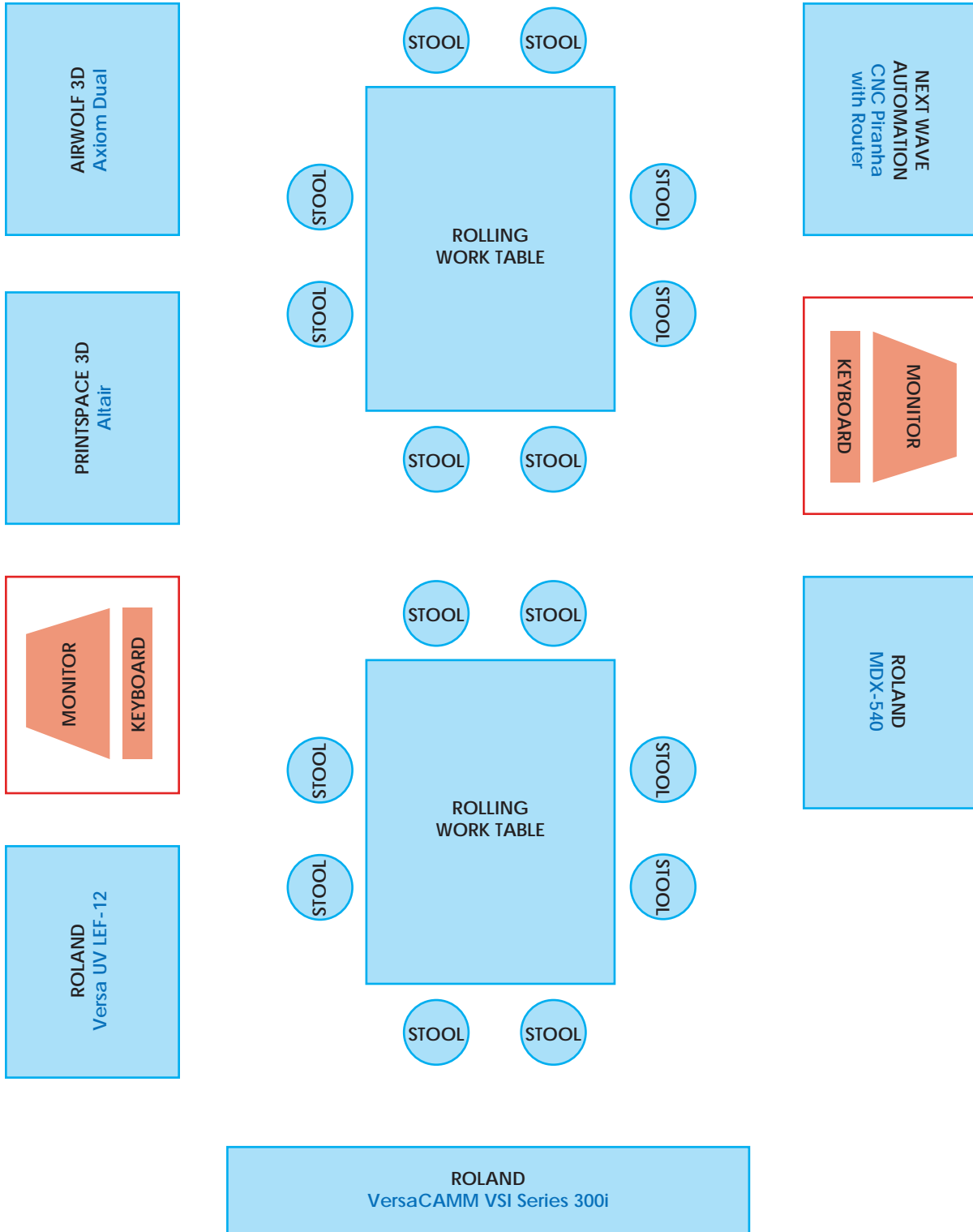
4. Professional Development

- Teacher Professional Development
- Advanced Professional Development Sessions
- Users' Group Meetings

5. After Sale Support

- Warranty & Out-of-Warranty Service
- Full Time Technical Support Staff
- On-Site Service
- Shipping Assistance
- Free 800 Number Support
- On-Line Support
- And Much More

CUSTOM FAB LAB ENVIRONMENT





AV ROVER

3D AV ROVER

Capture the Minds and Imaginations of Your Students with 3D

The 3D AV Rover integrates the best in hardware, software, and content for a truly remarkable 3D learning experience. Proven to increase test scores and retention by as much as 33%, the 3D AV Rover is certain to inspire students and enhance lessons.

