



**CNC ROUTERS
CNC PLASMA CUTTERS
LASER ENGRAVER CUTTERS
CNC MILLS & CNC LATHES
WATERJET
CAD/CAM SOFTWARE**



**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 **Our CNC controls connect to the computer via USB or Cat 5**, not outdated parallel port, serial port, ISA ports, or other port that require a DOS or other outdated computer. **Do not assume that the technology is current.** Most of the companies that you get the most mail from are very out of date.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 USA, **Precision NSK or 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 edition of our catalog. Thriving through the age of Covid we have all needed to make changes and adapt. Prior to that time our mobile maker spaces were used to share equipment between schools, recruitment of students into more advanced programs, and other outreach programs. During Covid mobile maker spaces allowed for social distancing and made it possible to work in a safer outdoor environment. In some communities after school programs were able to stay active. We can equip your van or trailer, or provide a turnkey package ready to use. Some trailers and vans are set up to work in, while others are designed primarily for transporting equipment. Factors affecting how they are used include the climate, how long the equipment will be in any one place, and the focus of it's use.

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. Forest Scientific Corporation provides a 36 month single source, on-site parts & labor warranty on all new machines we manufacture unless otherwise noted, a 24 month on-site parts & labor warranty on all Lasers, and an 18 month on-site warranty on all upgrades and used machines. We provide on-site training and Project Based curriculum. 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.

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Sincerely,

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

A+



*All pricing & specifications subject to change without notice
This Catalog pricing effective 10/1/2023*

www.forestscientific.com

Call for more information on 3D printers
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1-800-956-4056

3

FabBot Desktop Routers

Precision CNC Machines For Demanding Applications

These machines come turn-key with a 3 year limited warranty, control computer, and unlimited phone and online tech support.



FabBot Desktop Series CNC Router Models

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



FabBot1414 with mobile Maker Cart

FabBot Micro 9" x 9" x 3" 229 x 229 x 76mm	\$4,999.00
Optional safety Shield 9" x 9"	\$ 499.00

FabBot 14" x 14" x 6" 355 x 355 x 76 mm	\$6,999.00
Optional safety enclosure 14" x 14"	\$1,499.00
On Mobile Maker Cart with enclosure	\$1,999.00

FabBot 24" x 18" x 6" 609 x 457 x 76mm	\$7,999.00
Optional enclosure w/stand for 24"X18"	\$2,999.00
Optional removable Vac Table Sys2418	\$3,999.00

FabBot 24" x 24" x 6" 609 x 609 x 76mm	\$8,999.00
Optional enclosure w/stand for 24"X24"	\$2,999.00
Optional removable Vac Table Sys 2424	\$3,999.00

FabBot 36" x 24" x 6" 914 x 609 x 76mm	\$9,999.00
Optional enclosure w/ stand for 36"X24"	\$2,999.00
Optional removable Vac Table Sys3624	\$3,999.00



Options

Upgrade to 1.5HP 110V High Freq spindle	\$2,100.00
Dust control system with Dust shoe, hose and Vacuum	\$1,499.00
Rotary fourth Axis	\$3,999.00
Wireless Jog Pendant	\$ 599.00

FEATURES

- | | |
|---|--|
| * Constructed NSK Linear Rails & Bearings | * Runs Industry Standard G-Codes |
| * Fully assembled machine | * On-Screen Simulation |
| * Heavy duty construction | * Compatible with most CAD/CAM Systems |
| * 3-D 3-Axis with Continuous Contouring | * Optional Dust hood |

FabBotATC Router

FEATURES

- * Constructed NSK Linear Rails & Bearings
- * Fully assembled machine
- * Heavy duty construction
- * 3-D 3-Axis with Continuous Contouring
- * Runs Industry Standard G-Codes
- * On-Screen Simulation
- * Compatible with most CAD/CAM Systems
- * Optional Dust hood



\$20,999.00

**TurnKey
Package with:
Stand
Enclosure
Computer**

APPLICATIONS

- * Sign Making
- * Plastics Fabrication
- * Furniture Making
- * Model Making
- * Education



FabBot ATC 38X24X6 ATC with 1.5 HP High Freq ATC Spindle and 6 pos ATC

Usable work area
38"X24"X6" 965mm X 610mm X152mm

Utility Requirements
110V AC 20A or 240V 10A
90 PSI Compressed Air

Options:

6" Rotary 4th Axis	\$3,999.00
Vacuum Table With Vacuum pump	\$3,999.00
Digital Reverse engineering probe	\$2,999.00
Wireless Handheld MPG Jog pendant	\$ 599.00
Quiet Air Compressor	\$ 799.00
Dust Collection System	\$1,499.00
Custom sizes and spindles	\$ CALL

CNC Routers

Most popular models in schools and smaller shops

All pricing and specifications subject to change without notice.



FabBot Platform Series Router Models

Each of the Fully assembled CNC Routers below include Control Computer, CAD/CAM software, tooling set, MDF Table with Aluminum T Slots, Clamping system, curriculum, 1-1/4 HP Router, wrenches operates on 110V 20A
The floor space is about 2' larger than the work area.

