



HVAC Cutting Systems



Manufactured in the USA

Plasma Automation Inc.

Where superior duct work begins.™

Where superior duct work begins.™

The VICON line of HVAC plasma cutting machines and liner-cutting systems are specifically designed and engineered to help shops like yours succeed in today's highly competitive environment.

VICON HVAC machines give you all the speed you need to meet ever-tighter deadlines without sacrificing reliability or accuracy. Truly the cutting edge of the industry, VICON machines give you a real competitive advantage, reducing material waste and operating costs, while enhancing productivity and profitability—as well as your reputation.



State-Of-The-Art PC Controller

Using a PC controller is our way of ensuring that every VICON machine is equipped with the latest technology.

Not only does the PC controller with color monitor allow for maximum speed and versatility, but you can program, edit and load new jobs while the machine is cutting.

The result is a greatly increased production flow with virtually uninterrupted communication.

An Office Programming System with options such as the latest in touch screen monitors and an industrial grade enclosure are also available.

The industry's most robust, reliable, top selling HVAC plasma and liner cutting systems!

With over 3,000 successful installations worldwide, the VICON system is an industry-proven solution. Every VICON system features rack and pinion drives for enhanced positioning accuracy. The extruded aluminum gantry ensures low inertia, exceptional corner sharpness and superb part accuracy. The system's solid steel, one-piece heavy duty construction provides years of reliability.

The ViSoft HVAC cutting software program for Windows® ...

The ViSoft software solution is menu-driven, user friendly and set to SMACNA standards. Written and supported by Plasma Automation's experienced team of in-house programming engineers, we are consistently enhancing and updating the VICON program to ensure optimum functionality. Features include a full array of HVAC fittings and shapes with user-defined fitting libraries, Super Nest and common line cutting for the ultimate in material utilization, time-saving DXF file importing including Auto Kerf and Auto Lead-In, and a true CAD sketch program...to name a few.

One Source. One Solution.

Plasma Automation does it all. We build the machine, we write the software, and we support the solution. It's that simple. Standard with every machine is a one-year system warranty that includes parts and labor, on-site set up and training, and telephone technical support for as long as you own your machine...all at no additional cost! Innovative technology, impeccable programming and unrivaled support. We pride ourselves as the leader in complete turn-key solutions.



Our commitment to you

At Plasma Automation, we are committed to your complete satisfaction. Whether it be our knowledgeable sales force guiding you through the sales process, our experienced and professional technicians training you on-site, or our in-house team providing you with technical support, customer service is our top priority. Whether it be conventional HVAC plasma cutting, duct liner cutting, or both – there is a VICON system engineered to best suit your needs.



VICON HVAC Sheet Metal Cutting System

Model HVAC 510



This rugged yet, flexible machine is the solution for the optimal processing of HVAC duct fittings. Fast, clean and accurate, this CNC cutting system drastically reduces material waste and operating costs resulting in greater profitability.

Exclusive dual rack and pinion drives provide superb positioning accuracy for unmatched part quality. Material stops guide the operator for loading sheets, eliminating error and material waste.

features & benefits

- ▶ State-of-the-Art electronics incorporating high speed motors capable of traversing at a maximum 2000 ipm resulting in faster part production.
- ▶ Rigid, extruded aluminum gantry results in "low inertia" producing highly accurate parts, sharp corners and notches.
- ▶ Quick release magnetic torch holder allows for consumables to be changed quickly and without tools.
- ▶ State-of-the-Art PC Control with Vicon ViSoft Cutting Software enables the programming, loading of new jobs and editing to be done at the machine while it is operating.
- ▶ Torch choice flexibility for cutting a variety of materials from gauge to 1/2" plate.
- ▶ One-piece down draft table includes built-in automatic CNC controlled exhaust fan circuit (only on during cutting).

options

- Vicon ViSoft Value Added Software Modules - ViCost, Vi-Call, Vi-Bar
- Download interface from most CAD/CAM software programs
- Office programming system including PC, software, LAN cable and hub
- Industrial grade PC Control cabinet

specifications

HVAC 510

Effective Cutting Area	(Standard)	5' x 10'
	(Optional)	6' x 10'
Material Capacity		28 gauge to 1/2" thick plate
Machine Length		144"
Machine Width	(Standard)	90"
	(Optional)	102"
Table Height		35"

VICON Dual Table Sheet Metal Cutting System

Model HVAC 520



You can increase your productivity by at least 40 percent with the VICON HVAC 520. This system offers all of the same features and benefits as the standard HVAC 510... and more!

