FOREST CNC

CNC ROUTERS
CNC PLASMA CUTTERS
CNC MILLS & CNC LATHES
WATERJET
CAD/CAM SOFTWARE
REPAIRS & UPGRADES OF ALL CNC

Computerized Tools For Transforming Ideas Into Reality

DIGITAL FABLAB PRODUCTS FOR STEM, CAREER, & TECHNICAL EDUCATION

Forest Scientific Competitive Advantages

The more research you do, the more convinced that although Forest Scientific Corporation may not always be the lowest price, it is the best quality, value, and best choice for your school.

1. **Made bi-coastally in the USA** at our world headquarters in Tionesta, PA and in Phoenix, AZ.

2. **Single Source, On-Site, Parts & Labor 36 month warranty** on all new CNC machines made by Forest Scientific Corporation. Most of our competitors warranties are 1 year and parts only. This means that you will save the $3,000.00- $7,500.00 that others charge to have someone come on-site per visit from the factory if a problem occurs during the warranty.
   Do not assume other manufacturers will come to your school for free. They won't.

3. **On-site training** is available for you and your students to ensure a successful start. It is more effective for initial training to be on your own equipment than to go to a training site. With your approval, students are trained to assist and help train other students. **Written & video tutorials** and curriculum are available to show your students while teaching classes. Additional training is available on-site, at one of our training centers, and over the internet.

4. Free phone and internet support is available nearly 24/7. Versus being charged by the minute during restricted office hours to get help. You can talk to someone in the evening and on weekends so you are not limited to office hours. Even our CEO freely gives out his cell number to call or text.

5. Unless otherwise specified, **all FSC machines come fully assembled.** Most of our competitors erector set kits will require 40-80+ hours of your time to assemble. Our machines are often running within an hour of arrival if the electricity & airline are ready. Buy a machine, not a box of parts.

6. **Our CNC controls connect to the computer via USB** or Cat 5, not outdated parallel port, serial port, ISA ports, or other port that require a DOS or other outdated computer. **Do not assume that the technology is current.** Most of the companies that you get the most mail from are very out of date.

7. Hardened, profiled, made in Ohio, **Precision THK linear ways and bearings not just wheels on plate steel or angle iron**. These machines cannot be bumped out of place like most of the machines in the same price range. The grease fitting on each linear bearing ensure a dependable life.

8. **All our CNC machines use industry standard Fanuc style G&M codes**, not a proprietary language. Thus you are teaching marketable skills, not just playing with a dead end *toybot.* You can **use any CAD/CAM software producing industry standard G-Codes** such as Mastercam, Surfcam, Edgecam, Enroute, Vcarve, Fusion 360, SolidWorksCam, Rhinocam, Inventor with HSM, and more.

9. We use more powerful stepper & servo motors on our machines to be more reliable.

10. **Welded steel frames**, and structural aluminum hold up better in the long term than bent sheet metal and bolted angles because they will not work loose or get out of alignment over time.

11. FSC machines have an Emergency Stop and safety reminders for users to operate the machine safely.

12. Forest Scientific Corporation machines and upgrades are designed to be updated at a low cost when technology changes.

13. **Our local dealers are caring professionals providing on-site support second to none.**

If you have any questions or need clarification call John at 1-800-956-4056 X1001.

Dear Educators:

Thank you for reviewing this years catalog. I have decided to showcase some of the Plasma cutter work by students from Buckeye High School in Arizona on the front cover of this years catalog. Their work can be found throughout Historic Buckeye.

You may have noticed our new logo above on the left. Our logo had the old look for the last 30 years and it was due to be updated with a new high tech look for modern times. It is what many customers have called our equipment for a long time. I often hear clients say “I have a Forest CNC.”

We manufacture everything in the United States in Tionesta, PA and Phoenix, AZ. We provide training on-site at the time of delivery, webinars and individualized refresher training via the internet, and in our training centers. We also have Project Based Learning curriculum and tutorials with written and video modalities for teachers and students.

Forest Scientific Corporation provides a 36 month on-site parts & labor warranty on all new machines we manufacture unless otherwise noted and 18 month on-site warranty on all upgrades and used machines. Invest with confidence knowing that you will be well supported. If you own any older CNC machines, no matter who built it, we can update it and make it better than when it was new. When you have any questions or need creative strategies to finance your order, please do not hesitate to call me any time at 1-800-956-4056 X 1001 or call or text my cell +1-412-726-0574.

Sincerely,

John E. Martincic
President, CEO
johnm@forestcnc.com

Made In USA

A+ ACCREDITED BUSINESS BBB

TABLE OF CONTENTS

PAGE#	ITEM
2	Competitive Advantages
3	Letter & TOC
4	FabBot Series Low Cost Routers and Plasma
5	Convert-A-Table Router / Computer cabinet / Dust Collection
6	Most popular Routers
7	Most popular Plasma Cutters
8	CNC Wood Lathe & Precision Bed Mill
9	5 Axis Router, FabLab in a Box, Waterjet
10	Michelangelo Clean room router and Luthier Max Router
11	Mitey Series Wood Lathe, Milling Machines, & Small Lath
12	Upgrade old CNC Machines
13	Upgrade old CNC Machines
14	CAD/CAM Options
15	CNC Tooling & Accessories
16	Back Cover CRP -New Laser and Waterjet alternative for Clean room cutting

Call for more information on Lasers and 3D printers

All pricing & specifications subject to change without notice
This Catalog pricing effective 9/1/2019

All Trademarks belong to their respective owners

FabBot Series Routers and Plasma Cutters

This series was created for home shops and schools on a very limited budget

These machines come with a 3 year limited warranty, personalized online training, and control computer, unlimited phone and on line tech support.