FabBotR 48" x 20" CNC Router	\$10,999.00
FabBotR 48" x 48" CNC Router	\$12,999.00
FabBotR 48" x 96" CNC Router	\$14,999.00

(ALL 20" Models fit through standard 36" door)

Key Points:

- *Entry Level economy system
- *Can make anything that higher end can make
- *Easiest model to get up stairs due to lighter weight with structural aluminum
- *Complete Turnkey package
- *Best in it's comparable price class
- * Most popular for those on a tight budget
- *Single Source 3 year, on-site, parts & labor warranty



4th Axis Example

The 4th Axis allows the user to wrap a 2D or 3D image around the material or replicate a part the would usually require a lathe.

Titan Series Router Models

The Titan Routers are cost effective heavy duty machines made of structural aluminum. 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. Includes Control Computer, CAD/CAM software, tooling set, MDF Table with Aluminum T Slots, Clamping system, curriculum, 3-1/2 HP Router, wrenches, operates on 110V 20A

TitanR 24" x 20" CNC Router 609x508mm	\$12,999.00
TitanR 48" x 20" CNC Router 1220x508mm	\$15,999.00
TitanR 48" x 48" CNC Router 1220x1220mm	\$17,999.00
TitanR 48" x 96" CNC Router 1220x2438mm	\$19,999.00
TitanR 60" x 120" CNC Router 1524x3048mm	\$26,999.00

Optional upgrade to 5HP ATC ADD \$17,000.00
spindle with 6 position ATC requires 208-240V 3PH

Key Points:

- Heavier Duty than FabBot with larger structural alum.
- *Can be disassembled for smaller doors & take upstairs
- *Comparable features to MakerFab except AL frame
- *Complete Turnkey package
- *Best in it's comparable price class
- *Tutorials available
- *True 3D with continuous contouring
- *Single Source 3 year, on-site, parts & labor warranty



Maker-Fab Series Router Models

The Maker-Fab Routers are cost effective heavy duty machines made of a welded steel frame with 2" tubular steel. The extra rigidity is great for handling the abuse of students and will last for years. Includes Control Computer, CAD/CAM software, tooling set, MDF Table with Aluminum T Slots, Clamping system, curriculum, 3-1/2 HP Router, wrenches, operates on 110V 20A

RMF 24" x 20"	CNC Router	\$16,999.00
RMF 48" x 20"	CNC Router	\$19,999.00
RMF 48" x 48"	CNC Router	\$22,999.00
RMF 48" x 96"	CNC Router	\$25,999.00
RMF 60" x 120"	CNC Router	\$31,999.00

Key Points:

- *Can make anything that higher end can make
- *Heavy Duty Welded Structural Steel construction
- *Complete Turnkey package
- *Best in it's comparable price class
- *Most popular series high school intro wood shop
- *True 3D with continuous contouring and smoothing
- *Auto Z sensing for part zero
- *Unlimited file size for complex 3D parts
- *Homing sensors X,Y,& Z Axis for a machine home
- *Single Source 3 year, on-site, parts & labor warranty

Vacuum Table systems includes pump & Table

24X24 Vac System upgrade 110V	\$3,000.00
48X24 Vac System upgrade 110V	\$4,500.00
48X48 Vac System upgrade 220V3PH	\$6,000.00
48X48 Vac System upgrade 110V	\$8,500.00
48X96 Vac System upgrade 220V3PH	\$7,000.00
60X120 Vac System upgrade	\$9,000.00
If Vac Table Sys added later add	\$1,500.00

Other Options

3D Digitizing probe	\$2,999.00
6" Fourth Axis	\$4,999.00
Wireless Jog Pendant	\$ 599.00
Desiccant Dryer System for ATC's	\$ 999.00



HS Series Router Models

The HS-Series Routers are heavier duty machines made with a larger tubular welded steel framewith 3" tubular steel. 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. Includes Control Computer, CAD/CAM software, tooling set, MDF Table with Aluminum T Slots, Clamping system, curriculum, 3-1/2 HP Router, wrenches, operates on 110V 20A

HSR 24" x 24"	CNC Router 609x609mm	\$21,999.00
HSR 48" x 24"	CNC Router 1220x609mm	\$24,999.00
HSR 48" x 48"	CNC Router 1220x1220mm	\$29,999.00
HSR 48" x 96"	CNC Router 1220x2438mm	\$32,999.00
HSR 60" x 120"	CNC Router 1524x3048mm	\$36,999.00

Key Points:

- *Complete Turnkey package
- *All of the features of the Maker-Fab
- *Closed Loop Hybrid Servos for Fastest Reliable Cut
- *Heaviest Duty Welded Structural steel under \$50K
- *Most popular robotics, CTE and commercial use
- *Faster output of 3D and Complex Cabinet Parts
- *Single Source 3 year, on-site, parts & labor warranty

Aluminum T-Slot Table

48X20 or 24 T-Slot Table upg.	\$ 2,900.00
48X48 T-Slot Table upgrade	\$ 4,500.00
48X96 T-Slot Table upgrade	\$ 5,900.00
60X120 T-Slot Table Upgrade	\$ 6,500.00

Spindle upgrades

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

Automatic Tool Changer Routers

Turnkey package with heavy duty hybrid closed loop servo controls, ER32 tool holders, collet set, tooling set, control computer, tutorials, auto tool measurement, 3 year on-site parts and labor warranty. ideal for cabinet making, robotics, and other higher level high school and CTE programs.

