



HVAC Cutting Systems



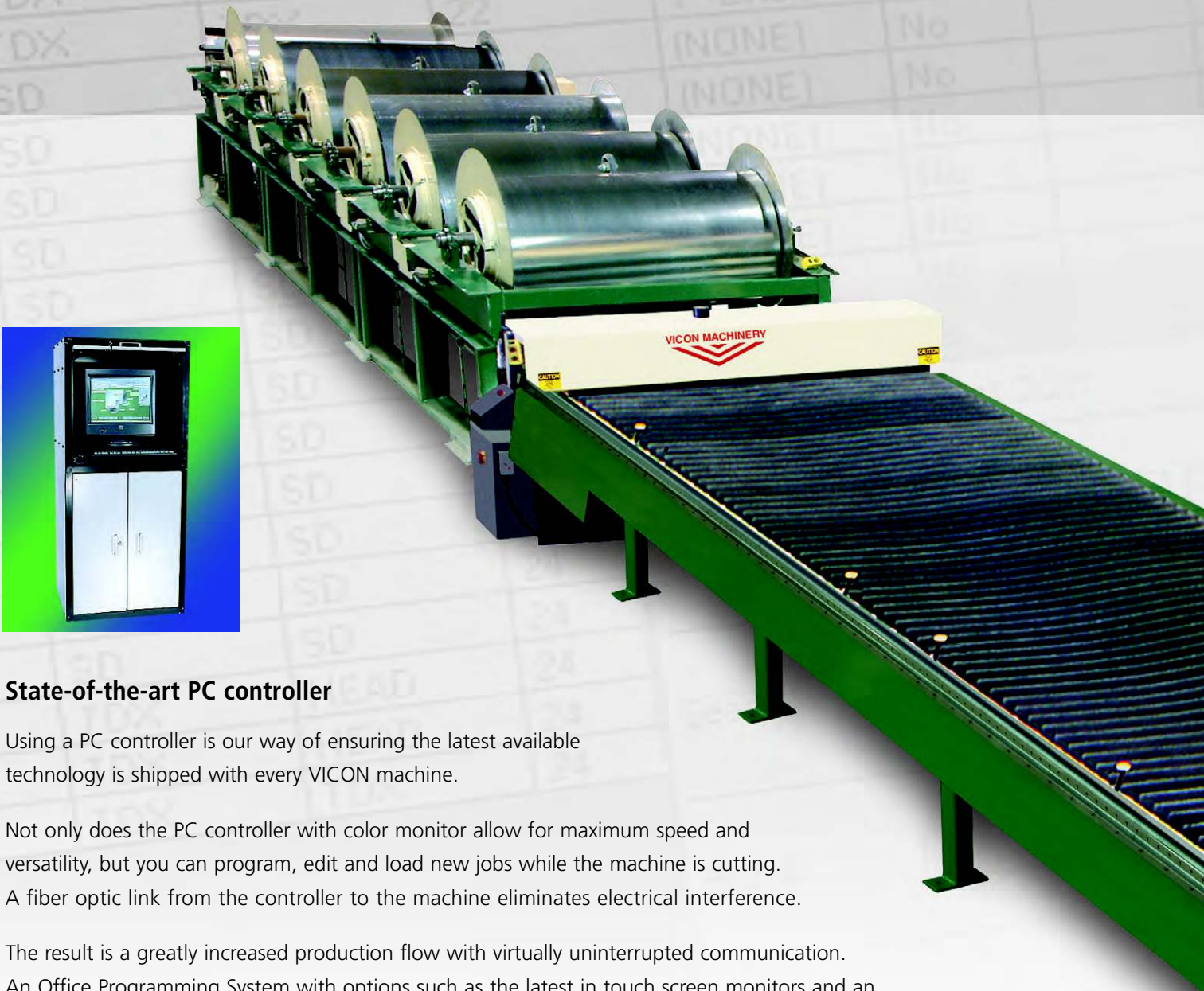
Plasma Automation Inc.

Where superior duct work begins.™

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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 the latest available technology is shipped with every VICON machine.

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. A fiber optic link from the controller to the machine eliminates electrical interference.

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 dual rack and pinion drives on both axes for enhanced positioning accuracy. The all 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 includes Auto Kerf and Auto Lead-In as well as a true CAD sketch program.

