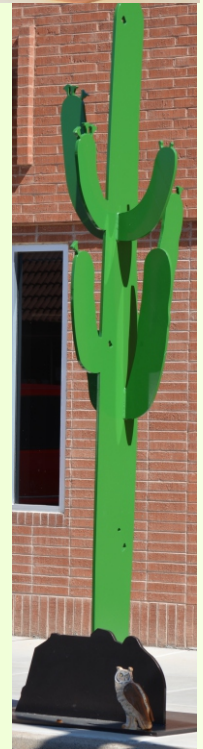




**CNC ROUTERS
LASER ENGRAVER CUTTERS
CNC MILLS & CNC LATHES
CNC PLASMA CUTTERS
CAD/CAM SOFTWARE
REPAIRS & UPGRADES OF ALL CNC**



**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 our Phoenix training center, 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 **Our CNC controls connect to the computer via USB** or Cat 5, not outdated parallel port, serial port, ISA ports, or other port that require a DOS or other outdated computer.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 the students from Buckeye High School in Arizona on the front cover of this years catalog. Their work can be found throughout Historic Buckeye.

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 center in Phoenix. We also hold special sessions at many of the conferences and regionally at customer sites. There is no excuse for anyone not to be able to run a Forest Scientific CNC machine. 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, 24 month on-site parts & labor 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 call or text my cell +1-412-726-0574. If I do not answer I will call as soon as I have coverage again.

Sincerely,

John E. Martincic
President, CEO
sales@forestscientific.com



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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

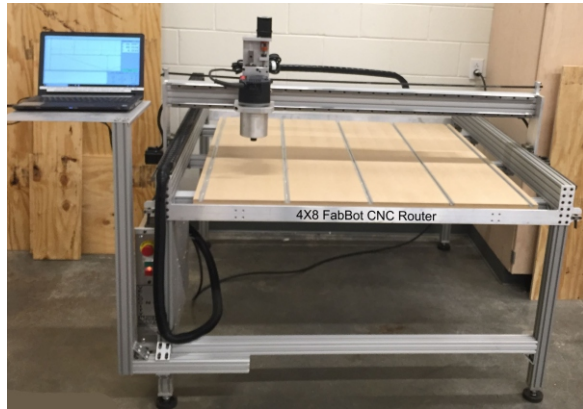
These machines come with a 3 year limited warranty, personalized online training, and control computer, unlimited phone and on line tech support.



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 24" x 18" x 6"	\$7,499.00
Optional enclosure w/stand for 24"X18"	\$1,799.00
Optional removable Vac Table Sys	\$1,999.00
FabBot 36" x 24" x 6"	\$8,499.00
Optional enclosure w/ stand for 36"X24"	\$1,999.00
Optional removable Vac Table Sys	\$2,499.00



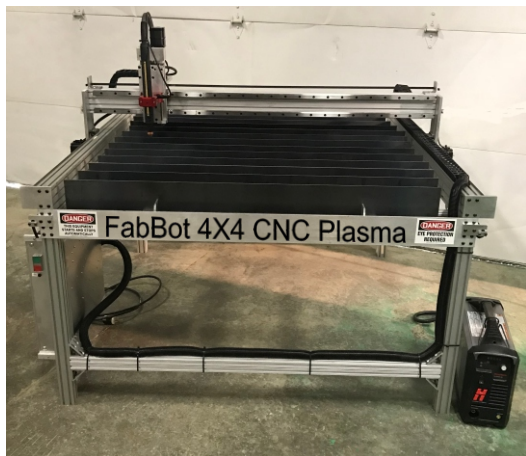
FabBot Platform Series CNC Router Models

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 through 36" door)	\$ 9,999.00
FabBot 48" x 48"	\$11,999.00
FabBot 48" x 96"	\$13,999.00

Optional

MDF w/Aluminum T Slot & Clamps 4x4	\$ 799.00
MDF w/Aluminum T Slot & Clamps 4x8	\$ 999.00
Upgrade to 3-1/4 HP Router	\$ 250.00
Upgrade to 1HP 110V High Freq spindle	\$1,500.00
Upgrade to closed loop Servo version	\$1,999.00



