



Coil Line Duct Processing Systems



Vicon Machinery LLC

Where superior duct work begins.™

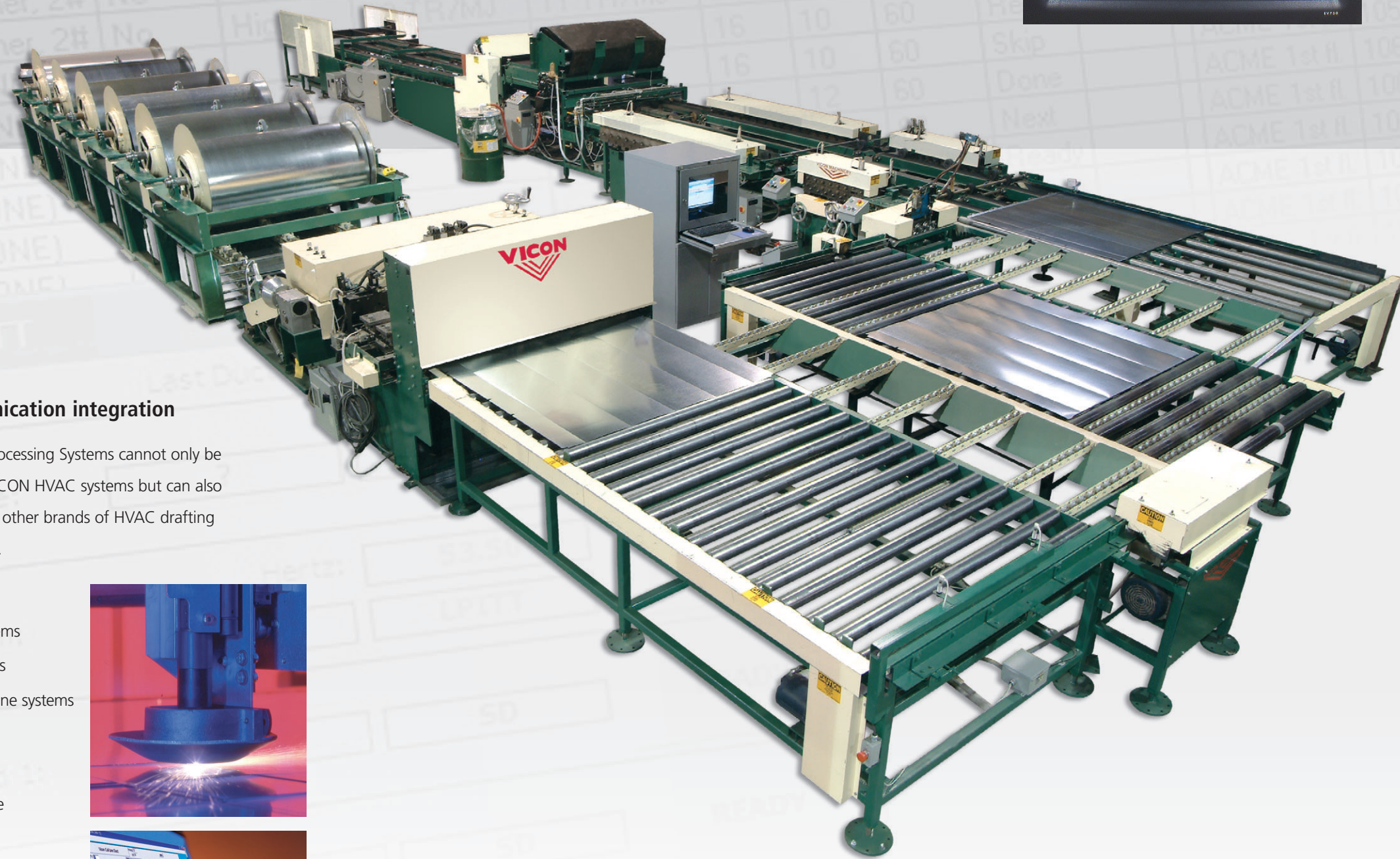
Where superior duct work begins.

The VICON selection of HVAC manufacturing systems, such as the Duct-Line Express, Duct-Line Express Shear-n-Bend and the Full Coil Line, are specially engineered to help duct shops compete in today's highly competitive environment.

A complete turn-key solution, VICON Coil Lines are the ideal solution for the complete automation of the duct fabrication process. Fast, reliable and accurate, these state-of-the-art coil lines reduce material waste and operating costs while producing a superior end product. Because the more accurate your duct work manufacturing process, the easier your duct work will be to assemble and install.

ViSoft Coil Line software program for Windows®

ViSoft software is menu-driven, user-friendly and can be set to SMACNA standards or customized to your shop standards. Continually updated and supported by VICON's experienced team of programming engineers, ViSoft ensures enhanced productivity and superb part accuracy.



State-of-the-art PC controller

VICON's PC controller with color monitor allows for maximum speed and versatility in the processing of jobs. The result is a greatly increased production flow.

