

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



SUCCESS FROM DAY 1

Computerized Tools For Transforming Ideas Into Reality



DIGITAL FABLAB PRODUCTS FOR STEM, CAREER, & TECHNICAL EDUCATION







Thank you for reviewing this years catalog. One of the highlights of the 2013-2014 school year was having our CNC router and laser used in the SkillsUSA™ Cabinet Making Competition. The logo on the right was made on the laser and the router cut out the pocket for it to be inlayed in the cabinet. If you have never been to the skills competition you are really missing a great opportunity for you and your students.





Forest Scientific Corporation provides a 36 month on-site parts & labor warranty on all new machines we manufacture unless otherwise noted, 24 month on-site warranty on all lasers, 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 my cell 814-671-7660.

Sincerely,

President

John E. Martincic

jem@forestscientific.com

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All pricing & specifications subject to change without notice This Catalog pricing effective 7/1/2014



All Trademarks belong to their respective owners

Forest Scientific Competitive Advantages

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

- 1. Made in the USA.
- 2. 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- \$6,000.00 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. Unless otherwise specified, **all FSC machines come fully assembled.** Most of our competitors will require 40-80+ hours of your time to assemble the machine. Our machines are often running withing an hour of arrival if the electricity & airline are ready.
- 4. Our CNC controls connect to the computer through USB or Cat 5, not outdated parallel port, serial port, ISA ports, or other port that requires a DOS or other outdated computer. **Do not assume that the technology is current.** Most of the machines on the market are out of date.
- 5. Hardened, profiled, made in Ohio, Precision THK linear ways and bearings not just wheels running on plate steel or angle iron. These machines cannot be bumped out of place like most of the machines on the market in the same price range.
- 6. Grease fitting on each linear bearing for a long life. Grease & grease gun provided.
- 7. All our CNC machines use industry standard G&M codes, not a proprietary language. Thus you are teaching marketable skills, not just playing with a dead end toybot.
- 8. You can **use any CAD/CAM software producing industry standard G-Codes** such as Mastercam, Surfcam, Edgecam, Enroute, Vcarve, Rhinocam, and more.
- 9. **On-site training** is available for you and your students to ensure a successful start. It is more effective to be trained on your own equipment than to go to a training site. With your approval, students are trained to assistant and help train other students.
- 10. Written & video tutorials are available to show your students while teaching classes.
- 11. **Welded steel frames**, rather than bolt together frames, will hold up better in the long term because there is nothing to work loose or get out of alignment over time.
- 12. Additional training available on-site and over the internet.
- 13. Free phone and internet support is available nearly 24/7. Versus being charged by the minute to get help. You can talk to someone in the evening and on weekends so you are not limited to office hours.
- 14. The stepper & servo motors on our machines are generally much stronger than others selling for a similar price. (1200 oz/in vs 200 oz/in will be more reliable)
- 15. 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.
- 16. Forest Scientific Corporation machines and upgrades are designed to be able to be updated at a low cost when technology changes.
- 17. All machines have an Emergency Stop and safety stickers to remind users to operate the machine safely.
- 18. Local Dealers providing local support second to none.

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

The Michelangelo 3D Modeler

Innovative CNC router designed for classroom use TECH ED, DRAFTING, WOODWORKING, ART



TRAVEL

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



TOOLING

Router Wrenches	1 Set
Collets	1/4", 1/2"
ELECT	RICAL
Main Power	110V 20A
Spindle Motor3	1/4 HP 10K-21K RPM

Maximum Fully Enclosed size to fit through a 36" Door

Michelangelo Stepper Version\$19,999.00Michelangelo Hybrid Servo Version\$21,999.00

Includes Vacuum table system

&

Dust collection system

See page 6 for additional accessories

BT BENCH TOP SERIES CNC ROUTER





BenchTop Series Router Models Great for tight budgets, when space is limited, when your shop is upstairs, or getting through narrow doorways

Fully Assembled Not a KIT

BT 24"X 24" \$ 9,999.00 Dust Collection BT 48" x 24" \$11,999.00 Hood \$500.00 BT 48" x 48" \$12,999.00 BT 48" x 96" \$14,999.00 8" Z travel

Optional Aluminum Stands: BT 24X24 Stand \$1,299.00 BT 48x24 Stand \$1,499.00

BT 48x24 Stand \$1,499.00 BT 48x48 Stand \$1,599.00

BT 48x96 Stand \$1,999.00

Note: Aluminum stands require assembly

Includes: standard table, 3-1/4HP router, wrenches, and starter set of bits can operate on 110V 20A

Save by Putting on your own bench or make a stand.