Finished parts are unloaded at one end of the machine while cutting continues on the other, resulting in greater throughput and faster job completion.

features & benefits

- ▶ State-of-the-Art electronics incorporating high speed motors capable of traversing at a maximum 2000 ipm resulting in faster part production.
- ▶ Rigid, extruded aluminum gantry results in "low inertia" producing highly accurate parts and sharp corners and notches.
- ▶ Quick release magnetic torch holder allows for consumables to be changed quickly and without tools.
- ▶ State-of-the-Art PC Control with Vicon ViSoft Cutting Software enables the programming, loading of new jobs, and editing to be done at the machine while it is operating.
- ▶ Torch choice flexibility for cutting a variety of materials from gauge to 1/2" plate.
- ▶ One-piece down draft table includes built-in automatic CNC controlled exhaust fan circuit (only on during cutting).
- ▶ Flexibility to cut two 10' sheets or sheets up to 22'.
- ▶ Ideally suited to fully integrate with the Vicon Plasma Feeding System.

options

- Vicon ViSoft Value Added Software Modules - ViCost, Vi-Call, Vi-Bar
- Download interface from most CAD/CAM software programs
- Office programming system including PC, software, LAN cable and hub
- Industrial grade PC Control cabinet

s p e c i f i c a t i o n s

HVAC 520

Effective Cutting Area	(Standard)	5' x 20'
	(Optional)	6' x 20'
Material Capacity		28 gauge to 1/2" thick plate
Machine Length		288"
Machine Width	(Standard)	90"
	(Optional)	102"
Table Height		35"

VICON Sheet Metal/Duct Liner Combination Cutting System

Model HVAC 520 DL



MAXIMIZE PROFITS!

VICON Liner Cutting Systems save considerable time and cost by eliminating labor-intensive manual liner cutting. The VICON patented, fully automated duct liner cutting process is clean, dry, fast, smokeless, and accurate. In addition, liner waste is greatly reduced, increasing shop profitability.

The HVAC 520 DL provides maximum versatility offering users the ability to cut either sheet metal or liner without any set-up. Cut your metal on bed one and your liner on bed two, or the machine can easily be converted to cut metal or liner on the entire 20' plus cutting area.

Also available as a 5' x 10' table if space for a 5' x 20' table is a concern.

features & benefits

- ▶ Vicon ViSoft HVAC Cutting Software produces two geometries – one for cutting sheet metal and one for cutting duct liner.
- ▶ Patented system equipped with a synthetic surface and a router assembly holds and cuts duct liner smoothly and efficiently (Patent No. 6,540,456).
- ▶ State-of-the-Art electronics incorporating high speed motors capable of traversing at a maximum 2000 ipm resulting in faster part production.
- ▶ Rigid, extruded aluminum gantry results in “low inertia” producing highly accurate parts and sharp corners and notches.
- ▶ Dual rack and pinion drives provide greater positioning accuracy.
- ▶ Lubrication free gears and bearings reduce maintenance.

options

- Vicon ViSoft Value Added Software Modules - ViCost, Vi-Call, Vi-Bar
- Download interface from most CAD/CAM software programs
- Office programming system including PC, software, LAN cable and hub
- Industrial grade PC Control cabinet

VICON Duct Liner Cutting System

Model HVAC 510 SL



An economical stand-alone machine, the HVAC 510 SL is dedicated to cutting acoustical liner in low and high volume shops. It is the ideal solution for users with existing plasma cutting systems that need additional liner cutting capability.