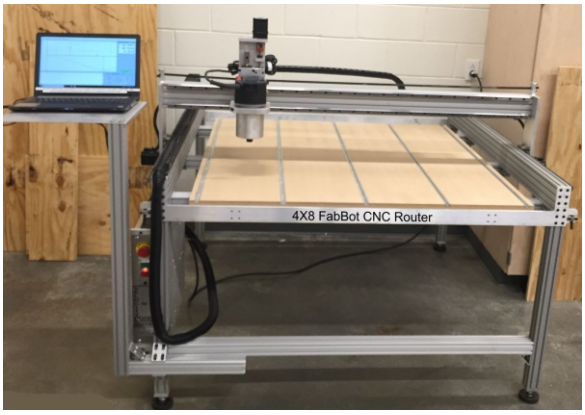
FabBot Desktop Series CNC Router Models
Include: Aluminum T Slot table, Hold Downs, 1-3/4HP router, wrenches, CAD/CAM, training tutorials, and starter set of bits. Operates on 110V 15A

FabBot 15" x 11" x 6”
Optional Full enclosure

FabBot 24" x 18" x 6”
Optional enclosure w/stand for 24”X18”
Optional removable Vac Table Sys2418

FabBot 24" x 24" x 6”
Optional enclosure w/stand for 24”X24”
Optional removable Vac Table Sys 2424

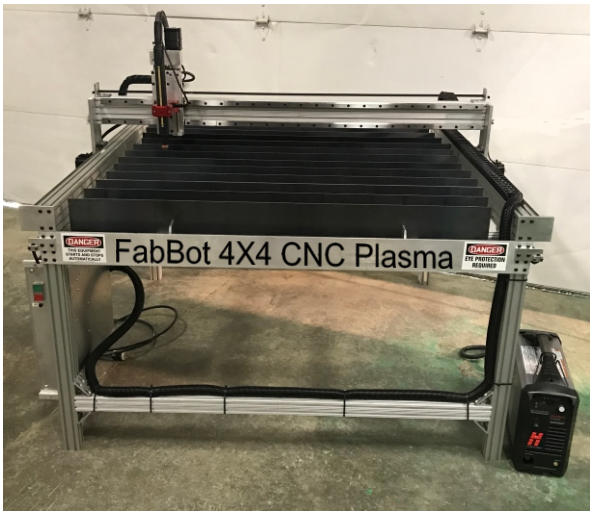
FabBot 36" x 24" x 6”
Optional enclosure w/ stand for 36”X24”
Optional removable Vac Table Sys3624



FabBot Platform Series CNC Router Models
Include: standard MDF table, 1-3/4HP router, wrenches, aluminum frame construction with integrated stand, dust hood, CAD/CAM, training tutorials, and starter set of bits can operate on 110V 20A 6” Z Travel The floor space is about 2’ larger than the work area.

FabBot 48" x 20"(fits through36”door)
FabBot 48" x 48"
FabBot 48" x 96"

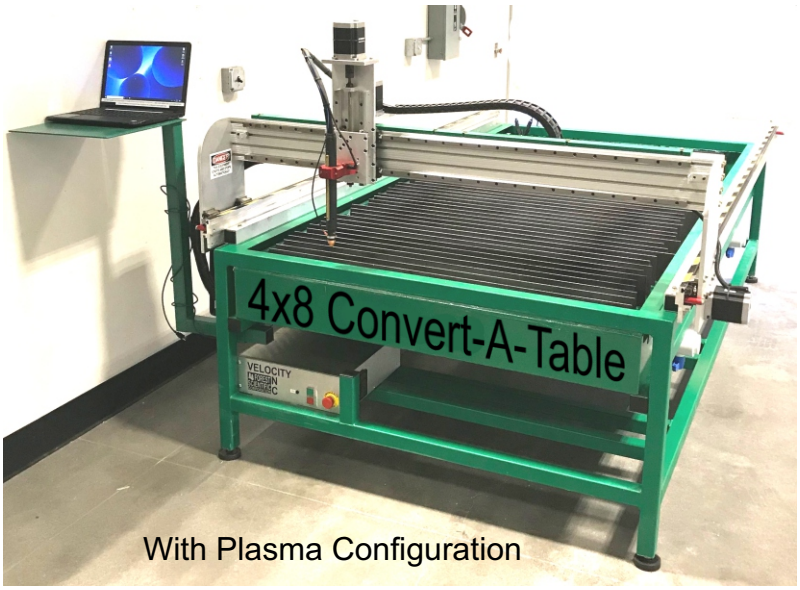
Optional
MDF w/Aluminum T Slot & Clamps 4x4
MDF w/Aluminum T Slot & Clamps 4x8
Upgrade to 3-1/4 HP Router
Upgrade to 1HP 110V High Freq spindle
Upgrade to closed loop Servo version



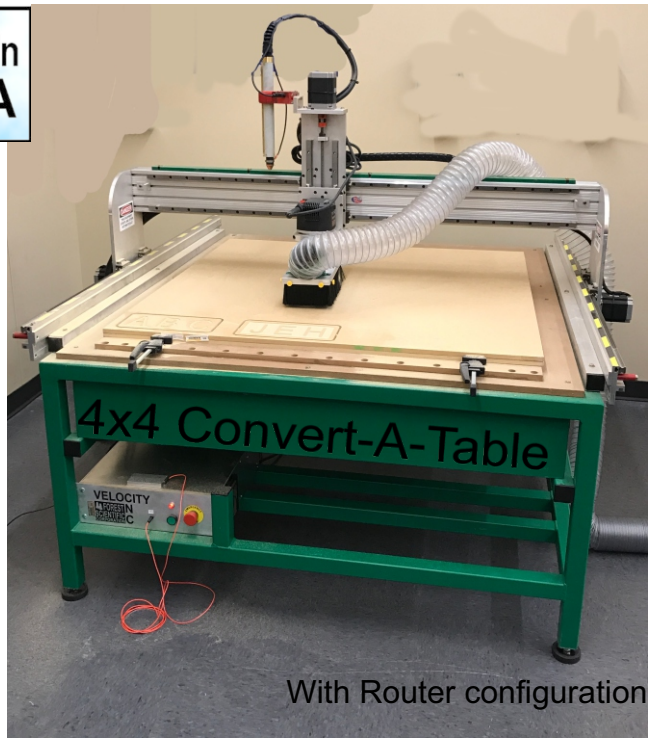
FabBot Platform Series Plasma Models
Each of the CNC Plasma cutters below include CAD/CAM software, Auto Torch Height, Hypertherm 45 Plasma system, and training tutorials. 110V 20 A machine
240 V 50A plasma cutter
The floor space is about 2’ larger than the work area.