Everything You Need for a Complete Solution

The 3D AV Rover includes a 3D DLP Projector, 3D Computer with 3D Content, 3 built in speakers, mixer amplifier with microphone input as well as XLR out, laptop connections, 2 locking storage drawers, retractable power cord, heavy duty casters, and much more.

Easy to Use

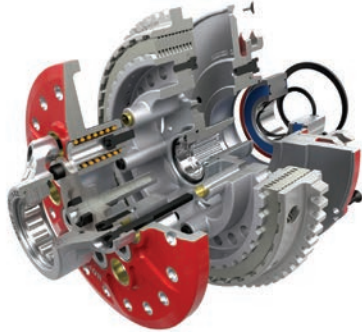
Bringing lessons to life is easy with the 3D AV Rover. Simply plug your system in, turn it on, and you have the highest quality 3D videos, interactive objects, and virtual simulations for your whole class to enjoy.

Teach Where You Want, the Way You Want

- Most Comprehensive 3D Library
- Advanced 3D Computer System
- Professional sound system
- Adjustable image size and height
- Totally secure even when in use
- Shareable between classrooms
- No setup time

AV Rover Has the Largest Repository of 3D Educational Content. Some of Our Educational Content Includes:

- **Animations** - Including a unique blend of 3D videos, simulations, experiments, learning activities, quizzes, texts, images, and learning objects, our 3D Animations have revolutionized the way students across the world understand key concepts in Math and Science including Biology, Physics and Chemistry.
- **Interactive Objects** - 3D interactive objects include incredibly detailed, interactive models spanning the subjects of Botany, Human Anatomy, Zoology, Microbiology, Chemistry and Engineering. Students can explore, dissect and manipulate virtual 3D objects.
- **Virtual Frog Dissection** - Immersive learning activities featuring step-by-step instructions, a fully interactive interface, and easy to use tools. Students engage in a complete virtual 3D Frog learning experience including dissection.



SOLIDWORKS SOLIDWORKS EDUCATION PROGRAM

The SolidWorks® Education Program offers you a complete suite of 3D design tools used by millions of design professionals across a broad range of industries. With the intuitive SolidWorks user interface and design capabilities, your students will quickly be able to:

- Conceptualize and visualize detailed designs
- Precisely document designs and parts lists
- Run complete design analysis and verification
- Create dynamic technical illustrations for project presentations
- Use product data management to track student project files

With the SolidWorks Education Program, your students can focus on ideas, problem solving, and innovation—instead of having to memorize complex commands.



NEXT WAVE AUTOMATION VECTRIC ART TO PART DESIGN SOFTWARE

VCave:

VCave includes the functionality demanded for complex work while remaining incredibly easy to use and affordably priced. The software is used by cabinet makers, wood workers, sign makers, prop makers, plastic fabricators, hobbyists and in many other applications.

Aspire:

Aspire is built on the same platform as Vectric's VCave Pro software, sharing the intuitive interface and ease of use for production design and routing. In addition to the powerful drawing and production routing tools of VCave Pro, Aspire also has tools to let you transform 2D sketches, photos, drawing and digital artwork into detailed 3D relief models and then to calculate 3D Roughing and Finishing toolpaths to accurately cut these shapes.



ROLAND ROLAND SRP PLAYER

Roland SRP Player is ideal for all rapid prototyping and custom rapid manufacturing applications. The CAM software simplifies the production process and generates tool paths that turn out parts with smooth surfaces and accurate, fit-tight precision.

- Optimum tool paths for each application for surface or polygon data
- Produces flawless shapes with smooth, accurate curves
- Extends the lifespan of tools by reducing their load
- Cuts only desired sections, producing shapes with maximum efficiency
- Detailed parameter settings ensure professional precision and quality
- Easy-to-use, intuitive operation
- Compatible with all Roland MDX Series milling devices



HOTRONIX AIR FUSION

Heat printing simplicity through air-powered operation. The first fully automatic heat press - the Hotronix® Air Fusion® - makes it possible. Two push-buttons and a pedal are all that's required.

Ideal for medium to high-volume shops, the Air Fusion® offers a two-button operation that locks the upper platen down with accurate, even pressure. It then swings open automatically to create a heat-free workspace. A tap of the foot pedal returns the upper platen. It's that simple.