HSR-ATC 4' x 4' with 6 HP & 8 position ATC	1220x1220mm	\$44,999.00
HSR-ATC 4' x 8' with 6 HP & 8 position ATC	1220x2438mm	\$49,999.00
HSR-ATC 5' x 10' with 6 HP & 8 position ATC	1524x3048mm	\$59,999.00

Higher end closed loop servo pro system that knows its location even in an E-stop state and includes the jog pendant and everything in above..

HSRPRO-ATC 4' x 4' with 6 HP & 8 position ATC	1220x1220mm	\$64,999.00
HSRPRO-ATC 4' x 8' with 6 HP & 8 position ATC	1220x2438mm	\$69,999.00
HSRPRO-ATC 5' x 10' with 6 HP & 8 position ATC	1524x3048mm	\$79,999.00



HSRPRO-ATC 5' x 10' with 23 HP Vacuum table system

Optional Upgrades for all Routers:

Vacuum Table systems includes pump & Table

48X48 Vac System upgrade 220V3PH	\$6,000.00
48X48 Vac System upgrade 110V	\$8,500.00
48X96 Vac System upgrade 220V3PH	\$7,000.00
60X120 Vac System upgrade	\$9,000.00
If Vac Table Sys added later add	\$1,500.00

Upgrade 6HP to 12HP ATC Spindle	\$2,999.00
3D Digitizing probe	\$2,999.00
6" Fourth Axis	\$4,999.00
Wireless Jog Pendant	\$ 599.00
Coolant System for Metals	\$ 999.00
Desiccant Dryer System for ATC's	\$ 999.00

Aluminum T-Slot Table

48X20 or 24 T-Slot Table upg.	\$ 2,900.00
48X48 T-Slot Table upgrade	\$ 4,500.00
48X96 T-Slot Table upgrade	\$ 5,900.00
60X120 T-Slot Table Upgrade	\$ 6,500.00

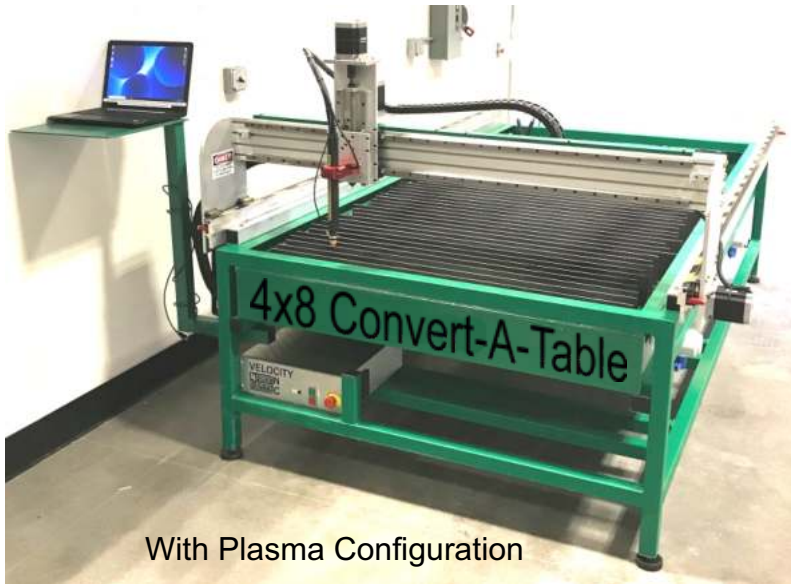


Wireless Jog Pendant

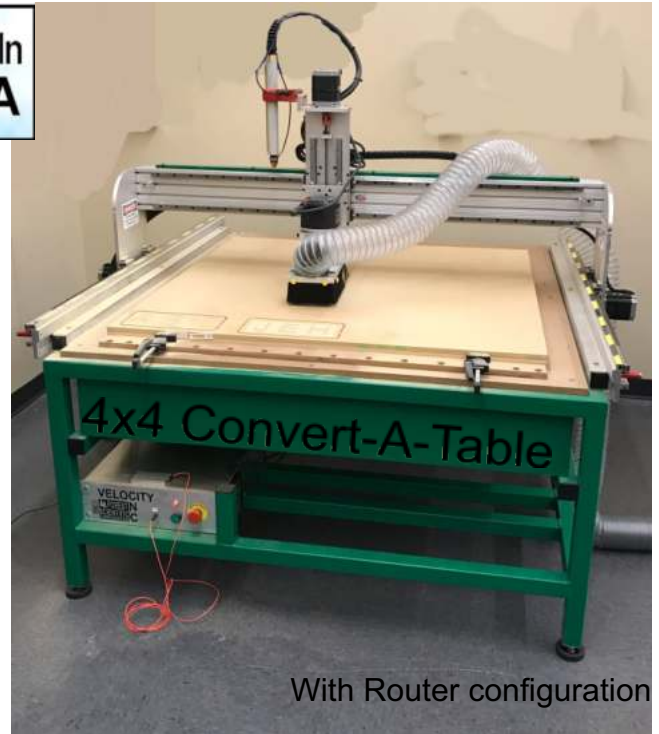
3D Digitizing probe



Convert-A-Table PLASMA CUTTER / ROUTER



With Plasma Configuration



With Router configuration

Convert-A-Table CNC Router / Plasma Models

MCAT 24" x 20"	Convert-A-Table	\$21,999.00
MCAT 48" x 20"	Convert-A-Table	\$24,999.00
MCAT 48" x 48"	Convert-A-Table	\$29,999.00
MCAT 48" x 96"	Convert-A-Table	\$34,999.00
MCAT 60" x 120"	Convert-A-Table	\$39,999.00

Includes: Plasma water table, router clamping table, 3-1/2HP 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
\$999.00

Dust Control Computer
Security Cabinet
\$1,499.00



Dust Collector Package
Includes
dust collector
100' hose
4 clamps
\$1,999.00



CNC Plasma Cutters

FabBot CNC Plasma



FabBot Platform Series Plasma Models

Each of the CNC Plasma cutters below include Control Computer, CAD/CAM software, ATH, Hypertherm 45XP 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.