One Source. One Solution.

From quoting and CAD to cutting, Plasma Automation does it all. We build the machine, 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 are 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. If your need is conventional HVAC plasma cutting, duct liner cutting, or both – there is a VICON system engineered to best suit your needs.



VICON 8000 HVAC

Standard Sheet Metal Cutting System



This rugged, flexible machine provides 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. Pneumatic material stops and hold-downs eliminate sheet movement while cutting, reducing operator error and material waste.

features & benefits

- ▶ Standard 5'x10' cutting area with option for 6'x10' cutting area accommodates your shop requirements
- ▶ Rugged drives are protected with travel limit switches minimizing system wear and tear
- ▶ All aluminum, low inertia gantry produces highly accurate parts and sharp corners and notches
- ▶ One-piece down draft table includes built-in automatic CNC controlled exhaust fan circuit (only on during cutting)
- ▶ Torch safety circuit disables the torch from firing, allowing operator to safely remove torch head from machine carriage when changing consumables
- ▶ State-of-the-art PC controller with color monitor for machine-side viewing of parts being processed
- ▶ Fiber optics communication between controller and machine eliminates electrical interference and provides easy diagnostics
- ▶ Torch choice flexibility for cutting a variety of materials from gauge up to 1/2" plate

options

- Office Programming System
- Touch Screen Monitor
- Industrial Grade PC Enclosure
- High Speed Motors - 2000 ipm

specifications

8000 HVAC Standard Table

Effective Cutting Area	(Standard)	5'x10'
	(Optional)	6'x10'
Material Capacity		28 gauge to 1/2" thick plate
Machine Length		144"
Machine Width	(Standard)	90"
	(Optional)	102"
Table Height		35"

VICON 8000 HVAC

Dual Table Sheet Metal Cutting System



You can increase your productivity by at least 40 percent with the VICON 8000 Dual Table System. This system offers all of the same features and benefits as the standard VICON 8000 system... and more!

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

features & benefits

- ▶ Standard 5'x20' cutting area with option for 6'x20' cutting area accommodates your shop requirements
- ▶ Rugged drives are protected with travel limit switches minimizing system wear and tear
- ▶ All aluminum, low inertia gantry produces highly accurate parts and sharp corners and notches
- ▶ One-piece down draft table includes built-in automatic CNC controlled exhaust fan circuit (only on during cutting)
- ▶ Torch safety circuit disables the torch from firing, allowing operator to safely remove torch head from machine carriage when changing consumables
- ▶ State-of-the-art PC controller with color monitor for machine-side viewing of parts being processed
- ▶ Fiber optics communication between controller and machine eliminates electrical interference and provides easy diagnostics
- ▶ Torch choice flexibility for cutting a variety of materials from gauge up to 1/2" plate
- ▶ Flexibility to cut two 10' sheets or sheets up to 22'
- ▶ Ideally suited to fully integrate with the VICON Plasma Coil Feed System

options

- Office Programming System
- Touch Screen Monitor
- Industrial Grade PC Enclosure
- High Speed Motors - 2000 ipm