Convert-A-Table PLASMA CUTTER / ROUTER



Convert-A-Table CNC Router / Plasma Models

CAT 48" x 20"(fits through36"door) \$17,999.00 CAT 48" x 48" \$18,999.00 CAT 48" x 96" \$21,999.00

Includes: Plasma water table, router clamping table, 3-1/4HP router, welded steel stand, dust hood, and starter set of bits and clamping table with deluxe clamp set. Operates on 110V 20A 8." Z Travel Add the torch unit from page 6. These machines are only available with our powerful stepper based control.

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. This is heavy duty frame that can plow through wood with the robust 3-1/4HP router. Light duty machines advertising routing that can barely support a fractional HP router.

Convert-A-Table & Eco Plasma Options:

Automatic Torch Height

\$2,899.00 Maker-Fab Torch Break Away \$1,000.00 Plasma Torch systems see page 6



ECO Series Router / Plasma Cutter

This is our only model that requires assembly for those that don't mind a little work to save money. 8.5" Z travel

ECO 4x2 \$9,497.00 ECO 4x4 \$11,497.00 ECO 4x8 \$12,897.00 Water table add \$800.00 \$1,500.00 \$2,200.00

Options: Includes either

Router Configuration or Plasma configuration to have both add \$899.00 On-site Assembly & Training \$2,500.00

Maker-Fab CNC ROUTER & PLASMA



Maker-Fab Series Router Models

RMF 48" x 20"(fits through 36"door) \$14,999.00 RMF 48" x 48" \$15,999.00 RMF 48" x 96" \$16,999.00

Includes: standard table, 3-1/4HP router, wrenches, welded steel stand, dust hood, and starter set of bits can operate on 110V 8.5" Z Travel

Maker-Fab & HS Plasma Options:

PMF 48" x 48"

PMF 48" x 96"

Automatic Torch Height \$2,899.00 Maker-Fab Torch Break Away \$1,000.00

Hypertherm Plasma Cutters with machine torch and machine interface

<i>J</i>	_			-		
Powermax	45	\$2,699.00	Pierce 3/8" cut	P45	consumable package	\$600.00
Powermax	65	\$3,699.00	Pierce 1/2" cut	P65	consumable package	\$700.00
Powermax	85	\$4,599.00	Pierce 5/8" cut	P85	consumable package	\$800.00
Powermax	105	\$6,299.00	Pierce 3/4" cut	P105	consumable package	\$980.00

ECO, BT, Michelangelo, Maker-FAB & Standard HS Router Options

Other Options: **Vacuum Table System Upgrades:** 4" Rotary 4th Axis for std. models \$3,999.00 110V systems 6" Rotary 4th Axis for std. models \$4,999.00 24X24 Vac System upgrade \$ 2.500.00 Milling Head for Metals \$ 1,899.00 36X30 Vac System upgrade \$ 3,500.00 Vinyl Cutting head 599.00 48X24 Vac System upgrade \$ 3,500.00 Velocity touch digitizing probe 999.00 220V 3PH systems 299.00 Velocity tool touch off 48X48 Vac System upgrade \$ 4,000.00 Velocity remote jog pendant 599.00 48X96 Vac System upgrade \$ 4.500.00 Deluxe Clamping Kit 495.00 60X120 Vac System upgrade \$ 7,500.00 Computer/monitor on swing Arm \$1,499.00 If Vac Table Sys added later add \$1,500.00 **Dust Control Computer Cab** \$ 699.00 **Collet Style Spindle Upgrades:** Increase HS or MF router to 12" Z \$1,999.00 2.2HP 1PH High Freq. spindle \$ 2,700.00 56-D2 Razor Cardboard cutter \$ 495.00 5HP 3 PH High Freq. spindle \$ 3,900.00

10HP 3 PH High Freq. spindle \$ 5,900.00

57-Pen Router Bit with pens

Maker-Fab Series Plasma Models

PMF 48" x 20"(fits through36"door) \$15,999.00

Includes: Welded steel frame with integrated

Water Table, Choose from a torch system below.

\$16,999.00

\$17,999.00

89.00

HS CNC ROUTER

Our most popular model





HS Series Router Models

Standard model for education and small shop

HS 48" x 24"	\$19,999.00
HS 48" x 48"	\$21,999.00
HS 48" x 96"	\$23,999.00
HS 60" x 120"	\$27,999.00

Includes: standard table, 3-1/4HP router, wrenches, welded steel stand, dust hood, and starter set of bits can operate on 110V 20A 10.5" Z Travel The floor space is about 2' larger than the work area. the actual travel is 2" greater than the work size listed.