Optional Bar Scanner

OPTIMIZE WORK FLOW! With the patented Bar Code Scanning option, sorting problems are a thing of the past. Coordinating the flow of sheet metal and duct liner through the shop is fast and simple! Sheet metal parts are scanned, and the machine is automatically programmed to produce the corresponding downsized duct liner. Superior true-shape nesting minimizes waste.

features & benefits

- ▶ Patented system equipped with a synthetic surface and a router assembly holds and cuts duct liner smoothly and efficiently (Patent No. 6,540,456).
- ▶ State-of-the-Art electronics incorporating high speed motors capable of traversing at a maximum 2000 ipm resulting in faster part production.
- ▶ Rigid, extruded aluminum gantry results in "low inertia" producing highly accurate parts and sharp corners and notches.
- ▶ Automatic liner downsizing through Vicon ViSoft Cutting Software
- ▶ Dual rack and pinion drives provide greater positioning accuracy
- ▶ Lubrication free gears and bearings reduce maintenance
- ▶ Available in 5' X 10', 6' X 10', 5' X 20' and 6' X 20' table sizes

VICON Waterjet Liner Cutting System

Model Vi-Stream



The Vi-Stream Waterjet Liner Cutting System combines fast, accurate liner cutting technology with VICON's exceptional software for unmatched liner cutting capability.

The Vi-Stream Waterjet design maximizes uptime.

The special porous bed of waterjet bricks provides a long-lasting, firm cutting surface while allowing for disbursement of the high-pressure jet stream for fast drainage. The tapered floor design allows the water to flow and collect in the strainer basin for easy clean out.

The clock spring design eliminates the need for swivel joints in the high-pressure line, greatly reducing maintenance.

OPTIMIZE WORK FLOW! The Patented Bar Code Scanning option coordinates the flow of sheet metal and duct liner.

features & benefits

- ▶ Standard 5' x 10' and 5' x 20' effective cutting areas
- ▶ High speed traversing and cutting in excess of 2000 ipm
- ▶ Precision linear guides deliver smooth motion
- ▶ One-piece machine frame requires no assembly
- ▶ Tapered basin allows debris and water to easily flow into an operator accessible clean out
- ▶ Low profile design fits under an 8-foot ceiling
- ▶ Industrial grade PC enclosure protects PC Control in shop environment

options

- 6' x 10' and 6' x 20' table sizes
- Patented Bar Code System nests and sorts the liner to the corresponding metal
- Office programming system
- Touch screen monitor

VICON Plasma Feeder



With VICON patented style coil spools, coils can be loaded in under 5 minutes.

Save operating costs by reducing scrap and eliminating labor through the use of the VICON Plasma Feeding System. Automatically uncoil, straighten, bead, and feed your various material gauges to your plasma cutting machine.

With the VICON style drum mandrel, the VICON Plasma Feeder is an innovative solution for the easy loading of coils. Convenient removable coil keeper end plate is light enough for just one person to attach it to the drum mandrel in under five minutes. The unit is designed with pneumatic "backup" wheels at each coil station for positive feed-up of each coil and safe band removal on new coils.

Coils will be spooled on VICON's exclusive (patent pending) Coil Drum Assemblies for the fastest coil loading possible. Roller track system supports the material of the desired coil up to the infeed guide ramp on the plasma feed unit.

features & benefits

- ▶ Capable of handling up to 6 underfed coil cradles
- ▶ 16 ga. to 28 ga. mild steel capacity
- ▶ Coil widths from 48" to 60" standard
- ▶ 12,000 lbs coil capacity
- ▶ Hydraulic coil drive for smoother acceleration and deceleration of coils, utilizing auto coil reversal rewind technology
- ▶ Powered infeed guide ramp for safe, hands-free coil feeding
- ▶ Pneumatic backup wheels at each coil station for safe band removal and positive coil feeding
- ▶ Choice of beading either up or down to suit shop standards
- ▶ Will feed plasma tables other than Vicon

options

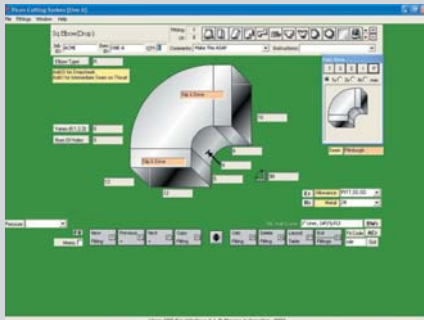
- Individual coil drives on each cradle
- Overfed coil cradles available to reduce floor space
- 72" coil width