FabBotP 48" x 20" CNC Plasma	\$13,999.00
FabBotP 48" x 48" CNC Plasma	\$14,999.00
FabBotP 48" x 96" CNC Plasma	\$18,999.00

X20" Models fit through standard 36" Door

Key Points:

- *Entry Level low cost system made of structural Alumin
- *Only model without a watertable
- *Can make anything that higher end can make
- *Easiest model to get up stairs due to lighter weight
- *Complete Turnkey package
- *Best in it's comparable price class
- * Automatic Torch Height
- * Magnetic Break-Away
- *Ohmic touch off and automatic Voltage setting
- *Tutorials available
- * Most popular for those on a tight budget
- *Single Source 3 year, on-site, parts & labor warranty

Titan CNC Plasma



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" CNC Plasma	\$16,999.00
TitanP 48" x 20" CNC Plasma	\$19,999.00
TitanP 48" x 48" CNC Plasma	\$22,999.00
TitanP 48" x 96" CNC Plasma	\$24,999.00
TitanP 60" x 120" CNC Plasma	\$29,999.00

Key Points:

- Heavier Duty than FabBot
- *Watertable Included
- *Can make anything that higher end can make
- *Easiest model to get up stairs due to lighter weight
- *Able to be disassembled to get through narrow doors
- *Complete Turnkey package
- *Best in it's comparable price class
- * Automatic Torch Height
- * Magnetic Break-Away
- *Ohmic touch off and automatic Voltage setting
- *Tutorials available
- * Most popular for difficult installations due to the building
- *Single Source 3 year, on-site, parts & labor warranty

MakerFab CNC Plasma HS Series CNC Plasma



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"	CNC Plasma	\$20,999.00
PMF 48" x 20"	CNC Plasma	\$23,999.00
PMF 48" x 48"	CNC Plasma	\$26,999.00
PMF 48" x 96"	CNC Plasma	\$29,999.00
PMF 60" x 120"	CNC Plasma	\$35,999.00

Key Points:

- *Watertable Included
- *Can make anything that higher end can make
- *Heavy Duty Welded Structural steel construction
- *Complete Turnkey package
- *Best in it's comparable price class
- * Automatic Torch Height & Magnetic Break-Away
- *Ohmic touch off and automatic Voltage setting
- *Tutorials available
- *Most popular high school model
- *Single Source 3 year, on-site, parts & labor warranty

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 48" x 24"	CNC Plasma 1220x609mm	\$28,999.00
HSPB 48" x 48"	CNC Plasma 1220x1220mm	\$34,999.00
HSPB 48" x 96"	CNC Plasma 1220x2438mm	\$37,999.00
HSPB 60" x 120"	CNC Plasma 1524x3048mm	\$42,999.00

Key Points:

- *Watertable Included
- *Complete Turnkey package
- *All of the features of the Maker-Fab
- *Adv. Closed Loop Hybrid Servos for Fastest Reliable Cut
- *Heaviest Duty Welded Structural steel const. under \$50K
- *Most popular CTE model and commercial use
- *Single Source 3 year, on-site, parts & labor warranty

Plasma Cutter Upgrades and options

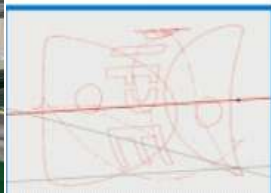
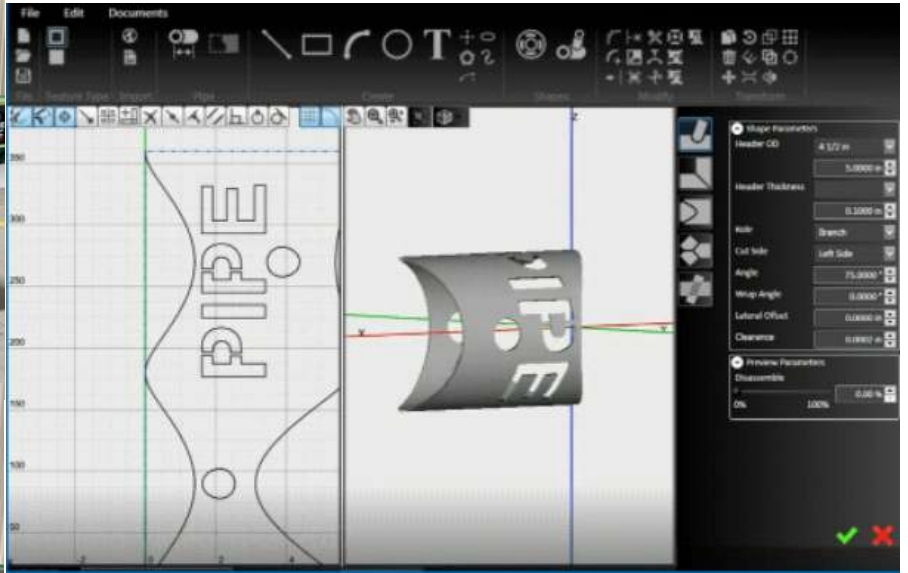
Powermax 45 Pierce 1/2" steel and cut up to 7/8"	
PowermaxSync 65 Pierce 5/8" steel and cut up to 1"	\$2,500.00 upgrade
PowermaxSync 85 Pierce 3/4" steel and cut up to 1-1/2"	\$3,500.00 upgrade
PowermaxSync 105 Pierce 7/8" steel and cut up to 2"	\$5,000.00 upgrade
High Definition Plasma able to cut 2" thick steel	\$130,000.00 Upgrade
Optional Torch slip touch off detection	\$1,999.00
Optional Engraving head	\$2,997.00
Optional HVAC Software	\$8,997.00
6" pipe Cutter SEE PIPE CUTTING BROCHURE	
Adjustable tilt head	\$1,500.00
5 Stage Desiccant Drying System	\$ 999.00
Dust Control Comp. Security Cabinet	\$1,499.00