Take the guesswork out of setting pressure. Whether you're printing a fleece sweatshirt or a lightweight T-shirt, the patented Auto Adjust Pressure™ automatically adjusts to the thickness of the item you're printing. Program your time to change from pre-heating to final application. With up to four time and pressure settings, it's not just possible - it's automatic.



HOTRONIX FUSION

The one-of-a-kind Hotronix® Fusion® operates as a draw or swing-style press, providing a heat-free workspace. The swing or draw feature gives 100% access to every inch of the 16" x 20" lower platen, allowing for easy, precise placement and positioning right on the press.

Whether you prefer to decorate with a draw or swing press, the Hotronix® Fusion® has you covered. It's like having two presses in one. Depending on your garment or work environment, you can choose to swing the upper platen away or draw out the lower platen. Either way, you'll always have a heat-free workspace.



HOTRONIX AUTO OPEN CLAM

With a patented magnetic auto open feature, over-application and ruined garments are things of the past. An over-the-center pressure adjustment allows for even, edge-to-edge heat and pressure, a digital display takes the guesswork out of pressure settings, and the Twin Timer™ is great for pre-heating or two-step applications.

In addition to ending over-application, the Hotronix® Auto Open Clam features a compact clamshell design, making it the perfect press for a crowded workspace. Requiring only a small footprint, the wide opening still allows for easy positioning of garments and design layout.



**ROLAND
SRM-20
MILLING MACHINE**

The SRM-20 is Roland's latest generation desktop milling machine for the office, studio and educational environment. Since pioneering desktop milling in 1986, Roland has continued to perfect accuracy and efficiency in a compact format. The SRM-20 incorporates innovative features, including a new spindle, collet, circuit boards and control software. The result is a leap forward in milling precision, speed and ease of use.

The SRM-20 can mill a variety of non-proprietary materials typically used for prototyping, including chemical wood, acrylic and modeling wax. Optional collets are also available to extend the mill's capability with a wide range of end mill shapes and sizes, ideal for creating beautiful finishes and intricate details.



**ROLAND
MDX-40A
MILLING MACHINE**

The Roland MDX-40A is a desktop Subtractive Rapid Prototyping (SRP) system that offers product designers a major value. The MDX-40A is less than half the cost of most additive systems while producing prototypes out of a wider variety of non-proprietary materials with greater precision and better surface finish. The MDX-40A has a large 12" x 12" x 4.1" maximum work volume without rotary axis, and an optional 4th rotary axis that allows unattended 360° milling and supports materials up to 10.6" long by 4.7" in diameter. An optional 3D scanning head that uses Roland's innovative Active Piezo Sensor technology – ideal for reverse engineering – is also available. Included powerful CAM and simulation software enables you to get started immediately. Bundled with ClickMill™, SRP Player, Virtual MODELA™, Dr. Engrave™ and 3D Engrave software.



**ROLAND
MDX-540/540A
SYSTEM
PRECISION
PROTOTYPING
MACHINE**

The MDX-540 SRP[®] System combines precision desktop milling with powerful CAM software, making it easy to produce prototypes with industry leading speed and accuracy. The MDX-540 mills a wide variety of nonproprietary materials and popular engineered plastics such as ABS, Delrin[®], and nylon. The benchtop device produces functional prototypes ideal for structural, thermal, and electrical testing. It even produces non-ferrous metal rapid injection molds. MDX "S" models deliver ultra smooth surfaces and higher repeat accuracy for optics, metal molds and other high tolerance applications.

FANUC LEVEL CERTIFICATION MILL & LATHE

The Level CNC certification turning cart and Level CNC certification milling cart enables students to gain exposure to turning practices, including on-machine programming, set up and operation. The small footprint with easy access allows portability, eliminating intimidation that much larger machines can impose on students when first entering CNC programs. The portable machine runs on a standard single phase 110VAC outlet and is capable of being moved from classroom to classroom through a standard doorway.