HS Series routers feature Closed Loop Hybrid Servo Technology for reliable rapid speeds in excess of 500 IPM.

See page 6 for additional accessories

Guitar Making CNC Router



USED CNC MACHINES

VE THOUSANDS \$\$\$\$

FIRST COME, FIRST SERVE. CALL TO RESERVE YOUR MACHINE
We have used Routers, Mills, & Lathes in stock.
All of our used machines have been updated and have an 18 month on-site warranty.
Competitors offer only a one year parts only warranty on their new equipment. With our updates, most will perform better than when new. Used machines are often half the price of new.
Our used inventory is constantly changing so they are not pictured here.

Call 1-800-956-4056

These Values Start at \$4,499.00

to find your bargain.

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 \$14,999.00 LuthierMax CNC Router Hy Servo \$19,999.00 LuthierMax PRO with ATC CNC Router \$39,999.00

LuthierMax Options:

Vacuum Table System \$3,500.00
Guitar Making Class Start up kit
Guitar Making CNC Bit Kit \$500.00

HSIPRO HEAVY DUTY CNC ROUTER



Features:

CENTROID CNC Control

for the Ultimate in High Speed 3D Contouring

No computer needed at the machine.

Shown with:

8 Position ATC Optional 4th Axis 10 HP HSD Spindle

HSIPRO Models used in labs that require high production speeds & ultimate 3D performance such as 3D Modeling, Cabinet making, and WOODlinks programs:

These models feature the Centroid closed loop servo control system with remote Jog panel & Vac table system. Require 120V 20A for electronics & 230V 3PH for Vac Table sys.

With	Economy	Standard	Open	Frame
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HSIPROE4X4	Economy Pro model with 3-1/4HP router, MDF table	\$32,999.00
HSIPROE4X8	Economy Pro model with 3-1/4HP router, MDF table	\$34,999.00
HSIPRO4X4	5HP Collet style High Freq spindle, Phenolic table	\$37,999.00
HSIPRO4X8	5HP Collet style High Freq spindle, Phenolic table	\$39,999.00
HSIPRO4X4	10HP Collet style High Freq spindle, Phenolic table	\$39,999.00
HSIPRO4X8	10HP Collet style High Freq spindle, Phenolic table	\$41,999.00
HSIPROATC4X4	5HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$47,999.00
HSIPROATC4X8	5HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$49,999.00

With extra Heavy Duty Frame as pictured above

HSIPROATC4X4HD	5HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$57,999.00
HSIPROATC4X8HD	5HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$59,999.00
HSIPROATC4X4HD	10HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$64,999.00
HSIPROATC4X8HD	10HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$66,999.00
HSIPROATC5X10HD	10HP ATC High Freq spindle, 8 pos ATC Phenolic table	\$71,999.00

Options for HSIPRO Models:

Reverse Engineering Probe &software	\$ 9,999.00	Tool Touch off Probe	\$ 1,500.00
150MM Rotary 4th Axis	\$11,999.00	100MM Rotary 4th Axis	\$ 9,999.00

HS CNC PLASMA CUTTER



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



High Definition Plasma HPR260XD HSP-PRO4x8HD \$180,000,00

FULLY ASSEMBLED HEAVY DUTY STEEL FRAME WITH WATER TABLE

HS Series Plasma Models

Basic w/basic integrated ATH, & PMAX 45

Basic ATH all controls are on-screen & have economy magnetic break away HSPB 48" x 48" \$26,999.00 HSPB 48" x 96" \$28,999.00 \$31,999.00 HSPB 60" x 120" Advanced w/High end ATH, PMAX 45 HSPA 48" x 48" \$33,999.00 HSPA 48" x 96" \$36,999.00 HSPA 60" x 120" \$39,999.00 Pro w/High end ATH,M39, & PMAX 45

HSP-PRO 48" x 48" \$49,999.00 HSP-PRO 48" x 96" \$54,999.00

HSP-PRO 60" x 120 \$59,999.00

Magnetic Breakaway

Tethered magnetic breakaway for consistent positioning during cutting and retention after collision or consumable change. Powerful magnets and keyed mounting plate for fast and repeatable repositioning of the torch.



Normal



Tripped



Magnetic Back



Automatic Torch Height Control

Provides programmable pierce height, pierce delay, and running height control.