FabBot 48" x 20"(fits through36”door)
FabBot 48" x 48"
FabBot 48" x 96"

Convert-A-Table PLASMA CUTTER / ROUTER



With Plasma Configuration



With Router configuration

Convert-A-Table CNC Router / Plasma Models

CAT 24" x 20" (fits through36"door)
CAT 48" x 20" (fits through36"door)
CAT 48" x 48"
CAT 48" x 96"
CAT 60" x 120"

Includes: Plasma water table, router clamping table, 3-1/4HP router, Powermax 45, Automatic Torch height, Break-a-way system, welded steel stand, dust hood, CAD/CAM, Control computer, computer arm, and starter set of bits and deluxe clamp set. Powermax 45 requires 240V50A, the rest of the machine Operates on 110V 30A
8." Z Travel Floor space 2' greater than work area.

Convert-A-Table easily changes from a CNC Router to a CNC Plasma cutter. This is a great option if you have very limited space and only need one function at a time. The disadvantages are that you only have one machine instead of 2 and these machines can not have a vacuum table system due to the conversion between router and plasma. The 48"X20" machine makes it possible to fit through a standard 36" door. With this 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 well. Conversion between the 2 functions takes less than 10 minutes.

Popular CNC Plasma and CNC Router Accessories

For Plasma & ATC Routers

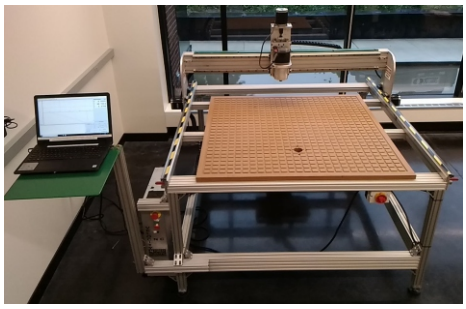
5 Stage Desiccant Drying System

Dust Control Computer Security Cabinet

Dust Collector Package Includes
dust collector
100' hose
4 clamps

Most popular CNC Routers *The most common models used in education*

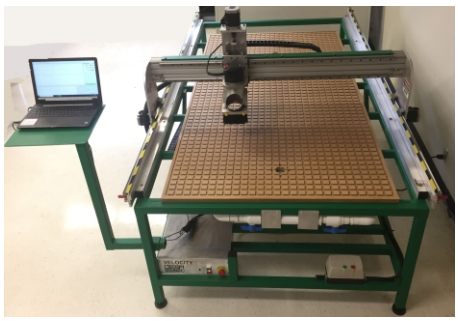
Each of the CNC Routers below are fully assembled, include control computer with arm, clamping kit, CAD/CAM, MDF Table top with T slot clamping kit, tool Touch Off, and tooling kit.



Titan Series CNC Router Models

The Titan Routers are cost effective heavy duty machines made of structural aluminum. Include: standard MDF table, 3-1/4HP router, wrenches, Aluminum frame, dust hood, and starter set of bits can operate on 110V 20A 8.5” Z Travel 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.

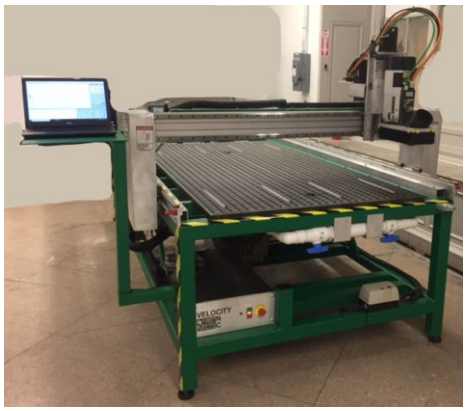
TitanR 24" x 20"(fits through36”door)
TitanR 48" x 20"(fits through36”door)
TitanR 48" x 48"
TitanR 48" x 96"
TitanR 60" x 120"



Maker-Fab Series Router Models

Include: standard MDF table, 3-1/4HP router, wrenches, welded steel frame, dust hood, and starter set of bits can operate on 110V 20A 8.5” Z Travel The floor space is about 2’ larger than the work area.

RMF 24" x 20"(fits through 36”door)
RMF 48" x 20"(fits through 36”door)
RMF 48" x 48"
RMF 48" x 96"
RMF 60" x 120"



HS Series Router Models

Standard model for education and small shop

Include: standard MDF table, 3-1/4HP router, wrenches, welded steel stand, dust hood, and starter set of bits can operate on 110V 20A The floor space is about 2’ larger than the work area. HS Series routers feature Closed Loop Hybrid Servo Technology for reliable rapid speeds in excess of 500 IPM. 10.5” Z Clearance

Ideal for a serious cabinet making program.

HS 24" x 24"
HS 48" x 24"
HS 48" x 48"
HS 48" x 96"
HS 60” x 120”
HSFV-ATC 4’ x 4’ with 5HP & 8 position ATC
HSFV-ATC 4’ x 8’ with 5HP & 8 position ATC
HSFV-ATC 5’ x 10’ with 5HP & 8 position ATC

Optional Upgrades:

Vacuum Table systems includes pump & Table

24X24 Vac System upgrade 110V
48X24 Vac System upgrade 110V
48X48 Vac System upgrade 220V3PH
48X48 Vac System upgrade 110V
48X96 Vac System upgrade 220V3PH
48X96 Vac System upgrade 110V
60X120 Vac System upgrade
If Vac Table Sys added later add

6” Fourth Axis
Jog Pendant

Aluminum T-Slot Table

48X20 or 24 T-Slot Table upg.
48X48 T-Slot Table upgrade
48X96 T-Slot Table upgrade
60X120 T-Slot Table Upgrade

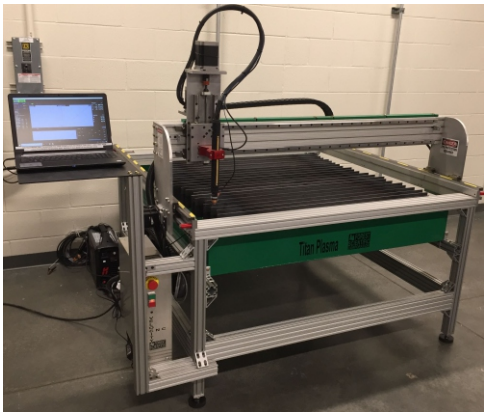
Note: High Frequency spindles are quieter and ideal if you plan to cut metals.

