The L-Star is a reliable American-made machine with many customizable options.
The Laser Cutting Solution

The Vytek L-Star series is the best selling large format cutting and engraving system on the market. The L-Star boasts a host of available options, sizes, and laser powers. No other laser system is more flexible and cost effective than the L-Star series. The L-Star truly meets the needs of modern production shops. Everyone "knows" that lasers do a great job cutting acrylic, and that they leave a highly polished edge in one pass, far better than those "cut" by other methods. But what is not as well known is that lasers also produce quality work on many other materials for a variety of applications. In fact, by using the latest laser technology and intelligent engineering, Vytek laser machines can engrave, kiss cut, relief engrave, and cut a wide range of metals at a significantly lower operating cost than other methods. The L-Star is equipped with an impressive list of standard features and a host of available options that allow just about any application to be cut or engraved. Contact Vytek to learn how an L-Star can help your business or visit us online at www.vy-tek.com.

CUTTING MARKETS & APPLICATIONS

- Plastic Fabrication
- Light Metal Fabrication
- POP/Display Fixtures
- Large Format Print Finishing
- Automotive
- Textiles, Garment and Embroidery
- Identification and Serialization
- Shrink and Foam
- Woodworking
- Composite and Space Age Materials
- Plastic and Rubber
- Electronics Industry
- Packaging Industry
- Aircraft
- And So Much More

Stencils: Lasers can cut thin films and stencils with exacting precision, fine detail and high speed. From polyester to stainless steel to exotic films, lasers offer a superior cut quality.

Wood: Lasers are ideal for wood applications including cutting of veneers for inlay work, furniture and automotive interiors as well as cutting pen.isArray and die board for steel rule dies.

Acrylic: Cutting acrylics up to 1/2"/12mm thick with a laser is now the standard. Lasers also can produce images onto acrylic and can be used to create panels for LED light distribution.

Foam and Packaging: When correctly configured, lasers can cut a range of foams and packaging materials up to 4"/100mm thick.

Metal Cutting: When equipped with the metal cutting option, the Vytek L-Star series can easily cut a wide range of metals up to .25"/6mm while providing a smooth edge finish to a precise tolerance. The L-Star is ready for your high production or multi-shift operation.

Membrane Switch and HMI: Lasers are now the industry standard for processing components of membrane switch assemblies. When combined with the L-Star vision alignment system, it is as easy as print and cut.

Stainless: Laser machining of stainless and other metals for precision parts and complex configurations.

Thin Film: There is no better way to precisely cut to a material backer and selectively cut multiple layers than with a laser. Lasers are the most reliable and quick non-contact way to kiss cut.

Rubber and Cushioning: Lasers can contour cut a wide range of elastomers, EVAs, composites, lamination shoe and support products.

Metal Cutting: When equipped with the metal cutting option, the Vytek L-Star series can easily cut a wide range of metals up to .25"/6mm while providing a smooth edge finish to a precise tolerance.

Material Loading System “Stacker” and the L-Star is ready for your high production or multi-shift operation.

CUTTING MARKETS & MATERIALS

- Plastic Fabrication
- Light Metal Fabrication
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- Large Format Print Finishing
- Automotive
- Textiles, Garment and Embroidery
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- Electronics Industry
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Scan code to watch video of the L-Star in action.
www.vy-tek.com/brochures/Lstar2013/1.html
LaserWorx Cutting & Engraving Software

LaserWorx is a comprehensive and feature-rich software package for vector cutting and raster engraving. LaserWorx's advanced optimized output sends files in "True ARC" mode ensuring that the smoothest possible cuts are made without the slowdown and rough arcs found in many print-driver-based laser systems. When vector files are combined with raster files, LaserWorx automatically orders the engraving and cutting for the most efficient processing of your files. If you use CorelTM files, then our simple-to-use "Corel Bridge" allows drag and drop flexibility without the hassle of importing. Our "True Nest" option allows for true shape nesting of your cut files to provide the best possible material utilization. With advanced features like grain control, and previously cut partial sheet utilization, "True Nest" can save you as much as 40% of material cost.

CAD/CAM Software

Software Features:
• Offset for beam diameter
• Inside from outside sorting
• Nesting of files
• Parametric shapes tool
• Contour ordering
• Contour cut
• Clip-art viewer
• Interactive kerning
• Arrays

Non-contact cutting and engraving has no consumable costs for router bits, and provides for cleaner edges. More intricate cutting and engraving is possible on a wider range of materials achieving finer detail than with any other method. With no tooling width, the laser is able to achieve higher density cutting that can save 40% on materials with faster cutting times. Setup time is reduced with the laser solution. Inlaid parts can be cut from the same file. Laser cutting does not produce chips or sawdust, offering a much cleaner operation. Lasers have a lower cost of operation compared to other commonly used methods.

