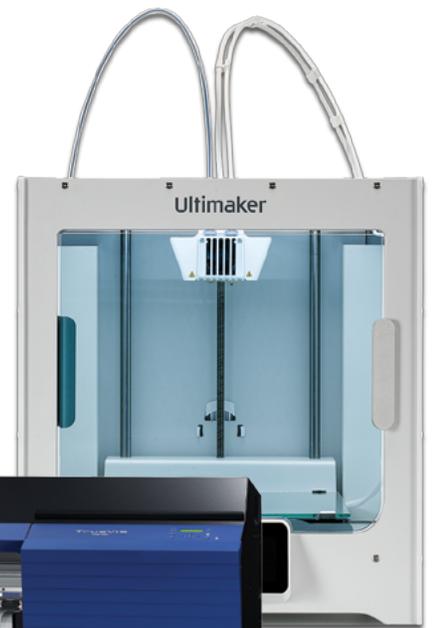




Makerspace Planning Guide





ABOUT US

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.

Buckeye Educational Systems provides innovative, technology-based educational systems and professional resources to a three-state region. As one of the most highly-respected education service providers in the industry, Buckeye Educational Systems offers complete turnkey solutions for new construction or renovated education labs as well as customized technical equipment training.

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WHAT IS A MAKERSPACE?

A Makerspace is where ingenuity and creativity can be translated into advanced skills. This space provides in-depth insight into problem solving, design, and creative thinking. The projects conducted in a Makerspace require multiple machines, each with a specific purpose. Using a variety of approaches, the right tool can be used to solve a specific problem. This type of 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 and engages students. Skills gained within a Makerspace can be practically utilized, teaching job and life skills that can encourage students to begin thinking about future careers, entrepreneurial ambitions, or higher education.



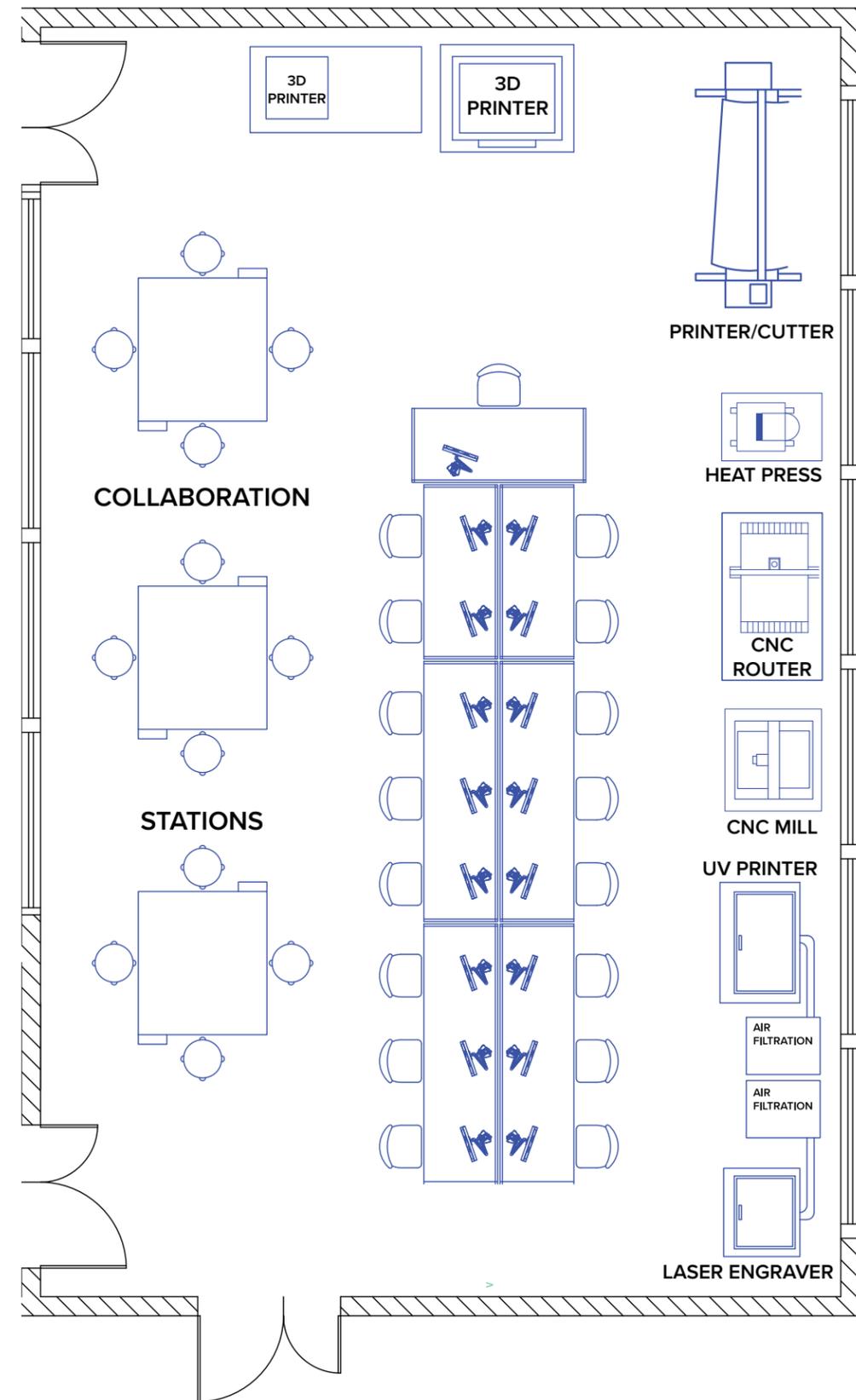
OUR MAKERSPACE PARTNERS

Beachwood High School
 Beavercreek City Schools
 Bloom Carroll Local Schools
 Brookfield Local Schools
 Canal Winchester Schools
 Carrollton Area Career Center
 Case Western Think Box
 Chagrin Falls Schools
 Chillicothe Middle School
 Cincinnati Public Schools
 Cleveland Metropolitan Schools
 Clinton Central High School
 Cuyahoga Community College
 Dayton Regional STEM Schools
 Dublin City Schools
 Elyria High School
 Frankel Jewish Academy
 Gahanna City Schools
 Gilmore Academy
 Hathaway Brown Academy
 Hawken Schools