Spindle upgrades

2.2HP 1PH High Freq. spindle
5HP 3 PH High Freq. spindle
10HP 3 PH High Freq. spindle
5HP Manual quick change Spindle

Most popular CNC Plasmas *The most common models used in education*

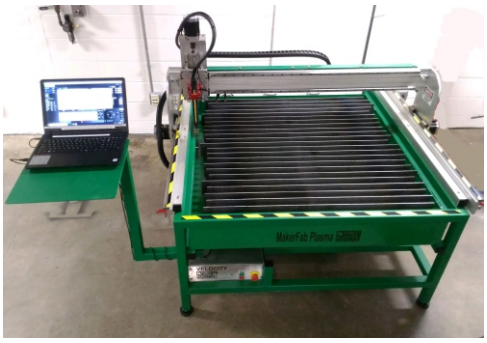
Each of the CNC Plasma cutters below include a Torch Break Away system, Automatic Torch Height, integrated water table, CAD/CAM software, Hypertherm 45 Plasma system, and control computer with arm for a Turn-Key package just plug into your electric.



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 upstairs and other installations requiring special handling since they are lighter weight than steel.

TitanP 24" x 20"(fits through36"door)
TitanP 48" x 20"(fits through36"door)
TitanP 48" x 48"
TitanP 48" x 96"
TitanP 60" x 120"



Maker-Fab Series Plasma Models

The Maker-Fab Plasma cutters are cost effective heavy duty machines made of a welded steel frame with integrated Water Table. The extra rigidity is great for handling the abuse of students and will last for many years.

PMF 24" x 20"(fits through36"door)
PMF 48" x 20"(fits through36"door)
PMF 48" x 48"
PMF 48" x 96"
PMF 60" x 120"

HS Series Plasma Models

The HS-Series Plasma cutters are heavier duty machines made with a larger tubular welded steel frame with integrated Water Table. The extra rigidity is great for handling the abuse of students and will stand the test of time with 24/7 commercial use. It's Closed loop HyBrid Servo control assures accuracy at the fastest speeds.

HSPB 24" x 24"
HSPB 48" x 24"
HSPB 48" x 48"
HSPB 48" x 96"
HSPB 60" x 120"

Our plasma tables have replaceable leafs that you can easily make by shearing steel so you won't need to buy expensive table parts and pay to ship them across the country.

Hypertherm Plasma Cutters Upgrades

Powermax 45 Pierce 1/2" steel and cut up to 7/8" cut Comes standard -***Best option for most schools***
Powermax 65 Pierce 5/8" steel and cut up to 1" cut upgrade
Powermax 85 Pierce 3/4" steel and cut up to 1-1/2" cut upgrade
Powermax 105 Pierce 7/8" cut and cut up to 2" cut upgrade (Requires 480V)

Require 10 SCFM @ 90 PSI compressed Air

Options:

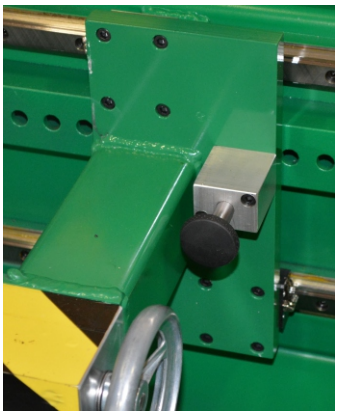
8" pipe Cutter 4th Axis with Advanced pipe Cutting Software Plate Marker $
HVAC CAD/CAM EDU stand alone License Optional

CNC WOOD LATHE

Ready to connect to
Central Dust Collection

WL4000

*** Cut up to a 40” X 10” Part**
*** Hardened Profiled Rails**
*** Spindle #2MT int Taper**
*** Tailstock #2MT int Taper**
*** Ball Drive Screws**
*** Anti Backlash Nuts**
*** 1 or 5 HP Spindle Motor**
*** Ready for dust collector**
*** Compatible with CAD/CAM**
*** Uses G&M Codes**
*** 36 Month On-Site warranty**



WL4000 Positive Locking Tail Stock

Machines:
WL4000 Standard Stepper 120V 20A
WL4000HY Hybrid Servo 120V 20A
WL4000PRO (faster & 5HP 3PH) 220V 30A 3PH

Used machines $$ CALL

Precision CNC Bed Mill

Enclosed or Open

Materials:

Steel

Aluminum

Brass

Titanium

Wood

Plastics

Almost anything

Competitive Advantages

1. Arrives fully assembled
2. Will fit through 36” Door
3. Runs on G-Codes
4. Much faster than others
5. Significantly stronger spindle options
6. Table large enough for a vice and rotary axis

Rigid Fixed Gantry with moving bed available in the following sizes:
2’X20”-2.5 HP Spindle
2’X20”-5 HP Spindle
2’X20”-10 HP Spindle
2’X20”-5 HP ATC Spindle with 4 Position ATC

Options:
6”-4th Rotary Axis
3D Rapid prototype CAD/CAM
Enclosure

Optional accessory kit includes Collet Set
Assortment of End Mills, 6” Vise, Hold Down Set

5- Axis CNC Router

With full 4x4 or 4x8 flat clamping table 2D/3D

3.25 Hp high frequency air cooled router

10”x (48”or96”) 4th axis capacity (6” swing)

8” of travel on the 5th axis 5” capacity

Vertical joinery table for holding stock vertically for End machining

Intercon Conversational programming

Automatic Z length tool sensing

Control computer with preconfigured software

Tooling package

Makerfab 4400 4x4 5 axis CNC Router
Makerfab 4800 4x8 5 axis CNC Router

Turnkey FabLab or MakerSpace in a Box

A complete portable, Turn-key Fab-Lab or MakerSpace on carts ideal for mutli-use areas such as within a library, elementary, or middle school classroom. Modules may be purchased A la cart or as a complete lab to meet recommendations from the Fab Foundation. On-site training and tutorials assure success with this convenient lab.