Sign & Graphic companies, Fabricators, and Manufacturers are increasingly requiring the ability to align materials for cutting. The I-Laser Vision System is a straightforward process that enables all printing and cutting to work seamlessly together to optimize material use. Information such as cutting files, nesting, paneling, orientation and registration marks is shared directly with the laser cutting system, which minimizes the need for operator intervention. Integrated with a Vytek laser system, I-Laser Vision totally automates cutting and trimming for a wide range of flexible and rigid materials.

Simply open the cut file from the L-Star control panel, place the items to be cut on the table and the I-Laser Vision system takes it from there. The system finds, orients the part and cut file and automatically starts cutting with perfect alignment. It is that simple!

Advantages of a Laser

• Lasers can cut square corners without leaving a radius common to routers.
• The laser achieves one-step operation with polished edges. No flame polishing or secondary operation is required on cut pieces.
• Inlaid parts can be cut from the same file.
• Laser cutting does not produce chips or sawdust, offering a much cleaner operation.
• Lasers have a lower cost of operation compared to other commonly used methods.

Save up to 45% material cost by using lasers versus routers, giving the laser a faster payback with higher quality cuts.

COMPARE CUTTING TECHNOLOGIES
The Vytek L-Star is not only the best-selling large format laser system, it is also the fastest engraving system on the market. The L-Star when equipped with engraving accessories can efficiently process large areas at speeds and with a resolution equivalent to printing. No other system on the market is this flexible and offers more ways to get the job done than a Vytek L-Star.

The L-Star is more than just a big engraver though, the L-Star is the result of over 25 years of development. In fact, Vytek spends more on R&D than any of our competitors. But what makes an L-Star even more valuable valuable to you is the support behind it. The difference is we show you how to make money with your L-Star not just how to use it. Vytek has been building laser systems since 1989 and offers years of experience helping customers select, customize and operate machines for a variety of applications.

Contact Vytek to learn how an L-Star can help your business or visit us online at www.vy-tek.com.

Vytek Lasers are designed, built and supported in the USA.

ENGRAVING MARKETS & APPLICATIONS

- Glass Engraving
- Granite Engraving
- Monument Industry
- 3-D Wood Engraving
- Wood Engraving
- Acrylic
- Leather
- Coated Metals
- Rubber
- Ceramic
- Materiales
- Paper
- Fiberglass
- Canvas
- Fabric
- Woodworking

3-D Stone Carving: "Deep Stone Carving Option," is an exclusive option from Vytek. The largest engraving in the world was processed with the Vytek L-Star. The V
tucket marble building was processed from 2" thick stone in less than 3 days.

Tile: Decoration of stone and tile is one of the strengths of the L-star. It is able to switch between large and small items as well as thick and thin projects. The L-Star is a money-making powerhouse.

Acrylic: Two emerging trends in acrylic are edge-lit and light piping. The L-Star can engrave this material at high speeds with absolute precision.

Slate: Floor tile decoration is a common use for the L-Star and it makes quick work of materials like slate, granite and marble to mention a few. Vytek pioneered stone engraving and offers a host of features specifically designed to make your company productive when processing stone or slate.

Granite: With the L-Star, granite memorials are some of the easiest and most profitable ways you can use an L-Star. With an engraving head that is water and air cooled, R1 rating, the L-Star can cut and polish slabs that weigh in excess of 4000 pounds. No other system on the market offers these features in a single system.

Sheet: Floor tile decoration is a common use for the L-Star and it makes quick work of materials like slate, granite and marble to mention a few. Vytek pioneered stone engraving and offers a host of features specifically designed to make your company productive when processing stone or slate.

Wood: With the L-Star, carving and engraving can be done with exacting detail in 2-D and 3-D as well as at speeds that are profitable for your company.

Glass Engraving: The L-Star is the only laser system on the market that can consistently engrave glass (both tempered and float) with clean and smooth surfaces. Years of effort went into developing a process and the technology that allows the L-Star to be a powerhouse in the processing of glass projects. The Vytek L-Star is only a solution for replacing sandblasting with the added benefit of exacting photographic detail that even acid etch cannot provide.