Mill



Lathe

Level Certification Mill Features:

- 0iM-D Mate control
- 8.4" LCD
- 512 K
- (G54-G59) + 48 additional work offsets
- 427 x 250mm (16.8" x 9.8") Working table area
- 11 station, fixed pot tool changer
- Automatic tool length sensing (Optional)
- 3" Vice
- 16.5" (421mm) X axis Travel
- 8.5" (217mm) Y axis Travel
- 7.5" (190mm) Z axis Travel
- 0.001 - 360° 4th Axis (Optional)
- Distance from table surface to spindle nose 2.75" - 10.2" (70mm -260mm)
- Resolution 0.00004" (0.001mm)
- Repeatability 0.0002" (0.005mm)
- Accuracy 0.0004" (0.01mm)
- Rapid Feed (X, Y & Z) 400 ipm (10,200 mm/min)
- Cutting Feed (X, Y & Z) 240 ipm (6,120 mm/min)
- Rapid Feed (4th Axis) 19 rpm (7,000 deg/min)
- Tool Holder S20T
- Spindle Speed 100 - 17,000 rpm
- Spindle Motor Power 2HP
- ER-16 Collet size
- 450lbs approximate weight without base
- Base weight approximately 100lb
- Air consumption 3 CFM (87L/Min)
- Air Pressure requirement 90psi
- Power 110 VAC, 15A
- Dimensions H68" x W33" x D37" (1727 x 838 x 939mm)

Level Certification Lathe Features:

- 0iT-D Mate control
- 8.4" LCD
- 512 K
- (G54-G59)
- 8 Station Turret
- OD Tool shank Size ½" (12.7mm)
- ID Tool Shank Size ¾" (19.05mm)
- 7" (177mm) X axis Travel
- 6.3" (160mm) Z axis Travel
- Resolution 0.00004" (0.001mm)
- Repeatability 0.0002" (0.005mm)
- Accuracy 0.0004" (0.01mm)
- Rapid Feed (X & Z) 190 ipm (5000mm/min)
- Cutting Feed (X & Z) 118 ipm (3000 mm/min)
- Spindle Speed 3000 rpm
- Spindle Motor Power 2HP
- Chuck size 4" (101.6mm)
- 475lbs approximate weight without base
- Base weight approximately 100lb
- Air consumption 3CFM (87L/Min)
- Air Pressure requirement 90psi
- Power 110 VAC, 20A
- Dimensions H66.5" x W33" x D30" (1689 x 838 x 762mm)

DENFORD

MICROMILL CNC MILL & MICROTURN CNC LATHE

A compact 3 axis CNC milling machine and 2 axis CNC lathe, both with totally enclosed interlocking guards - the ideal introduction to small part CNC manufacture. Variable spindle speeds and feedrates make the Micromill and Microturn ideal for cutting resistant materials such as wax, plastic, acrylic, aluminum and free cutting alloys.



Mill

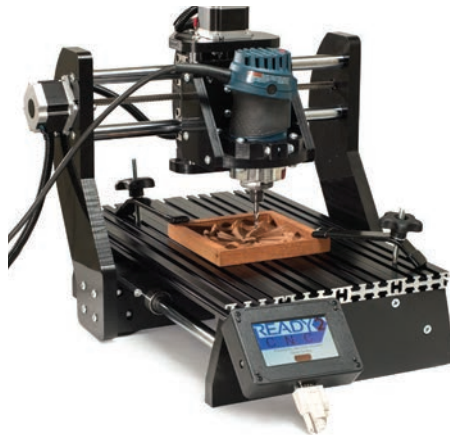
Lathe

Micromill CNC Mill Features:

- VR CNC Milling Operating Software
- Maintenance Tools
- Clamping Kit
- 1/4" Dia Milling Collet
- 5/16" Dia Drawbar
- 3/16" Slot Drill 1/4" Shank
- Installation and Instruction Manuals
- Set of Metric Allen Keys

Microturn CNC Lathe Features:

- VR CNC Turning Operating Software
- Maintenance Tools
- 1 1/2" Standard Toolpost
- Tailstock
- 3" Dia Spindle Faceplate
- No. 1 Morse Taper, Spindle Centre
- No. 0 Morse Taper, Tailstock Centre
- 2 1/2" Dia 3 Jaw Chuck & Tommy Bars
- 1/4" Braised Carbide Tip Cutting Tool, Right Handed



NEXT WAVE AUTOMATION CNC PIRANHA WITH ROUTER

Although featuring an entry level price, the CNC Piranha® is every bit as capable as its cousins the CNC Shark® and it also includes a convenient touch-screen interface! Its compact 12" x 18" table makes it perfect for smaller-scale projects like carvings, plaques, ornamental boxes and precision parts machined from wood, soft metals, or plastics, all at a fraction of the price of a full-sized CNC. With its 3D carving capability, including a 3D models library, you can carve expensive corbels, cut intricate inlays and engravings.