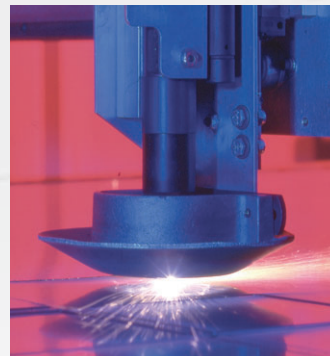
- Maximum speed and versatility: program, edit, and load new jobs while system is running
- User-friendly and practical "Duct Entry Screen"
- Automatic "Duct Sorting" with user-defined settings sorts by gauge, connection, seam, piece type (lined or unlined), or any other variable
- Easy "Multiple Job Programming" allows operator to run a "hot" job without losing jobs previously programmed or run
- State-of-the-art "Fiber Optic Communication I/O" is immune to electrical interference and makes machinery installation and diagnosis easy
- Increased productivity with optional Office Programming System

Complete communication integration

VICON Coil Line Duct Processing Systems cannot only be integrated with other VICON HVAC systems but can also be integrated with most other brands of HVAC drafting and estimating software.

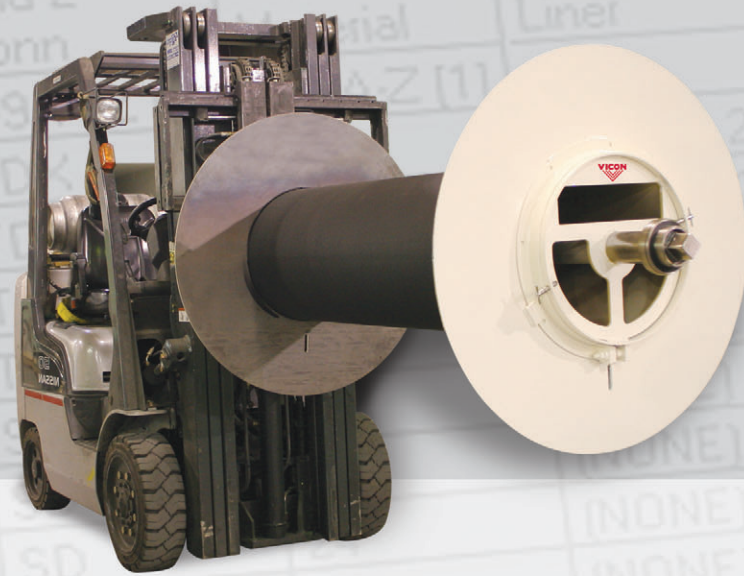
VICON systems include:

- Plasma cutting systems
- Liner cutting systems
- Slip and drive strip line systems
- Vane machines
- Bar-coding system
- Job costing software



VICON Coil Handling System

Model 5XC-G



With a VICON style drum mandrel, the VICON Coil Cradle System is an innovative solution for the easy loading of coils. The forklift is converted into a "coil loading truck" by holding the mandrel on the fork blades. Convenient removable coil keeper end plate is light enough for just one person to attach it to the drum mandrel. Coils will be spooled on VICON's exclusive Coil Drum Assemblies for the fastest coil loading available (patent pending).

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. Roller track guiding system provided to guide the end of the desired coil up to the infeed guide ramp on the duct blanking system.

Benefits

- Smooth material feed with hydraulic powered drive
- Extremely smooth, quiet operation with pad-less and belt-free drum
- Hassle-free automatic loop sensing system

specifications

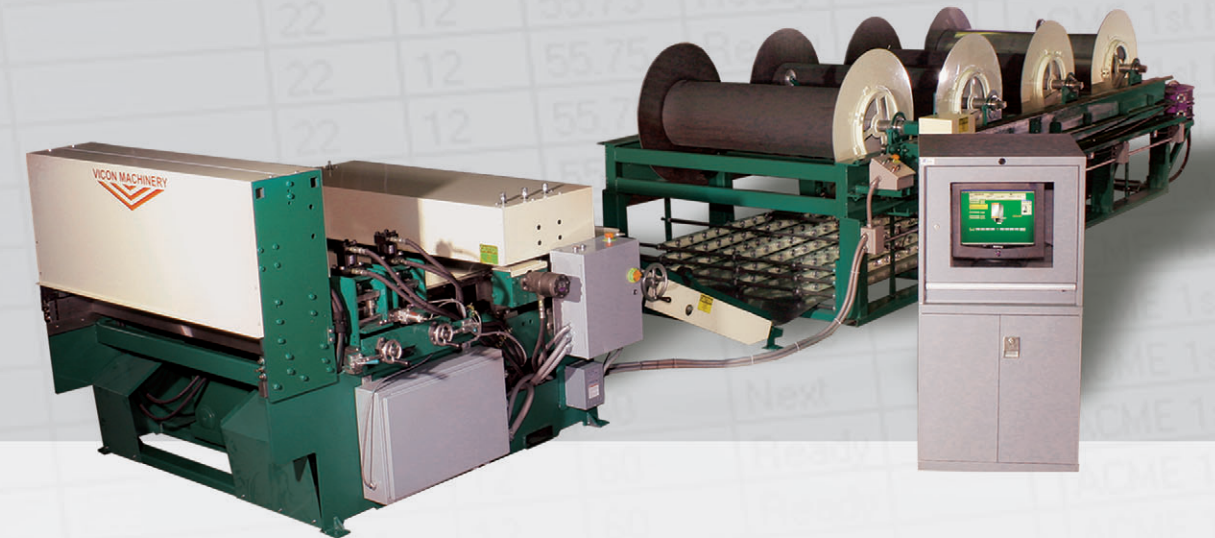
- ▶ **Number of Stations: 1 - 6**
- ▶ **Maximum Coil Weight: 12,000 lbs per station**
- ▶ **Maximum Coil Width: 60"**
- ▶ **Maximum Coil O.D.: 42"**
- ▶ **Coil I.D.: 20"**