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

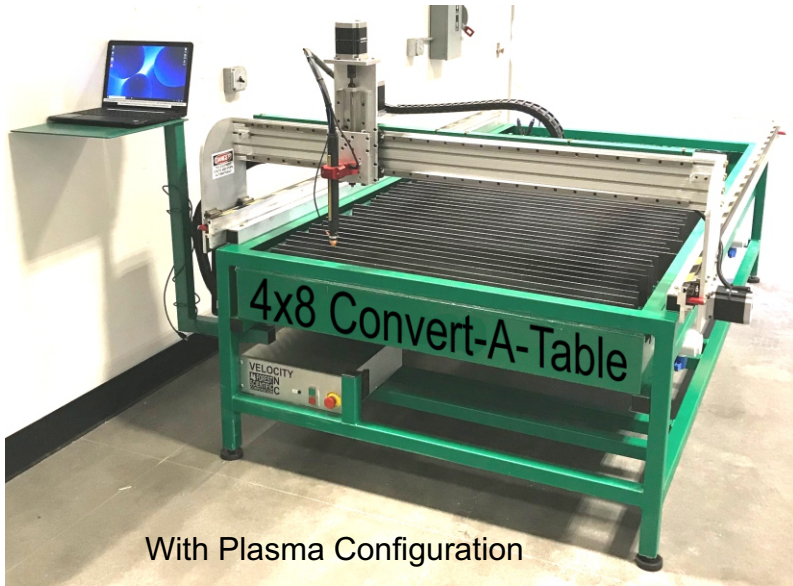
The floor space is about 2' larger than the work area.

FabBot 48" x 20"(fits through 36" door)	\$12,999.00
FabBot 48" x 48"	\$13,999.00
FabBot 48" x 96"	\$15,999.00

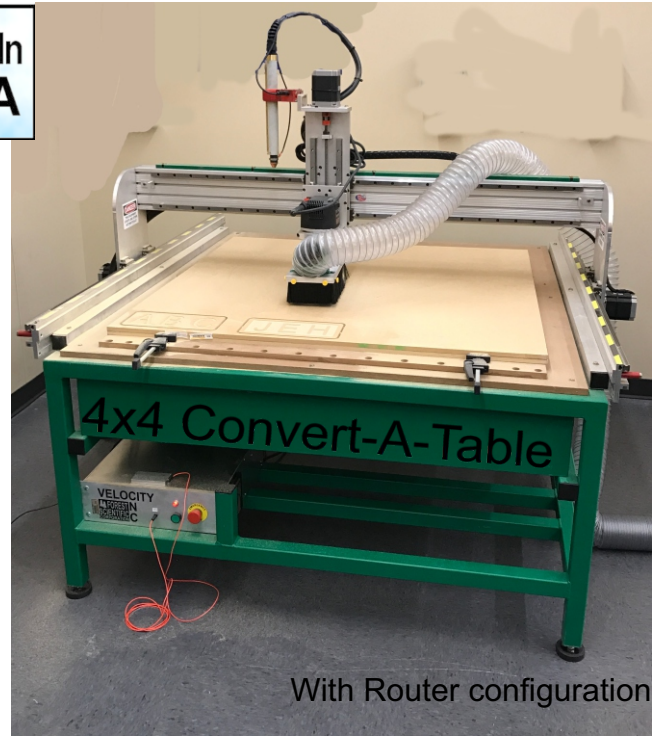
Hypertherm Plasma Cutters Upgrades

Powermax 45	Pierce 1/2" steel and cut up to 7/8"	Comes standard - Best option for most schools
Powermax 65	Pierce 5/8" steel and cut up to 1"	\$1,000.00 upgrade
Powermax 85	Pierce 3/4" steel and cut up to 1-1/2"	\$2,000.00 upgrade
Powermax 105	Pierce 7/8" steel and cut up to 2"	\$4,000.00 upgrade
Optional Torch Break Away		\$ 799.00 upgrade

Convert-A-Table PLASMA CUTTER / ROUTER



With Plasma Configuration



With Router configuration

Convert-A-Table CNC Router / Plasma Models

CAT 24" x 20" (fits through 36" door)	\$19,999.00
CAT 48" x 20" (fits through 36" door)	\$23,999.00
CAT 48" x 48"	\$26,999.00
CAT 48" x 96"	\$29,999.00
CAT 60" x 120"	\$32,999.00

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 240V/50A, 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.