Comes standard - **Best option for most**

CNC Pipe Cutter Plasma Cutter

PMFP 48" x 48"	1220x1220mm	\$44,999.00
PMFP 48" x 96"	1220x2438mm	\$49,999.00
PMFP 60" x 120"	1524x3048mm	\$54,999.00
Capacity 6" (152mm) Diameter round pipe		

Optional manual angle adjustment for bevel angle cut	\$ 1,500.00
Optional upgrade for square pipe	\$ 5,000.00
Optional upgrade for computer controlled beveling	\$16,000.00



Easily Draw Accurate Pipe Features in CAD

- Round pipe, square and rectangular tube support
- Pipe shape wizard makes perfect cuts for mating pipes of any diameter with a multitude of joints at any angle and any size including T joints, end caps, miter joints, Y joints and through pipes
- Pipe sizing wizard automatically sets OD, and thickness of standard pipe sizes
- 3D solid model of pipe joints includes disassembly to preview what both sides of the joint will look like
- The flattened view allows for easy design of custom patterns of any shape including slots and text
- "Ghost 2D views" show feature wrapping with no interruption
- Fully rotatable solid model view
- Easily import DXF and STL files from other CAD programs



CNC WOOD LATHE



Ready to connect to
Central Dust Collection

WL4000

- * Cut up to a 40" X 10" Part
1016x254mm
- * 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

Replacemnet cutters \$125.00 Each

HEAVY DUTY CNC METAL LATHE



ML246 \$29,999.00

Optional Turret \$6,000.00

3 HP Spindle

Travels Z 24" X12" 609x305mm

Swing over Cross slide 6.3" 160mm

Powerful 1200 oz/in closed loop hybrid servo

Handheld MPG included

Quick change tool post included without turret

6 inch lathe chuck

Spindle speed 100-3,500 RPM

Spindle boor diameter 1.5" 38mm

Industry standard G-Codes

Conversational programming

Easy to see the machine work Lexan Shield

MADE IN USA

Precision CNC Knee Mill 158-728V-T

\$17,999.00



TurnKey Package with:

Stand **Vise** **Enclosure** **Hold Downs**
R8 Collet Set **Tooling set** **Computer**

Requires 120V 20A or 240V 10A

X travel 12" 305mm

Y Travel 6.6" 168mm

Z Travel 13" 330mm

Table Size 27.5" X 7.125" 622mm x 181mm

Size in full enclosure 48" X 33" X 77" High 650 lbs

1219mm x 838mm x 1956mm

1 HP Spindle Motor with R-8 Taper spindle

Options:

Quick Change tool kit with 4 tool holders \$4,999.00

1/4", 3/8", 3/8", 1/2"

Quick Change drill chuck for above kit \$ 999.00

Quick Change Tapping Head package \$1,500.00

4" - 4th Axis \$4,999.00

Pneumatic mist cooling system \$ 999.00

Optional Mist Cooling system \$1,399.00

Robotics integration interface \$ 999.00

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 610mm x 508mm \$25,995.00

2'X20"-5 HP Spindle 610mm x 508mm \$27,999.00

2'X20"-10 HP Spindle 610mm x 508mm \$29,999.00

2'X20"-5 HP ATC Spindle with 4 Position ATC 610mm x 508m \$39,999.00

Options:

6"-4th Rotary Axis \$ 4,999.00

Enclosure \$ 7,999.00

Optional accessory kit \$2,999.00 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

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

Mitey Lathe Options:

Deluxe QC tooling package	\$2,999.00
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

MITHEY ROUTER

Travels
18"X x 9"Y x 6.5"Z
(45X x 23Y x 16Z cm)
110V 20A
1-1/4 HP Spindle



MRLS Stepper Version	\$9,999.00
Upgrade to HF Spindle	\$1,900.00
4th Axis	\$2,999.00



