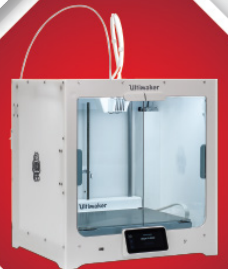


# ***FIRST***

## ***TECHNOLOGIES INC.***

*Putting Education . . . **FIRST***

CNC Routers  
& Laser  
Engravers



Automotive  
Trainers

3D Printers  
& Scanners

# **Product Catalog**





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Brookfield, WI 53005  
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Toll Free: 800-787-9717

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## **ABOUT US**

Founded in October 1994 by Robert L. Werner, Jr., First Technologies, Inc. provides curriculum, computer hardware and software, lab equipment, and lab furniture to teachers, administrators, and school districts across the states of Wisconsin, Minnesota, North Dakota, and South Dakota. First Technologies, Inc. provides on-site training, workshops, and follow-up training for instructors at the elementary, secondary, and post-secondary levels, and at industrial training facilities throughout these states as well.

First Technologies, Inc. also takes pride in its support and sponsorship of Wisconsin technology organizations such as the Wisconsin Skills USA State Contest and Wisconsin Technology Education Association (WTEA). Since its establishment in 1994, First Technologies, Inc. has provided the above mentioned services in Wisconsin. In 1998, the company expanded into the states of Minnesota, North Dakota, and South Dakota. First Technologies, Inc. supports the Minnesota Technology and Engineering Educators Association (MTEEA), the South Dakota Association for Career and Technology Education (SDACTE), the North Dakota Department of Career & Technical Education and others, and plans to continue its tradition of excellence in sales, service, and support across the entire territory.

Robert Werner received the State of Wisconsin Business & Industry Partnership Award in both 1994 & 1996. First Technologies, Inc. has received awards recently from WACTE, ATEA, and SkillsUSA-VICA.

First Technologies, Inc. is proud to be recognized for our service and training accomplishments in the education field.



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# LASER ENGRAVERS



**#1 LASER  
IN EDUCATION!**

Laser Engravers are the ideal tool for engraving and cutting a wide variety of materials. Use a laser engraver for many different educational applications with wood, acrylic, plastic, paper, fabric & more.

## EPILOG MAKER 12

The Fusion Maker 12 is built on the same technology format as the Fusion Edge 12, and features the same camera, touch screen, and safety features that have made the Fusion Edge such a popular product.



## EPILOG FUSION EDGE

The Fusion Edge laser series takes our highest-quality engraving technology and incorporates it into smaller-format systems which allow customers to get the latest technology in a transportable format. The Fusion Edge machines feature a touch-screen display panel, on-screen artwork positioning with our IRIS™ camera system, and job trace functionality for quick and easy artwork setup.

### Available:

Fusion Edge 12, Fusion Edge 24, Fusion Edge 36

## EPILOG FUSION PRO

The Fusion Pro is available in 32" x 20" and 48" x 36" bed sizes and offers Epilog's highest engraving and cutting speeds. The Fusion is the new standard for motion control design. The Fusion Pro is also available as a dual source (fiber & CO2) and with camera options. They are available in 50, 60, 80 or 120 watts.



BOFA Filter Systems are the industry's first choice for fume extractions. Their reverse flow air technology enhances filter performance and ensures longer filter life.



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# LASER ENGRAVERS



## **GLOWFORGE PLUS**

Ready for your biggest ideas. The most powerful and capable Glowforge can print enormous objects with the Pro Passthrough slot. It boasts upgraded cooling and a more powerful laser for faster printing.

**10 WATT POWER  
UPGRADE NOW  
AVAILABLE!**



## **AFINIA EMBLASER 2**

The Emblaser 2 is fast, precise, safe, and is designed for use in the classroom. The low cost Emblaser 2 is air cooled and can run continuously. No cool-down needed. The Emblaser 2 uses LightBurn software for easy design and can cut or engrave acrylics, wood, leather, fabrics, and more.



# TRANSPORTATION

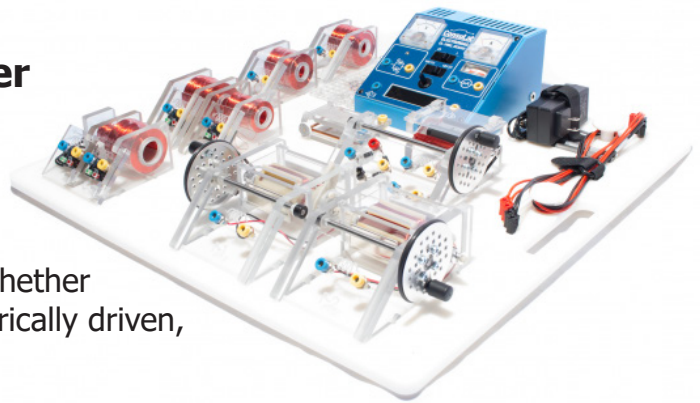
## AUTOMOTIVE TRAINERS

ConsuLab's automotive educational products are built to help students meet the requirements for their specific program and prepare them for a successful future in the workplace. Their products are designed with their philosophy of taking OEM components found in industry today and adapting them for educational purposes by making them safer, more visible and then adding fault insertion where possible.