Hilliard City Schools
 Hoopeston Area High School
 Houghton Lake High School
 Lakeland Community College
 Lordstown High School
 Mahoning Valley STEM School
 Mayfield City Schools
 Mt. Olive High School
 Noble Local School District
 North Central State College
 North Olmstead City Schools
 North Ridgeville City Schools
 Norwalk City Schools
 Ohio State University
 Olentangy City Schools
 Otterbein University
 Perrysburg City Schools
 Port Clinton City Schools
 Porter County Career Center
 Renton Junior High School
 Richmond Heights Local Schools

South Euclid Lyndhurst Schools
 Southwestern High School
 St. Marys City Schools
 Steubenville City Schools
 Strongsville City Schools
 Switzerland of Ohio Schools
 Trumbull County Career Center
 University of Cincinnati
 University of Dayton
 Warren City Schools
 Waynesfield Goshen
 Westerville City Schools
 Willoughby Eastlake Schools
 Woodridge City Schools
 Wooster City Schools
 Yellow Springs Schools
 Youngstown City Schools

SAMPLE MAKERSPACE LAYOUT



PRINTERS/CUTTERS



Eco-Solvent Printers & Printer/Cutters



TrueVIS VG2 Series Printer/Cutters



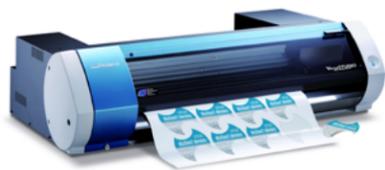
Engineered to exceed the quality and production needs of today's most demanding professionals, the TrueVIS VG2 is everything you could ever want in a printer/cutter and a whole lot more. The VG2 large format inkjet printer/cutter offers you comprehensive color choices, improved machine efficiency, and increased print and cut accuracy for true unattended production. Crank out thousands of posters, produce prints on specialty materials, or create vehicle graphics with exact brand colors for a perfect wrap. Available in 54" and 64" models.

TrueVIS SG2 Series Printer/Cutters

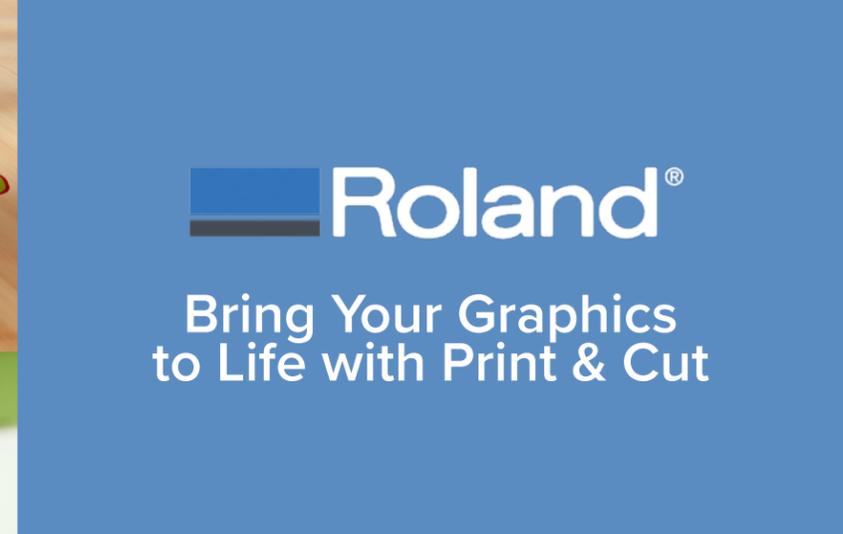


TrueVIS SG2 series large format printer/cutters provide the superior color and cutting features you expect to find in a top-of-the-line machine, but without the higher price tag. Available in 30", 54", and 64", you'll find the right fit for your school. Swap-out your desktop devices for the 30" SG2-300 printer/cutter that offers so many more customization opportunities, or expand into large-format applications with the SG2-640 and SG2-540. Produce Vehicle Graphics, Die-Cut Labels and Decals, Signs, Banners, and more.

VersaStudio BN-20 Desktop Printer/Cutter



The BN-20 packs everything into one, powerful, profit-producing package. The BN-20 is perfect for creating t-shirt graphics, poster prints, stickers and decals – all from the comfort of your desktop. Not only does the BN-20 desktop inkjet printer/cutter open up a world of graphics possibilities, but it does it with the highest level of quality. The VersaStudio streamlines the production process by automatically contour cutting its printed output and eliminating the need to reload and reposition graphics.



- Stickers
 - Banners
 - Heat Transfers
 - Window Graphics
 - Vehicle Wraps
- and much more!*



UV Printers



VersaUV LEF2-300 Benchtop UV Flatbed Printer



Featuring a 30" print width, four print heads and two UV-LED lamps for higher-volume product customization, the VersaUV LEF2-300 flatbed printer enables direct printing onto accessories, giftware, ceramics, and countless other products—producing stunning color, realistic textures and stylish embossed effects. As Roland's largest, fastest and most feature-packed LEF technology to-date, it offers brand new production ease and efficiency.

MAX PRINT AREA: 30 x 13 in

Shown with Optional BOFA Air Filtration Unit

VersaUV LEF2-200 Benchtop UV Flatbed Printer



With optimized ease and efficiency, you can print directly onto accessories, giftware, ceramics, and countless other popular products. Print gloss/matte finishes, realistic textures, or 3D embossed effects to add an irresistible new dimension of "touch and color". Create your own special finishes or choose from seventy-two ready-to-use texture patterns in our Roland Texture System Library.

MAX PRINT AREA: 20 x 13 in

VersaUV LEF-12i Desktop UV Flatbed Printer



The VersaUV LEF-12i offers countless product customization and substrate possibilities, including printing directly on three-dimensional objects up to 3.94" thick. Using state-of-the-art UV-LED lamps, the LEF-12i is a low-heat, cool-running machine that combines with vibrant ECO-UV inks to print on the following materials: PVC and plastics, leather and fabrics, canvas, metal, glass, and wood. Ideal for short-run customization of items such as USB drives, smartphone cases, photo frames, and other small objects.

