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### *L-Star Series Overview*

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The L-Star is the best-selling large format cutting and engraving system on the market today. With a host of available options and sizes to meet the needs of the modern production shops it offers rapid payback and unsurpassed durability.

#### **Models:**

The LS Series is the MOST AFFORDABLE HIGH PERFORMANCE LASER ETCHING SYSTEM. Vyteck's LS3648, LS4896 and LS610 systems set the standard for versatility, high productivity, and low cost.



LS3648 (Work area 48"x36")



LS3648 with Roller Track



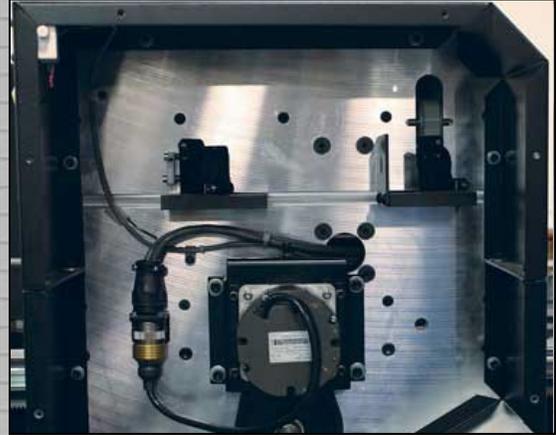
LS3648 with lift table



LS4896 (work area 48" x 96")

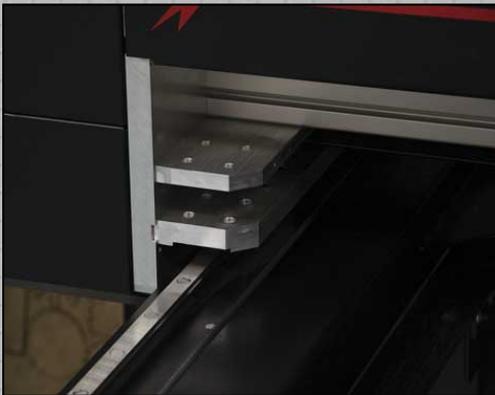
## L-Star Structure:

The Vytex L-Star is based on an XY gantry style positioning system. It utilizes dual brushless servo drives in the X axis (long axis) using high precision rack and pinion mechanism on each side. The Y axis uses a single brushless servo motor system driving a high precision belt system. The Y axis positioning system is the result of 2 years of



effort to bring the most accurate and fastest system for image engraving on the market the market. In fact we believe the Vytex L-Star is the fastest engraving system in the world.

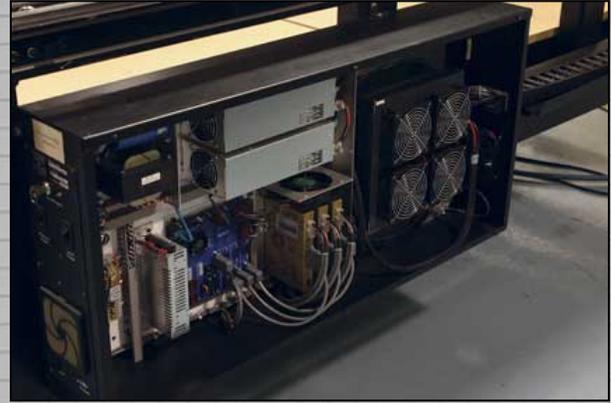
The L-Star boasts impressive maximum velocity of up to 200 IPS and an acceleration of 10Gs. Given these impressive



performance figures it was necessary to build a structure that could support and enhance this. Vytex choose ALL structural steel weldment design. We weld the entire structure as one contiguous unit, stress relieves the structure and precision machine the mounting pads for the linear guide system.

## The Control system:

The Vytex control system is a state-of-the-art multi axis control with the ability to manage simultaneous motion for up to 8 axis. The interface to the control is through Ethernet and can be either run wired or wirelessly as the user requires. The control card was designed to allow for a direct connect of our Brushless servo drives allowing for very fast servo update rates. The Vytex control card can support a number of programming languages including the native language Ucito as well as G and M code for vector files and image-based files including Tiff, Jpeg, and BMP formats.



For machine management, the system includes a rugged handheld pendant that not only allows for full machine management but also allows the user full mobility around the machine. This is the central point for operation and eliminates the need for a PC at the system. The Handheld unit also provides a job preview mode so users can see what they will run on the system before they run it.



For file management our control system is mated with our machine tools control software which manages file transfer, job history, diagnostics and more. This application runs in the background on the PC you choose to be the non-dedicated sever for the laser system. Job files can either be sent from the system to the laser system and operated as a first in first out basis or the more preferred way of saving the job file to a user defined directory and then from the

pendant requesting the job or uploading from that defined directory. This has several advantages:

- 1) Operators are not programmers so files can be created well before they are ready to run on the system and can be rerun without having to re-open the file on the PC.
- 2) Run history is captured including cycle times.
- 3) In theory multiple machines can be operated from one non-dedicated PC or multiple PCs can create jobs for one laser system.
- 4) Machine diagnostics can be remotely checked with an internet connection.

Our control system and software including our motors and drives as well as almost all our electrical components are all made here in the USA which assures reliable support.

## **Vytek/Photoshop**

For image engraving there is no better product on the market than Adobe Photoshop. However, the product as a standalone software application is complicated and difficult to use for engraving and laser imaging applications. Vytek has developed a scripted front end for Photoshop to take away the complications and streamline the engraving process. We have reduced editing of files from hours to minutes to seconds depending on the file size and type of material it is to be engraved on.



## **Documentation:**

Whether using LaserWorx or the Vytek/Photoshop solution this is all backed up with the industries best training program and documentation. Nearly every aspect and feature set of these programs is both documented in an easy-to-read searchable format AND specific use video format with screen shots and how to's. Our documentation was designed to be used and is not like typical manuals requiring endless searching. Vytek's written in a how to format like how to drop a background out or how to nest a cut file etc. so you or your employees can get down to business day one.

## **Support:**

Vytek is an original equipment manufacturer (OEM); we are not a dealer nor are we reselling someone else's equipment. We are not an importer of Asian made machinery.

We are the manufacturer so this means we are the best suited to support your purchase with an application and system knowledgeable staff as well as having any available parts locally in stock if your system should require them. This is where **MADE IN THE USA** really means something and is not just a slogan. The money that others think they are saving is more than lost when good training or support is not available or support takes too long. Vytek has dedicated staff whose only job is to support our customers, in fact our staff is rewarded when they provide outstanding service to our customers. We do not have a conflict of interest built into our system; we don't make more money by getting you off the phone sooner, in fact we make more money when we service you better as you are more likely to either buy additional equipment or to recommend us to others seeking a Laser system.





Vytek offers support in many ways including onsite at a pre-agreed cost but we never charge the original purchaser for phone or email support regardless of how long you have owned the system. Vytek is a solution driven company ready to be part of your success with a laser system.

***Your Success is our Passion!***