Features:

- Table dimensions: 12" x 18"
- XYZ travel: 12" x 13" x 3"
- Overall dimensions: 19-1/2"W x 20-1/2"L x 18"H
- Aluminum interlocking slotted table track for highly customizable clamping
- Includes VCarve Desktop V8 Design software
- Vector Art 3D Sampler Pack
- Color Touch Screen pendant controller system
- Requires a PC computer with USB 2.0 port (not included)
- Requires a Bosch, Dewalt, Porter Cable, or similar style palm router.
- Currently not compatible with the Touch Probe (upgrade coming soon)
- Includes 2 Hold Down clamps
- Ships fully assembled.
- Made in USA



NEXT WAVE AUTOMATION CNC SHARK

With a table measuring 15-3/4" x 31-1/2", the CNC Shark® is ideally suited for machining or carving on a large variety of mediums, such as signs, doors and other small projects. Its ease of use and impressive power, speed, and accuracy, sets it apart from other competitors in the marketplace. Featuring steel, aluminum and high-density poly-ethylene construction it is designed to perform flawlessly for many years to come. The included clamping table features two hold-down slots for securing work anywhere along the length of the table. You supply a PC computer with USB 2.0 port and a Bosch Colt router (sold separately). Simply connect the USB cable to the controller box and the other end to your computer (not compatible with Mac computers).

Features:

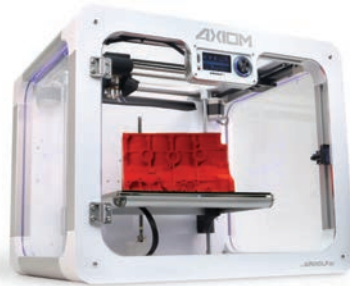
- Includes VCarve Desktop V8 Design software
- Includes exclusive CNC Shark Control Panel operating software with Virtual Zero technology
- Includes 3/8" Diameter V-Groove Router Bit
- Includes two Hold-down Clamps
- Includes mounts for a Bosch Router (Router Motor is not included, sold separately)
- Router power on/off control system included
- Fully compatible with the Bosch Colt Palm Router
- Download free project plans from Vectric
- High Speed traverse rate: 200 ipm
- MDF table surface.
- USB interface with on controller memory storage.
- Emergency power shut off on Controller.
- One year warranty on parts and labor, special shipping charges apply
- Made in USA



AIRWOLF 3D AXIOM DUAL

Features:

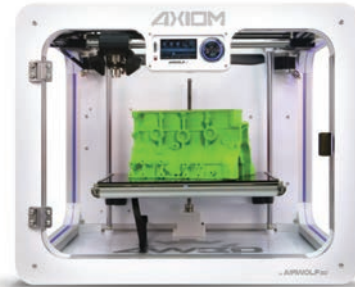
- Independently Controllable Hotends
- Create Soluble Support Structures to Eliminate Post Processing
- Powerful Quad-Fan Material Cooling System
- Interchangeable Nozzles
- Combine 2 Materials or 2 Colors in One Print
- Feature Large 12 x 8 x 9.5" Build Volume
- Provided Print Settings Allow for Easy Dual Color or Dual Material Setup
- Print in Over 40+ Materials from TPU to Polycarbonate
- Wi-Fi, Ethernet, USB and Micro SD
- High Temperature Dual Printheads 315 °C
- Core XV Motion System
- Enclosed Chamber
- Auto-Leveling
- Minimum Layer Height of 40 Microns



AIRWOLF 3D AXIOM

Features:

- Auto-Leveling
- Enclosed Chamber
- Core XV Motion System
- Print in over 40+ materials from TPU to Polycarbonate
- Astroprint Cloud Slicing and Mobile Print Management
- Minimum Layer Height of 40 Microns
- Build Volume of 1000 Cubic Inches
- Powerful Tri-Fan Material Cooling System
- Interchangeable Nozzles (from 0.35 to 0.50 mm)
- Wi-Fi, Ethernet, USB and Micro SD
- High Temperature Printhead 315 °C
- Dual Hotend (Early 2016)



AIRWOLF 3D AXIOM E

Features:

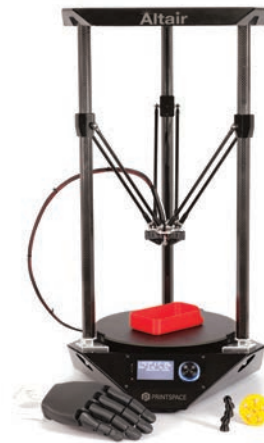
- Print in over 10+ materials from TPU to PLA
- Astroprint Cloud Slicing and Mobile Print Management
- Auto-Leveling
- Enclosed Chamber
- Core XY Motion System
- Minimum Layer Height of 40 Microns
- Build Volume of 1000 Cubic Inches
- Powerful Tri-Fan Material Cooling System
- Interchangeable Nozzles (from 0.35 to 0.50 mm)
- USB and Micro SD
- Wi-Fi, Ethernet (optional)