ACCUJET Professional WaterJet

Precisely cut nearly any material even Stainless & Titanium

Turnkey System for Success



Model	Travel	Estimated floor space	Price
ACCU48X24 Waterjet 50	50" X 26" Y	12'X12'	\$149,000.00
ACCU48X48 Waterjet 50	50" X 50" Y	12'X14'	\$159,000.00
ACCU48X96 Waterjet 50	50" X 98" Y	12'X18'	\$179,000.00
ACCU60X120 Waterjet 50	60" X 120" Y	12'X18'	\$189,000.00
HyPrecision Predictive WaterJet			



HyPrecision Predictive WaterJet MiteyJet 48X20 \$119,000.00 Call for other options and sizes

Co2 Laser Engraver / Cutters



CO2 lasers are for cutting woods, plastics, leather, fabrics and can engrave glass, anodized metals

Call 1-800-956-4056 for our laser catalog

Fiber Lasers



Fibers lasers are only used for cutting and engraving metals

We offer many different configurations for just engraving and those that can cut 1/2" steel

Call 1-800-956-4056 to discuss your application so that we can provide the best configuration for your applications.

Laser Service



If you have a laser that you do not know how to use or needs service, we may be able to assist.

Call 1-800-956-4056 for a custom quote depending on what needs done and your location.

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)

Mobile base fume extraction carts for desktop Lasers	\$4,999.00
For Free standing lasers 24" x12" and larger	\$7,999.00

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



All Phoenix/ Magnum/
Paxton Wood Lathes
VC-PMPPL
Upgrade \$7,499.00



All Phoenix/ Magnum/
Paxton Routers VC-PMPPR
Upgrade \$7,999.00
Vac pump \$2,999.00



All Paxton Lathes VC-PPL
Upgrade \$6,999.00

All Paxton Mills VC-PPM
Upgrade \$6,999.00



D&M 3 or 4 & Lab Volt 5400 Mills
VC-DMM34 Upgrade \$6,999.00

D&M 3, 4, or Lab Volt 5300 Lathe
VC-DML34 Upgrade \$6,999.00



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



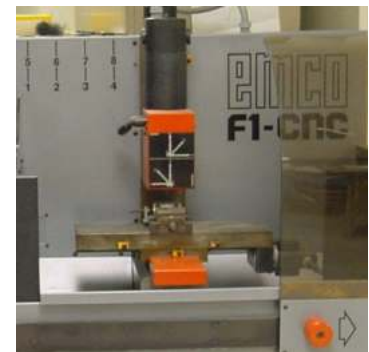
D&M 5, 6 or Lab Volt 5600
VC-DMM5
Upgrade \$7,999.00



All Emco Compact 5 Lathes
VC-CP5L
Upgrade \$7,999.00



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



ALL Emco F1 Mills
VC-EF1M
Upgrade \$7,999.00



All Denford Routers
VC-DFMR
Upgrade \$6,999.00



All Denford MicroMills,
Scantek, LabVolt, B&G,
& Midwest
VC-DFMM
Upgrade \$6,999.00

All Denford MicroLathes,
Scantek, LabVolt, B&G,
& Midwest
VC-DFML
Upgrade \$6,999.00

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. TurnKey package includes computer and CAD/CAM

Upgrade Older Forest Scientific Velocity based Controls

\$5,995.00

Upgrade Older Forest Scientific Centroid based controls

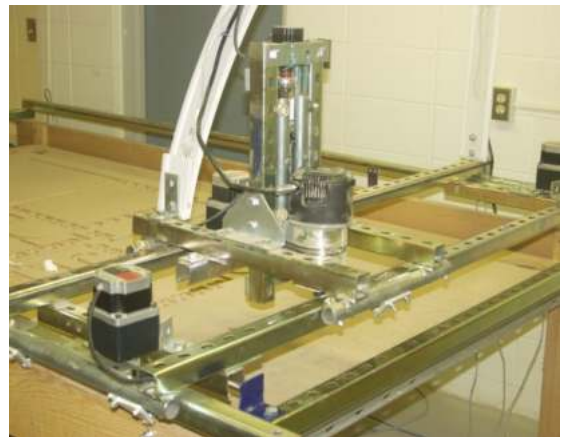
\$9,995.00



Light Machines
CNC Router
VC-LMCR
Upgrade \$7,999.00



Light Machines
Spectralight Mill
or Spectralight Lathe
Upgrade \$6,999.00



All Shopbot Routers
VC-SHOPB Upgrade \$7,999.00
OR
VC-SHOPBCL \$8,999.00 for Closed loop version

IF YOU DO NOT SEE IT HERE CALL

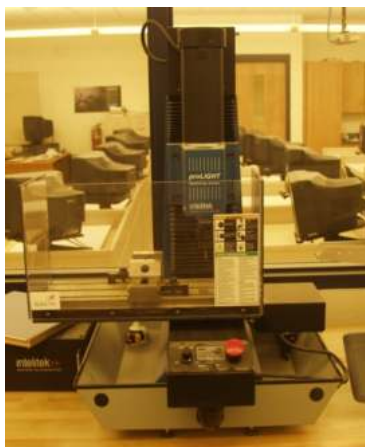
Techno LC Servo Routers \$9,999.00
Techno Routers with ATC \$12,999.00

Plasma cutter upgrades, Techno, \$11,999.00
TORCHMATE, EZROUTER

XYZ Millenium Routers \$7,999.00
XYZ 4x4 & 4x8 Routers w/o ATC \$9,999.00
XYZ 4x4 & 4x8 Routers with ATC \$12,999.00

PlasmaCam we recommend trade up to our Fabbot series or better plasma call for special offer.