FabLab or MakerSpace in a Box \$49,999.00

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

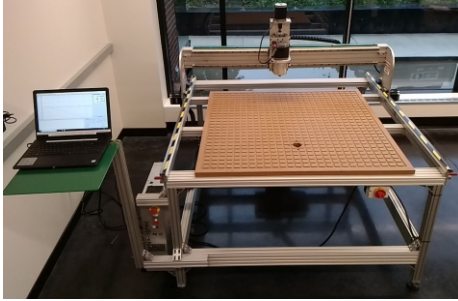
Most popular CNC Routers *The most common models used in education*

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.

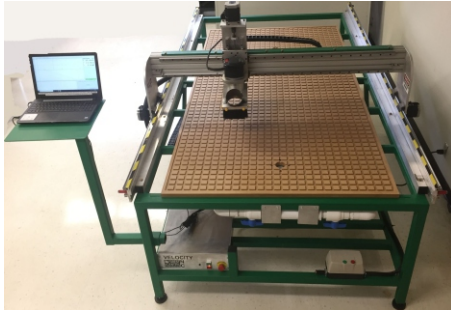
TitanR 24" x 20"(fits through 36" door)	\$11,999.00
TitanR 48" x 20"(fits through 36" door)	\$13,999.00
TitanR 48" x 48"	\$16,999.00
TitanR 48" x 96"	\$19,999.00
TitanR 60" x 120"	\$24,999.00



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)	\$14,999.00
RMF 48" x 20"(fits through 36" door)	\$16,999.00
RMF 48" x 48"	\$19,999.00
RMF 48" x 96"	\$23,999.00
RMF 60" x 120"	\$28,999.00



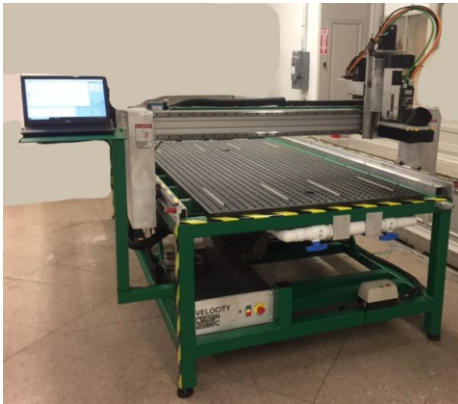
HS Series Router Models

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"	\$19,999.00
HS 48" x 24"	\$21,999.00
HS 48" x 48"	\$25,999.00
HS 48" x 96"	\$29,999.00
HS 60" x 120"	\$33,999.00
HSFV-ATC 4' x 4' with 5HP & 8 position ATC	\$41,999.00
HSFV-ATC 4' x 8' with 5HP & 8 position ATC	\$45,999.00
HSFV-ATC 5' x 10' with 5HP & 8 position ATC	\$49,999.00



Optional Upgrades:

Vacuum Table systems includes pump & Table

24X24 Vac System upgrade 110V	\$2,500.00
48X24 Vac System upgrade 110V	\$3,500.00
48X48 Vac System upgrade 220V3PH	\$4,500.00
48X48 Vac System upgrade 110V	\$6,500.00
48X96 Vac System upgrade 220V3PH	\$5,000.00
48X96 Vac System upgrade 110V	\$8,500.00
60X120 Vac System upgrade	\$8,000.00
If Vac Table Sys added later add	\$1,500.00

6" Fourth Axis	\$4,999.00
Jog Pendant	\$ 599.00

Aluminum T-Slot Table

48X20 or 24 T-Slot Table upg.	\$ 1,395.00
48X48 T-Slot Table upgrade	\$ 2,495.00
48X96 T-Slot Table upgrade	\$ 3,100.00
60X120 T-Slot Table Upgrade	\$ 4,300.00

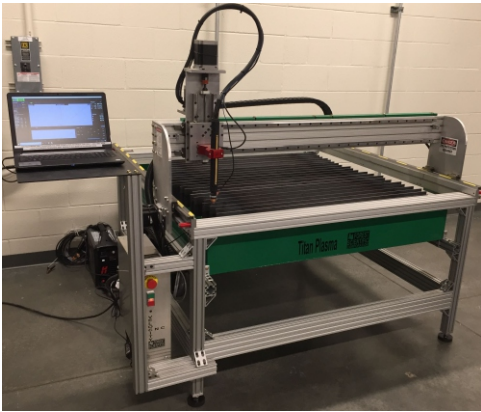
Note: High Frequency spindles are quieter and ideal if you plan .to cut metals.