Options

- Lifting devices available for overhead crane loading

VICON Duct-Line Express

Model V-60-16-N Automatic Rectangular Duct Blanking System



The Duct-Line Express front end is expandable to a Full Coil Line system at anytime. This practical solution includes an uncoiler (patent pending), feeder, straightener unit, beader, notching unit, and heavy duty shear.

Benefits

- Pneumatic back-up wheels at each coil station for safe band removal and positive coil feed
- Robust, gear-driven four (4) roll straightener with 4" diameter rolls
- Heavy duty notching unit with combination dies to provide Slip & Drive, TDX, Snaplock and Pittsburgh notch patterns
- Dual hydraulic cylinder shear with high carbon, high chrome D-2 shear blades. Fully adjustable heavy duty gibs allow for independent blade gap adjustment. Heavy duty torsion synchronization shaft insures proper shear angle throughout the stroke
- VICON PC based control system capable of controlling a complete system
- Ring type beading with SMACNA spacing
- Hands-free coil feed

Options

- 72" Coil width
- Precision, high speed servo system
- Tie rod hole punch unit Model HP-5 provides tie rod and damper holes per SMACNA standards (or your own standards)
- Economical overfed coil cradle systems for smaller overall footprint

specifications

- ▶ **16-30 Gauge mild steel capacity**
- ▶ **12,000 lbs maximum coil capacity (with coil drive)**
- ▶ **Coil widths from 48" - 60" standard**
- ▶ **Up to six coil stations available**
- ▶ **Quick-change coil spools (patent pending)**
- ▶ **Hydraulic coil drive**
- ▶ **Powered in-feed guide ramp with hand wheel for change in coil widths**
- ▶ **Approximately 70 FPM line speed**

VICON Duct-Line Express Shear-n-Bend with Optional Cleat Forming

Model V-60-16-N-SNB



The Duct-Line Express Shear-n-Bend is expandable to a Full Coil Line system at anytime. This practical solution includes an uncoiler (patent pending), feeder, straightener unit, beader, notching unit, heavy duty shear, and bending unit.

Benefits

- Pneumatic back-up wheels at each coil station for safe band removal and positive coil feed
- Robust gear-driven four (4) roll straightener with 4" diameter rolls
- Ring type beading with SMACNA spacing
- Heavy duty notching unit with combination dies to provide Slip & Drive, TDX, Snaplock and Pittsburgh notch patterns
- Dual hydraulic cylinder shear with high carbon, high chrome D-2 shear blades. Fully adjustable heavy duty gibs allow for independent blade gap adjustment. Heavy duty torsion synchronization shaft insures proper shear angle throughout the stroke
- Rugged bending unit to form the male Pittsburgh edge as well as either an L-section, U-section, or full wrap duct
- VICON PC based control system capable of controlling a complete system
- Hands-free coil feed

Options

- 72" coil width
- Precision, high speed servo system
- Tie rod hole punch unit Model HP-5 provides tie rod and damper holes per SMACNA standards (or your own standards)
- Male button punch system for Snaplock male edge
- Cleat edge roll forming heads to form the female cleat edges on L-section or on full wrap duct section
- Economical overfed coil cradle systems for smaller overall footprint

specifications

- ▶ **16-30 gauge mild steel capacity**
- ▶ **12,000 lbs maximum coil capacity (with coil drive)**
- ▶ **Coil widths from 48"- 60" standard**
- ▶ **Up to six coil stations available**
- ▶ **Quick change coil spools (patent pending)**
- ▶ **Hydraulic coil drive**
- ▶ **Powered in-feed guide ramp with hand wheel for change in coil widths**
- ▶ **Approximately 70 FPM line speed**

VICON Lockseam System and Transfer / Feed Conveyor System

Model V-510-LS and Model V-510-90



The VICON Lockseam and Transfer and Feed Conveyor system is built for ease of use and reliability. The system accepts beaded, notched, and sheared blanks and automatically forms the Pittsburgh or Snaplock seams. It then transfers the blank to the dual head cleat edge former or the dual head TDX rollformer. VICON's "Accessible Design Concept" creates a system free of overhead devices, eliminating any possibility of miss-feeds or jams. This "open top" design allows feeding of oversize blanks to the TDX, liner and brake systems.