Hypertherm ATH used on A & Pro models the HSPB uses our economy ATH system

Features

- * Automatic Conversion of DXF File to Tool Path
- * Convert scanned in files to toolpaths
- * Water Table with Removable Leafs
- * Heavy Duty Welded Steel Construction
- * Hypertherm Plasma cutters for CNC included
- * Actual machine torch included
- * Automatic Torch Height Control (Accounts for warping & uneven metal)

Utility Requirements

Electrical

Computer 120V 20A Plasma 208-480V

Air

100 PSI at 10 scfm Clean, Dry, Oil Free Air

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 MMSVB Stepper Ball Screw version MMHYB Hybrid Servo Ball Screw version \$ 9,999.00 \$ 10,999.00 \$ 12,499.00 \$13,499.00

Mitey Mill Options:
4" Vise \$ 250.00

4" 4th Axis \$2,999.00 10K RPM Spindle \$300.00

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)

MLSV Stepper Standard version \$ 9,999.00
MLHY Hybrid Servo Standard Version \$10,999.00
MLSVB Stepper Ball Screw version \$11,499.00
MLHYB Hybrid Servo Ball Screw version \$12,499.00

Mitey Lathe Options:

Deluxe QC tooling package \$1,999.00 Threading capability \$ 999.00 Knurling tooling \$ 200.00

MITEY WOOD LATHE

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





MWLS Stepper Version \$9,999.00 MWLHS Hybrid Servo \$11,999.00

MITEY ROUTER



MRLS Stepper Version \$9,999.00 MRLHS Hybrid Servo \$11,999.00



Travels

110V 20A

18"X x 9"Y x 6.5"Z

(45X x 23Y x 16Z cm)

CNC WOOD LATHE



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 WL4000HY WL4000PRO (faster & 5HP 3PH) 220V 30A 3PH

Standard Stepper 120V 20A Hybrid Servo

120V 20A

\$ 24,999.00 \$ 26,999.00

\$ 35,999.00

Used machines \$\$ CALL



Great Value Metal CNC Machines MODEL 1865 CNC MILL

- * X Travel 18"
- * Y Travel 6"
- * Z Travel 5" Quill travel
- * Max Z Clearance 16"
- * Table 9.5"Y x 32" X
- * 800 LBS

- **Features**
- * Manual or CNC operation
- * Cuts Steel
- * Industry Standard G-Codes
- * On Screen Simulation

Specifications

- * 2 HP 115V Spindle Motor
- * 12 Variable Speed 110-2580
- * 1200 Oz in Hybrid Servos
- * Standard R8 Spindle
- * Drill Chuck Included
- * 5/8" X 5 TPI Ballscrew

1865HS Mill - Hybrid Servo Version \$11,999.00 Mill - Economy Stepper Version \$ 9,999.00

Optional Fixed position Steel stand 750.00 Optional Mobile Adjustable height stand \$ 2,500.00

Optional accessory kit \$1,999.00 includes R8 Collet Set Assortment of End Mills, Vise, Hold Down Set



TMILL85

- * X Travel 8.75"
- * Y Travel 5"
- Z Travel 6.25"
- Table 2.75" X 13"
- 3/8" Mill Holder

Economy Table top open CNC Lathe or Mill

Your Choice \$4,997.00



ETTLATHE48

X - Travel 4.25" Center Distance 8" Swing over bed 3.5" Swing over carriage 1.88"

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 and a modern PC computer with 2 USB 2.0 Ports.

Upgrade Older Forest Scientific Serial Velocity Controls to USB \$1,999.00

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



Light Machines CNC Router VC-LMCR Upgrade \$5,999.00



Light Machines Spectralight Mill VC-SLM Upgrade \$4,999.00



Light Machines Spectralight Lathe VC-SLL Upgrade 4,999.00



Light Machines Pro Light Lathe or Mill VC-PL Upgrade \$5,999.00



All Techno Routers Under 4'X4' VC-Techno Upgrade \$4,999.00



All Shopbot Routers VC-SHOPB Upgrade \$4,999.00 VC-SHOPBCL\$6,999.00 for Closed loop version



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



All Phoenix/ Magnum/ Paxton Wood Lathes **VC-PMPPL** Upgrade \$6,499.00



All Phoenix/ Magnum/ Paxton Routers VC-PMPPR Upgrade \$6,999.00 Vac pump \$1,999.00



All Paxton Lathes VC-PPL Upgrade \$4,999.00

All Paxton Mills VC-PPM Upgrade \$4,999.00



D&M 3 or 4 & Lab Volt 5400 Mills VC-DMM34 Upgrade \$4,999.00 D&M 3, 4, or Lab Volt 5300 Lathe VC-DML34 Upgrade \$4,999.00