MAX PRINT AREA: 12 x 11 in



Turn Up the Volume on Product Customization

- High-quality printing directly onto 3D items
- Add textures to make your prints POP!



Direct-to-Garment Printers



VersaSTUDIO BT-12 Direct-to-Garment Printer



Print directly onto cotton t-shirts, apparel, tote bags and other products in minutes from the comfort of your desktop with the VersaSTUDIO BT-12 Direct-to-Garment (DTG) printer. The affordable DTG printer allows you to get into the profitable world of custom apparel immediately, with a device that's as easy-to-use as an office printer and offers stunning results. The automatic process takes just minutes with the BT-12 and accompanying finisher unit that prints your designs and cures the inks in one smooth workflow. With up to 1200 dpi x 1200 dpi print resolution, you can create quality and impressive products.

PRINT AREA:

A4 Cassette (Standard): 11.5 x 8 in, A5 Cassette (Optional): 8 x 5.6 in



Imagine What You Can Create with a Roland

- Printer/Cutters
- UV Printers
- 3D Milling Machines
- Vinyl Cutters
- Engravers/Decorators



Heat Presses

Dual Air FUSION IQ™ Heat Press



With two heat pressing stations, the Dual Air Fusion IQ heat press increases efficiency by allowing pre-treatment and alignment on one platform while the other platform is being pressed. Made in the USA and featuring two programmable stations, the Dual Air FUSION IQ™ is a perfect companion to any printer/cutter in your Makerspace.

Fusion IQ™ Heat Press



Functioning as either a swinger or draw press, the 16" x 20" Fusion IQ offers a heat-free workspace, touch screen settings, and live digital time, temperature, and pressure readouts. Plus, with industry-exclusive Threadability™, you can position a garment once, rotate, and decorate any area. The Fusion IQ™ controller features troubleshooting and self-diagnostic capabilities, and the high-resolution screen has improved touchscreen response.

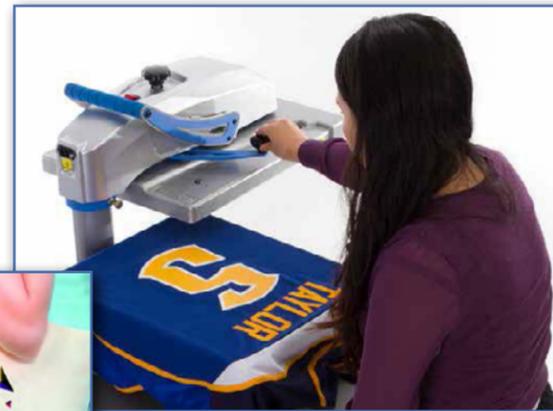
Auto Open Clam Heat Press



The Auto Clam opens automatically when time is up, preventing over-application and scorching, and allowing you to focus on more than one job at once. Available in three sizes: 16" x 20", 16" x 16", and 11" x 15", the Auto Clam features over-the-center pressure adjustment for even, edge-to-edge heat and pressure, regardless of substrate thickness.



Pair with a Roland Printer/Cutter to create custom heat transfer designs.



3D PRINTERS



FDM 3D Printers

fused deposition modeling

3D45 EDU



A 3D printer built for the classroom, the 3D45's enclosed build protects the room from potentially harmful volatile organic compounds (VOCs). Features an all-metal hot-end direct drive extruder, 50-micron resolution, and can print using 4 different types of filament: Nylon, PETG, Eco-ABS, and PLA. This Education Bundle comes with a comprehensive collection of ready-to-use lesson plans, professional development, and easy-to-use software.

BUILD VOLUME: 10 x 6 x 6.7 in



H400+



The new Afinia H400+ 3D printer is the ultimate in affordability, reliability, and simplicity. It's perfect for educators, hobbyists, and engineers who want to start 3D printing out-of-the-box and hassle-free. The H400+ is more advanced than the previous H400, with improved hardware and software. Featuring an ethernet port, print queue functionality, updated 4.3-inch touchscreen, and HEPA and activated carbon filter.

BUILD VOLUME: 4.7 x 4.7 x 4.7 in



H+1



The Afinia H+1 3D printer combines a large build volume with consistency of performance. Material-specific printheads are included, ensuring optimal print quality and compatibility across a wide range of filament types. Featuring automatic leveling and height sensing, 2-sided interchangeable build plates, and customizable temperature controls & filament profiles, you'll know you're getting the best print for your material choice with the H+1. Comes with three printheads for ABS, PLA, and TPU materials.

BUILD VOLUME: 10 x 8 x 8.8 in

FDM 3D Printers

fused deposition modeling

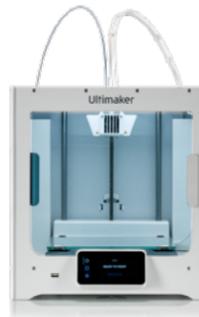
Ultimaker 2+ Connect



The new Ultimaker 2+ Connect builds upon the award-winning benchmark of its predecessor, to add intuitive operation and deeper software connectivity. A 2.4 inch color touchscreen allows for easy control and network connectivity via Wi-Fi or Ethernet enables remote printing over the cloud with added security. Easily install multiple machines to facilitate students' projects - perfect for general access 3D printing labs. The Ultimaker 2+ Connect is the ideal machine for giving a wide range of students access to additive technology, no matter their skill level.

BUILD VOLUME: 8.7 x 8.6 x 8 in

Ultimaker S3



The Ultimaker S3 delivers high-quality, composite-ready performance - all efficiently from your desktop. Packed with Ultimaker's latest technology, it is as easy to use as it is powerful, offering the most cost-effective way for organizations to adopt in-house 3D printing. The S3 is a complete production system you can depend on. With advanced features to ensure a reliable printing experience, it's still simple to use thanks to its award-winning touch interface and seamless software integration.