Optional Preloaded Notebook computer \$ 1,999.00



Light Machines
Pro Light Lathe or Mill
VC-PL
Upgrade \$7,999.00
ProLight with ATC \$9,999.00



All Techno Routers
Gantry style & Davince
Under 2'X2'
VC-Techno
Upgrade \$6,999.00
Servo \$8,999.00

Ship to:	Billing adress if different:
Organization _____	Organization _____
Attention _____	Attention _____
Address _____	Address _____
City _____	City _____
State _____	State _____
ZIP _____	ZIP _____
Cell Phone _____	PO Number _____
Email _____	

Signature _____ Security Code _____

Recommended Minimum Inventory	Powermax Consumables Fine Cut for the best cuts in 1/4" and thinner metal SET TO 45AMPS	Quantity to Purchase	Price	Extended
	60-528083 Cartridge reader		\$49.00	
	60-428895 Kit:SmartSYNC Ohmic Rings		\$15.30	
	These should be ordered in multiples of 5			
	60-428926 Cartridge:SmartSYNC 30-45 A Mechanized FineCut		\$59.00	
	60-428925 Cartridge:SmartSYNC 45 A Mechanized Cutting		\$59.00	
	60-428930 Cartridge:SmartSYNC 65 A Mechanized Cutting		\$59.00	
	60-428934 Cartridge:SmartSYNC 85 A Mechanized Cutting		\$59.00	
	60-428936 Cartridge:SmartSYNC 105 A Mechanized Cutting		\$59.00	
	Total			
	FLAT RATE \$15.00 for shipping			
	Grand Total			
We will match or beat any competitive price. If you get a lower quote on Genuine Hypertherm consumables send it with this order and we will match or beat that quote.				



Ship to:	Billing address if different:
Organization _____	Organization _____
Attention _____	Attention _____
Address _____	Address _____
City _____	City _____
State _____	State _____
ZIP _____	ZIP _____
Cell Phone _____	PO Number _____
Email _____	

Credit Card MC V AMEX Disc _____ Expiration ____/____

Signature _____ Security Code _____

Genuine Hypertherm Powermax Consumables Order Form

Recommended Minimum Inventory	Powermax Consumables	Quantity to Purchase	Price	Extended
	Fine Cut for the best cuts in 1/4" and thinner metal SET TO 45AMPS			
1	220947 SWIRL RING:PMX FINECUT		\$27.50	
5	220930 NOZZLE:PMX FINECUT		\$10.80	
1	220948 SHIELD:PMX FINECUT MECHANIZED		\$19.80	
	Marking Consumables to Engrave with your Powermax 45 XP torch only			
1	420542 Marking Shield		\$22.20	
5	420415 Marking Nozzle		\$10.50	
	Below are for High Power Thick Cutting			
1	220817 Thick Cut Shield 15-85A		\$24.10	
5	220941 45A Thick cut nozzle (for use with a Powermax 45 set to 45A)		\$10.80	
	220819 65A Thick cut nozzle (for use with a Powermax 65 set to 65A)		\$10.80	
	220816 85A Thick cut Nozzle (for use with a Powermax 85 set to 85A)		\$10.80	
	Use with Thick cut or marking nozzle			
1	220857 Swirl Ring 10-85A same for Marking and Thick Cut		\$27.50	
	For use with ALL of the above			
10	220777 Long Life Electrode Copper Plus 10-105A (2X the life)		\$15.60	
1	220953 CAP:PMX OHMIC CONTACT Retaining Cap		\$58.50	
	Total			
	FLAT RATE \$15.00 for shipping			
	Grand Total			

We will match or beat any competitive price.

If you get a lower quote on Genuine Hypertherm consumables send it with this order and we will match or beat that quote.

Choose:
FineCut 220947
or
Marking/Thick cut
220857



Swirl Ring

For all
Copper Plus
220777



Electrode

Choose:
FineCut 220930
Marking 420415
45A Thick cut 220941
65A Thick cut 220819
85A Thick Cut 220816



Nozzle

For all

Ohmic
Retaining Cap

Choose:
FineCut 220948
Marking 420542
ALL Thick cut 220817



Shield

Ship to:
 Organization _____
 Attention _____
 Address _____
 City _____
 State _____
 ZIP _____
 Cell Phone _____
 Email _____

Billing address if different:
 Organization _____
 Attention _____
 Address _____
 City _____
 State _____
 ZIP _____
 PO Number _____