specifications

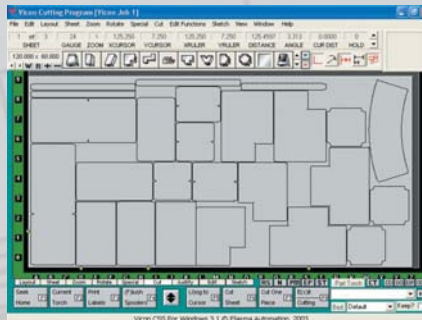
	Overall Length*	
	Underfed Cradle System	Overfed Cradle System
One Cradle	17'10"	12' 4"
Two Cradles	22' 2"	16' 8"
Three Cradles	26' 6"	21' 0"
Four Cradles	30'10"	25'4"
Five Cradles	35' 2"	
Six Cradles	39' 6"	

*Not including Plasma machine

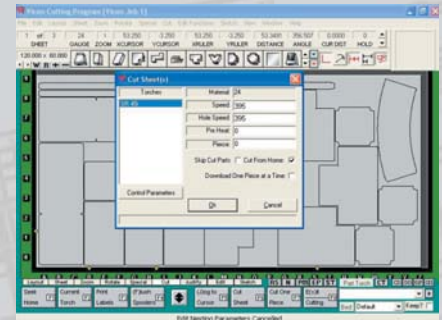
ViSoft HVAC Cutting Software



ENTER



NEST



CUT

Enter, Nest, Cut... ViSoft processing time is the fastest in the industry!

Flexible, fast and easy-to-use. These words best describe the ViSoft HVAC Cutting Software for Windows.® Set to SMACNA standards, this software is developed and supported by our skilled team of in-house programmers.

Your most commonly used fittings can be saved with pre-defined variations of fittings including; dimensions, seam and connector types, gauges and pressure class information. This will speed up fitting entry time. Entering fittings on-the-fly during the take-off process is painless since there is no need to close the existing job in order to produce one or more “rush” fittings.

Special parts can be drawn using the true CAD Sketch feature and CAD created .dxf files can be downloaded to the software for import and cutting on your machine.

Completely flexible reporting capabilities allow you to generate a variety of job reports. Reports include material usage by total pounds per job (including material waste); shipping lists; connector, vane and reinforcement lists; accessory lists; liner lists; shear and coil line lists, and complete fitting & job costing lists.

features & benefits

- ▶ Communicate flawlessly between all Vicon systems - plasma, liner, waterjet, coil line and coil strip feed line machines
- ▶ Integrate seamlessly with existing CAD and CAM software programs
- ▶ Unique customizable user-interface for quick navigation
- ▶ Full user-defined HVAC software libraries including rectangular, round, oval and double wall fittings
- ▶ Dramatic reductions in material waste with powerful SUPER NEST feature, auto segmenting of oversize fittings, common line cutting and nest-in-holes capabilities
- ▶ Ease of fitting editing allows for quick and trouble-free changes and correction
- ▶ On-site software training provided by our experienced HVAC technicians

CUSTOM DESIGN LABEL EDITOR allows the user to create labels best suited to their needs.

Rectangular Radius Elbow
Fitting: 1
ACME
ONE-A
Gauge: 24
1" Liner, 2#
End1: Slip & Drive
End2: Slip & Drive