BUILD VOLUME: 9 x 7.4 x 7.9 in

Ultimaker S5 Pro Bundle



Industrial production power on your desktop. The Ultimaker S5 Pro Bundle transforms your 3D printing workflow – with automatic material handling, efficient air filtering, and filament humidity control. Together, these features unlock 24/7 productivity and demanding applications with an extended range of materials. Featuring fast and easy front-loading of up to six filaments, uninterrupted printing with automatic material switching, and an enclosed build chamber and EPA filter to remove up to 95% of ultrafine particles (UFPs).

BUILD VOLUME: 13 x 9.4 x 11.8 in

SLA 3D Printers

stereolithography



Low Force Stereolithography (LFS)[™] in the Form 3 uses a flexible tank and linear illumination to deliver groundbreaking print quality and printer reliability. LFS 3D printing balances detail and speed, while the optical system maintains a precise, dense laser spot to ensure accurate, repeatable prints. Streamlined printing process incorporates a simple cartridge system for nonstop printing workflow. Prints are able to be monitored and managed using PreForm and

BUILD VOLUME: 5.7 x 5.7 x 7.3 in

Ultimaker

μAFP/FFF 3D Printers

micro automated fiber placement / fused filament fabrication

Fiber[™]



Fiber[™] combines the exceptional performance of continuous fiber with the ease of FFF printing to produce high-performance parts that are stronger than steel, lighter than aluminum, and can operate continuously in the toughest environments up to 250 °C. Fiber[™] prints with two printheads - one dedicated to continuous fiber tape; one dedicated to chopped fiber-reinforced filament composites to enable a broad set of applications from consumer electronics to automotive.

BUILD VOLUME: 12.2 x 9.4 x 10.6 in (FFF only)
11.4 x 8.3 x 10.6 in (μAFP-reinforced)

- [μAFP] PA6 + CF
- [μAFP] PA6 + FG
- [μAFP] PEEK + CF
- [μAFP] PEKK + CF
- [FFF] PA6 + CF
- [FFF] PA6 + FG
- [FFF] PEEK + CF

Metal 3D Printers

Studio System



The Studio System is a three-part solution that automates 3D printing. Tightly integrated through Desktop Metal's cloud-based software, it delivers a seamless workflow for printing complex metal parts in-house - from digital file to sintered part. Includes Printer, Debinder, and Furnace. The Studio System eliminates lasers and loose powders often associated with metal 3D printing, making it safe to use in any facility. A perfect cornerstone of any Makerspace gives students experience of prototyping usable, 3D metal parts.

BUILD VOLUME: 11.4 x 7.4 x 7.7 in

- 17-4 PH stainless steel
- 316L stainless steel
- H13 tool steel
- 4140

Desktop Metal

Desktop Metal

formlabs 



3D SCANNERS

MATTER and FORM 

V2 3D Scanner



Matter and Form 3D Scanners and projects effortlessly blend the elements of STEAM (Science, Technology, Engineering, Art, and Mathematics) to empower students from grades 6 to 12 on their creative learning journeys. The Matter and Form 3D scanner measures physical objects and turns them into 3D models. Print the models on any 3D printer and explore how the Matter and Form standards-aligned STEAM projects let students practice creative problem solving.



MATTER and FORM

EinScan-SE & EinScan-SP



Using safe, white light scanning, the EinScan-Se & SP Desktop 3D Scanners are easy enough for anyone to use. Just click the start button, and the scan process will turn your object into a 3D model that can then be printed on a 3D printer, like Afinia's award-winning H+1 or H400+. These EinScan models are compact and lightweight, allowing for easy transportation. The SE (Elite) 3D Scanner offers the easiest 3D scanning experience for non-technical users, while the SP (Platinum) 3D Scanner provides a higher accuracy of 0.05mm for a single scan.



EinScan Pro 2X and 2X Plus



The EinScan Pro 2X and 2X Plus are based on the feedback from thousands of users and the valuable input of SHINING 3D's own R&D team. Faster and more accurate than ever before, the portable and versatile Pro 2X and Pro 2X Plus will improve the efficiency of high-quality 3D modeling. The Pro 2X is a great option for scanning small to medium-sized objects, while the Pro 2X Plus is perfect for capturing 3D models of medium to large-sized objects with high efficiency, featuring new, powerful algorithms and an intuitive workflow.

LASER CUTTERS/ENGRAVERS

 **DREMEL DIGILAB** 

Entry-Level Lasers

Emblaser 2



Perfect for the classroom, the Emblaser 2 is the second generation desktop laser cutter and engraver that is a perfect combination of ease-of-use, size, power, and price. Designed to be user-friendly, easy to set up, safe and easy to use in any classroom. The Emblaser 2 can cut, mark, or engrave cloth, cardboard, paper, leather, wood, plastics, and so much more.



LC40 Laser Cutter



ENGRAVING AREA: 18.4 x 12 in
CUTTING AREA: 20 x 12 in
MAX HEIGHT (ENGRAVE): 1.25 in
MAX HEIGHT (CUT): 0.25 in

Dremel has entered unheard of territory with the LC40: create a powerful, Desktop Laser Cutter that is easy-to-use, consistent, and most importantly safe. Unlock full creative potential by cutting, scoring, engraving, and/or gray scaling a wide variety of materials effortlessly. The Dremel Laser Software breaks printing down into three steps: Place, Prepare, and Print. Take the guess work out of the biggest laser cutting challenge. The easy print process, expansive material library, and consistent results make the LC40 a perfect addition to any makerspace.

DREMEL DIGILAB

Fusion Edge Laser



The new Epilog Fusion Edge features 5G acceleration and 120 IPS engraving speeds combining top-of-the-line technology and latest features in a compact desk format. The Fusion Edge features a touch-screen display panel, on-screen camera positioning, and job trace functionality for quick and easy artwork setup. Keeping the mechanics of this laser clean comes easy with SAFEGUARD features.

WORK AREA: 24 x 12 in



Zing Laser Engraver



The Epilog Zing Laser Starter Series is Epilog's small format, high-quality engraving line. Perfect for everything from home use to starting a business, the Epilog Zing Laser features high-quality engraving, at a budget-friendly cost. Available in two options, the Zing 16 and Zing 24, this line of engravers are perfect for a desktop setting. Achieve high-resolution engraving on marble, glass, wood, acrylic, and much more.

