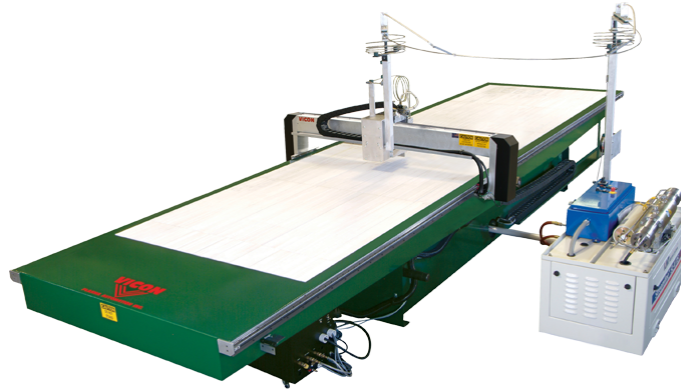


# VICON MODEL: VI-STREAM 510



## Vi-Stream Standard Features Include

- A Complete System Consisting of the Cutting Table, PC Controller, Cutting Software, and Water jet Intensifier.
- Single Source Support – At Plasma Automation Inc. we custom design and build the Vicon Cutting Machines as well as develop and write our own Cutting Software operating in the Windows® Environment
- A Unique One Piece Cutting Table – No assembly is required, no rails
- Dual Rack & Pinion Drives
- Dell PC Control with 3-Year Warranty
- On Site Machine Set Up and System Training Including Software Training for a Total of 3 Days by a Vicon Cutting Systems Technician at No Charge
- **Free Telephone Support for as long as you own the machine.**

## VICON MODEL VI-STREAM 510 CNC WATER-JET LINER CUTTING SYSTEM & HYPERTHERM HYPRECISION 15 INTENSIFIER

### 1.1 Cutting Table

The standard cutting table will have a **5' X 10' effective cutting area**. A steel one-piece frame requires no assembly in your shop. The aluminum gantry designed to be sturdy and rigid, yet it is lightweight for accurate cornering and positioning. It is driven with a double rack and pinion drive, which consist of **Dual high-speed digital motors with a traversing speed capable of 2000 ipm**. The torch carriage is also a rack and pinion drive. Single precision liner guide system on the X axis ensures excellent positioning accuracy which is enhanced by the built-in home position. Machine color is Forest Green with Tan trim. Machine equipped with **replaceable Stainless Steel Liner inserts** on the inside of table.

**Note: Maximum 4" material thickness clearance from the cutting head to the material support bed. The support bed is made up of replaceable water-jet cutting bricks which are considered a consumable item and will require replacement when worn.**

## 1.2 Vicon Microprocessor PC Controller

Vicon machines use a computer as the machine controller, for speed and versatility. It is multi-tasking, meaning the programming, loading of new programs, and editing can be done at the machine while it is operating. Prior computer knowledge is not needed since the machine is operated through the eight function buttons on the computer, which again are easier to operate than other types of machine controls. The sheet being worked on is clearly displayed on the monitor at the machine, as is the cutting table. This allows the operator to see the cutting patterns prior to and during the cutting process. Over the lifetime of the equipment, machine controllers eventually become obsolete, while computers are always available.

### Dell PC Controller

- Microsoft Windows® 7 Professional
- Core 2 Duo 3.3 GHz Processor
- 250 GB Hard Drive for program and data storage
- 4 GB SDRAM
- 17" LCD Flat Panel Display Color Monitor
- 256 MB Flash Drive USB Key
- Three-year limited parts warranty from Dell

## 1.3 Vicon ViSoft Cutting Software

Plasma Automation Inc. builds both the Vicon Plasma Cutting Systems and develops its own copyrighted Vicon Cutting Software. ***This ensures excellent customer support since all the service is handled by one source.*** The system accepts a DXF file import from most other programming or CAD systems. The Vicon program is compatible with Windows®7 Operating System.

Super Nest, in the Vicon Cutting Program for Windows is extremely cost efficient in that it utilizes material to the fullest. Individual parts are rotated and fitted together according to actual shape resulting in more parts per sheet, in the quickest possible time.

### Standard Software Features

- Unique customizable user interface for quick navigation. True Windows® menu-driven program for ease of use including letter codes for speed. "Quick key" commands help both the novice and expert achieve efficiency.
- Full user-defined HVAC software libraries including rectangular, round, double wall, and oval fitting types. Also includes standard and advanced geometric parts.
- 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.
- True CAD "Sketch" program for programming of any special parts.
- CAD "2D Downloading". Accepts 2D DXF files produced by any CAD system and then converts the file into Vicon machine language.
- Super Nest feature, Auto Segmenting of oversize fittings, Common Line Cutting and Nest-in-Holes capabilities.
- Completely flexible reporting capabilities and custom design label editing.
- Software is set to SMACNA standards.

- Options available for interface with Estimating and HVAC CAD Drafting Software. Programs include but are not limited to: Drawtech, Eastcoast CAD, InteliCAD, TSI, CAD Pipe, etc.

## **1.4 Water-Jet Liner Cutting System**

**Hypertherm Hyprecision 15** Specifically designed for high-pressure waterjet cutting, equipped with a low profile high pressure tubing assembly. 208/230/460/575-3-60 Hz The Hyprecision 15 Intensifier includes the following standard features:

### **AIT Intensifier Technology Features**

- Large diameter ceramic plungers
- Hi-Load piston design
- Electronically shifted
- Threadless cylinders reduce fatigue problems
- Screwless low pressure poppet design
- Accessable rod seal and plunger bearing

### **Construction Features**

- Compact frame
- Side covers to minimize sound level
- Adjustable leveling feet

### **Control Station**

PLC System Includes:

- Electrical motor on/off control
- Intensifier on/off control
- Monitoring system
- System warning and shut down
- Pierce pressure controls

### **Hydraulics & Electrics**

- UL approved electrical control panel
- Totally enclosed forced cooled (TEFC) 15 HP electrical motor
- Pressure compensated hydraulic pump
- Kidney loop-keeps oil cool when pump is in standby
- Plate heat exchanger

### **Additional Features**

- Inlet water filtration to .45 micron
- Large volume attenuator minimizes pressure fluctuations.
- Safety dump valve relieves system pressure in case of shutdown
- Matrix Full Tool Kit (PN-12084) and Basic Spares Kit (PN-14236)