M Seam: 1/4"
F Seam: Pittsburgh
M ISeam:
F ISeam:
Make This ASAP

of Copies 1
Ref: CAADS

Dep: 90
Straight:
End 1: 5 End 2: 6
End 2: 10 x 12
Flat

End 1
0 Vanes - 0 Holes Per Vane

Plasma Automation 10346 Mercer Pike, Meadville PA 16335

Rectangular Elbow
Fitting: 1
ACME
ONE-A
Gauge: 1" Liner, 2#

Part: Top
Sheet: 2
Zone: C7

Copy 1 of 1
8879

Dep: 90
Straight:
End 1: 5 End 2: 6
End 2: 10 x 12
Flat

End 1
0 Vanes - 0 Holes Per Vane

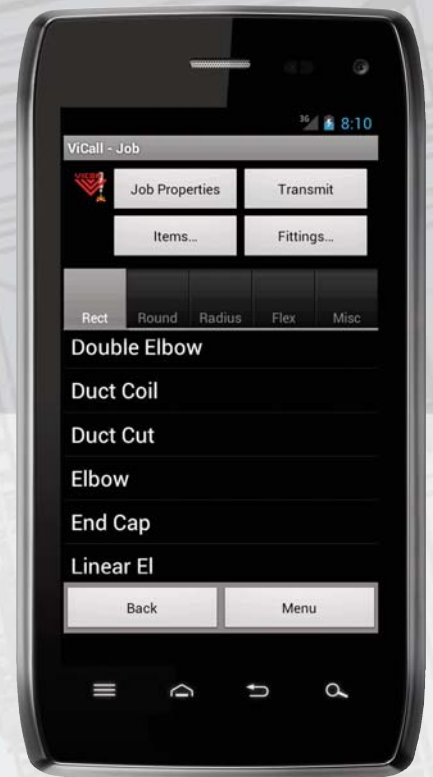
M Seam: 1/4"
F Seam: Pittsburgh
Make This ASAP

Plasma Automation 10346 Mercer Pike, Meadville PA 16335

VICON Value Added Software Products

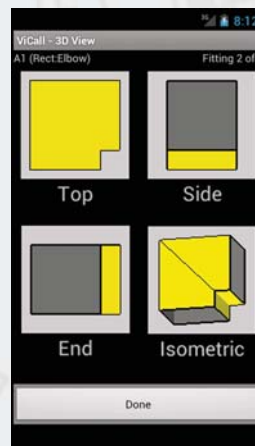
Vi-Call System with Mobile App

Vi-Call is a field call-in system that streamlines field to office and field to shop communication. Through the use of SMART phones, fittings, ductwork, and accessories are transmitted via text message or e-mail to office or shop personnel, eliminating communication errors and saving valuable time. Called in fittings can be transmitted directly to the Vicon ViSoft Cutting Software at the Vicon Office System for download directly to all Vicon cutting systems – plasma, liner, waterjet and coil line.



features & benefits

- ▶ Field personnel can transmit requests to the office or shop for items needed on a project and/or job site (i.e. fabricated items, purchased items, inventory items, or assets items such as lifts, tools and ladders)
- ▶ Data can be integrated and further managed with Vi-Bar Office System Software
- ▶ Connectivity and interface capability with all Vicon Office Systems