Spindle upgrades

2.2HP 1PH High Freq. spindle	\$ 2,500.00
5HP 3 PH High Freq. spindle	\$ 3,500.00
10HP 3 PH High Freq. spindle	\$ 5,900.00
5HP Manual quick change Spindle	\$10,500.00

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

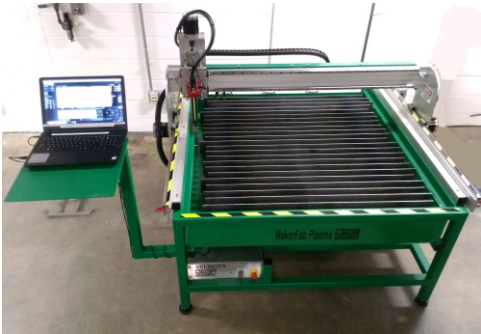
Each of the CNC Plasma cutters below include a Torch Break Away system, Automatic Torch Height, integrated water table, CAD/CAM software, Hypertherm 45 Plasma system, and control computer with arm for a Turn-Key package just plug into your electric.



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 through 36" door)	\$15,999.00
TitanP 48" x 20"(fits through 36" door)	\$17,999.00
TitanP 48" x 48"	\$19,999.00
TitanP 48" x 96"	\$22,999.00
TitanP 60" x 120"	\$24,999.00



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 through 36" door)	\$18,999.00
PMF 48" x 20"(fits through 36" door)	\$21,999.00
PMF 48" x 48"	\$24,999.00
PMF 48" x 96"	\$27,999.00
PMF 60" x 120"	\$29,999.00



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"	\$24,999.00
HSPB 48" x 24"	\$26,999.00
HSPB 48" x 48"	\$29,999.00
HSPB 48" x 96"	\$33,999.00
HSPB 60" x 120"	\$36,999.00

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

Hypertherm Consumable Packages SEE PAGE 14

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	\$1,000.00 upgrade	<i>Require 10 SCFM</i>
Powermax 85	Pierce 3/4" steel and cut up to 1-1/2" cut	\$2,000.00 upgrade	<i>@ 90 PSI compressed Air</i>
Powermax 105	Pierce 7/8" steel and cut up to 2" cut	\$4,000.00 upgrade	(Requires 480V)

Options:

8" pipe Cutter 4th Axis with Advanced pipe Cutting Software	\$7,500.00	Plate Marker	\$2,597.00
HVAC CAD/CAM stand alone	\$6,000.00	with a machine	\$2,500.00

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"



Includes Vacuum table system & Dust collection system

TOOLING

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

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" \$22,999.00

Michelangelo Servo Version X=35" Y=13.5" Z=8.5" \$24,999.00

Michelangelo Pro X=35" Y=20" Z=8.5" \$29,999.00

**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 \$16,999.00

LuthierMax Options:

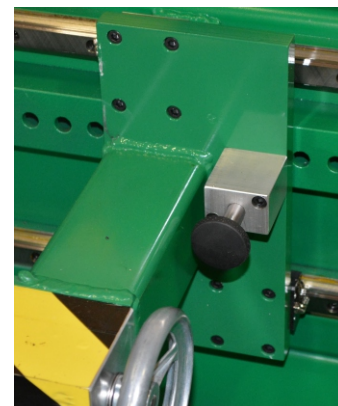
Vacuum Table System \$3,500.00
 Guitar Making Class Start up kit \$2,999.00
 Guitar Making CNC Bit Kit \$500.00

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	Standard Stepper 120V 20A	\$ 26,999.00	
WL4000HY	Hybrid Servo 120V 20A	\$ 28,999.00	
WL4000PRO (faster & 5HP 3PH)	220V 30A 3PH	\$ 37,999.00	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	\$20,995.00
2'X20"-5 HP Spindle	\$23,999.00
2'X20"-10 HP Spindle	\$25,999.00
2'X20"-5 HP ATC Spindle with 4 Position ATC	\$34,999.00

Options:

6"-4th Rotary Axis	\$ 4,999.00
3D Rapid prototype CAD/CAM	\$ 299.00
Enclosure	\$ 4,999.00

