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 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.

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.

From quoting and CAD to cutting, 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.
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.

### Specifications

**HVAC 510**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Cutting Area</td>
<td>5’ x 10’</td>
<td>6’ x 10’</td>
</tr>
<tr>
<td>Material Capacity</td>
<td>28 gauge to 1/2” thick plate</td>
<td></td>
</tr>
<tr>
<td>Machine Length</td>
<td>144”</td>
<td></td>
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<tr>
<td>Machine Width</td>
<td>(Standard) 90”</td>
<td>(Optional) 102”</td>
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<td>Table Height</td>
<td>35”</td>
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</table>

**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 ½” 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, ViCall, ViBar
- Download interface from most CAD/CAM software programs
- Office programming system including PC, software, LAN cable and hub
- Industrial grade PC Control cabinet
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 you continue cutting on the other, resulting in greater throughput and faster job completion.

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**HVAC 520**

<table>
<thead>
<tr>
<th>Specification</th>
<th>(Standard)</th>
<th>(Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Cutting Area</td>
<td>5’ x 20’</td>
<td>6’ x 20’</td>
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<tr>
<td>Material Capacity</td>
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<tr>
<td>Machine Length</td>
<td>288”</td>
<td></td>
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<tr>
<td>Machine Width</td>
<td>(Standard) 90”</td>
<td>(Optional) 102”</td>
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<td>35”</td>
<td></td>
</tr>
</tbody>
</table>

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- Torch choice flexibility for cutting a variety of materials from gauge to ½” 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.

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**Options**

- Vicon ViSoft Value Added Software Modules - ViCost, ViCall, ViBar
- Download interface from most CAD/CAM software programs
- Office programming system including PC, software, LAN cable and hub
- Industrial grade PC Control cabinet
VICON Sheet Metal/Duct Liner Combination Cutting System
Model HVAC 520 DL

**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.

**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.

**options**

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

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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.

**options**

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

**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’ or 6’ X 10’ 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
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**

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

**Specifications**

<table>
<thead>
<tr>
<th>Underfed Cradle System</th>
<th>Overfed Cradle System</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Cradle</td>
<td>17’10”</td>
</tr>
<tr>
<td>Two Cradles</td>
<td>22’2”</td>
</tr>
<tr>
<td>Three Cradles</td>
<td>26’6”</td>
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<tr>
<td>Four Cradles</td>
<td>30’10”</td>
</tr>
<tr>
<td>Five Cradles</td>
<td>35’2”</td>
</tr>
<tr>
<td>Six Cradles</td>
<td>39’6”</td>
</tr>
</tbody>
</table>

*Overall Length* includes infeed arm and .5’ entry of plasmas. *Not including Plasma machine*
ViSoft HVAC Cutting Software

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.

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

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 experienced HVAC 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.
When it comes to integration, Vicon has it covered. Communicate flawlessly between the Vicon plasma, liner, and coil line systems ... as well as most CAD HVAC Drafting Software Programs.

**ViSoft & 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.
ViBar software allows you to track information about projects. Complete with a comprehensive project screen with an array of sorting filters and reports that include pictures & bar codes.

ViBar allows you to break your project into jobs

Fabricated Items
- Ability to get total weight and material of project in one report
- Creates fabricated tickets for use in shop to update status
- Tickets include pictures, bar code and all miscellaneous parts needed to install
- Track status of items being fabricated in shop (i.e. data entered, cut, assembled, etc.)

Purchasable items
- Create requests for projects and track status (i.e. on order, staged, on job site)
- Create pick tickets to pull from inventory
- Create vendor purchase orders that can interconnect with QuickBooks
- Inventory management, including reports

Asset Tracking
- Request assets for projects
- Reports including pictures & barcodes

Delivery Manifests
- Manifests combine fabrication items, assets, purchasable & inventory items

ViBar Mobile connects directly to Vicon Office Systems
VICON Mobile (Apps)

ViCall Mobile Application System

ViCall Mobile connects directly to Vicon Office Systems

ViCall mobile software communicates with ViBar Office Systems for requesting and tracking items that are in ViBar inventory system. ViCall also sends requested fittings to the Vicon Cutting software that communicates with all the Vicon machines, coil line, plasma cutter, liner cutter and Cut to Length Machines. ViCall Software operates on Android & Windows Mobile phones.

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Field personnel can request items needed for project:
- Fabricated items automatically transferred into Vicon cutting and nesting program
- Purchasable & inventory items
- Assets
- Create & Update manifests
- Electronic time cards that connect to ViCost

ViCall sends text messages and e-mails to the personnel that are to receive the field orders
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 increases or reduces 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 also 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’s full line of HVAC manufacturing systems are specially engineered to help duct shops compete in today’s highly competitive environment.