### ConsuLab Electromagnetism Trainer

The ConsuLab CL-1902 Electromagnetism trainer is designed for your students to physically demonstrate, test, measure, and experience electromagnetism using a "hands-on" approach to learning. Many aspects of a modern vehicle, whether a car, truck, combustion powered, hybrid or electrically driven, depend on some form of electromagnetism.



### ConsuLab Ohm's Law & DC Circuits

The CL-1919-05 Ohm's Law & DC Circuits trainer is a self-contained educational learning system designed to assist instructors in teaching students basic electrical and electronic theory. It is designed to help teach Ohm's Law basics as well as demonstrating common electrical system components and circuit operation.



# TRANSPORTATION

## **ConsuLab** **TRAINING AIDS**

### **HEAVY DUTY & DIESEL TRAINERS**

ConsuLab's HD Diesel training products have the finest quality materials and are built with professional workmanship resulting in what are recognized as the best training tools available to schools and industry today. Our line of HD diesel system trainers provide a full range of products designed to assist instructors and students learning the complex and constantly evolving technology used in today's medium to heavy duty vehicles and off-road equipment.



#### **ConsuLab CAN Bus Multiplex Trainer**

The ConsuLab CAN Bus Multiplex trainer communicates in J-1939 protocol. Digital and analog inputs and outputs can be activated. The trainer utilizes the "Moduponent™" design feature which allows unlimited expansion capabilities. This unit is equipped with an integrated electronic fault box containing 12 faults on each side.



#### **ConsuLab Diesel Repair Trainer**

A complete running diesel engine for your classroom. A teardown station for teaching engine mechanical, with low-cost consumables, small package size and brand-new components. Teach the fundamentals of diesel engines, mechanical fuel injection systems, injectors, pumps, component identification all on this Kubota 2-cylinder engine from ConsuLab.



# TRANSPORTATION

## HEAVY DUTY & DIESEL TRAINERS

# ConsuLab

## TRAINING AIDS



### ConsuLab Air Brake Simulator

The ConsuLab HV-125-BWP is everything you've always dreamed about when teaching air brakes systems. Imagine being able to take the entire class out for a road test and watch live data on a scan tool and see what happens when you drive on dry pavement, during full throttle acceleration and a panic stop. Simulate a drive on an icy road and start to lose control, and you will get to demonstrate how the ABS and ESP functions. Students get to hear, feel and see how all the electronic control valves react during these ABS, ESP, and ATC events.

### ConsuLab Diesel Engine Bench

The HV-950 Cummins diesel engine bench w/EGR, DPF, SCR, is mounted on a tubing steel stand. Completely operational and safe, this standard trainer is easy to work on and complies with manufacturer rules and specifications related to all OEM codes, colors and electronics. Especially built to meet all diesel engine performance and repair tasks these diesel engine benches meet North American emissions standards.





# INDUSTRY 4.0/MANUFACTURING



SMC Corporation is the world leader in producing automation and pneumatic components. With over 60 years experience, and working in over 80 countries. SMC supplies automation components to over 35% of the world market.

## INTERNATIONAL TRAINING

### **FMS-200 (Flexible Manufacturing System)**

The FMS-200 system enables integrating robotic technology, where it is possible to choose between incorporating a collaborative, or standard, industrial robot. In addition, FMS-200 includes the breakdown simulation system which generates up to 16 different breakdowns to be diagnosed by the user.

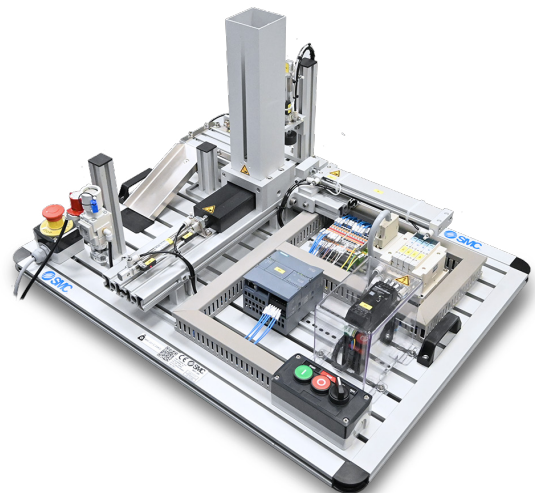


### **RTS-200 (Robotic Training System)**

The RTS-200 allows participants to advance from basic programming to integration of various technologies including electrical controls, pneumatics, controllers, vision, sensors and more. The Universal Robot handles the communication and integration of these components. Students will master the use of robotics and mechatronics for Industry 4.0.

### **MAP-200 SERIES (Mechatronics Automation Products)**

The MAP-200 Series provides students with the opportunity to integrate PLCs with pneumatic components and a wide variety of sensors. This is a hands-on approach to learn the foundation of Industry 4.0.