D&M 5 or Lab Volt 5500 VC-DML5 Upgrade \$5,999.00



D&M 5. 6 or Lab Volt 5600 VC-DMM5 Upgrade \$5,999.00



All Emco Compact 5 Lathes VC-CP5L Upgrade \$6,499.00



Emco Compact 5 Lathes If it has a Tool Turret Add VC-CPTT \$499.00



ALL Emco F1 Mills VC-EF1M Upgrade \$6,999.00



All Denford Routers VC-DFMR Upgrade \$4,999.00



Scantek, LabVolt, B&G, Scantek, LabVolt, B&G, & Midwest VC-DFMM Upgrade \$4,999.00

All Denford MicroMills, All Denford MicroLathes, & Midwest VC-DFML Upgrade \$4,999.00

CAD/CAM SOFTWARE OPTIONS

Please consult with your dealer to find the best package to meet your needs. They may have options not listed here.

EnRoute, for Routers, Plasmas, & Mills

New seats of EnRoute 5	
EnRoute Plus or FAB	\$ 1,299.00
EnRoute Pro (Master Seat)	\$ 1,999.00
5-Pack/Clients EnRoute Pro	\$ 2,999.00
10-Pack/Clients EnRoute Pro	\$ 3,999.00
20-Pack/Clients EnRoute Pro	\$ 4 999 00

\$ 599.00

Upgrade pricing from EnRoute 3 OR 4 to	EnRoute 5
3 or 4 Pro to EnRoute 5 Pro	\$ 499.00
3 or 4 Plus to EnRoute5 Plus	\$ 499.00
3 or 4 Plus to EnRoute 5 Pro	\$1,399.00
3 or 4 Pro to EnRoute 5 Pro above 5 seats	\$ CALL
Upgrade from EnRoute 5 Plus to 5 Pro	\$1,000.00

Aspire

Vectric CAD/CAM for CNC Routers & Mills

40 educational seats in a single lab or classroom

\$1,995.00

For Lathe, Mill, or Router

VCarve Pro

SURFCAM

Each Lab pack includes:

FULL commercial versions of SURFCAM

Academic Lab Packs

New Seats of Surfcam 1 User \$ 799.00 5 Users \$2,699.00 10 Users \$3,699.00 20 Users \$5,499.00 25 Users \$5,999.00 Upgrade from previous version of Surfcam and 1 year Maintenance
Upgrade 1 Educational seat of Surfcam \$400.00
Upgrade 2 Educational seats of Surfcam \$600.00
Upgrade 3 Educational seats of Surfcam \$800.00
Upgrade 4 Educational seats of Surfcam \$1,000.00
Upgrade 5 or more Educational seats of Surfcam \$1,200.00*

NOTE: ANNUAL MAINTENANCE PURCHASE REQUIRED

Rhinoceros 3D CAD only

Rhino for Students, Faculty, & Schools				
Single User	\$195.00			
Upgrade from earlier version	\$ 95.00			
Rhino/Flamingo/Penguin/Bongo Bundle	\$ 495.00			

Rhino for Schools Only

Educational Lab License \$975.00

Lab Upgrade from earlier version \$295.00

Rhino/Flamingo/Penguin/Bongo Bundle \$2,700.00

Rhino is quickly becoming a favorite in college FabLabs as well as middle schools and high schools because it is powerful, cost effective, and easy to teach. Combined with RhinoCAM below, you can easily go from design to production quickly.

RhinoCAM & VisualCAM Pro for Solidworks2,3,4,5,Mill,Turn

# Seats	ProMill or Lathe	Pro Mill & Lathe	Annual Mainte	enance M or L	Mill & Lathe	è
5 Seats	\$1,250.00	\$ 2,250.00	5 Seats	\$ 500.00	\$ 800.00	
10 Seats	\$2,250.00	\$ 3,500.00	10 Seats	\$ 700.00	\$ 900.00	
25 Seats	\$5,625.00	\$ 6,650.00	25 Seats	\$1,200.00	\$1,500.00	
50 Seats	\$7,500.00	\$15,000.00	50 Seats	\$1,800.00	\$2,100.00	
						_

Teacher Key with above Lab Pack Purchase \$600.00 **CREATE G-CODES WITH CAM IN SOLIDWORKS** RhinoCAM, VisualCam, * VisualCAM for Solidworks Campus CAM Unlimited Seats \$4,500.00 / year

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

Vector Art 1 \$299.00 over 6K imagesVector Art 3D \$499.00 Animal CollectionVector Art 2 \$299.00 over 5K imagesVector Art 3D \$299.00 WoodWork CollectionVector Art 3 \$299.00 over 6K imagesVector Art 3D \$199.00 Signmaker Collection