Scan code to watch video L-Star engraving glass.

www.vy-ek.com/brochures/Lstar2014/6.htm1

Scan code to watch video L-Star engraving glass.
Remote Pendant: The remote pendant allows for full machine control anywhere around the laser. It provides full color graphics display and easy access to all your job files.

Precision Motion: The L-Star utilizes the highest-grade, precision-ground rack and pinion drive system, ensuring precise position and smooth motion (model dependent).

Cutting Head Options: The L-Star head assemblies are quick and easy to swap for any application you might have, from our standard head to our active height-following assembly. In addition, the L-Star head assemblies are also available with a wide range of optic choices to suit any cutting or engraving requirement.

Solid Steel Construction: The all-welded steel construction of the L-Star is stress relieved and precision machined to make the L-Star a robust and accurate system.

Hydraulic Lift Table: The hydraulic lift table system allows for quick and easy table adjustment for oversized and heavy object positioning.

L-Star Features and Components

Ethernet Connection: The L-Star uses a network interface and bi-directional communication allowing it to be part of your company’s network. This allows large data files to be transferred much more quickly.

Standard Table Configuration: The L-Star includes down draft fume extraction and adjustable table supports with the ability to choose the best table surface for the job (model dependent).

Sealed Metal Tube Laser: The L-Star is available with lasers from 35 watts to 1500 watts (model dependent).

Adjustable Table Surface: This unique table system allows the table height to be adjusted in .5” / 12 mm increments quickly and easily for fast job changeover and maximum flexibility.

High Precision Servo Drives: The L-Star line uses advanced, all-sinusoidal servo motor drives that are directly connected to the main motion board for faster servo update rates and seamless motion at high speeds.
**Additional L-Star Options**

- **Uprdraft Fume Extraction** allows for removal of cutting fumes right at the source and cutting of thicker materials with lower power lasers, which ensures clean edges.

- **Stacker Material Loading System** is a fully integrated material loading system designed to save time loading and unloading the table.

- **Updraft Fume Extraction** allows for removal of cutting fumes right at the source and cutting of thicker materials with lower power lasers, which ensures clean edges.

- **The optional integrated PC Work Station** is ideal for on-the-fly program changes or when I-Laser is added to the L-Star.

- **The optional HoneyComb Table insert** is ideal for cutting flexible materials or small contour cuts. The integrated Roller Track allows for heavy objects and is quick and easy to swap to other table options.

- **The unique Adjustable Slat Table supports** are ideal for quick job changes. The slats adjust on 1.5"/35 mm centers and can easily be repositioned to allow cut parts to drop through. A second adjustment position allows for the honeycomb insert to be installed quickly and easily.

- **With the Glass Table option** the use of adjustable vacuum cups allows for quick and easy setup of glass projects while compensating for warped sheets.

- **The Sliding Table option** allows for two complete work zones on one machine. It is ideal for fast thoroughput jobs allowing the load and unload of the table while the laser is processing on the adjacent table. The slider table can double throughput on a single laser system.

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Scan code to watch video of L-Star in action.

[www.vy-tek.com/brochures/Lstar2014/2.html](http://www.vy-tek.com/brochures/Lstar2014/2.html)

Scan code to watch video of Sliding Table.

[www.vy-tek.com/brochures/Lstar2014/5.html](http://www.vy-tek.com/brochures/Lstar2014/5.html)
Vytek designs, builds and sells a complete line of laser-based equipment from its headquarters in Fitchburg, Massachusetts. For more than 20 years, Vytek has been mastering the use of laser technology so you don’t have to. We bring you the broadest possible range of engraving, marking, and cutting solutions built to exacting standards with proven hardware and software components that provide reliable performance for many years of profitable operation. Check us out at www.vy-tek.com.

<table>
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<tr>
<th>Model</th>
<th>LST5050</th>
<th>LST4896</th>
<th>LST610</th>
<th>L-Star 450</th>
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<tr>
<td>Work Area</td>
<td>50” x 50” 1250 mm x 1250 mm</td>
<td>50” x 100” 1250 mm x 2500 mm</td>
<td>74” x 122” 1860 mm x 3000 mm</td>
<td>50” x 100” 1250 mm x 2500 mm</td>
<td>64” x 122” 1625 mm x 3000 mm</td>
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<td>Available Laser Wattage</td>
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Note: Specifications for reference purposes only. Check with factory for current specifications. Specifications subject to change without notice.