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INDUSTRY 4.0

MANUFACTURING

MECHATRONICS

ROBOTICS



# INDUSTRY 4.0/MANUFACTURING

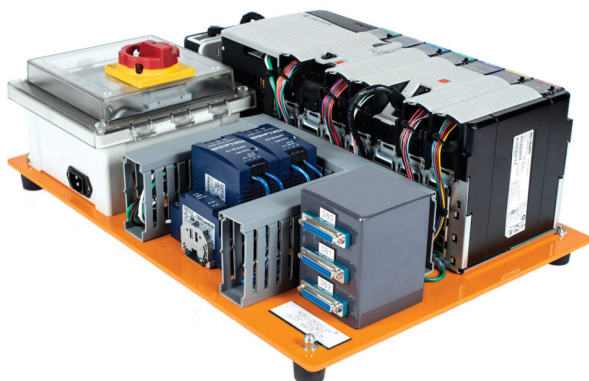
Mobile Modular Training Systems provide innovative training equipment and curriculum to build Advanced Manufacturing skills. Their patented modular units are designed to address a wide range of an organization's educational and training needs, using industry-standard components that replicate industrial applications creating relevant experiential learning.



## Automation Training System

The Automation Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in basic motor control, switches, relay logic and pneumatics.

Learn the fundamental concepts to safely design machine systems and wiring as well as an introduction to automation control components.



## PLC Training System

The Control Logix PLC Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience on training equipment utilizing industry-standard components designed to simulate industrial systems.

Learn the fundamental concepts of Industrial PLC (Programmable Logic Controllers) from identification of hardware components through programming from functional specifications. This trainer utilizes Rockwell Automation "Studio 5000" programming software.



# MECHATRONICS

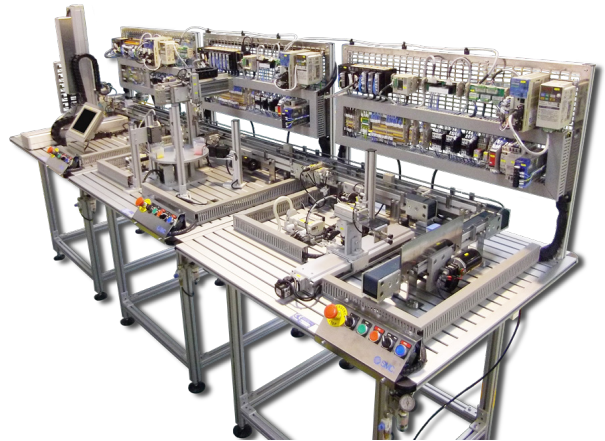


SMC Corporation is the world leader in producing automation and pneumatic components. With over 60 years experience, and working in over 80 countries, SMC supplies automation components to over 35% of the world market.

## INTERNATIONAL TRAINING

### **ITS-200 (Innovative Training System)**

The ITS-200 system provides professional training in industrial automation, more specifically in the field of state-of-the-art servo drive and sensor systems. Each station includes its own PLC.



### **PNEUMATE-200 (Pneumatic Training)**

This didactic equipment is comprised of a panel with pneumatic and/or electro-pneumatic components, depending on the option selected. The Pneumate-200 has interchangeable accessories that allows the user to start up examples of real applications.

### **HYDROTRAINER-200 (Hydraulic Training)**

Hydraulic drives continue to be used in numerous application in automated industry. With the Hydrotrainer-200, you will be able to meet all your training requirements in the technology related to these drives. The Hydrotrainer-200 is designed using top-quality industrial materials. It has everything required to start working from day one.



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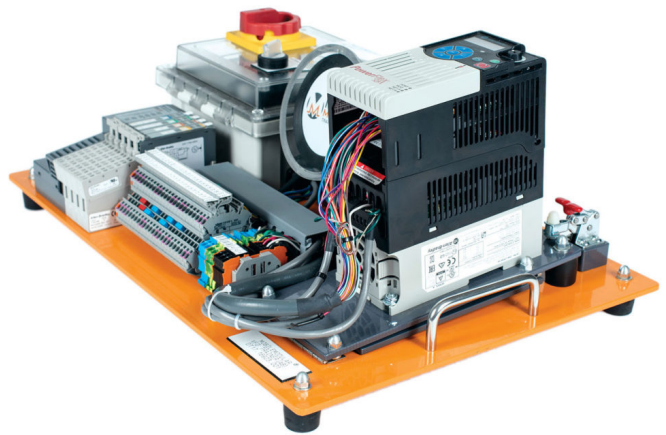
# MECHATRONICS

Mobile Modular Training Systems provide innovative training equipment and curriculum to build Advanced Manufacturing skills. Their patented modular units are designed to address a wide range of an organization's educational and training needs, using industry-standard components that replicate industrial applications creating relevant experiential learning.