Curriculum and DVD Training available for all above CAD/CAM packages \$995.00 Each

www.forestscientific.com

1-800-956-4056

Laser Engraver / Cutters











FVLS 2.3 16"X12" Table Top Laser

FVLS-2.3 (16"X12") With 10 Watt Laser Able to cut .125 thick wood \$11,999.00 FVLS-2.3 (16"X12") With 25 Watt Laser Able to cut .25 thick wood \$12,999.00 FVLS-2.3 (16"X12") With 30 Watt Laser Able to cut .3 thick wood \$13,999.00

Cutting Table FVLS-2.3 \$ 499.00 Rotary Fixture FVLS-2.3 \$ 1,499.00

All VersaLasers are available in your choice of

Red, Blue, Green, Purple, or Yellow

FVLS 3.5 24"X12" Table Top Laser

FVLS-3.5 (24"X12") With 10 Watt Laser Able to cut .125 thick wood \$13,999.00 FVLS-3.5 (24"X12") With 25 Watt Laser Able to cut .25 thick wood \$14,999.00 FVLS-3.5 (24"X12") With 30 Watt Laser Able to cut .3 thick wood \$15,999.00 FVLS-3.5 (24"X12") With 40 Watt Laser Able to cut .4 thick wood \$16,999.00 FVLS-3.5 (24"X12") With 50 Watt Laser Able to cut .5 thick wood \$18,999.00

Cutting Table FVLS-3.5 \$ 699.00 Rotary Fixture FVLS-3.5 \$ 1,599.00

See Page 18 for Items to Engrave







Engrave

FVLS3.6 Free Standing Laser with Integrated cart

FVLS-3.6 (24"X12") With 25 Watt Laser Able to cut .25 thick wood \$16,999.00 \$17,999.00 \$17,999.00 \$17,999.00 \$19,999.00 \$19,999.00 \$19,999.00 \$19,999.00 \$19,999.00 \$19,999.00 \$20,999.00 \$22,999.00 \$22,999.00 \$22,999.00

Cutting Table FVLS-3.6 \$ 1,499.00 Rotary Fixture FVLS-3.6 \$ 1,915.00

Made In USA

ALL LASERS REQUIRE FUME EXHAUST

Recommended Portable blower exhaust kit for all systems \$ 500.00

Optional In-Room Filtration Systems (for when you can't vent outside)

For FVLS2.3 \$2,999.00 For FVLS3.6 or FVLS4.6 \$5,999.00 For FVLS3.5 \$3,999.00 For FVLS6.6 \$6,999.00



FVLS-4.6 (24"X18") Free Standing Laser with Integrated cart

`	,	9	•	
FVLS-4.6 (24"X18") W	ith 25 Watt Laser	Able to cut .25	thick wood	\$18,999.00
FVLS-4.6 (24"X18") W	ith 30 Watt Laser	Able to cut .3 th	nick wood	\$19,999.00
FVLS-4.6 (24"X18") W	ith 40 Watt Laser	Able to cut .4 th	nick wood	\$21,999.00
FVLS-4.6 (24"X18") W	ith 50 Watt Laser	Able to cut .5 th	nick wood	\$23,999.00
FVLS-4.6 (24"X18") W	ith 60 Watt Laser	Able to cut .6 th	nick wood	\$24,999.00

Cutting Table FVLS-4.6 \$ 1,499.00 Rotary Fixture FVLS-4.6 \$ 1,699.00

All VersaLasers are available in your choice of Red, Blue, Green, Purple, or Yellow

Software Options for a Quick Start-

Software Options for a wutch	Old	ai t.	
Corel Draw Academic	\$	110.00	(most effective, easiest to learn)
Corel Draw 50 Seat License	\$1	,795.00	(50 Seat License)
Vector Art 1 (6000 +images)	\$	299.00	(instant success)
Vector Art 2 (5000 +images)	\$	299.00	(more success options)
Vector Art 3 (6000 +images)	\$	299.00	(more success options)
1 Touch Photo Software	\$	295.00	(for the best quality photos)

Call for free **DEMO DVD** OR **ON-SITE DEMO**







Laser Marble

Cut wood

FVLS-6.6 (32"X18") Free Standing Laser with Integrated cart

	J 1 100 Ctanan		
FVLS-6.6 (32"X18")	With 25 Watt Laser	Able to cut .25 thick wood	\$21,999.00
FVLS-6.6 (32"X18")	With 30 Watt Laser	Able to cut .3 thick wood	\$22,999.00
FVLS-6.6 (32"X18")	With 40 Watt Laser	Able to cut .4 thick wood	\$23,999.00
FVLS-6.6 (32"X18")	With 50 Watt Laser	Able to cut .5 thick wood	\$24,999.00
FVLS-6.6 (32"X18")	With 60 Watt Laser	Able to cut .6 thick wood	\$26,999.00