NEXT WAVE AUTOMATION CNC PIRANHA WITH 3D PRINTER HEAD

Although featuring an entry level price, the CNC Piranha® is every bit as capable as its cousins the CNC Shark® and it also includes a convenient touch-screen interface! Its compact 12" x 18" table makes it perfect for smaller-scale projects like carvings, plaques, ornamental boxes and precision parts machined from wood, soft metals, or plastics, all at a fraction of the price of a full-sized CNC. With its 3D carving capability, including a 3D models library, you can carve expensive corbels, cut intricate inlays and engravings.

The CNC Piranha® has such incredible accuracy that you can even engrave custom circuit boards with it. The creative potential is unlimited and the entire machine can easily fit on one end of your bench. Just design your work with the included VCarve Desktop V8 Design software on a PC computer with USB 2.0 port (*not included*). Then simply save the program directly to a USB flash drive, plug it into the Pendant, select your file, and hit the run button. No need to have your computer subjected to a dusty shop environment.



PRINTSPACE ALTAIR

Altair was designed with professionals in mind, giving you the ability to test ideas, create prototypes, and hold a 3D model in your hand as quickly as possible. Solid craftsmanship and precision machined parts make Altair superior in quality. Get printing quickly with state-of-the-art features:

Lab-Friendly - Altair is a quiet printer and won't be a distraction - when running. With a small footprint but large build area, a user can print parts over 8 inches in diameter and 10 inches high.

Accurate- With a click of a button Altair can calibrate the print bed in less than three minutes so it is easy to get accurate prints and optimal first layer adhesion.

Versatile - Our NOVA all-metal hot end can print at high speeds without jamming. High temp printing means Altair can print in over 25 different materials.

Efficient - Get printing faster. Our Instant-On print bed heats up in less than one minute and our quick release hot end and heated bed make clean-up efficient.

Reliable - Constructed of sturdy aluminum and carbon fiber, the Altair is built to last. Only precision machined and high quality parts used in the build.



ROLAND
CAMM-1 GS-24 DESKTOP
VINYL CUTTER

The Roland CAMM-1 GS-24 desktop vinyl cutter is precision and efficiency - to the max. Equipped with a completely redesigned cutting and blade holder, the GS-24 offers greater stability and a 39.5 percent increase in down force (from 250g to 350g). Translation: you can cut like never before - even on thick, dense substrates. Vehicle graphics, signs and decals, decorated apparel, specialty graphics, and more. Backed by the 3-year warranty, the GS-24 is Roland's best desktop vinyl cutter ever.

Features:

- Innovative, digital servo motor offers exceptional precision
- Unrivaled compatibility—accepts media width from 2" to 27.5" (50 to 700mm)
- Maximum cutting area of 22.9" (W) x 984" (L)
- Flexes its muscles with 350g of down force
- Delivers a maximum cutting speed of 20 inches per second
- Overlap Cutting (up to 10x) makes cutting and weeding easier than ever
- Cut through even thick substrates—like magnetic materials—with incredible ease
- Unrivaled compatibility—accepts media width from 2" to 27.5" (50 to 700mm)
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- Cut through even thick substrates—like magnetic materials—with incredible ease



ROLAND
VersaStudio 20" BN-20
DESKTOP INKJET PRINTER/
CUTTER

With the VersaStudio BN-20, we've taken everything that makes a Roland printer great and packed it into one powerful, profit-producing package. Truly affordable. Remarkably versatile. Award-winning mild solvent inks. Your choice of media. Metallic and white ink options. One device that can print and cut an incredible variety of jobs on a full spectrum of media. Everything from stickers, decals, labels, t-shirt transfers, photo prints, posters and small format signage to eye-popping awards and vehicle graphics. All from your desktop.