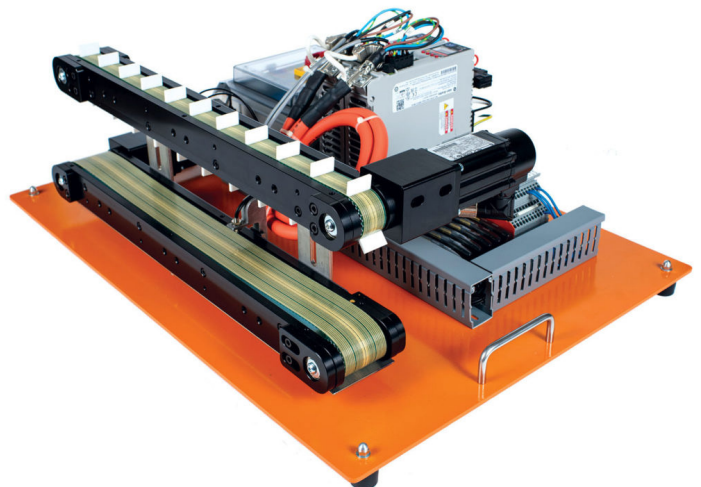
## VFD Training System

The VFD Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in VFD Allen Bradley controls and drives. Learners trained on this training system will learn variable frequency drive operation, how to diagnose and troubleshoot problems with VFD circuit failures and industrial drives technology.



## Servo Motion Training System

The Servo Motion Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in programming of automation machinery. Learners trained on this training system will learn the applications and utilization of digital input and output devices through connection to and programming PLC's to complete basic motion tasks.







The JobMaster Electromechanical Maintenance Cell is the ultimate capstone project for an industrial maintenance mechatronics program.



## Electromechanical Maintenance Cell

In a footprint of 5.6 square meters (60 square feet), the JobMaster 1600 Electromechanical Maintenance Cell simulates an automated manufacturing operation in an industrial plant. This platform delivers relevant skills in the installation, operation, troubleshooting and maintenance of industrial equipment. The basic cell includes electrical power distribution and controls, wire and cable tray, wireways, conduit and equipment housings.





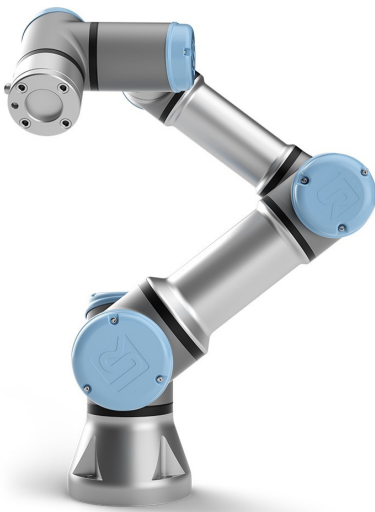
# ROBOTICS



**THE WORLD'S #1  
COLLABORATIVE ROBOT!**

## UNIVERSAL ROBOTS

Small, lightweight cobots are cost-effective to deploy and can fit in small labs and on classroom tables. A Universal Robots robot arm consistently follows exact processes and pre-defined workflows with high repeatability around the clock.

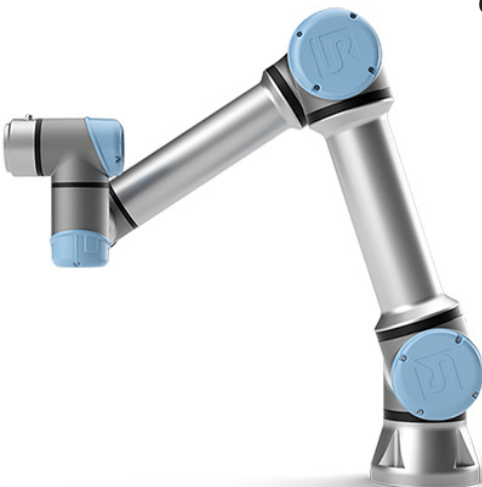


### UR3e

The UR3e flexible collaborative robot arm has a small footprint and is ideal for intricate tasks. The UR3e is compact weighing only 24 lbs but has a payload of 6.6 lbs, 360 degree rotation on all wrist joints and infinite rotation on the end joint.

### Teach Pendant

- \* Full mechanical 3PE device integration
- \* Full software integration, providing a seamless e-Series user experience as the 3PE Teach Pendant is natively supported in Polyscope.
- \* Includes two 3PE devices, allowing comfortable use with left or right hand



### UR5e

The UR5e is a lightweight, adaptable collaborative industrial robot that tackles medium-duty applications with ultimate flexibility. The UR5e is designed for seamless integration into a wide range of applications. UR5e is also offered as an OEM robot system and with a 3-Position Teach pendant

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# ROBOTICS



## Afinia Dobot Magician

A truly cutting-edge robotic arm—it can 3D print, manipulate objects, write and draw. It has a graphical programming environment, multiple tool heads, and the capability to work with the Arduino platform. It's a robot for your creativity and desire to develop. With Dobot's exclusive tutorials and lessons, the Magician is the ideal way to learn about robotic arms, hardware development, coding and automation.



# intelitek▶▶<sup>®</sup>

Bring the exciting field of robotics to your educational program with Intelitek's unmatched and world-renowned robotic training systems. From fundamental to advanced training, Intelitek's blended learning approach delivers a powerful educational experience.

## Scorbot ER-4U

The Scorbot ER-4U is a versatile and reliable system for robotics training and education. The robot is designed to enable observation of its working mechanical parts while ensuring a safe environment for students.