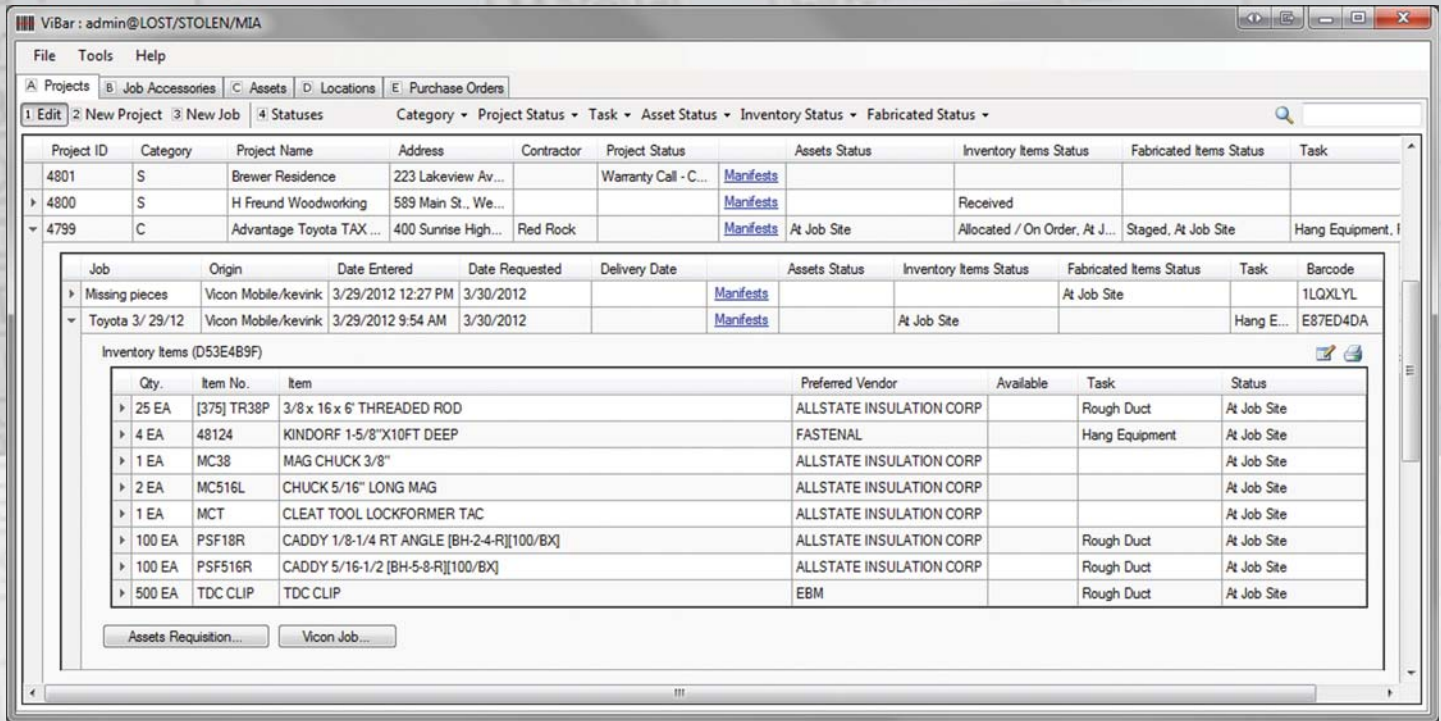
Invoice / Receipt		5/11/2012		
JOB NAME: ACME		JOB ID: 1234		
JOB DATE: 5/11/12		COMMENT: Walk-In		
Page 1				
Total Number of Fittings: 2				
Qty	ID/Type			
1	SqElbow			
	26:	\$ 50.08		
	Connectors:	\$ 17.00		
	Subtotal:	\$ 67.08		
1	SqStrDuct			
	26:	\$ 50.75		
	Connectors:	\$ 18.02		
	Subtotal:	\$ 68.77		
Item	Part ID	Qty	Description	Total Cost
1	1001234	1	12X12 ACCESS DOOR	\$ 24.66
Job Accessories Total:				\$ 24.66
JOB TOTALS				
Fittings Total:		\$ 135.85		
Job Accessories Total:		\$ 24.66		
Grand Total:		\$ 160.51		

Vicon Fitting Costing Software

Vicon Fitting Costing Software is ideal for the shop who supplies fittings to independent contractors for installation in the field. This value added software calculates the cost to fabricate individual fittings on the Vicon Plasma Cutting System and Vicon Coil Line. A cost report per job (and/or customer receipt) is generated, taking into consideration cost of metal, liner, connections, and accessories and includes a hidden percentage mark-up field for calculating the sell price.

VICON Value Added Software

Vi-Bar Tracking Software with Mobile App



The screenshot shows the Vi-Bar software interface with a menu bar (File, Tools, Help) and a toolbar with options like Projects, Job Accessories, Assets, Locations, and Purchase Orders. The main window displays a table of projects and a detailed view of inventory items for a specific job.

Project ID	Category	Project Name	Address	Contractor	Project Status	Assets Status	Inventory Items Status	Fabricated Items Status	Task
4801	S	Brewer Residence	223 Lakeview Av...		Warranty Call - C...	Manifests			
4800	S	H Freund Woodworking	589 Main St., We...			Manifests	Received		
4799	C	Advantage Toyota TAX...	400 Sunrise High...	Red Rock		Manifests	At Job Site	Allocated / On Order, At J...	Staged, At Job Site

Job	Origin	Date Entered	Date Requested	Delivery Date	Assets Status	Inventory Items Status	Fabricated Items Status	Task	Barcode
Missing pieces	Vicon Mobile/kevink	3/29/2012 12:27 PM	3/30/2012		Manifests		At Job Site		1LQXLYL
Toyota 3/ 29/12	Vicon Mobile/kevink	3/29/2012 9:54 AM	3/30/2012		Manifests	At Job Site		Hang E...	E87ED4DA