Features:

- Superior Image Quality Through State-of-the-Art Print Technology
- Four Different Ink Choices Including Metallic Silver or White Ink
- Print and Cut in One Integrated Workflow
- VersaWorks® Professional RIP Software
- Roland OnSupport Online Production Assistance
- One-Year Trouble-Free Warranty



ROLAND VersaCamm VSi PRINTERS/ CUTTERS

The VSi Series offers everything users already enjoy about the VersaCamm injects...and more. We started off with all the popular features that have made VersaCamm the world's best-selling wide-format printer. Then we expanded the functionality and capabilities even further, incorporating the latest print head technology, faster drying GREENGUARD Gold certified eco-Sol MAX[®] 2 inks in CMYKcLm, White, Metallic and new Light Black, and PANTONE[®] color matching. We even added front-loading cartridges and other user-friendly design features for unsurpassed convenience and efficiency.

Available in 30, 54 or 64-inch models, the VersaCamm VSi series of wide format inkjet printers achieve stunning results across a wide array of applications, including labels and decals, signs, banners, vehicle graphics and wraps, fine art posters, packaging prototypes, POP displays and heat transfers for apparel decoration.

- Offered in Five Ink Configurations:
 - CMYKKYMC
 - CMYKLCmLk
 - CMYKLCmLk+WH
 - CMYKLCmLk+MT
 - CMYKLCm+WH+MT

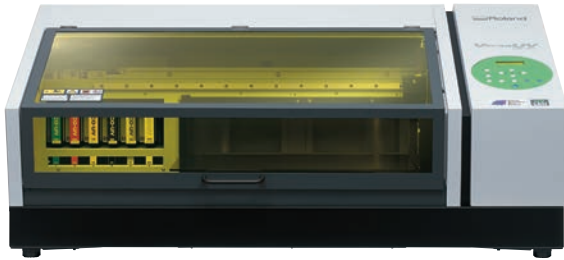


ROLAND TrueVIS SG SERIES PRINTER/CUTTERS

Whether you're just starting out or wanting to expand production, new TrueVIS SG series printer/cutters offer all the quality and versatility of a Roland, at an unbeatable price. TrueVIS ushers in a new era of integrated printing and contour cutting, and the SG delivers the value you need to quickly and easily build your industry.

Features:

- Printer plus integrated contour cutter available in two model sizes: > 54-inch (105.7(W) x 29.3(D) x 51.6(H)) > 30-inch (81.5(W) x 29.3(D) x 51.6(H))
- Roland Versa Works Dual RIP Software included – utilizes both PDF and PostScript engines for super-fast preview times and improved handling of files with transparencies
- Roland DG Mobile Panel – manage the functions of the SG printer/cutter remotely using a smartphone or tablet with a Bluetooth connection
- New ink system offers low-consumption, low-cost production with removable 500ml pouches
- TrueVIS INK available in CMYK
- Two new FlexFire[™] printheads fire dot patterns more efficiency in 3 sizes, for high quality images and color without high ink use
- TrueVIS Color achieved with new FlexFire printheads and TrueVIS INK delivers a wide gamut of stunning, eye-popping color
- New cutting carriage, blade holder, and blade for increased down force and media compatibility



ROLAND
Versa-UV LEF-12/20

Introducing the amazing LEF benchtop UV flatbed printers. Print directly on dimensional objects such as awards, giftware, packaging and products with spectacular results. With the LEF, you get all the benefits of Roland's award-winning UV-LED technology, which cures inks instantly on just about any surface. Instant drying and flexible ECO-UV inks deliver high color density and a wide gamut for exceptional images print after print. Specialty inks, including white and clear, allow printing on clear, reflective and colored surfaces and finish graphics with dazzling embossing and varnishing effects.

Choose from Two Models:

The LEF-12 accommodates objects up to 12 inches by 11 inches and 3.94-inches thick. The LEF-20 prints on items up to 20 inches by 13 inches and 3.94 inches thick, and includes a host of advanced features.

LEF-20 Advanced Features:

- Distance print mode for outstanding quality on curved objects
- Stainless steel height sensor allows printing on magnetic products
- New, advanced UV-LED curing system to expedite production
 - 2x faster Clear ink and CMYK ink printing

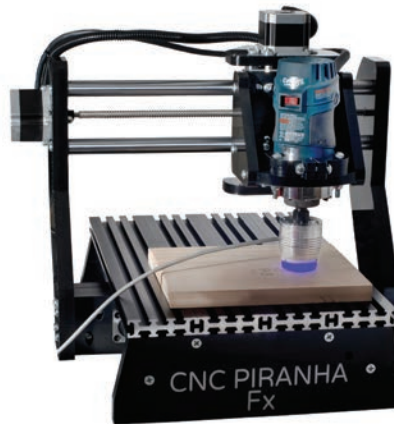


ROLAND
Versa-UV LEF-300

With the VersaStudio BN-20, we've taken everything that makes a Roland printer great and packed it into one powerful, profit-producing package. Truly affordable. Remarkably versatile. Award-winning mild solvent inks. Your choice of media. Metallic and white ink options. One device that can print and cut an incredible variety of jobs on a full spectrum of media. Everything from stickers, decals, labels, t-shirt transfers, photo prints, posters and small format signage to eye-popping awards and vehicle graphics. All from your desktop.