## MotoMan

The MotoMan is a compact, high-speed robot that requires minimal installation space. The MotoMan offers superior performance in small part applications such as assembly, dispensing, packaging, material handling and machine tending.



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# MANUFACTURING



## PCNC Mill

The PCNC Mills are designed from the ground up for maximum versatility. They are designed for the materials you cut the most: aluminum, light metals and plastic with enough horsepower to tackle the harder stuff when needed.



## Lathe

The Tormach Lathes are compact CNC Lathes designed for prototyping and specialty manufacturing of turned parts. They are loaded with features and options, including standard conversational control, rigid tapping and configurable tooling and work holding.

## Operator Console

The all in one machine console allows you to operate your Tormach with built in hardware knobs for feed and speed overrides and a durable hand-held jog pendant for precise manual positioning of the machine. The operator console can be used on all Tormach machines, providing a consistent interface as students move from machine to machine.



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Intelitek's latest line of Bench and Pro series CNC machines push the envelope for ease-of-use and affordability. Coupled with interactive online e-learning courses with fully-integrated web-based simulations of their machines, they offer an unmatched solution for CNC technology training.

## **INTELITEK BENCHMILL 6100**

The BenchMill 6100 is a PC-based benchtop CNC machining center enabling robust CNC and advanced manufacturing instruction. Students learn the fundamentals of CNC milling by working with industrial-based equipment to accurately machine a series of complex parts.



## **INTELITEK BENCHTURN 7000**

The BenchTurn 7000 introduces students to the fundamentals of CNC turning. Students gain hands-on experience in proper set up, cutting tools selection, tool path simulation and turning center operation.



# MANUFACTURING

JPW offers a wide variety of metal and woodworking machinery. Their products are reliable and produce quality results. JPW offers CNC machines, mills, table saws, sanders, and more!



**WOODWORKING METALFORMING CNC AIR & HAND TOOLS AND MORE!**



**JET BAND SAW**



**POWERMATIC DISC SANDER**



**POWERMATIC JOINTER**

**AXIOM**  
PRECISION

**JET**  
EQUIPMENT & TOOLS



**BAILEIGH**  
INDUSTRIALS



**JET DRILL PRESS**



**BAILEIGH BAND SAW**



**BAILEIGH CNC ROUTER**

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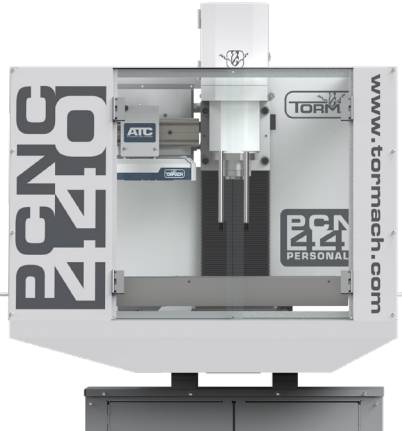


# MANUFACTURING



## TORMACH®

Yes, Tormachs cut titanium. People seem genuinely surprised to see it. And they cut stainless and hardened steel, too. Don't forget tool steel, aluminum, plastics, wood. Whatever. Tormach was founded on the idea that affordable, capable CNC tools should exist that are easy to learn and use.



### TORMACH PCNC 440

The PCNC 440 is a small machine that produces big results. This benchtop mill fits all-around capability in a compact and affordable package, perfect for anybody who wants to perform machining operations in a small space.

At Techno, they believe that high quality CNC machinery ensures reliable cutting and machine longevity. It has become their mission to remain price conscious while delivering CNC solutions across the globe. Techno produces a vast number of machine models to meet any and all production needs and budgets.



### TECHNO BT1212

The BT1212 Benchtop CNC Router is a small compact tabletop router that includes a 1 HP router, full safety enclosure, aluminum t-slot table and is driven by brushless stepper motors and drives. The controller is Techno's ever-so-popular and easy-to-use hand-held controller, ideal for educational applications.

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# MANUFACTURING



## **TORMACH xsTECH**

Tormach's xsTECH is a fully enclosed router that is perfect for use in middle schools, high schools and Fab Labs. The desktop size allows it to be moved and shared among multiple classes. The xsTECH Router uses the same PathPilot programming as the larger Tormach CNC tools.



## **TORMACH 24R**

This computer-controlled Router is designed to accurately cut a variety of materials, including aluminum, plastics, wood, and more. With an advanced control, rigid cast-iron bed, welded-steel stand, water-cooled chiller, integrated vacuum table, and more than a 2' x 4' work envelope, this router is the perfect choice for all your 2D and 3D cutting needs.





# MANUFACTURING



Lone Star Cutting Solutions offers Routers and Plasma Cutters, from 2x2, all the way up to 6x12. All machines come with a 2 year warranty and are made in the USA.

## LONE STAR PROROUTER 2000 & 2100

The ProRouter 2000 (4x4) and 2100 (4x8) allows visualization of assembly of 2D objects in 3D space. Gives students the ability to create impressive large scale projects at a very low cost and produces results quickly.