Module 1 Laser Engraving/Cutter station
Module 2 3D Printer Station
Module 3 CNC Router Station
Module 4 Manual Tools Station
Module 5 Electronics Station

Call for detailed information

Many that attempt to put a lab together just buying components fail because they purchase cheap, inferior equipment and never learn how to use it. This package assures instant success and help when needed

On site Setup and training for success from day 1
Each unit can be rolled out individually or all together
Video Tutorials for lab participants to teach themselves
3 Year on site parts and labor warranty
Start with everything you need to start making

HyPrecision Predictive WaterJet

HyPrecision Predictive WaterJet MiteyJet 48X20 Call for other options and sizes

The Michelangelo 3D Modeler

Innovative CNC router designed for classroom use

TECH ED, DRAFTING, WOODWORKING, ART

Maximum Fully Enclosed size to fit through a 36" Door

TRAVEL
X=35" Y=13.5" Z=8.5"
Z Clearance 6.5"

Made In USA

Includes Vacuum table system & Dust collection system

TOOLING
Router Wrenches.....1 Set
Collets.....1/4", 1/2"
Starter bit set and vacuum table gasketting

ELECTRICAL
Main Power..... 110V 20A
Spindle Motor.....3 1/4 HP 10K-21K RPM

Michelangelo Stepper Version X=35" Y=13.5" Z=8.5"
Michelangelo Servo Version X=35" Y=13.5" Z=8.5"

Michelangelo Pro X=35" Y=20" Z=8.5"
includes 2.2HP High Freq Spindle and greater Y travel
will not fit through 36"door

Guitar Making CNC Router

http://www.guitarbuilding.org/

The LuthierMax Series of CNC routers was designed for guitar making in collaboration with engineers from Fender® Guitars (who are using this model) and www.guitarbuilding.org to make this machine student friendly and robust. Fixtures built into the table make it easy to machine your own guitar necks and bodies for both standard size and longer base guitars in your classroom. This is the largest fully assembled CNC router that fits through a standard 36" classroom door. Travels X49" Y20" Z8.5"
Floor space approximately 76' X 34". All models (except ATC model) use 110V normal wall outlet electric.
Servo & ATC models have a larger footprint that will not fit through the 36" door opening. Call for more info.

LuthierMax CNC Router Models:
LuthierMax CNC Router 110V,20A

LuthierMax Options:
Vacuum Table System
Guitar Making Class Start up kit
Guitar Making CNC Bit Kit

MITEY SERIES

Machines for educational training, prototyping, design, and industrial production worldwide

MITEY MILL

X - Travel 9" (23cm)
Y - Travel 5" (13cm)
Z - Travel 6.25"(15.88cm)
Table 2.75" X 13"
(7 X 33 cm)
110V 20A

MMSV Stepper Standard Version
MMHY Hybrid Servo Standard Version

Mitey Mill Options:
4" Vise
4" 4th Axis
10K RPM Spindle

MITEY LATHE

X - Travel 4.25" (10.8cm)
Center Distance 8"(20cm)
Swing over bed 3.5" (8cm)
Swing over carriage 1.88"
(4.78cm)
110V 20A

MLSV Stepper Standard Version
MLHY Hybrid Servo Standard Version

Mitey Lathe Options:
Deluxe QC tooling package
Threading capability
Knurling tooling

MITEY WOOD LATHE

18"X 4" Capacity
(45 X 10 cm)
110V 20A

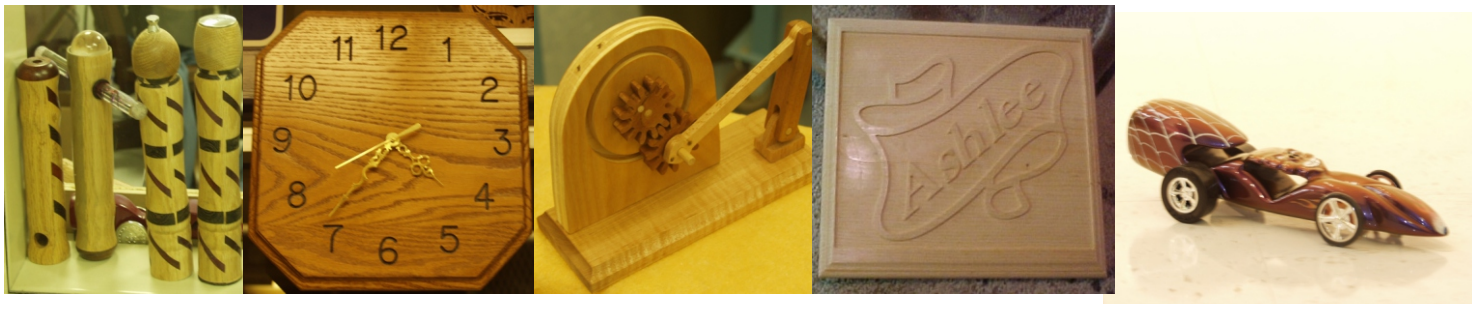
Made In USA

MWLS Stepper Version
MWLHS Hybrid Servo

MITEY ROUTER

Travels
18"X x 9"Y x 6.5"Z
(45X x 23Y x 16Z cm)
110V 20A

MRLS Stepper Version
MRLHS Hybrid Servo
Upgrade to HF Spindle
4th Axis
3D Digitizing probe