Cutting Table FVLS-6.6 \$ 1,499.00 Rotary Fixture FVLS-6.6 \$ 1,915.00

See Page 18 for Items to Engrave







Professional & Industrial Lasers for FabLabs & Commercial Grade Usage



Professional Lasers Free Standing Laser with Integrated cart

FPLS4.75 with 75 Watt laser 1 head	24"X18" work area	\$32,999.00
FPLS6.75 with 75 Watt Laser 1 head	32"X18" work area	\$34,999.00
FPLS6.150D with 150 Watt dual 75 Watt	t lasers 1 head 32"X18" work area	\$52,999.00
FPLS6.150DSS with 150 Watt dual 75 V	Vatt lasers 2 lines simult 32"X18" work	\$54,999.00

	i i Loo. 100000 wiiii 100 wall daar 10 wall lasers 2 iirle	3 SIIIIUIL JE XIO	VVOI
	Dual Head option	\$2,799.00	
	HDPFO & Collimator	\$2,999.00	
1	Air Assist option with cone & Backsweep & Compressor	\$6,999.00	
(Cutting Table FPLS-6.6	\$1,499.00	
	Pin Table FPLS6.6	\$ 599.00	
	Rotary Fixture FPLS-6.6	\$1,999.00	
	Extended Rotary Fixture for Baseball Bats	\$2,799.00	



Professional Multi-Wave Lasers Free Standing Laser with Integrated cart

Multi-Wave lasers are able to engrave directly on bare metal as well as cut through foils including steel .01 thick

FPLSMW with 75W Co2 Laser and 40 Watt Fiber Laser 32"X18"

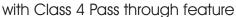
\$74,999.00

This machine with 2 lasers gives you the best of a C02 laser and the extended capabilities A Multi-Wave fiber laser.

Air Assist option with cone & Backsweep & Compressor	\$6,999.00
Cutting Table FPLS-6.6	\$1,499.00
Pin Table FPLS6.6	\$ 599.00
Rotary Fixture FPLS-6.6	\$1,999.00
Extended Rotary Fixture for Baseball Bats	\$2,799.00

Note: The models and configurations listed here are the most popular that we have offered. Pleas call with any questions because there are many other configurations available.









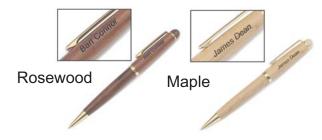
Industrial Series Lasers Free Standing Laser with Integrated cart

FILS9.75 36"X24" with 150 Watts, with cutting table, rotary, Air assist including compressor \$92,000.00 FILS12.75 48"X24" with 150 Watts, with cutting table, rotary, Air assist including compressor \$95,000.00

MISC Items For Use With Laser



Anodized pens \$1.99 Ea NTW020 Black NTW021 Red NTW022 Blue



Wood Twist Pens \$2.59 Ea WTW015 Maple Classic WTW016 Rosewood Classic

Mechanical Pencil \$3.49 Ea WHK040 Maple Classic WTW041 Rosewood Classic

Alder Sheets

WUS 083 4" X 12"X 3/32" Thick \$49.99 WTH 025 4" X 12"X 1/4" Thick \$69.99 WTH 024 4" X 24"X 1/8" Thick \$89.99

Assortments to get you off to a quick start

With many items you can sell to raise funds these kits can generate 3X their cost or more Intro. Laser materials kit 595.00 Standard Laser materials kit \$ 1,595.00 Expanded Laser materials kit \$ 2,995.00



Pen Boxes

WHK044 Maple Double Pen Box \$4.99 WHK045 Rosewood Double Pen box \$5.99 WHK119 Rosewood Single Oval Pen Box \$5.49 WHK118 Maple Single Oval Pen Box \$4.49 SUS018 Cermark metal marking 250G \$149.00



Cermark

SUS030 Cermark metal marking spray can \$99.00



Anodized Aluminum Tags for use with Laser

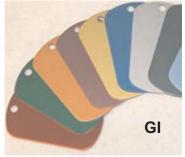


Purple

Tags are available in lots of 50. You can mix styles and colors to get to a total quantity discount. (ie. If you get 250 purple color and 250 black the total is 500.)



.95 ea 100-250 .90 ea 300 +.75 ea









Silver

Green















Camo in GI Style dog tag only.