Benefits

- Forms Pittsburgh and Snaplock seams automatically
- Female seams and male seams formed independently eliminating tapered edges and duct "twist"
- Chain driven, heavy duty roller transfer conveyors
- Positive roll form feed system to insure square formation
- Quick changeover on female lock through the use of a rotating rollformer frame
- Quick set selector for button punch on male edge
- Material removal bypass feature allows for blank removal of sheets to be plasma cut or used for other operations

Options

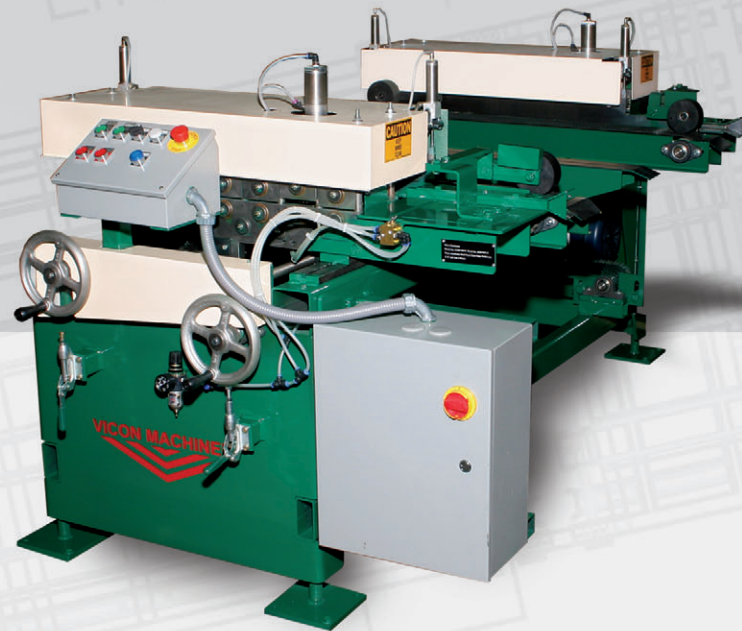
- Dual head system designed to minimize footprint and maximize productivity when shop floor space is limited
- Automatic duct sealant systems

specifications

- ▶ **Heavy duty roll form heads**
- ▶ **120" maximum and 14" minimum duct stretch-out**
- ▶ **18-26 gauge mild steel capacity for Pittsburgh**
- ▶ **20-26 gauge mild steel capacity for Snaplock**
- ▶ **Lighter and heavier capacities available upon request**

VICON Dual Head Cleat Edge Former

Model V-CEF-DH-5



The VICON Dual Head Cleat Edge Former rollforms a 7/16" cleat edge on both ends of the duct.

Benefits

- Cleats can be formed on either the short or long leg of L-section or full wrap duct
- Pneumatically operated bypass guides with wedge-grip conveyors allow blanks to be fed through for other types of duct connections
- Reliable, quiet performance
- Accurate positioning with precision ball screws
- Large heavy duty bearings with inner races protect roll spindles and extend the life of the machine