WORK AREA: 16 x 12 in OR 24 x 12 in

Mini Laser Engraver



Part of the Epilog Legend Series, the Epilog Mini 18 is an entry-level model providing a 18" x 12" work area. Though it's more compact, the engraving and cutting provides the same high quality as the large format lasers. Move up to the Epilog Mini 24 for a larger 24" x 12" work area that holds most standard engraving stock materials. With the high-quality motion control system and the most included user-friendly features on the market - the Mini Laser Engraver is a perfect fit for your classroom or Makerspace.

WORK AREA: 18 x 12 in OR 24 x 12 in

Helix Laser Engraver



The number one choice for engravers worldwide! For engravers looking to work with large engraving pieces, the Epilog Helix is an ideal choice. The Helix's generous 24" x 18" x 8.5" (610 x 457 x 215.9 mm) engraving area will allow you to engrave multiple pieces as well as thicker materials, including boxes and vases. Also part of the Epilog Legend Series, the Helix Laser Engraver features a high-quality motion control system and the most included user-friendly features on the market.

WORK AREA: 24 x 18 in

Fusion Laser Engraver



The Epilog Fusion Pro harnesses 5G acceleration and 165 IPS engraving speeds to provide the fastest engraving in the industry. And the IRIS™ Camera Positioning system allows you to precisely place your artwork on screen in seconds. Available in two work area sizes, the Fusion Pro laser engraving and cutting machines are Epilog Laser's top-of-the-line systems.

WORK AREA: 32 x 20 in OR 48 x 36 in

CNC MACHINES/ROUTERS



Benchtop Milling Machines

MODELA MDX-50 Benchtop Milling Machine



The MDX-50 benchtop CNC mill combines precise, automated milling and unmatched ease-of-use. An ideal solution for short-runs and prototypes, the MDX-50 reduces operation time and simplifies production so users of all abilities can mill functional parts with incredible quality on a wide range of materials. Features an expanded machining area and increased operating speeds, plus reduced production time with faster job processing and a 5-station Automatic Tool Changer for continuous operation.

XYZ TRAVEL: X: 15.80 in Y: 12 in Z: 5.315 in



CNC Routers

HS CNC Router



The most popular model from Forest CNC, the HS Series routers feature Closed Loop Hybrid Servo Technology for reliable rapid speeds in excess of 500 IPM. This is a standard model for education environments and is shown with optional 5HP Spindle and Vacuum system. Includes: standard table, 3-1/4HP router, wrenches, welded steel stand, dust hood, and starter set of bits. Can operate on a 110V 20A, with 10.5" Z Travel.

CNC Routers

Titan Series CNC Router



The Titan Routers are heavy duty machines that include a standard MDF table, 3-1/4HP router, wrenches, a dust hood and a starter set of bits. Available in five sizes and comes fully assembled with a control computer with arm, clamping kit, CAD/CAM, tool Touch Off and tooling kit. The floor space is about 2' larger than the work area. This is a great model for upstairs and other installations requiring special handling since they are lighter weight than steel.



Maker-Fab Series CNC Router



The Maker-Fab Series CNC Router is available in three sizes: 48" x 20", 48" x 48", 48" x 96" and can operate on a 110V 20A. These machines have an 8.5" Z Travel and the floor space is about 2' larger than the work area. Includes: standard table, 3-1/4HP Router, wrenches, a welded steel frame, a dust hood and a starter set of bits. This machine is one of the most popular and common models used in education.

FabBot Series CNC Router



The FabBot Series was created for home shops and schools on a very limited budget. Available in three sizes: 48" x 20", 48" x 48", 48" x 96" and comes with a three year warranty, personalized online training, a control computer, and unlimited phone and online tech support. Includes: standard MDF table, 1-3/4HP router, wrenches, aluminum frame construction with integrated stand, dust hood, CAD/CAM, training tutorials, and a starter set of bits. Can operate on 110V 20A, with 6" Z YTravel.

CNC Plasma Cutters

HS Series Plasma Cutter

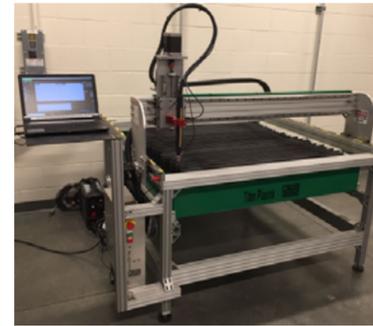


The HS Series Plasma Cutter is a heavy duty machine made with a larger tubular welded steel frame with an integrated water table. The extra rigidity of the frame can withstand student use and the test of time with 24/7 commercial use. It's closed loop Hybrid Servo control assures accuracy at the fastest speeds. This model is available in five sizes and includes replaceable leaves that you can easily make by shearing steel.



CNC Plasma Cutters

Titan Series Plasma Models



The Titan Plasma Cutters are cost effective, heavy duty machines made of structural aluminum and come standard with a water table. The floor space is about 2' larger than the work area. This is a great model for work spaces on higher levels and other installations requiring special handling. Available in five sizes and includes a Torch Break Away System, Automatic Torch Height, CAD/CAM software, Hypertherm 45 Plasma System, and control computer with arm for a complete turnkey package.



Maker-Fab Series Plasma Models

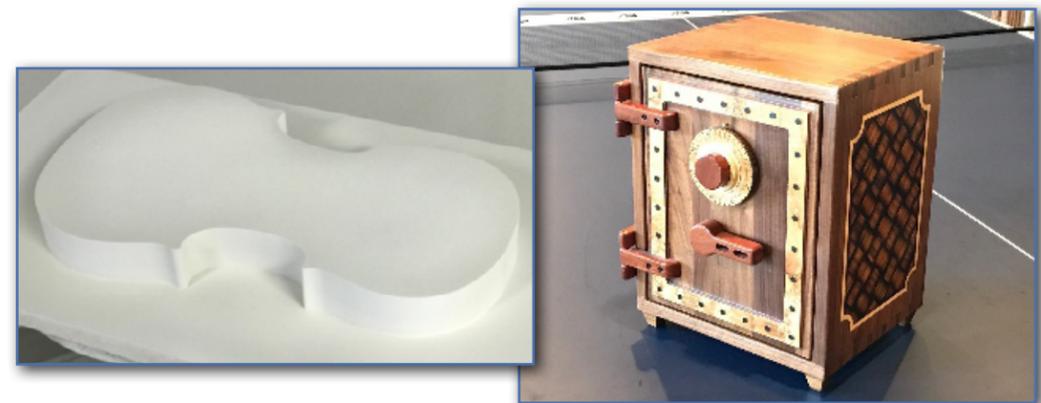


The Maker-Fab Series Plasma System comes in three sizes: 48" x 20", 48" x 48", and 48" x 96" work areas. Each system includes a welded steel frame with integrated water table. Choose from four torch systems to tailor your plasma cutter to your exact needs. The extra rigidity of the steel frame is perfect for student use and will last for many years. Includes a Torch Break Away System, Automatic Torch Height, CAD/CAM software, Hypertherm 45 Plasma System, and control computer with arm for a complete turnkey package.