Optional accessory kit \$1,999.00 includes Collet Set Assortment of End Mills, 6" Vise, Hold Down Set

MITHEY SERIES

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

MITHEY 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 \$ 9,999.00
 MMHY Hybrid Servo Standard version \$10,999.00

Mitey Mill Options:

4" Vise \$ 295.00
 4" 4th Axis \$2,999.00
 10K RPM Spindle \$ 300.00

MITHEY 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 \$ 9,999.00
 MLHY Hybrid Servo Standard Version \$10,999.00

Mitey Lathe Options:

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

MITHEY WOOD LATHE

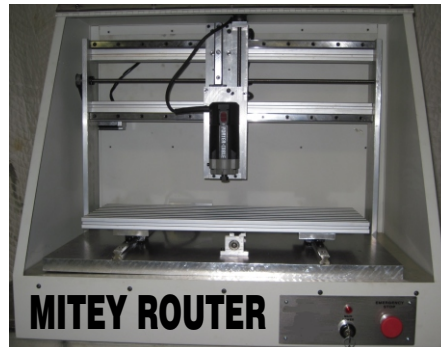
18"X 4" Capacity
 (45 X 10 cm)
 110V 20A



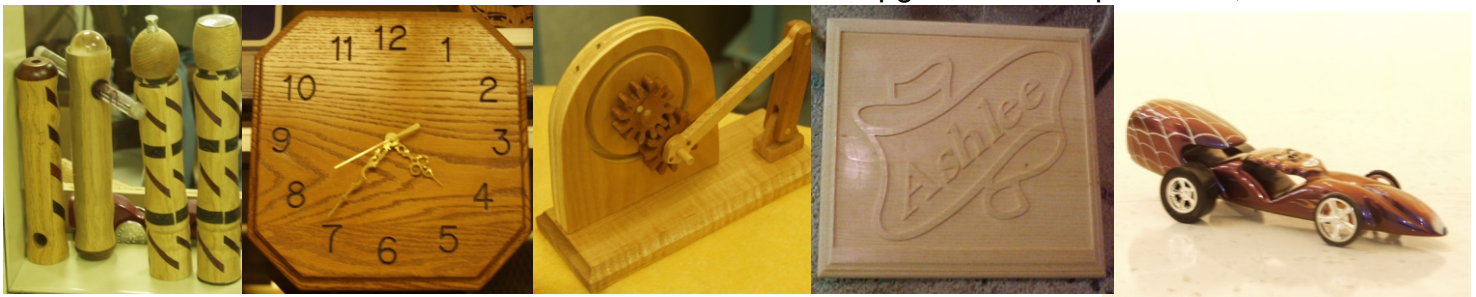
MWLS Stepper Version \$9,999.00
 MWLHS Hybrid Servo \$11,999.00

MITHEY ROUTER

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



MRLS Stepper Version \$9,999.00
 MRLHS Hybrid Servo \$11,999.00
 Upgrade to HF Spindle \$1,500.00



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 \$5,999.00



D&M 3 or 4 & Lab Volt 5400 Mills
VC-DMM34 Upgrade \$5,999.00

D&M 3, 4, or Lab Volt 5300 Lathe
VC-DML34 Upgrade \$5,999.00



D&M 5 or Lab Volt 5500
VC-DML5
Upgrade \$6,999.00



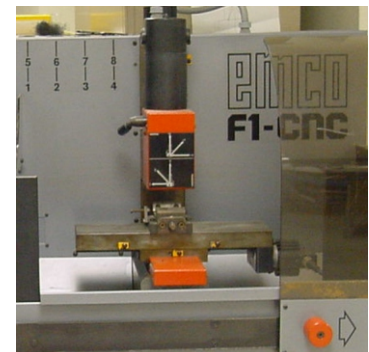
D&M 5, 6 or Lab Volt 5600
VC-DMM5
Upgrade \$6,999.00



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 \$5,999.00



All Denford MicroMills,
Scantek, LabVolt, B&G,
& Midwest
VC-DFMM
Upgrade \$5,999.00

All Denford MicroLathes,
Scantek, LabVolt, B&G,
& Midwest
VC-DFML
Upgrade \$5,999.00

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 1/2 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.