Options

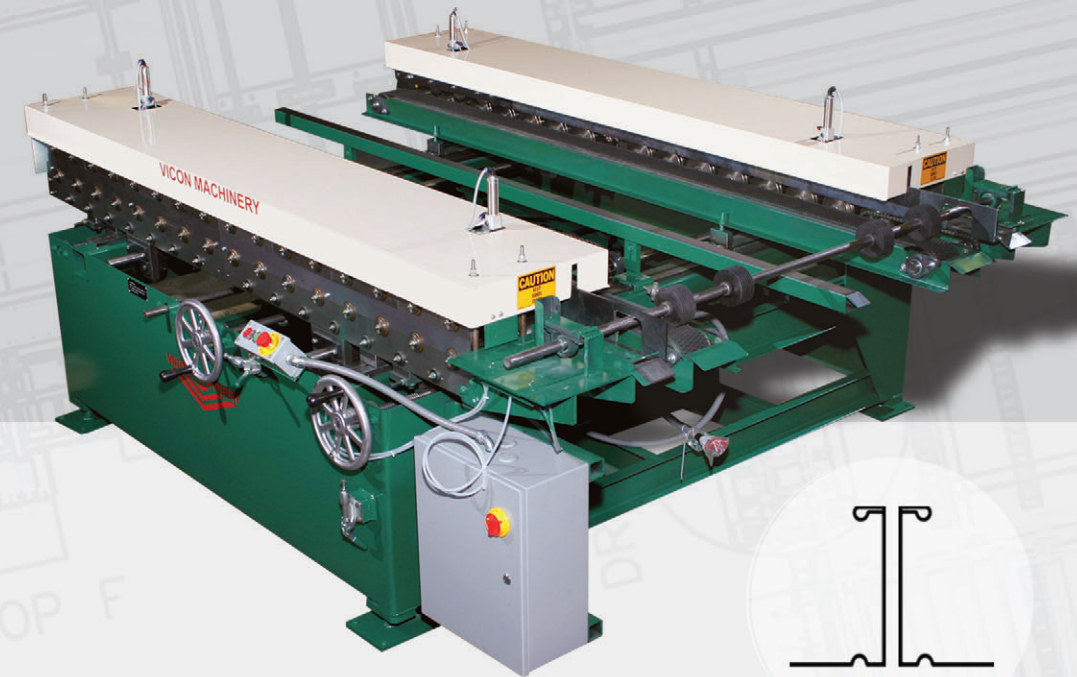
- 72" Coil Capacity

specifications

- ▶ 18-26 gauge mild steel capacity with no adjustments required
- ▶ 7/16" cleat edge with minimum cleat length of 4"
- ▶ 3 HP motor coupled to a heavy duty oil bath gear reducer
- ▶ 8 Station heavy duty conventional roll form heads
- ▶ Heavy duty roller chain drive (no belts)
- ▶ Robust 1" diameter stress proof roller spindles

VICON Dual Head TDX Rollformer

Model V-TDX-DH-5



The VICON TDX Rollformer produces T-25 connections. Material is formed inside rather than outside for a smoother, safer edge.

Benefits

- Large heavy duty bearings with inner races protect roll spindles and extend the life of the machine
- Reliable, quiet performance
- Superior quality with 16 forming stations on each roll form head
- Accurate positioning with precision ball screws
- Pneumatically operated bypass guides with wedge-grip conveyors allow blanks to be fed through for other types of duct connections

Options

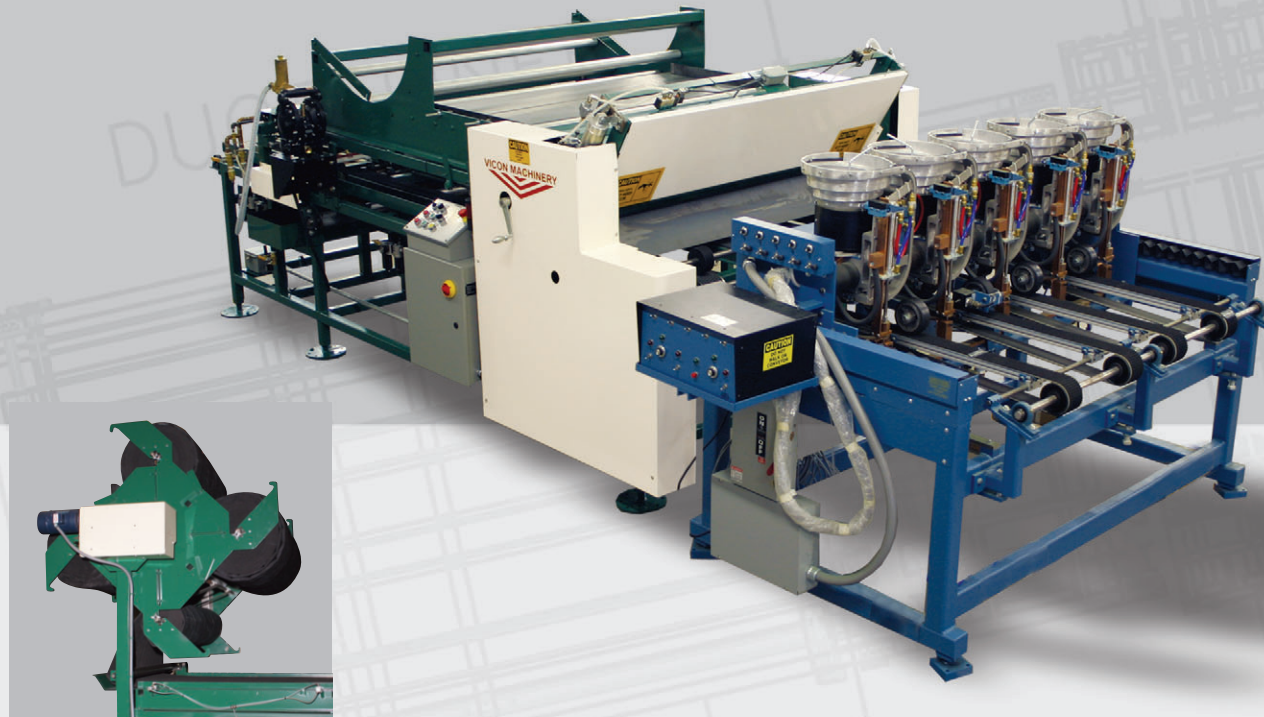
- 72" Coil capacity
- Heavier material capacity available
- "Grease duct" option available to produce right angle flange
- Other four bolt T-25 profiles also available

specifications

- ▶ 18-26 gauge mild steel capacity with no adjustments required when changing metal thickness
- ▶ 10 HP motor coupled to a heavy duty oil bath gear reducer
- ▶ Heavy duty roller chain drive (no belts)
- ▶ Rugged 1-1/4" diameter stress proof roller spindles

VICON Automatic Duct Liner Application System

Model V-510-DD



Optional Four Position Insulation Coil Holder (patent pending)

The VICON Automatic Duct Liner Application System uncoils duct liner, applies liner adhesive to the sheet metal and automatically pins the liner to the sheet metal.