## LONE STAR SPITFIRE & TROOPER PLASMA

The Spitfire and Trooper 4x4, 4x8 and 5x10 are industrial grade, mid-range stepper-based plasma cutting systems. Able to cut mild steel, carbon steel, stainless steel, aluminum, copper, brass and other metals! Easy to use and great for FabLab shops!



## TECHNO HD-II CNC PLASMA

The Techno HD-II CNC Plasma Cutter is available in 4x4, 4x8 and 5x10 sizes and is manufactured using the industry's high quality components and all steel construction. Driven by brushless stepper drive motors, key features include precision rack & pinion, high speed cutting, and magnetic torch breakaway.



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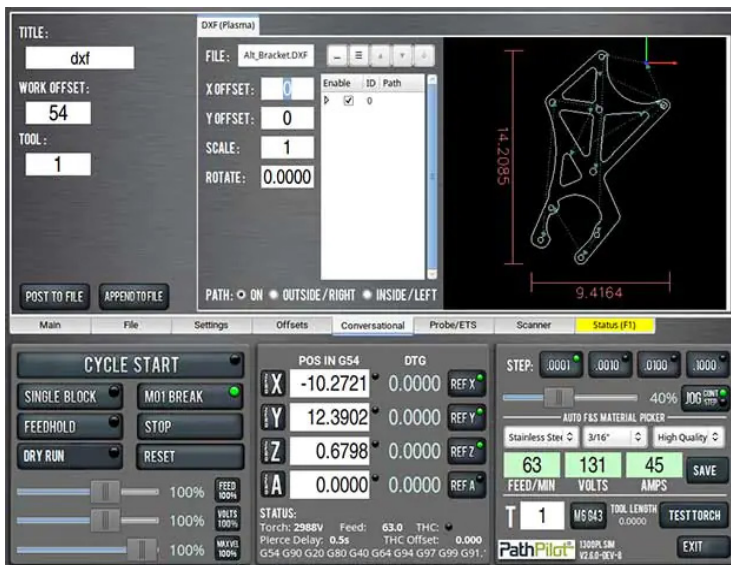


# MANUFACTURING



## TORMACH 1300PL

A robust, fully welded steel-tube frame and aluminum gantry. The 1300PL plasma table is built for speed, accuracy, and longevity. It's lift-gate deliverable, you won't need expensive riggers to set it up, and it runs on single-phase 220V power.



## PATHPILOT

All Tormach CNC equipment ships with PathPilot, the brain that runs our machines. It's easier to learn and use. You'll start cutting parts faster and with fewer headaches. The version of PathPilot that comes with the 1300PL has a couple of added bonuses-DXF import, Kerf compensation, online training.

**FREE OFF-LINE  
STUDENT SOFTWARE!**

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# MANUFACTURING

# WAZER

Now cut anything with digital precision using high pressure water. A compact waterjet for every workshop. WAZER's web-based software is fast and easy. Load your design file into WAM and prepare your cut in minutes.

## WAZER WATERJET

The first small waterjet cutter in a compact package. Waterjet technology can cut almost anything. So now you can prototype, manufacture, experiment, or produce almost anything you can imagine. The WAZER is industrial grade enough to CNC cut steel, stone, tile and glass. WAZER's web-based software is fast and easy. See your designs cut out on the WAZER waterjet in minutes.



## BAILEIGH WATERJET

The WJ-4x4CNC industrial water jet from Baileigh Industrial is a great value for anyone looking to get into water jet cutting. This great machine has the ability to cut just about any material with precision. This includes glass, granite, ceramic, plastic, foam, mild steel, stainless steel, titanium, aluminum, and copper in its 48" x 48" table.

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# MANUFACTURING



Afinia 3D Printers are reliable and intuitive. They are perfect for classrooms, labs, Fab Labs, and Makerspaces with their auto-leveling platform, material specific print heads and dual air filtration. Afinia printers offer unbeatable lifetime phone support and a one-year warranty.

## AFINIA H440

The H440 3D printer has a much larger build volume, improved bed leveling, and nozzle height detection than the H400+.

- Fully-enclosed system with HEPA and carbon filtration
- Build volume: 7.9x7.9x7.9
- Heated, reversible platform
- Fully-automated platform leveling and height sensing
- WiFi & USB Connectivity
- Touchscreen display
- Print resolution 0.1 to 0.35mm
- Custom nozzle & platform temps for 3rd party filaments
- Print queue for multiple print jobs
- Out of filament detection



## AFINIA H+1

The Afinia H+1 has a rugged design to enhance reliable, quality 3D printing and has many additional enhancements:

- Fully-enclosed system with HEPA filtration
- Build volume: 10x8x8
- Dual-sided platform - glass on one side, perf/flex on the other
- Fully-automated platform leveling and height sensing
- WiFi Connectivity
- Touchscreen display
- Ultra-fine 100-micron print resolution
- (3) Interchangeable print heads for multiple materials
- Smart support material technology
- Easy filament spool loading



## AFINIA STUDIO SOFTWARE

Afinia Studio software is specially designed for the Afinia H-Series 3D printers to bring you a better 3D printing experience. No matter the complexity of your project, the software helps ensure a successful print. The software will ensure there is adequate filament to complete the print, automatically start the print when the platform reaches the correct temperature and will even convert a 2-dimensional photo into a 3D model.