For a fraction of replacement cost, update old DOS machines to Windows

All Phoenix/ Magnum/
Paxton Wood Lathes
VC-PMPPL
Upgrade $

All Phoenix/ Magnum/
Paxton Routers VC-PMPPR
Upgrade $6,999.00
Vac pump $

All Paxton Lathes VC-PPL
Upgrade $

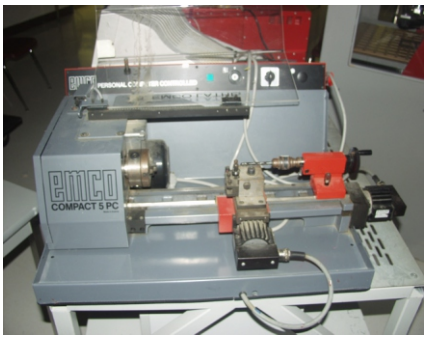
All Paxton Mills VC-PPM
Upgrade $

D&M 3 or 4 & Lab Volt 5400 Mills
VC-DMM34 Upgrade $

D&M 3, 4, or Lab Volt 5300 Lathe
VC-DML34 Upgrade $

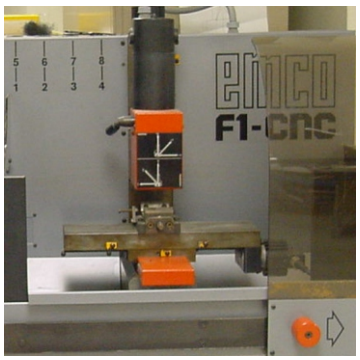
D&M 5 or Lab Volt 5500
VC-DML5
Upgrade $

D&M 5, 6 or Lab Volt 5600
VC-DMM5
Upgrade $



All Emco Compact 5 Lathes
VC-CP5L
Upgrade $

Emco Compact 5 Lathes
If it has a Tool Turret
Add VC-CPTT $



ALL Emco F1 Mills
VC-EF1M
Upgrade $

All Denford Routers
VC-DFMR
Upgrade $

All Denford MicroMills,
Scantek, LabVolt, B&G,
& Midwest
VC-DFMM
Upgrade $

All Denford MicroLathes,
Scantek, LabVolt, B&G,
& Midwest
VC-DFML
Upgrade $

GET OLD MACHINES OUT OF THE JUNK PILE

We Service all brands

Stretch your budget

Unlike new equipment, upgrades usually do not come out of your own budget. Most upgrades are financed through other budgets including: district repair budgets; technology funds since we are changing the computer in the machine; or through special needs funds. Once these machines are upgraded, they will be much easier for a special needs student to be successful. Upgrades often make it possible for the vocational-technical supervisor to tap into funds that otherwise would not be available. Equipment purchased under Perkins can often be repaired under Perkins. Also, it is often much easier to get school boards to approve repairs on existing equipment than purchasing new equipment. Depending on the machine, most upgrades range from ½ to 1/20th of the replacement cost of a machine and will usually allow it to operate better than new.

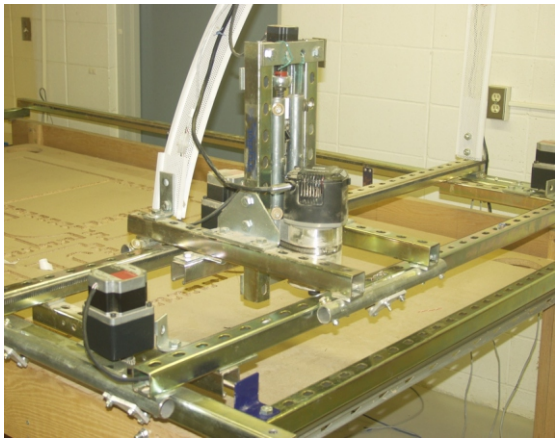
CNC Upgrade Price: Includes everything needed - software, electronics, install, 18 month warranty, and training. Add CAM software (see page 13) and a modern PC computer with 2 USB 2.0 Ports.

Upgrade Older Forest Scientific Velocity based Controls $
Upgrade Older Forest Scientific Centroid based controls $

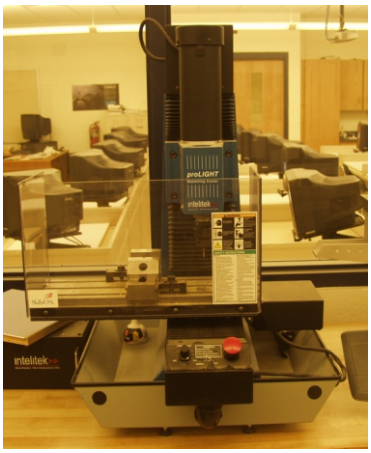
Light Machines
CNC Router
VC-LMCR
Upgrade $

IF YOU DO NOT SEE YOUR MACHINE, CALL FOR A QUOTE

Light Machines
Spectralight Mill
or Spectralight Lathe
Upgrade $



All Shopbot Routers
VC-SHOPB Upgrade $
OR
VC-SHOPBCL$7,999.00 for Closed loop version



Light Machines
Pro Light Lathe or Mill
VC-PL
Upgrade $
ProLight with ATC $

All Techno Routers
Gantry style & Davince
Under 2'X2'
VC-Techno
Upgrade $
Servo $

Techno LC Servo Routers $
Techno Plasma cutters $

AXYZ Millenium Routers $
AXYZ 4x4 & 4x8 Routers w/o ATC $
AXYZ 4x4 & 4x8 Routers with ATC $

EZROUTER,PlasmaCAM, & Torchmate upgrades
without ATH $
with ATH if existing plasma is adequate $
Complete with ATH & Powermax 45XP $

Optional Preloaded Notebook computer $

IF YOU DO NOT SEE IT HERE CALL FOR HELP

CAD/CAM SOFTWARE OPTIONS

Note: Software purchased through Forest Scientific Corporation or an authorized dealer of Forest Scientific Corporation will have Free installation and support assistance. If software is purchased directly from the Vendor or online, we will offer support at a fee. Realize, the software from another vendor will need customization and configuration to work properly.