Credit Card MC V AMEX Disc _____ Expiration ____/____

Signature _____ Security Code _____

CNC ROUTER Consumables Order Form

	Quantity	Price	Extended
For routers with 1/4" collets which all FSC router use ie. Mitey Router			
49-SRD218 1/4" Down Spiral bit Great bit for cutting parts out and engraving w ithout fraying w ood on top		\$29.00	
49-SRU118 1/4" Up Spiral bit Great bit for cutting parts and engraving, better chip removal and dust collection		\$29.00	
49-SRD203 1/8" Down Spiral		\$25.00	
24-106-0202 1/8" Up Spiral bit for cutting smaller parts in places too big for the above bits		\$29.00	
24-132-9002 60/90 Engraver Bit —These are for fine engraving and V Carving		\$50.00	
49- SLIN062 10 Degree engraving bit 1/16" cutting 1/4" shanklike a 1/16" bit that does not break easily		\$38.00	
49-SBNU125 1/8" Ball nose Bitfor Fine detail 3D Carving		\$44.00	
49-SBNU250 1/4" Ball nose bitideal for 3D carving small enough for detail and big enough to not break easily		\$39.00	
49-SE1502 V groove bit 90 Degree 1/2" 1/4" Wider deeper V carving		\$27.00	
49-SCVG264 V groove bit 60 Degree 1/4" 1/4" Wider deeper V carving		\$27.00	
49-SST220 1/4" strate flute 2 flute bit 1/4" 1/4" 2-1/2"		\$25.00	
For routers with 1/2" collets which are used in FSC Routers with 3-1/4 HP or larger			
24-102-0885P 1/2" Straight bottom cutting bit Best for cut outs of wood over 1/4" thick		\$39.00	
49-spoil-25-2 Spoil board bitfor a perfectly flat spoil board and to reuse it		\$399.00	
49-SE1503 V groove bit Degree 1/2" 1/2" Wider deeper V carving		\$29.00	
49-SE1560 V groove bit Degree 1/2" 1/2" Wider deeper V carving		\$29.00	
49-SBNU500 1/2" Ball nose Bitideal for 3D carving large areas quickly		\$96.00	
11-800 Gasket material for Forest Scientific vacuum table		\$119.00	
11-586 Replacement Dust hood brush kit with thumb screws		\$149.99	
11-913 Complete Grease gun kit with Grease gun, Grease, THK Grease nozzle		\$109.00	
11-912 Replacement Grease Gun THK Nozzle		\$29.00	

Total

Flat rate \$15.00 for shipping

Grand Total

60 Deg 90 Deg 10 Deg 60/90



1/4" upcut 1/4" Downcut



Spoil Board Bit



1/8"Ball 1/4"Ball 1/2"Ball

1/2" Bottom Cutting bit



Fax to +1-814-463-0292 or email to orderentry@forestscientific.com 1-800-956-4056 22

BenchTop Series Router Models

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



Work Area

BT 24"X 24" 3-1/2 air cooled spindle \$ 9,999.00

BT 36"X 24" 3-1/2 air cooled spindle \$10,999.00

BT 48" x 24" 3-1/2 air cooled spindle \$11,999.00

BT 60" x 24" 3-1/2 air cooled spindle \$12,999.00

Optional Upgrade to 1.5 HP ATC Spindle with 6 position ATC add \$9,999.00

Optional stand for any above \$2,500.00

Optional 4th Axis with 6" capacity and tailstock \$3,999.00

Optional wireless Jog pendant \$ 599.00

Optional Dust collection system \$1,500.00

110V countries 3-1/2HP

240V countries 2-1/2HP

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

CAD/CAM for CNC Routers & Mills

40 educational seats in a single lab or classroom

Full CAD/CAM Products

Cut2D Pro \$ 599.00 VCarve Pro \$ 799.00

Upgrade from Cut2D to VCARVE \$599.00

Aspire 3D \$2,199.00 includes setup and curriculum

Upgrade from VCARVE to Aspire \$1,899.00

CorelDraw Academic Current Version

For Lasers

CorelDraw Single seat \$180.00 Each

Corel Draw 50 Seat License \$7,999.00

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.



Plaser Clean Room Metal Cutting

Affordable, Professional Alternative for Cutting Steel and Aluminum



Cut:
Steel
Aluminum
Copper
Brass



Fully Enclosed

Run in a Clean Room

**Cut Steel Faster than a WaterJet
with Lower Operational Cost**

Model	Travel	Plasma	Fiber
Plaser CRP2418	24" X 18" Y 610 mm x 460 mm	\$39,999.00	\$79,999.00
Plaser CRP3618	36" X 18" Y 920 mm x 460 mm	\$49,999.00	\$89,999.00
Plaser CRP48X18	48" X 18" Y 1200 mm x 460 mm	\$59,999.00	\$99,999.00
Plaser CRP48X24	48" X 24" Y 1200 mm x 609 mm	\$69,999.00	\$109,999.00
Optional in room filtration system		\$ 7,999.00	
Optional ultra quiet dry air compressor		\$ 4,999.00	
Converter to run 45 A Plasma on 110V requires 2 legs of 110v		\$ 495.00	

Fully Enclosed

Perfect for an Engineering Lab

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

Includes fine marking, and standard cutting consumables

Plasma Laser-like Quality Plasma system Fine Piercing to 1/4" Steel or Aluminum

Plasma Able to edge cut up to 7/8" steel and 1/2" aluminum

Fiber Laser 240V 1PH models cut up to 16mm steel to 6mm aluminum varied by shineyness

3 Phase models higher wattage can cut greater thickness call for custom quote.

A fraction of the price of most fiber lasers that can only engrave metal

X18" or X 460 mm models fit through a normal 36" door opening



Catalog # ACTE-BETA-F

Forest Scientific Corporation

PO Box 510, 668 Elm Street

Tionesta, PA 16353, USA

814-463-5006 Voice 814-463-0292 Fax

1-800-956-4056 Toll-Free sales@forestscientific.com