Qty.	Item No.	Item	Preferred Vendor	Available	Task	Status
25 EA	[375] TR38P	3/8 x 16 x 6' THREADED ROD	ALLSTATE INSULATION CORP		Rough Duct	At Job Site
4 EA	48124	KINDORF 1-5/8"X10FT DEEP	FASTENAL		Hang Equipment	At Job Site
1 EA	MC38	MAG CHUCK 3/8"	ALLSTATE INSULATION CORP			At Job Site
2 EA	MC516L	CHUCK 5/16" LONG MAG	ALLSTATE INSULATION CORP			At Job Site
1 EA	MCT	CLEAT TOOL LOCKFORMER TAC	ALLSTATE INSULATION CORP			At Job Site
100 EA	PSF18R	CADDY 1/8-1/4 RT ANGLE [BH-2-4-R][100/BX]	ALLSTATE INSULATION CORP		Rough Duct	At Job Site
100 EA	PSF516R	CADDY 5/16-1/2 [BH-5-8-R][100/BX]	ALLSTATE INSULATION CORP		Rough Duct	At Job Site
500 EA	TDC CLIP	TDC CLIP	EBM		Rough Duct	At Job Site

Vi-Bar software tracks information specific to individual projects through the use of the Vicon Office System and SMART phones. A comprehensive project screen includes an array of sorting filters and reports with pictures and bar codes enabling the user to track fabricated items, purchased items, and company assets. SMART phones are used by field personnel to transmit data to the Vicon Office System where office personnel receive, track and monitor this information via their desktop PC.