For Lathe, Mill, Router, Plasma MasterCAM *Educational License with a machine*

Single User with machine or upgrade purchase	$	Additional Educational Lab Licenses	$CALL
Upgrade from earlier version	$ CALL	Mastercam University	$CALL

EnRoute, for Routers, Plasmas, & Mills

Classroom License - Please specify how many up to stations

Classroom License of EnRoute 6

EnRoute Plus with kerf comp 2D	$
EnRoute Pro with kerf comp 3D	$

Upgrade pricing from EnRoute 3, 4, or 5 to EnRoute 6

3, 4, or 5 Pro to EnRoute 6 Pro	$
3, 4, or 5 Plus to EnRoute6 Plus	$
3, 4, or 5 Plus 2D to EnRoute 6 Pro 3D	$
Upgrade from EnRoute 6 Plus to 6 Pro	$

Vectric CAD/CAM for CNC Routers & Mills

40 educational seats in a single lab or classroom

Full CAD/CAM Products		Specialty 3D Products	
Cut2D Desktop for 2x2 or smaller work area	$	PhotoVCarve	$
VCarve Pro	$	Cut3D	$
Aspire 3D	$	Upgrades	CALL

VECTOR ART - PREMADE ART 2D for LASERS, Mills, Routers & Plasma 3D for Routers & Mills only
Instant Success for your students

2D Products		3D Products	
Vector Art 1 over 6K images	$	Vector Art 3D Animal Collection	$
Vector Art 2 over 5K images	$	Vector Art 3D Flourishes and Ornaments	$
Vector Art 3 over 6K images	$	Vector Art 3D Symbols & Icons	$
PlasmaArt Collection	$	Vector Art 3D Dasch's fine cuts	$

CorelDraw Academic Current Version For Lasers

CorelDraw Single seat	$	Corel Draw 50 Seat License	$
Corel Draw 100 Seat License	$	Corel Draw 250 Seat License	$

Have you ever wondered why the name Forest Scientific?

Forest Scientific Corp was founded and is headquartered in Tionesta, Forest County, Pennsylvania. Our name is from our county.
visit http://www.forestcounty.com

The picture to the right is our 67,000 square foot factory located on the north edge of Tionesta along the Allegheny river. We are 3 hours from Pittsburgh, Cleveland, and Buffalo.

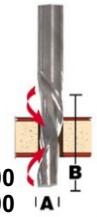
CNC Accessories

Most common educational use excerpts from our tooling catalog

Part #		Cutting Dia	Shank Dia	Length	Price
Straight bottom cutting Panel cutting bit					
49-SST198	Str. 2 flute bit	1/8"	1/4"	2-1/2"	$21.00
49-SST220	Str. 2 flute bit	1/4"	1/4"	2-1/2"	$25.00
24-102-0885P	Str. plunge bit	½"	½"	2-1/2"	$39.00
Economy Upspiral Flat bottom end mill					
24-106-0202	1/8" Up	1/8"	1/4"	2"	$25.00
49-SRU118	1/4" Up	1/4"	1/4"	2-1/2"	$25.00
49-SRU153	1/2" Up	1/2"	1/2"	3"	$49.00
Small Bits (BN=ball nose FN=flat nose)					
31-VSC3dfn-500	2 flute	1/64"	1/8"	1-1/2"	$34.00
31-VSC3dbn-500	2 flute	1/64"	1/8"	1-1/2"	$38.00
31-VSC3dfn-503	2 flute	1/16"	1/8"	1-1/2"	$20.00
31-VSC3dbn-503	2 flute	1/16"	1/8"	1-1/2"	$22.00
31-VSC3dfn-501	2 flute	1/32"	1/8"	1-1/2"	$23.00
31-VSC3dbn-501	2 flute	1/32"	1/8"	1-1/2"	$24.00
Down Spiral bits (prevent chipping on top)					
49-SRD203		1/8"	1/4"	2"	$25.00
49-SRD218		1/4"	1/4"	2"	$25.00
49-SRD253		1/2"	1/2"	3"	$49.00
Plungable round over bits					
49-SE1568	1/8" radius	1/8"	1/4"	2"	$19.00
49-SE1572	1/4" radius	1/4"	1/4"	2"	$22.00
49-SE1580	3/8" radius	½"	1/2"	2-1/4"	$26.00
49-SE1582	1/2"radius	1"	1/2"	2-1/4"	$29.00

Compression up/down spiral

Item #	A	B	Shank	$
24-107-0402	1/4"	7/8"	1/4"	$38.00
24-107-0815	1/2"	1-1/8"	½"	$67.00



Mitey Series Accessories		
Mill		
41-7402	1/8 End Mill 3/8 shank	$ 19.00
41-7403	3/16 End Mill 3/8 shank	$ 19.00
41-7404	1/4 End Mill 3/8 shank	$ 19.00
41-7406	3/8 End Mill 3/8 shank	$ 19.00
41-7400	6 piece set 1/8, 5/32, 3/16,1/4,5/16,3/8	$ 99.00
41-3551	Milling Vise 2"	$125.00
35-428-9020	Milling Vise 4"	$250.00
41-3079	3/8 End Mill Holder	$ 75.00
41-6079	1/4 End Mill Holder	$ 75.00
41-6081	1/8 End Mill Holder	$ 75.00
41-3020	5/32 Hex T-driver	$ 10.00
41-3013	Step block hold down set	$ 50.00
41-1072	1/4" drill Chuck, with access	$ 65.00
41-32540	High-speed Belt mill or lathe	$ 42.00
Lathe		
41-1191	Lathe Live Center	$ 80.00
41-11940	60° Carbide tool bit	$ 19.00
41-11950	Right Hand, HSS (1/4" SQ)	$ 19.00
41-11960	Left Hand, HSS (1/4" SQ)	$ 19.00
41-3086	Cut Of Tool Blade	$ 24.00
41-3002	Cut-off Tool Holder & Tool	$ 95.00
41-3003	1/4" Tool Post	$ 75.00
Specialty Router Tooling		
56-D2	Razor Cardboard cutter	$495.00
57-Pen	Router Bit with pens 1/2" Shank	$ 89.00
57-Replacement	Pen set	$ 19.00
57-Diamond Drag	Engraving Bit 1/4" Shank	$249.00
57-Diamond Drag	Engraving Bit 1/2" Shank	$249.00
11-328	Vinyl Cutting head	$599.00
VC-Jog	Velocity remote jog pendant	$599.00