Convert-A-Table Plasma Models



The Convert-A-Table easily changes from a CNC Router to a CNC Plasma cutter. It is available in three sizes: 48" x 20", 48" x 48", 48" x 96". This is a great option if you have very limited space and only need one function at a time. Features: heavy duty frame that can plow through wood with the robust 3-1/4HP router while the water table is sealed off. Remove the router table and you have the water table for plasma cutting. No other machine is designed to correctly do both Routing and Plasma cutting and conversion between the two functions takes less than 10 minutes.



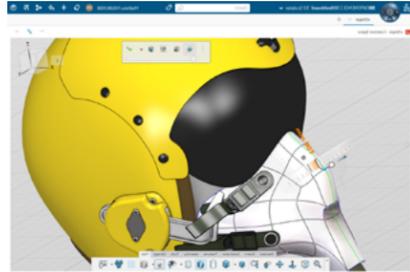
3D DESIGN SOFTWARE



3DEXPERIENCE



3D CREATOR



3D SCULPTOR

The 3DEXPERIENCE Platform is a cloud-based portfolio of tightly integrated solutions (apps) built on a single Platform, all using the same intuitive user interface. Collaborate directly in the cloud and access the growing suite of tools on the Platform to manage all facets of projects. To sum it up in a sentence, it's basically CAD-in-the-cloud, project planning, cloud storage, team collaboration in a social media setting - all zipped up in an easy-to-use interface.

- Access a browser-based single framework for more innovation and improved collaboration
- Provides apps to design, refine, organize, manage, and collaborate on content in real-time - all in the cloud
- Innovate, collaborate, and create great designs anytime, anywhere, from any device - including Macs, Chromebooks, tablets, and smartphones
- Utilize advanced time-saving features and technology like Artificial Intelligence and Machine Learning
- Customizable dashboard for easy access to important apps
- All in-the-cloud with zero installation and no extra IT efforts

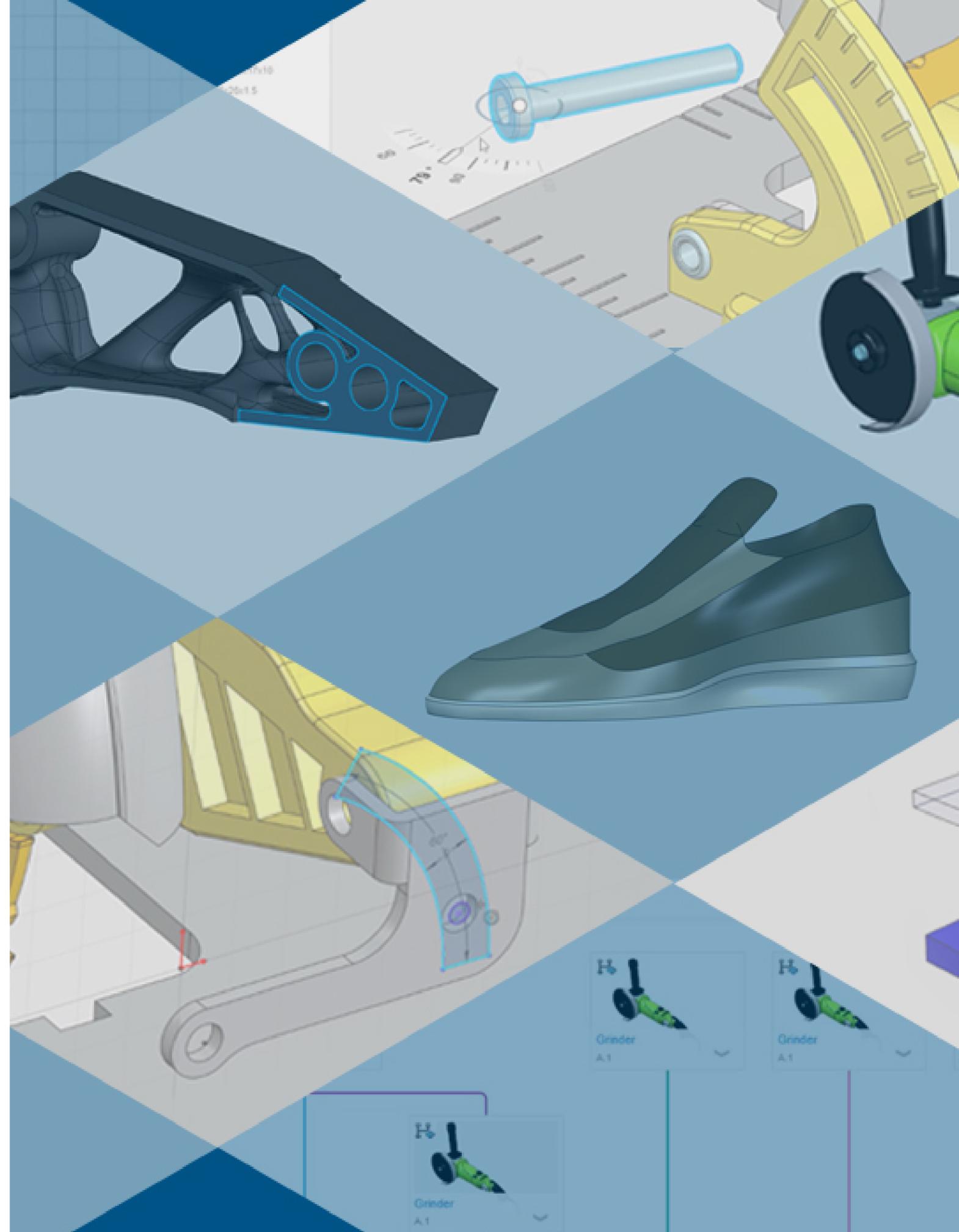
SOLIDWORKS EDU EDITION



Real-world software to increase skills in science, technology, engineering, and math (STEM) education! SOLIDWORKS Education Edition provides 3D CAD software, curriculum, and lessons that make it easy to learn, easy to teach, and exciting to use. Students get to exercise their imaginations in 3D, while learning the fundamentals of real-world applications.