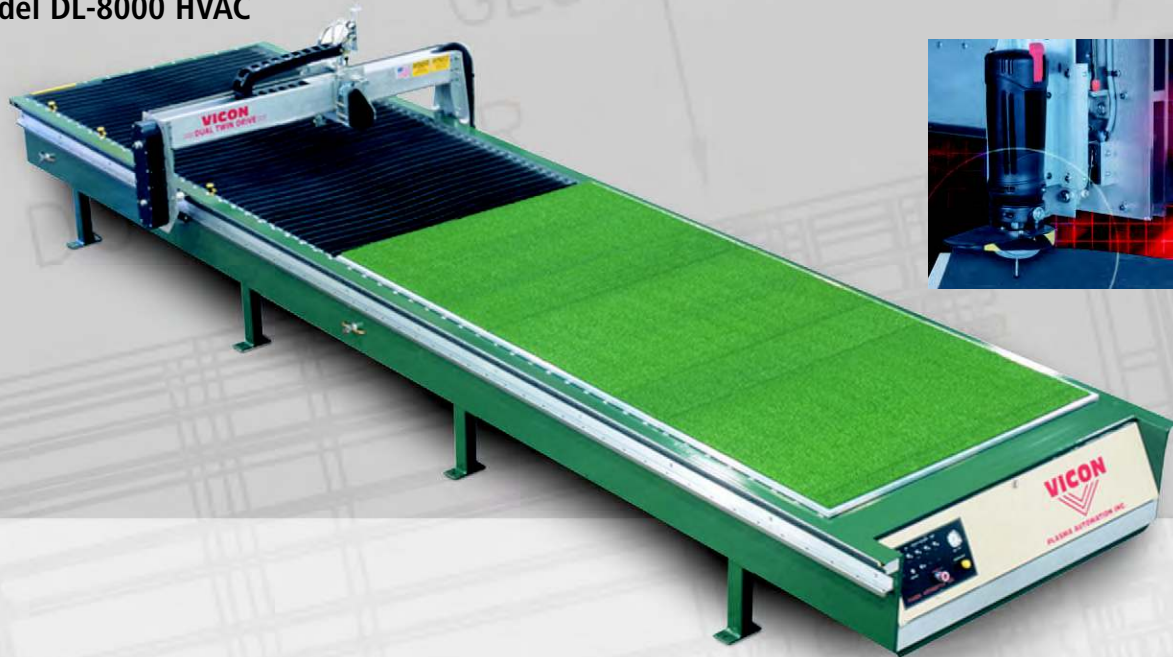
specifications

8000 HVAC Dual Table

Effective Cutting Area	(Standard)	5'x20'
	(Optional)	6'x20'
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 DL-8000 HVAC



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 DL-8000 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.

features & benefits

- ▶ A patented system holds and cuts duct liner reducing waste (Patent No. 6,540,456)
- ▶ Synthetic table surface for smooth liner cutting
- ▶ VICON HVAC Cutting Software produces two geometries – one for sheet metal and one for duct liner
- ▶ Dual rack and pinion drive on both axes provide greater positioning accuracy
- ▶ Aluminum gantry results in “low inertia” for superb part accuracy
- ▶ Roller guides on both axes for greater rigidity, stability, and accuracy
- ▶ Travel limit switches at the ends of each axis to limit wear
- ▶ Lubrication free gears and bearings reduce maintenance

options

- Office Programming System
- Touch Screen Monitor
- Industrial Grade PC Enclosure
- Space saving 5'x10' Cutting Area
- High Speed Motors - 2000 ipm

VICON Duct Liner Cutting System

Model SL-8000



An economical stand-alone machine, the SL-8000 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

- ▶ A patented system holds and cuts duct liner reducing waste (Patent No. 6,540,456)
- ▶ Automatic liner downsizing through VICON ViSoft Cutting Software
- ▶ Synthetic table surface for smooth liner cutting
- ▶ Dual rack and pinion drives in both axes for greater rigidity and positioning accuracy
- ▶ Built in acoustical liner decoiler
- ▶ Aluminum gantry enables "low inertia" for greater part accuracy
- ▶ High speed traversing and cutting speeds in excess of 1000 ipm
- ▶ Travel limit switches at the ends of each axis to limit wear
- ▶ Lubrication free gears and bearings reduce maintenance
- ▶ Available in 5'x10' and 6'x10' 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' effective cutting area
- ▶ High speed traversing and cutting speeds in excess of 2000 ipm
- ▶ Precision LM-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

options

- 5'x20', 6'x10', and 6'x20' table sizes
- Patented Bar Code System nests and sorts the liner to the corresponding metal
- Office Programming System
- Touch Screen Monitor
- Industrial Grade PC Enclosure

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 most any brand plasma table

options

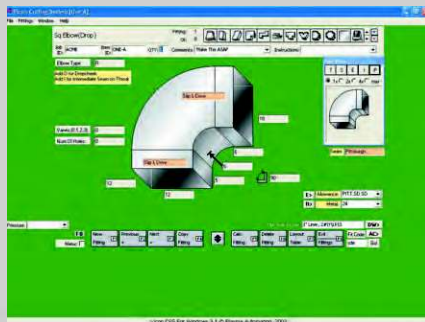
- Overfed coil cradles available to reduce floor space
- 72" coil width

specifications

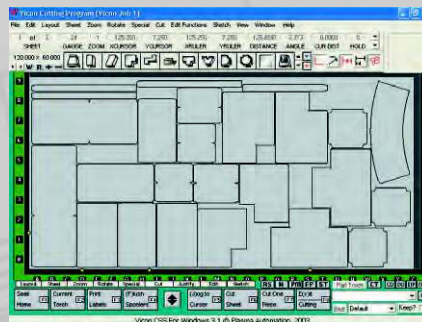
	Overall Length*	
	Underfed Cradle System	Overfed Cradle System
One Cradle	17' 10"	12' 4"
Two Cradles	22' 2"	16' 8"
Three Cradles	26' 6"	21' 0"
Four Cradles	30' 10"	25' 4"
Five Cradles	35' 2"	
Six Cradles	39' 6"	