Features:

- Superior Image Quality Through State-of-the-Art Print Technology
- Four Different Ink Choices Including Metallic Silver or White Ink
- Print and Cut in One Integrated Workflow
- VersaWorks® Professional RIP Software
- Roland OnSupport Online Production Assistance
- One-Year Trouble-Free Warranty



NEXT WAVE AUTOMATION PIRANHA FX WITH LASER

Piranha Fx is the first ever make anything machine. With its quick easy to change modules it can carve, laser engrave or even 3D print! Featuring a compact 12" x 13" cutting capacity, the CNC Piranha Fx® is perfect for smaller-scale projects like carvings, plaques, ornamental boxes and precision parts machined from wood, soft metals, or plastics. The Laser engraver attachment quickly allows you the ability to either enhance your CNC handy work or create from scratch. You can also do projects like lettering, engrave photos, or images. Finally with its quick change 3D printing module you can take your project from design to prototype in no time. Your creative potential is unlimited with the Piranha Fx® and the entire machine can easily fit on one end of your workbench.

Features:

- Table dimensions: 12" x 18"
- XYZ travel: 12" x 13" x 3"
- Overall dimensions: 19-1/2"W x 20-1/2"L x 18"H
- Aluminum interlocking slotted table track for highly customizable clamping
- Includes VCarve Desktop V8 Design software
- Vector Art 3D Sampler Pack
- Color Touch Screen pendant controller system
- Requires a PC computer with USB 2.0 port (not included)
- Requires a Bosch, Dewalt, Porter Cable, or similar style palm router. (sold separately)
- Currently not compatible with the Touch Probe (upgrade coming soon)
- Includes 2 Hold Down clamps
- Ships fully assembled.
- Made in USA



Pinwheel Table

INTERIOR CONCEPTS CUSTOM LAB ENVIRONMENTS

Interior Concepts manufactures the best space saving furniture on the market thanks to our one-inch thick panel system that can be modified by the inch. Our innovative modular panel system takes up less room and allows you to do more with less. We build our furniture around the existing architecture, like columns and utility access panels, to provide the best utilization of your space. Interior Concepts has the ability to comfortably fit more people into your space or create more usable space in any given area.



Instructor Desk

Standard products are fast becoming a commodity with price being the only differentiation. With the ability to maximize space and modify our furniture, all in a timely and economical fashion, we provide a product that will work better and be competitive for years to come. Our customers know that they do not have to settle on standard, when they have the ability to get exactly what they need to enhance their business. Watch our customers tell their story in the Testimonials section.

As Interior Concepts works with schools to design Fab Labs across the country, we've noticed several product trends that have helped schools to create a flexible and fun workspace:

- Unique table shapes with whiteboards to increase collaboration
- Mobile work areas with storage for projects and learning tools
- Adjustable height mobile podium for the teacher provides a flexible work area
- Comfortable stools and chairs



Media Table



Media Center



Collaboration Table



STEM Lab



NOTES

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NOTES

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AIDEX CORPORATION CAPABILITIES

For new construction and renovation projects, Aidex Corporation combines a clear vision of your goals with our professional consulting, planning, implementation and support services, to maximize your educational results:

Consulting

Before the space planning begins, our staff will meet with you to understand your educational objectives, and help to define a successful and sustainable program implementation.

Planning

Next, we will assist in the careful planning of a total learning environment – not just a “lab.” We’ll work with your administrators, faculty, and architects to help layout your space, and provide you with detailed plans.

Implementation

When your building is ready, our factory-trained technicians will complete your furniture and equipment installation on time, and within budget. And our manufacturing partners will provide effective professional development for your faculty and lab support staff, either on-site or at our training facilities.

Support

Once your program is up-and-running, our team of outside service technicians and inside support staff will work with you to ensure that your program continues to function as specified, and is kept up-to-date, for many years to come.

Providing Educational Technologies for Tomorrow's Workforce
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