		Nick	
½" Split	Ring	s 24" Ball	chain
50	.20	50	.75 ea
100-250	.18	100-250	.65 ea
300+	.16	300	.60 ea

Color 24" Ball Chair (same as tags) 50 .85 ea 100-250 .75 ea .65 ea 300 +







CNC Accessories

Most common educational use excerpts from our tooling catalog

Part # Cutting Shank Length Price

Dia Dia

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" \$35.00

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) 1-1/2" \$34.00 31-VSC3dfn-500 2 flute 1/64" 1/8" 1/8" 31-VSC3dbn-500 2 flute 1/64" 1-1/2" \$38.00 1/8" 1-1/2" \$20.00 31-VSC3dfn-503 2 flute 1/16" 1-1/2" \$22.00 31-VSC3dbn-503 2 flute 1/16" 1/8" 1/8" 1-1/2" \$23.00 31-VSC3dfn-501 2 flute 1/32" 1/8" 1-1/2" \$24.00 31-VSC3dbn-501 2 flute 1/32"

Down Spiral bits (prevent chipping on top) 49-SRD203 1/8" 1/4" 2" \$25.00 2" 49-SRD218 1/4" 1/4" \$25.00 3" 1/2" 1/2" 49-SRD253 \$49.00

Plungable round over bits 49-SE1568 1/8" radius 1/4" 2" \$19.00 49-SE1572 1/4" radius 1/4" 1/4" 2" \$22.00 1/2" 1/2" 49-SE1580 3/8" radius 2-1/4" \$26.00 1/2" 1" 49-SE1582 1/2"radius 2-1/4" \$29.00

Compression up/down spiral

Item # Α В \$ Shank 24-107-0402 1/4" 7/8" 1/4" \$38.00 24-107-0815 1/2" 1-1/8" \$67.00 Mitey Series Accessories Mill 41-7402 1/8 End Mill 3/8 shank 19.00 3/16 End Mill 3/8 shank 41-7403 \$ 19.00 A 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

\$ 19.00					
\$ 19.00					
\$ 24.00					
\$ 95.00					
\$ 75.00					
Specialty Router Tooling					
\$495.00					
\$ 89.00					
\$ 19.00					
\$249.00					

\$249.00

Individual 3-D Router Bits

Part #	Cutting Dia	Shank Dia	Length	Price
49-SRU103 (Flatnos	se) 1/8"	1/4"	2"	\$39.00
49-SBNU125 (Ballnos	sé) 1/8"	1/4"	2"	\$39.00
49-SRU123 (Flatnos	e) 1/4"	1/4"	3"	\$39.00
49-SBNU250 (Ballnos	e) 1/4"	1/4"	2-1/2"	\$39.00
31-SPCLE250 (Ballnos		1/4"	4"	\$79.00
49-SRU153 (Flatnos	se) 1/2"	1/2"	3"	\$49.00
49-SRU167 (Flatnos	se) 1/2"	1/2"	4"	\$69.00
49-SBNU500 (Ballnos	e) 1/2"	1/2"	3"	\$79.00
31-SPCLE500 (Ballno		1/2"	4"	\$89.00
LIOD 8 ATO	T		S - 11 - 4 -	

HSD & ATC Tool Holders & Collets						
52-A1741H0001	\$275.00					
52-7501A9300	ISO 30 tool forks	\$150.00				
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-G	roove bit	CUT DIA	Shank	
49-SLIN062	10 Degree	1/16"	1/4"	\$35.00
24-132-9002	60/90 Double	ended b	oit 1/4"	\$50.00
49-SCVG260	90 Degree	1/4"	1/4"	\$18.00
49-SCVG264	60 Degree	1/4"	1/4"	\$16.00
49-SE1502	90 Degree	1/2"	1/4"	\$19.00
49-SE1503	90 Degree	1/2"	1/2"	\$21.00
49-SE1560	60 Degree	1/2"	1/2"	\$21.00

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" to1/8" Collet reducer	\$23.00			
49-SE6390 1/2" to1/8" Collet reducer	\$17.00			

CNC Router/Wood Lathe Accessories

Vacuum Table Gasketing / hold down supplies \$89.00 Router Gasket (Forest Scientific Vac pump 11-800 \$89.00 Router Gasket (softer for Venturi Magnum routers) 11-801 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	\$ 99.0	00
Universal Carbide Cutter	(magnum)	28-700	\$125.0)0
HSS Cutter Big Lathe	(magnum)	28-720	\$120.0	00
HSS Cutter Small Lathe	(magnum)	28-735	\$120.0)0
Modify HSS holder for car	rbide	11-901	\$180.0	0

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

57-Diamond Drag Engraving Bit 1/2" Shank

STEM Revolution



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http://www.guitarbuilding.org/



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