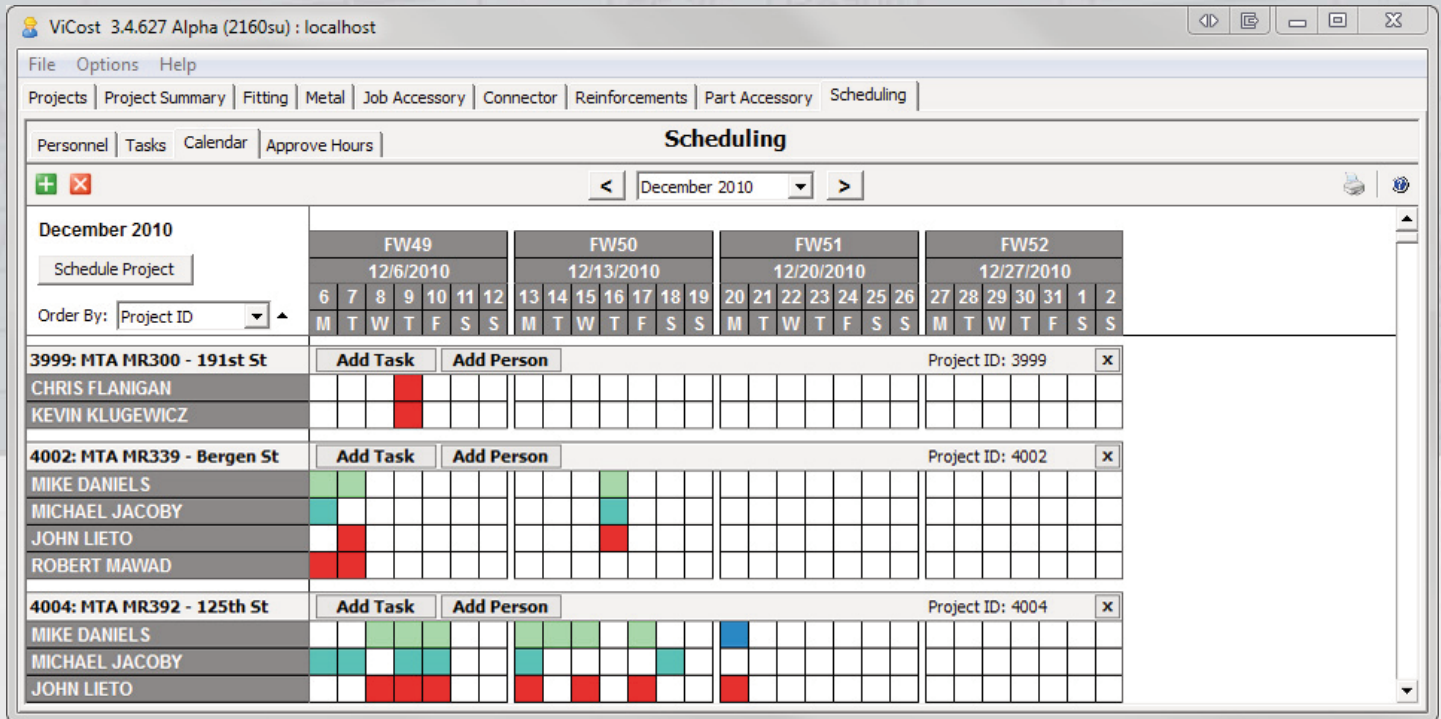


features & benefits

- ▶ Track status of fittings being fabricated in the shop (i.e. data entered, job cut, fitting assembled)
- ▶ Track fittings and accessories to the job site
- ▶ Create requisitions and requests for items needed for projects and track their status (i.e. order pending, order staged, order on job site)
- ▶ Create pick tickets to pull from inventory
- ▶ Create vendor purchase orders that can be tied in to Quickbooks accounting software
- ▶ Request assets necessary for projects
- ▶ Provides asset and accessory reports including pictures & bar codes
- ▶ Provides inventory management, including reports
- ▶ Generate delivery manifests which can include fabricated items, purchased items, inventory items and assets.
- ▶ Interface capability with Vi-Call System

VICON Value Added Software

Vi-Cost Job Costing and Vi-Schedule Scheduling Software with Mobile App



Vicon Vi-Cost Job Costing and Vi-Schedule Scheduling Software

Vicon Job Costing and Scheduling Software is perfect for the shop who not only fabricates fittings, but also installs the job in the field. This value added software is a tool used to schedule and track jobs in the field and to calculate costs per job including material costs (i.e. metal, liner and accessories) and labor. It enables the user to plan and track the job process, outline production and installation costs, and create a report summarizing the entire fabricated and installed job.

features & benefits

- ▶ Synchronize to Vicon Vi-Soft machine program
- ▶ Track project related costs
- ▶ Provide an accurate account of entire fabricated and installed job
- ▶ Electronically transmit time cards via SMART phone from the field
- ▶ Manage tasks by employee per project
- ▶ Vi-Schedule is available without Vi-Cost feature

All Value Added Software includes one office license and one mobile app.
Where applicable, additional licenses are available.

VICON Spiral Pipe Plasma Cutting System

Model V-SPP-430 (4"-30" Dia.)

Model V-SPP-460 (4"-60" Dia.)

Model Shown



The Vicon Spiral Pipe Cutting System is the ideal solution for plasma cutting round pipe and spiral duct up to 10' long -- ranging in size from 4" to 60" diameter and in thickness from 26 to 16 gauge. Vicon's patent pending technology has the ability to end trim, miter and cut various shaped holes for precise location of tap connections, branches, elbows and register grills.

Vicon's ViSoft Spiral Pipe Software generates the desired cutting parameters and controls the longitudinal movement of the plasma torch, as well as the rotation of the pipe that is held by a rotational pipe chuck. The software not only generates patterns and shapes, but also has the ability to add allowances that increase or reduce the shape and pattern size for allowing connections either to or from other pipes or items.

features & benefits

- ▶ ViSoft incorporates a Pipe Fittings Library including Pipe Ends, Pipe Tap and elbows
- ▶ The Pipe Elbow Fitting will cut gore elbows out of Spiral Pipe
- ▶ The Pipe Ends Fitting will allow for cutting the ends of the pipe with mitered or tap-in patterns
- ▶ The pipe can be trimmed at one or both ends as well as cut into various lengths
- ▶ The Pipe Tap Fitting allows various shaped cutouts to be cut at any position along the pipe
- ▶ The software allows the user to manually place holes, miters, coping or trim cuts on the pipe at any given angle
- ▶ The program produces labels for round and spiral pipe
- ▶ Can be used as a stand-alone system or can be tied into an existing Vicon plasma cutting system

VICON Coil Line



VICON TDX Rollformer



VICON V8 Rollformer



Every machine in the VICON product line is designed, engineered, manufactured, and supported 100% in the USA. Every member of the VICON team is committed to delivering American made quality equipment and superior customer service to the industry - bearing in mind the necessary components for complete customer success.



VICON Duct Brake



VICON Pittsburgh Seam Closer



VICON Bearer



VICON Edge Notcher

VICON Coil Strip Feed Line





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