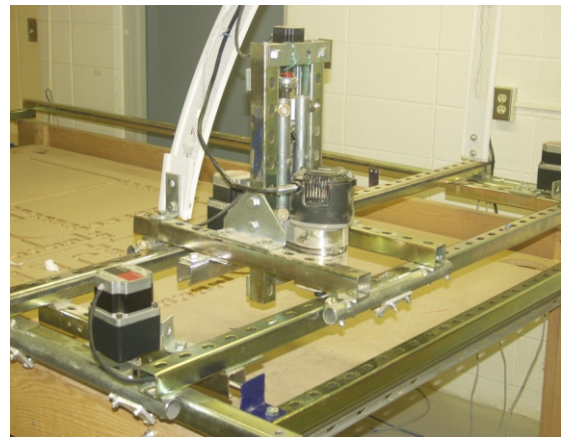
Upgrade Older Forest Scientific Velocity based Controls	\$2,900.00
Upgrade Older Forest Scientific Centroid based controls	\$8,995.00



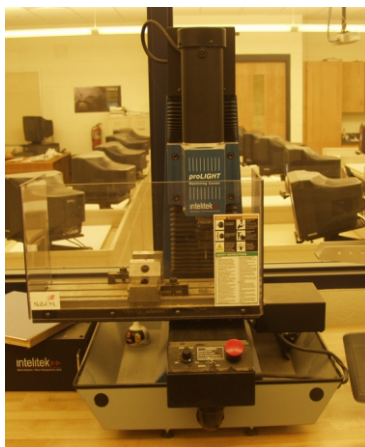
Light Machines
CNC Router
VC-LMCR
Upgrade \$6,499.00



Light Machines
Spectralight Mill
or Spectralight Lathe
Upgrade \$5,999.00



All Shopbot Routers
VC-SHOPB Upgrade \$5,999.00
OR
VC-SHOPBCL \$7,999.00 for Closed loop version



Light Machines
Pro Light Lathe or Mill
VC-PL
Upgrade \$6,499.00
ProLight with ATC \$7,999.00



All Techno Routers
Gantry style & Davince
Under 2'X2'
VC-Techno
Upgrade \$5,999.00
Servo \$7,999.00

Techno LC Servo Routers	\$7,999.00
Techno Plasma cutters	\$9,999.00

XYZ Millenium Routers	\$7,499.00
XYZ 4x4 & 4x8 Routers w/o ATC	\$8,999.00
XYZ 4x4 & 4x8 Routers with ATC	\$9,999.00

EZROUTER, PlasmaCAM, & Torchmate upgrades without ATH	\$5,999.00
with ATH if existing plasma is adequate	\$7,999.00
Complete with ATH & Powermax 45XP	\$9,999.00

Optional Preloaded Notebook computer \$ 999.00

**IF YOU DO NOT SEE IT
HERE CALL FOR HELP**

Hypertherm Powermax Consumables

Essentials consumables kits

851512	Powermax 45 XP Essential consumables kit	\$239.00
851467	Powermax 65 Essential consumables kit	\$250.00
851470	Powermax 85 Essential consumables kit	\$250.00
851473	Powermax 105 Essential consumables kit	\$254.00
851476	Powermax 125 Essential consumables kit	\$286.00



PowerMax 45 -85 Cutting Consumables

220857	Swirl Ring 45-85A	\$ 23.80
220953	Ohmic retaining Cap 45-105A	\$ 49.00
220817	Shield 45-85A	\$ 19.90
228763	Bulk pack of 10 220817 Shields	\$189.00



Fine Cut

220947	SWIRL RING:PMX FINECUT	\$ 22.20
220948	SHIELD:PMX FINECUT MECHANIZED	\$ 16.00
220930	Nozzle Fine Cut 30-45A 5 Pack	\$ 39.90
220842	Standard Electrode 45-105 5 Pack	\$ 53.00
228767	Bulk pack of 25 220842 standard electrodes	\$239.00
220777	Copper Plus Long life Electrode 5 Pack	\$ 58.50
228934	Bulk pack of 25 220777	\$272.00



Powermax 65

220819	Nozzle 45-65A 5 Pack	\$ 39.50
228759	Bulk pack of 25 220819 nozzles	\$189.00



PowerMax 85

220816	Nozzle 65-85A 5 Pack	\$ 39.50
228760	Bulk pack of 25 220816	\$179.00

Powermax Cutting Consumables Estimated Annual Supply

11-4500	Powermax 45 XP consumables kit	\$499.00
11-6500	Powermax 65 Essential consumables kit	\$499.00
11-8500	Powermax 85 Essential consumables kit	\$499.00
11-1050	Powermax 105 Essential consumables kit	\$499.00



Powermax 45XP Only Marking consumables

420542	Shield	\$ 18.00
420415	Nozzle	\$ 8.00



Powermax 45XP Marking examples

These consumables are commodities subject to price variation.