Through 3D modeling, virtual simulation, curriculum, and lessons, the SolidWorks Education Edition provides

examples in basic math, algebra, geometry, trigonometry, precalculus, biology, chemistry, physics, sustainable design, art, economics, and new technologies. Teachers can utilize these examples directly in their classrooms to reinforce core competencies and enhance the learning experience.



CUSTOM FURNITURE SOLUTIONS

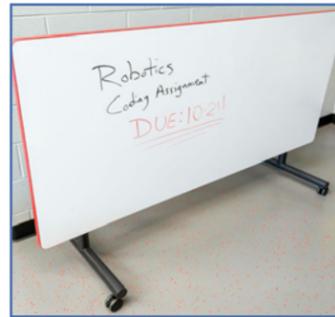


Motion Collaboration Table



This sprocket-shaped table promotes teamwork and comfortably sits 3-6 people; or multiple tables can be grouped for larger collaborations. Classroom or conference area creativity can also be increased when work surfaces are whiteboards, allowing people to jot down ideas or solve complex problems. Options available.

Motion Flip-Top Table



Because of different group sizes and diverse functions, many classrooms, training rooms, and multi-purpose rooms need to offer layout flexibility. The Motion Flip-Top Tables flip and lock vertically with an easy-to-use, quick-release handle, allowing space-saving nesting when fewer tables are required. Outfitted with casters.

Tech Lab Cart



Lab and technology spaces often need durable workbenches that can accommodate heavy, large, or messy experiments and equipment. Topped with a non-reactive maple butcher block, the tech lab cart will withstand the demands of any workshop environment for years. Built-in lower storage simplifies equipment or supply storage, heavy-duty locking casters are standard.

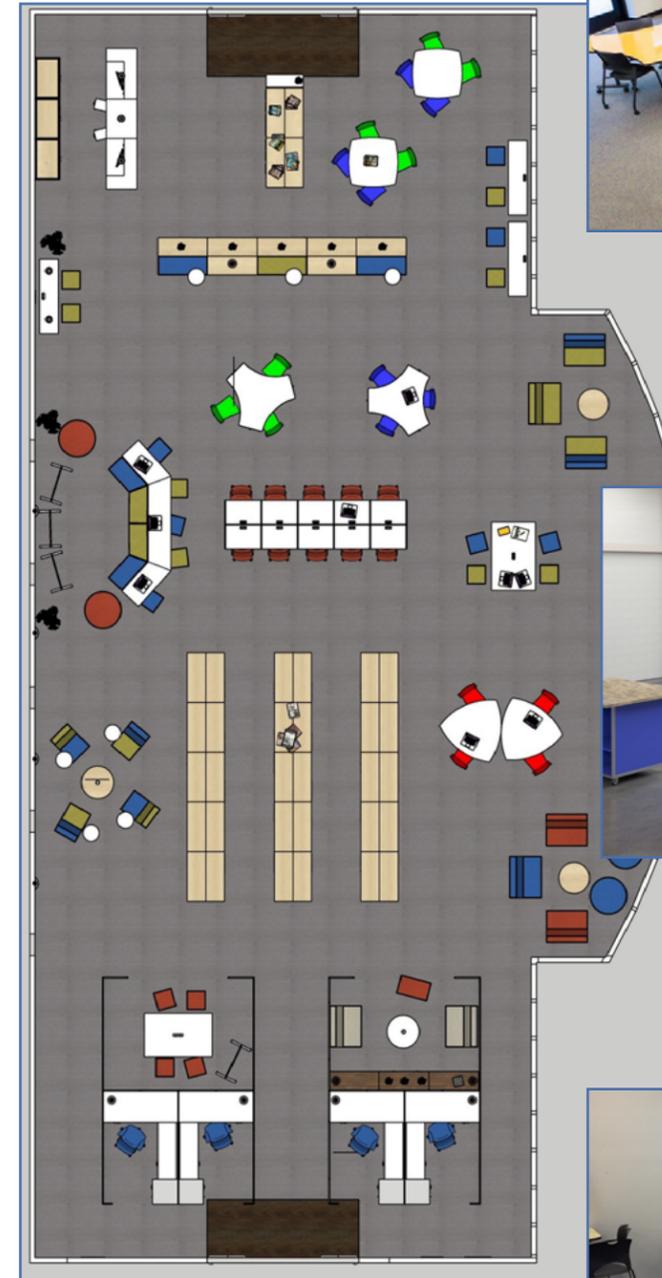
MediaCurv Workstation



The MediaCurv workstation has the perfect mix of design, durability, and function. Available in multiple heights and sizes and with glides or casters, this versatile piece is ideal for a media center, library, or makerspace. Choose from locking doors, open storage shelves, or a combination of the two, plus equip your workstation with the optional desktop power feature. Our design specialists work closely with you to learn about your needs and to understand your specific issues and environment.



Let's Build Your Custom Educational Space!





The "ED" Table



With breakthrough solutions packed into every inch, The Ed Table truly embodies the inventor's spirit -- providing the most complete maker experience available. Featuring integrated clean-up, magnetic stool storage, built-in storage, and integrated power, this table is an incubator for project-based learning and student engagement. Available in two heights. Includes trash cans, storage bins, and six metal stools. Multiple color and finish options available.