Benefits

- Push button control allows fast, safe and easy threading and crop cutting
- Heavy duty liner shear with double-sided D-2 shear blade for extended life
- Rows of pins spaced to SMACNA standard for low and high velocity air flows (pin placement can be customized via the control system)
- Unit automatically controlled by the VICON Control System
- Easy, open access to glue heads for cleaning

Options

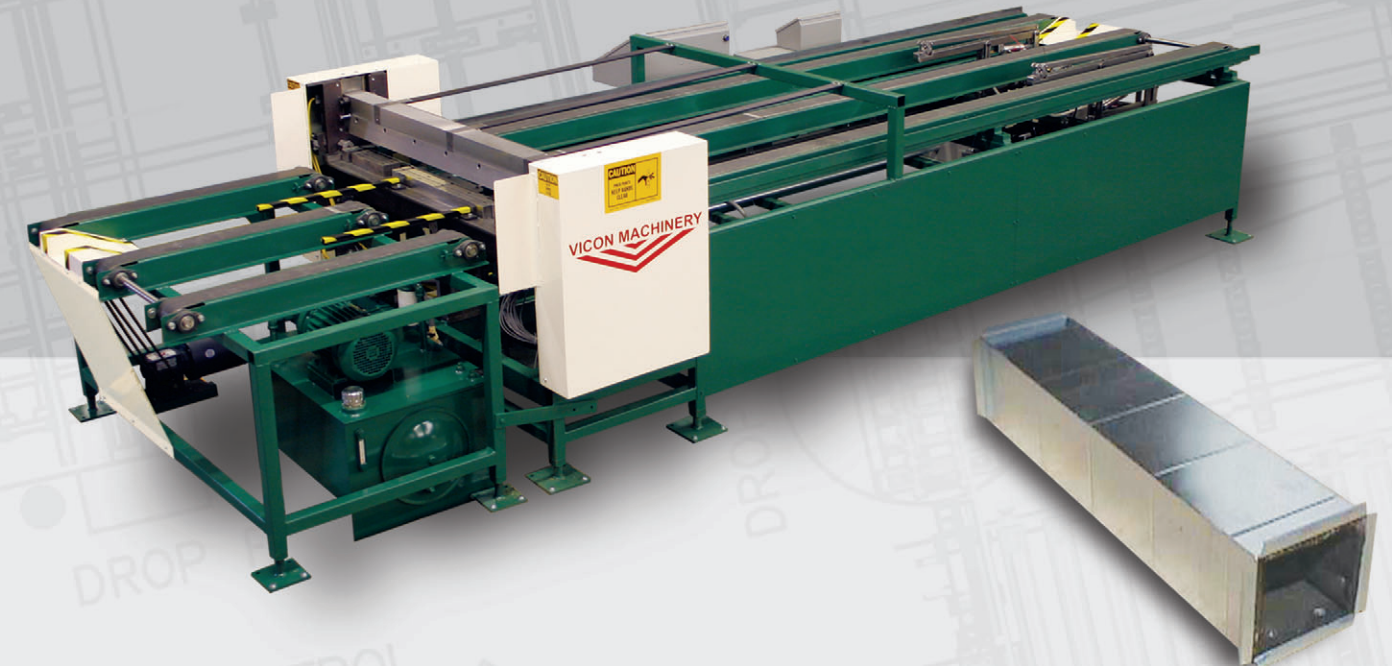
- 72" Coil Capacity
- Four position insulation coil holder to allow for rapid change of insulation sizes

specifications

- ▶ **Automatic adhesive extrusion application system**
- ▶ **Multi-speed drive for optimum pinning speed or bypass of unlined duct**
- ▶ **Designed to apply 44", 47", 48", 56", 59" and 60" wide liner**
- ▶ **Low profile liner cradle/uncoiler**
- ▶ **Multi-head pin spotter: choice of Duro-Dyne® or Gripnail®**

VICON Full Wrap Automatic Brake System

Model V-516B-FW



The VICON Full Wrap Automatic Brake System is a heavy duty 5' hydraulic bending unit. Vicon TDX full wrap lined duct shown above.