*Not including Plasma machine

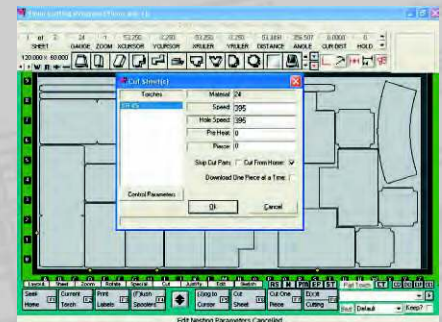
ViSoft HVAC Cutting Software



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 fitting codes can be saved with pre-defined variations of fittings including dimensions, seam and connector types, gauges, and pressure class information, if desired, to speed 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.

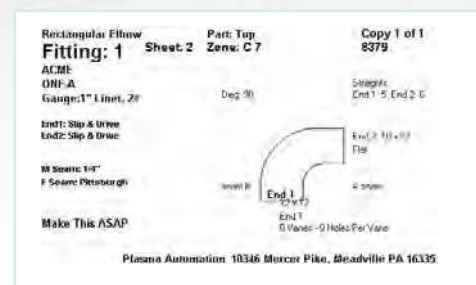
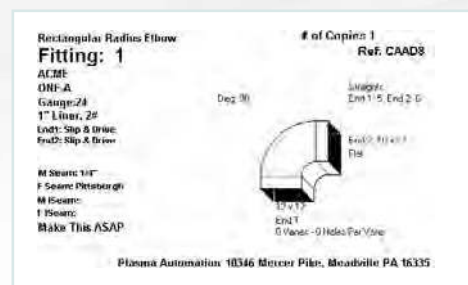
Special parts can be drawn using the true CAD Sketch feature, and CAD created .dxf files can be downloaded to the software for import and cutting on your machine.

features & benefits

- ▶ 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
- ▶ On-site software training provided by our trained, HVAC experienced technicians
- ▶ Ease of fitting editing allows for quick and trouble-free changes and correction

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.

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



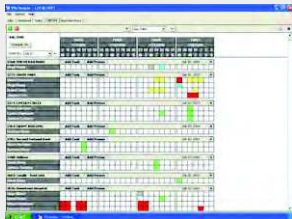


ViSoft easily integrates with your existing CAD & CAM software programs

When it comes to integration, Vicon has it covered. Communicate flawlessly between the Vicon plasma, liner, and coil line systems ... as well as our own IntelliCAD HVAC Drafting Software.

VICON Value Added Products

Optimize your business for greater efficiency!



ViCost & Scheduling Software

ViCost & Scheduling software helps you determine your overhead, costs-per-employee, job scheduling and profits in one easy software package. ViCost tracks material costs, such as metal, liner and accessories, as well as labor costs by the job. This task-based software will help you plan and track the job process and outline production and installation costs.



ViCall System

ViCall facilitates communication between the shop and field. The solution will eliminate errors due to miscommunication and will help save time and money. Items such as fittings and accessories needed on the job can be called in electronically from the field without interruption of personnel. ViCall runs on universal PDA broadband allowing personnel to cost-effectively communicate on their handheld phones wherever they are located. Time cards may even be called in electronically.



ViBar Tracking System

ViBar tracking system will help you stay organized. It will track the location of your fittings, tools and other job related items between the shop and job site. ViBar can also be configured to track the progress of items being fabricated in your shop. Time and money will be saved as tools and parts are no longer lost or misplaced between the shop and job locations.



VICON Coil Line



VICON TDX 16 Station and
TDX II 12 Station Rollformers



VICON V8 Rollformer and
V8 Rollformer with Slitter



VICON Coil Strip Feed Line

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