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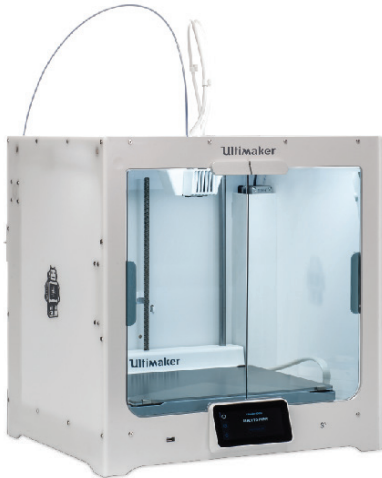
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# MANUFACTURING

Ultimaker delivers high-quality, composite-ready performance – in an efficiently compact size. Packed with the latest technology, they are as easy to use as they are powerful.

# Ultimaker



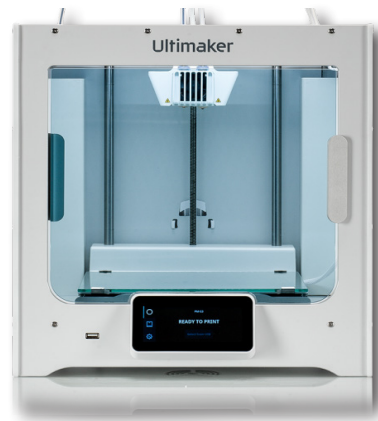
## ULTIMAKER S5

The Ultimaker S5 3D Printer achieves complex geometries and intricate designs with reliable dual-extrusion technology and water soluble support. It is easy to use with a large build volume. It delivers accurate, industrial-grade parts with simple set-up and high uptime. The Ultimaker S5 can use a wide range of materials, including PLA, Tough PLA, Nylon, ABS, CPE, PVA, Breakaway, and more!

**NEW!** Upgrade the Ultimaker S5 with the Metal Expansion Kit. Its easy workflow makes creating stainless steel parts easier, more efficient, and affordable.

## ULTIMAKER S3

The Ultimaker S3 is engineered for high uptime, fast changeovers and reliable, consistent results. Print complex functional prototypes, manufacturing tools and high-detail mechanical parts with industrial-grade build and water soluble support material combinations. With swappable print cores, you can switch materials in a matter of moments. The Ultimaker S3 can use a wide range of materials, including PLA, Tough PLA, Nylon, ABS, CPE, PVA, Breakaway, and more!



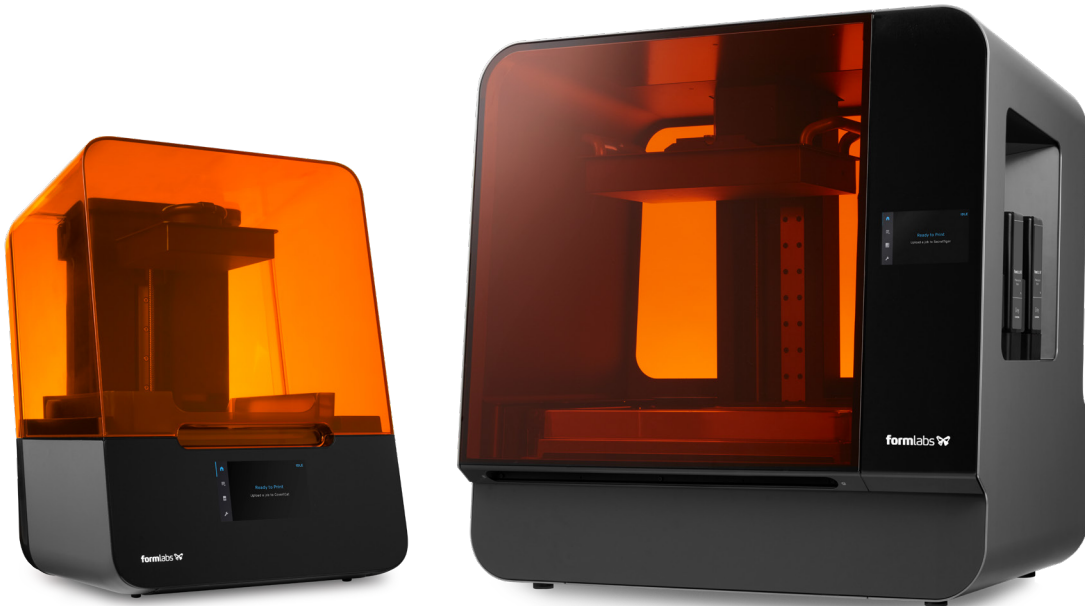
## ULTIMAKER CURA SOFTWARE

Ultimaker Cura prepares your model for 3D printing. Optimized, expert-tested profiles for 3D printers and materials mean you can start printing reliably in no time. And with industry-standard software integration, you can streamline your workflow for maximum efficiency.

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## FORMLABS FORM 3+

Produce functional, high-quality prototypes and end-use parts in record time with the Form 3+. The Form 3+ is an affordable, industrial quality 3D printer that consistently delivers. It offers reliable print quality and accuracy, easy setup and maintenance, and a wide range of high-performance materials.