Benefits

- Fast accurate bends, high production with Servo-driven front gauge gripper/ejector system
- Reliable "Time Based Logic" eliminates need of adjustments to external sensors
- Multiple safety features include manual gripper clamp override, manual brake cycling, and service mode control
- No adjustments needed when running lined versus unlined duct

Options

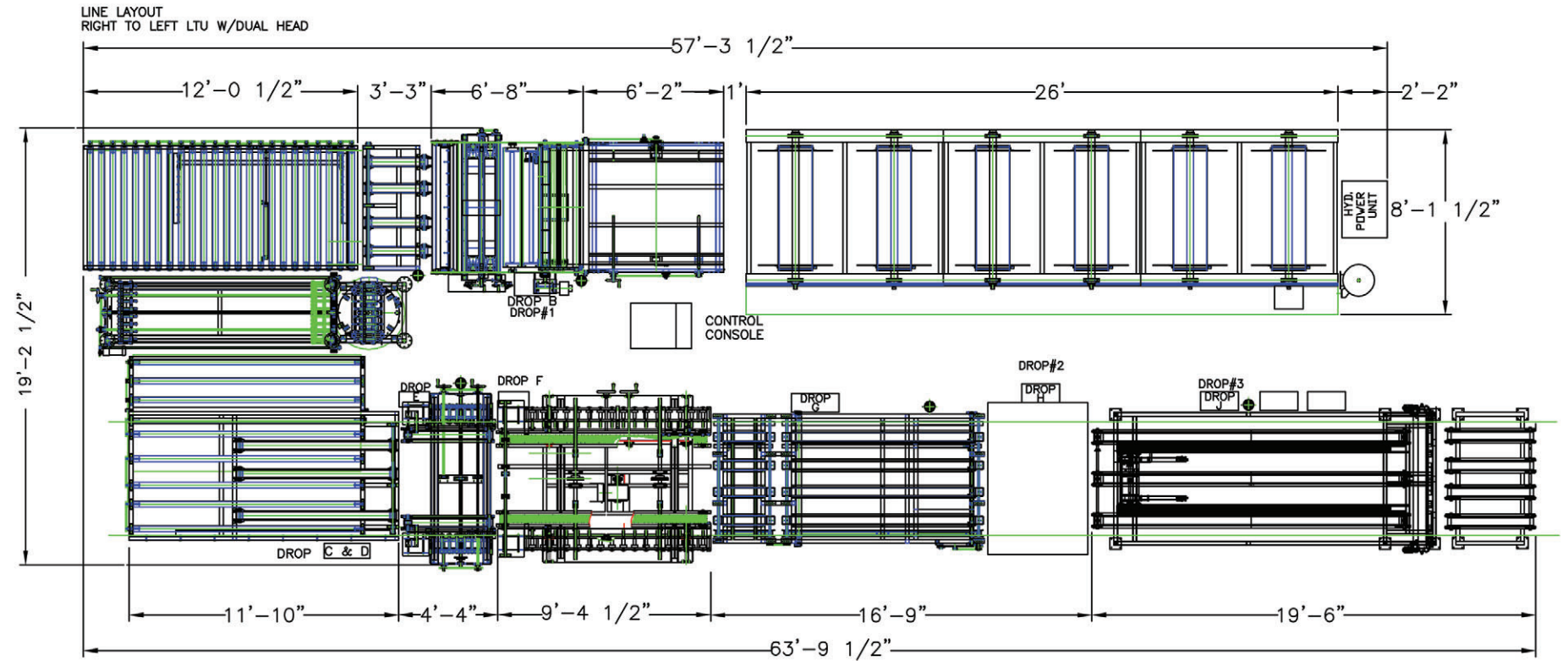
- 72" Coil Capacity
- L-Brake only

specifications

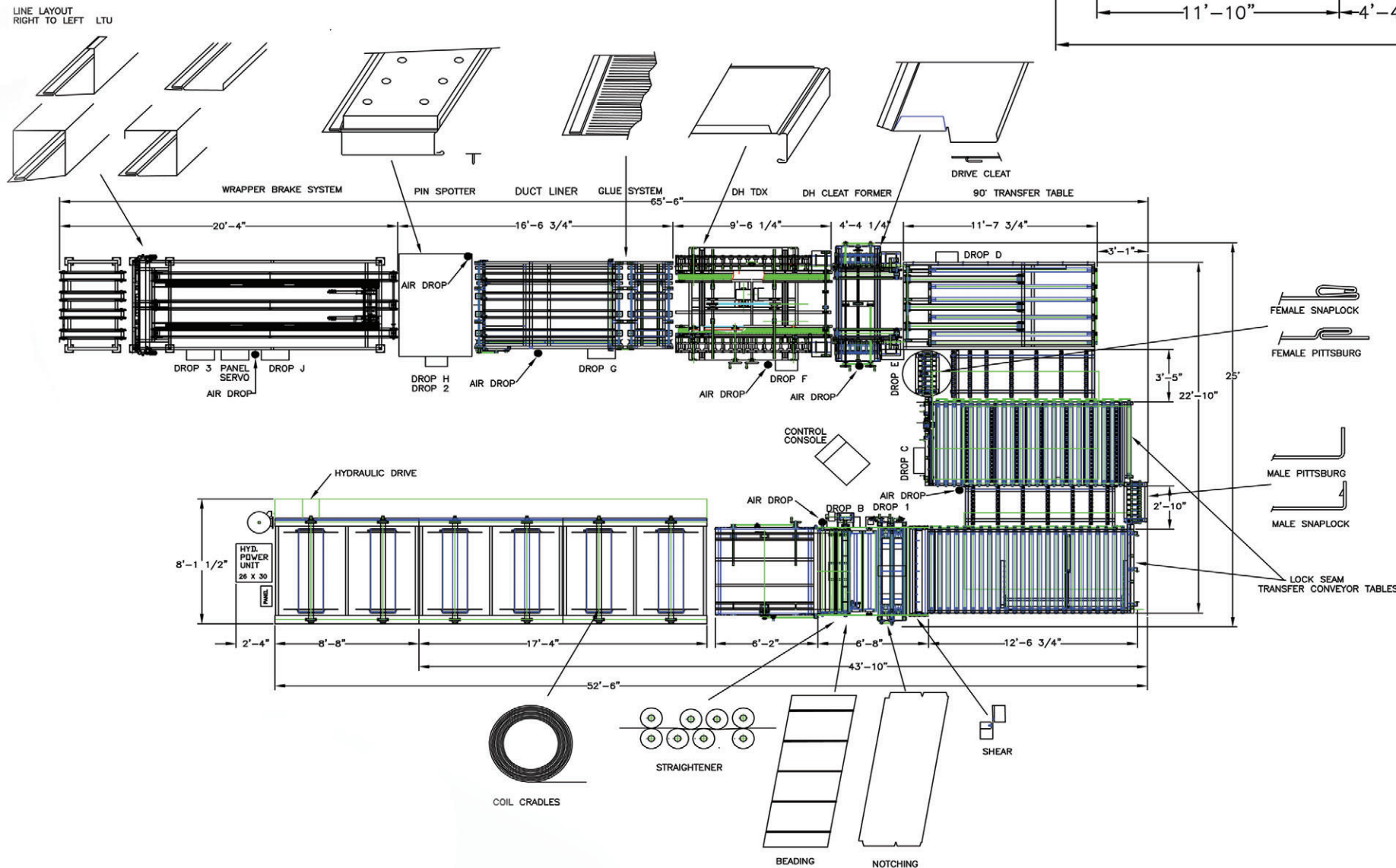
- ▶ **Heavy duty 5' hydraulic bending unit with 16-26 gauge mild steel capacity**
- ▶ **System capable of L-section, U-section or full wrap duct (min. size for full wrap is 6" x 6" unlined), maximum capacity 120" wrap perimeter**
- ▶ **48" and 60" duct lengths for slip & drive/raw duct and 44" and 56" duct lengths for TDX duct**
- ▶ **Unit automatically controlled by VICON Control System**

Based on your duct shop floor plan, we can customize the size of your line to suit your specific space requirements. Z-shaped lines are also available.