Individual 3-D Router Bits

Part #		Cutting Dia	Shank Dia	Length	Price
49-SRU103	(Flatnose)	1/8"	1/4"	2"	$39.00
49-SBNU125	(Ballnose)	1/8"	1/4"	2"	$39.00
49-SRU123	(Flatnose)	1/4"	1/4"	3"	$39.00
49-SBNU250	(Ballnose)	1/4"	1/4"	2-1/2"	$39.00
31-SPCLE250	(Ballnose/)	1/4/"	1/4"	4"	$79.00
49-SRU153	(Flatnose)	1/2"	1/2"	3"	$49.00
49-SRU167	(Flatnose)	1/2"	1/2"	4"	$69.00
49-SBNU500	(Ballnose)	1/2"	1/2"	3"	$79.00
31-SPCLE500	(Ballnose)	1/2"	1/2"	4"	$89.00

HSD & ATC Tool Holders & Collets

52-A1741H0001	ISO30 ATC Tool Holder	$175.00
52-7501A9300	ISO 30 tool forks	$89.00
55-04232-1/8	ER32 Collet 1/8"	$75.00
55-04232-1/4	ER32 Collet 1/4"	$75.00
55-04232-1/2	ER32 Collet 1/2"	$75.00
55-04232-05	ER32 Collet 5MM	$75.00
55-04616	ER32 Wrench	$40.00
55-04615	ER25 Wrench	$40.00
55-04225-1/8	ER25 Collet 1/8"	$75.00
55-04225-1/4	ER25 Collet 1/4"	$75.00
55-04225-1/2	ER25 Collet 1/2"	$75.00

Lettering V-Groove bit		CUT DIA	Shank	
49-SLIN062	10 Degree	1/16"	1/4"	$35.00
24-132-9002	60/90 Double ended bit		1/4"	$50.00
49-SCVG260	90 Degree	1/4"	1/4"	$19.00
49-SCVG264	60 Degree	1/4"	1/4"	$19.00
49-SE1502	90 Degree	1/2"	1/4"	$23.00
49-SE1503	90 Degree	1/2"	1/2"	$23.00
49-SE1560	60 Degree	1/2"	1/2"	$23.00

Spoil Board Bit
For resurfacing your MDF table or spoil boards

49-spoil-25-2spoil board bit	$299.00
49-spoil-insert inserts 10 pack	$ 24.99
49-spoil-screw replacement screw	$ 3.25
49-spoil--wrench replacement wrench	$10.00

Router Collets/ Accessories

1/2"Router Collet 34-42950	$23.00
1/4"Router Collet 34-42999	$23.00
3/8"Router Collet 34-42975	$23.00
3HPPorter Cable Rout Wrench 34-42596	$25.00
53-RB102 1/4" to 1/8" Collet reducer	$23.00
49-SE6390 1/2" to 1/8" Collet reducer	$17.00

CNC Router/Wood Lathe Accessories
Vacuum Table Gasketing / hold down supplies

Router Gasket (Forest Scientific Vac pump		11-800	$99.00
Router Gasket (softer for Venturi Magnum routers)		11-801	$99.00
1/16"X1/2"Adhesive router gasket		23-8694k11	$35.00
1/8"X1/2"Adhesive router gasket		23-8694k16	$39.00
3/16"X1/2"Adhesive router gasket		23-8694k17	$45.00
1/4"X1/2"Adhesive router gasket		23-8694k12	$49.00
Double sided Masking tape		23-76405A13	$13.00

CNC Wood Lathe tooling

FS Wood Lathe Tool		30-46-415	$ 99.00
Universal Carbide Cutter	(magnum)	28-700	$125.00
HSS Cutter Big Lathe	(magnum)	28-720	$120.00
HSS Cutter Small Lathe	(magnum)	28-735	$120.00
Modify HSS holder for carbide		11-901	$180.00

Replacement parts for Magnum/Phoenix

Replacement Venturi	29-NZHI13BS-T01-T02	$119.00
Replacement Flexi motor coupling	11-425	$ 99.00
Phoenix EZM Belt	32-2L200	$ 16.00
Limit Switches (magnum)	39-SW128-ND	$ 15.00

CRP Clean Room Metal Torch

Made In USA

Cut:
Steel
Aluminum
Copper
Brass

Fully Enclosed

Cost Effective Alternative to a $600K Laser

Run in a Clean Room

Cut Steel Faster than a WaterJet with Lower Operational Cost

110 V or 240V operation requires compressed air
Closed-Loop Hybrid Servo Control System
Downdraft grid table and ports to exhaust fumes outside or to a filtration system
Automatic torch height
Automatic voltage detection, current set from computer
Includes fine marking, and standard cutting consumables

Model	Travel	Price
CRP2418	24” X 18” Y	$
CRP3618	36” X 18” Y	$
CRP48X24	48” X 24” Y	$
Optional in room filtration system		$
Optional ultra quiet dry air compressor		$
Converter to run 45 A Plasma on 110V		$

Perfect for an Engineering Lab

Capabilities:
Near laser quality fine cutting up to ¼” steel
Able to cut up to 7/8” steel
Low resolution metal marking

FOREST CNC

Forest Scientific Corporation
PO Box 510
Tionesta, PA 16353, USA
814-463-5006 Voice
814-463-0292 Fax
1-800-956-4056 Toll-Free
sales@forestscientific.com

www.forestscientific.com

Success from day 1.

Allegheny Educational Systems, Inc.

REPRESENTED BY:
Allegheny Educational Systems, Inc.
320 East 3rd Avenue
Tarentum, PA 15084
Phone: 800-232-7600
www.alleghenyedusys.com

Computerized tools for transforming ideas into reality.