## FORMLABS FORM 3L

Take control of large-scale part production, increase your output, and bring your biggest ideas to life with the Form 3L. The Form 3L is a cost-effective large format 3D printer that doesn't compromise on the details. Print a single large model or multiple smaller pieces in one print.



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# MANUFACTURING



## AFINIA EINSCAN PRO 2X 2020

The Afinia EinScan Pro 2X 2020 multi-functional Handheld 3D Scanner rapidly captures and delivers watertight 3D data of real objects for 3D printing. The scanner's lightweight, ergonomic design makes it portable and easy to use.

## AFINIA EINSCAN SE & SP

The Afinia EinScan SE & SP scanners have dual scan modes and can capture objects small and large. They use safe, white-light scanning and are easy enough for anyone to use.



## MATTER *and* FORM

### MATTER & FORM V2 SCANNER

The V2 Scanner is designed to transform beginners to professionals. It is the next evolution of desktop 3D scanning. Unlock the potential of your students with this scanner, powered by MFStudio and watch your real life objects become digitized before your eyes.



The Mayku FormBox Vacuum Former puts the power of making in your hands. You can partner a 3D printer with the FormBox to create your very own desktop production line. Rapidly create product prototypes with high quality finishes.



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# PRINTERS & CUTTERS



## **ROLAND GS-24 VINYL CUTTER**

The Roland GS-24 desktop vinyl cutter raises the bar for vinyl cutting with its cutting edge technology, ease of use and precision. The Roland GS-24 vinyl cutter is backed by a 3-year trouble-free warranty from Roland.



## **ROLAND TRUEVIS SG-300**

The TrueVIS SG-300 offers the quality and versatility of a Roland, at an unbeatable price. The SG-300 comes with two new FlexFire print heads for high-efficiency and quality, new cutting technology for increased accuracy and downforce, a Bluetooth-enabled mobile control panel and brilliant, cost-effective, 4-color TrueVIS ink.



# FURNITURE



Interior Concepts manufactures school furniture and office furniture and uses ImagineIt! Design Sessions to design the furniture to fit your needs. Classroom furniture is an investment in creating a productive environment. Interior Concepts will work closely with you to understand your specific issues and design your furniture layout to fit your needs.

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## CONTROLLED DYNAMICS



Controlled Dynamics worked for over five years developing and perfecting a completely new structural aluminum framing system aimed at maximizing strength. By creating mechanically locked, precision-aligned joints and components, these tables perform even when subjected to heavy industrial vibrations. These tables are perfect for any FabLab.



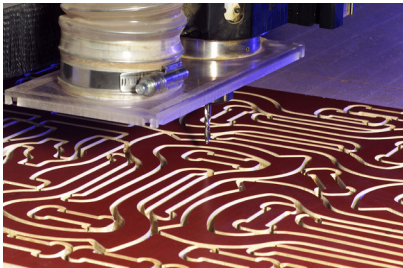
# SOFTWARE



SolidWorks Education Edition is an inclusive resource for teaching 3D mechanical CAD, design validation, and data management. SolidWorks gives students experience needed for today's competitive job market and offers a wide range of resources including tutorials, specialized curriculum and certification courses.

## 3D DESIGNER FOR EDUCATION

3D Designer for Education provides more than just a CAD modeling tool—the 3DEXPERIENCE platform will change the way educators teach students and how students communicate with their peers



Mastercam is the most widely used CAM software worldwide and is the program of choice among both industry and education. Mastercam delivers a powerful set of industry-standard toolpaths and teaching aids to schools across the globe ranging from local extension classes to centers of higher learning.



VCarve Pro provides a powerful but intuitive software solution for creating and cutting parts on a CNC Router. VCarve Pro gives you the power to produce complex 2D patterns with profile, pocket, drill and inlay toolpaths plus the ability to create with textures and Vectric 3D clipart or single model files.

With CorelDraw, you can tap into an intuitive, powerful design environment and bring ideas to life. CorelDraw is built with cutting edge design technology, efficient new tools and faster processing to streamline workflow.



The Adobe suite of products gives you the world's best programs for video, design, photography, and the web. It is easy to get started with built-in tutorials and templates.

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# ELEMENTARY STEM



**KIDSPARK**  
E D U C A T I O N

## What's Included?

### Curriculum

A progressive engineering and computer science-based curriculum that includes teacher lesson plans, student workbooks, design challenges, evaluation rubrics, and unit assessments.

### STEM Labs

Kid Spark's robust and reusable engineering and robotics materials support students as they grow in their learning.

### Professional Learning

Professional development courses hosted through Kid Spark's online learning management system.



Kid Spark programs are designed to help young students learn foundational STEM fluencies the moment they enter school and then build upon their learning each and every year. The elementary and middle school programs are comprised of progressive units of instruction that cover a range of STEM concepts, and can be used to meet any student where they are.



Foundational  
STEM Fluencies



Applied  
Mathematics



Mechanical & Structural  
Engineering



Rapid Prototyping  
& 3D Printing



Coding &  
Robotics

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