5 Stage Desiccant Drying System
\$999.00

Dust Control Computer Security Cabinet
\$999.00



Dust Collector Package Includes dust collector 100' hose 4 clamps \$999.00



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	1/2"	1/2"	2-1/2"	\$35.00

Economy Upspiral Flat bottom end mill				
Part #	Cutting Dia	Shank Dia	Length	Price
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)				
Part #	Cutting Dia	Shank Dia	Length	Price
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)				
Part #	Cutting Dia	Shank Dia	Length	Price
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				
Part #	Cutting Dia	Shank Dia	Length	Price
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	1/2"	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"	1/2"	\$67.00

Mitey Series Accessories				
Mill				
Part #	Description	Price		
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				
Part #	Description	Price		
56-D2	Razor Cardboard cutter	\$495.00		
57-Pen	Router Bit with pens 1/2" Shank	\$ 89.00		
57-Rep	Replacement Pen set	\$ 19.00		
57-Dia	Diamond Drag Engraving Bit 1/4" Shank	\$249.00		
57-Dia	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		
Part #	Description	Price
52-A1741H0001	ISO30 ATC Tool Holder	\$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-Groove bit				
Part #	CUT DIA	Shank	Price	
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"	\$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		
Part #	Description	Price
49-spoil-25	2-spoil 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		
Part #	Description	Price
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		
Part #	Description	Price
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		
Part #	Description	Price
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		
Part #	Description	Price
Replacement Venturi 29-NZH113BS-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

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	\$499.00	Additional Educational Lab Licenses	\$CALL
Upgrade from earlier version	\$ CALL	Mastercam University	\$CALL

EnRoute, for Routers, Plasmas, & Mills

Classroom License - Please specify how many stations

Classroom License of EnRoute 6

EnRoute Plus with kerf comp 2D	\$ 1,299.00
EnRoute Pro with kerf comp 3D	\$ 1,999.00

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

3, 4, or 5 Pro to EnRoute 6 Pro	\$ 599.00
3, 4, or 5 Plus to EnRoute6 Plus	\$ 599.00
3, 4, or 5 Plus 2D to EnRoute 6 Pro 3D	\$1,399.00
Upgrade from EnRoute 6 Plus to 6 Pro	\$1,000.00

Vetric CAD/CAM for CNC Routers & Mills 40 educational seats in a single lab or classroom

2D Products

Cut2D Desktop for 2x2 or smaller work area	\$ 199.00
VCarve Pro	\$ 699.00
Aspire	\$1,995.00

3D Products

PhotoVCarve	\$ 199.00
Cut3D	\$299.00
Upgrades	CALL

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Vector Art 1 over 6K images	\$ 199.00
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Vector Art 3 over 6K images	\$ 199.00
PlasmaArt Collection	\$ 199.00

3D Products

Vector Art 3D Animal Collection	\$ 499.00
Vector Art 3D Flourishes and Ornaments	\$ 399.00
Vector Art 3D Symbols & Icons	\$ 399.00
Vector Art 3D Dasch's fine cuts	\$ 399.00

CorelDraw Academic Current Version

For Lasers

CorelDraw Single seat	\$150.00 Each	Corel Draw 50 Seat License	\$1,799.00
Corel Draw 100 Seat License	\$2,499.00	Corel Draw 250 Seat License	\$3,999.00



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Cut:
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Copper
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Cut Steel Faster than a WaterJet
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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	\$39,999.00
CRP3618	36" X 18" Y	\$49,999.00
CRP48X24	48" X 24" Y	\$59,999.00
Optional in room filtration system		\$ 7,999.00
Optional ultra quiet dry air compressor		\$ 3,999.00
Converter to run 45 A Plasma on 110V		\$ 495.00

Perfect for an Engineering Lab

Capabilities:

Near laser quality fine cutting up to 1/4" steel
Able to cut up to 7/8" steel
Low resolution metal marking



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