VICON Dual Head System for Narrow Space Requirements

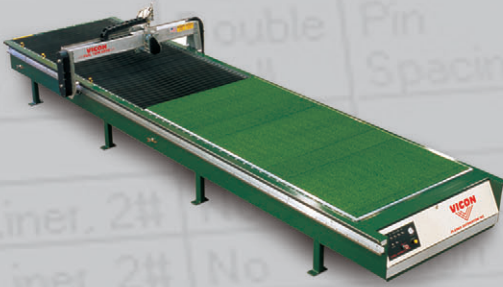


VICON Fully Automatic Split Lock Seam System



VICON Optional Dual Head Lockseam System
Minimize footprint when floor space is limited

VICON Model DL-8000



VICON Model 8000 HVAC



VICON TDX



VICON TDX II



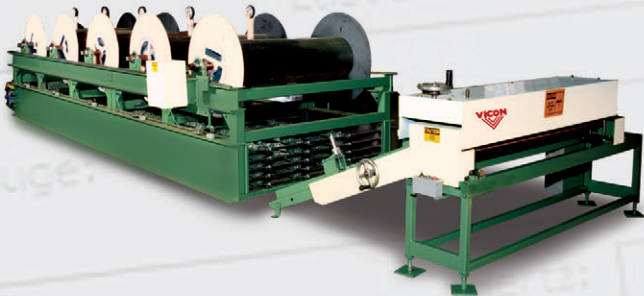
VICON V8 Rollformer



VICON Model SL-8000



VICON Plasma Feeder



VICON Vi-Stream
510-520 Waterjet



Our commitment to you...

At VICON Machinery LLC, 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 supporting you at no additional cost for as long as you own the machine, customer service is our top priority.

We are an industry leader in complete, turn-key solutions. From system design to machine commissioning, VICON 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... at no additional cost! VICON brings customers innovative technology, impeccable programming and unrivaled support.

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