Multi-Maker Cart XL



The Multi-Maker XL was designed by CEF and one of its education technology partners. The perfect cart to house a larger 3D printer and a multi-function PC, the Multi-Maker XL has been a favorite in makerspaces and engineering classrooms across the country. Standard features include a roomy internal width of 26", ventilation fan, pull-out shelf, and pegboard back. Additional standard features, plus more upgrade-able options make the Multi-Maker XL the perfect addition to any makerspace, classroom, or laboratory.

The Butcher Block Maker Table



This butcher block table for makerspace environments allows students to design and build creative projects and empowers students to work together. By offering a hardy work surface, adjustable legs for sitting or standing, optional power unit and monitor arm, the sky's the limit! Foster a creative environment and see what your students will create together.

The HATT - Height-Adjustable Tilt Table



The "HATT"-Height Adjustable Tilt Table is a proprietary design by CEF and is a game-changer in the classroom, boardroom, locker room, makerspace, office and more! The versatility and smooth transition from sitting to standing, to tilting, engages all audiences at every level. The HATT embodies all of the necessities for true instruction and team building, while quietly boasting clean lines, calming colors and silent motion.



The Chameleon Classroom System

The Chameleon Classroom System is a mobile pod system to create customized seating and storage for any grade level. Pod configurations allow students to have individual storage space, while teachers have the freedom to quickly and easily change their teaching styles from lecture hall to collaborative groups of all sizes. The Chameleon Classroom System not only gives teachers the ability to teach according to their style, but it eliminates clutter and lack of space to bring a harmonious atmosphere where students can thrive.



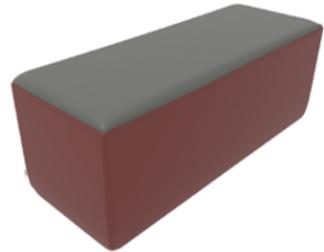
The Chameleon Family

- Three Heights - 26"/34"/42"
- Two Frame Designs - 2 or 3 seats
- Three Pod Types to Choose From with optional doors and locks
- One Top That Can Be Mounted Three Different Ways
- Two Storage Carts - 12 & 24 Bin



Soft-Seating Sample Room Layout

F009 - Bench48



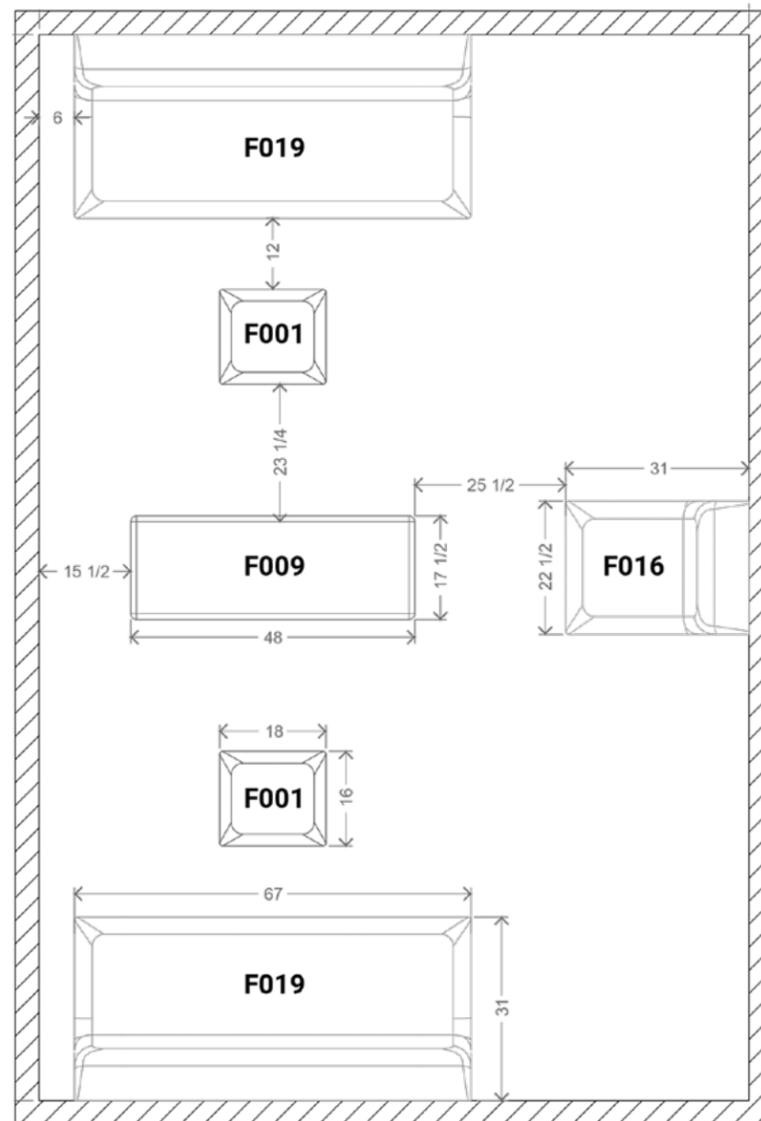
F016 - Armless Chair



F001 - Rectangle Ottoman



F019 - Armless Sofa



PLANNING PAGES

Work with your colleagues and your Buckeye Technical Sales Representative to plan equipment selections, makerspace layout, procurement, and logistics tracking.

Preliminary Planning

- Technical Sales Consultant School Visit
- Detailed Information - Pricing, Literature, Equipment List
- Purchase Approval

Lab Design

- Room Layout
- Furniture Layout
- Equipment Layout
- Electrical & Network Specifications

Installation

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

Equipment List (Sample)

FURNITURE SELECTIONS	QTY	PURCHASED	DELIVERED
1: CEF Ed Tables	6	6/5/2020	6/30/2020
PRINTERS/CUTTERS SELECTIONS			
1. Roland TrueVIS SG2-540	1	6/4/2020	7/1/2020
2. Hotronix Fusion Heat Press	1	6/5/2020	6/14/2020
3D PRINTERS SELECTIONS			
1. Formlabs Form 3	2	6/4/2020	6/12/2020
LASER CUTTERS/ENGRAVERS SELECTIONS			
1. Dremel Digilab LC40 Laser Engraver	2	6/10/2020	6/22/2020



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