

As a manufacturer of leather automotive interiors, constantly improving quality, automating workflow management, producing just-in-time while reducing costs, and guaranteeing data tracking are key to your success. Combining all the tools you need, from design and development through production, Lectra's total leather solution is designed to help you at each stage of the manufacturing process.

TLS Automotive

Total leather solution

Industrial process

Digitization

Nesting

Cutting and unloading

Lectra solution

[DigitLeather Auto](#)

Work order processing
Nesting simulation
Leather characteristics matching

[LeatherNest Auto](#)
LeatherOrder (off-line)
LeatherSimulation (off-line)
LeatherExpert

[VectorLeather Auto](#)



Cutting precision and repeatability meet quality standards.

Leather savings are substantial thanks to more efficient nesting.

Sorting of cut pieces is facilitated by visual, ergonomic assistance.

Automated on-line flow and optimized task balancing combine with high cutting speed to increase throughput.

Labor costs are reduced – as few as two operators are required, ensuring minimal handling of hides and pieces.

Quality control is optimized, along with workflow monitoring, data reporting and precise hide surface measurement.

Combination of work orders and models offers greater production flexibility.

Meets tracking expectations.

TLS Automotive

DigitLeather Auto



A component of the TLS Automotive total leather solution, **DigitLeather Auto** electronically records hide defects and shapes.

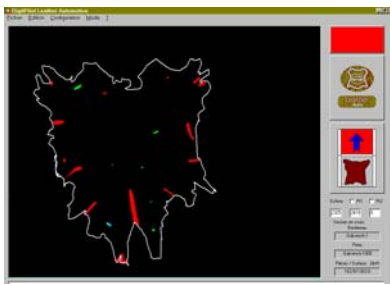
DigitPilotLeather Auto optimizes task chronology, increasing the TLS line's overall throughput.

DigitLeather Auto features

- Accurately and rapidly digitizes hide defects and grade areas (up to 6 quality levels).
- Optimizes yields.
- Use a cordless electronic pen ensures no physical marking of hides.
- Scans hide contour quickly and automatically.
- Effortlessly loads, flattens, and stretches hides using vacuum conveyor technology.
- Easy monitoring thanks to visual interface and vocal feedback.
- Lets you process any leather color and shade.

DigitLeather Auto hardware option

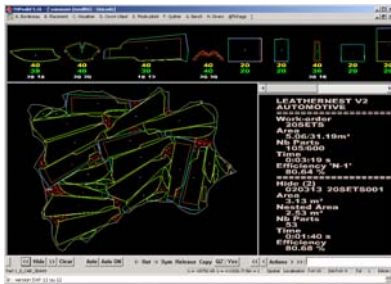
The 'leather' barcode reader eliminates data entry errors, directly reading work order and/or hide information.



DigitLeather Technical specifications	
Effective width	118" (3m)
Effective length	124" (3.15 m)
Conveyor, vacuum equipped system	yes
Flat screen computer (network connectable PC)	yes
Humidity	30 to 80% no condensation
Room temperature	55 to 110°F (10 to 40°C)
Installed electrical power	4.5kW + 3kW
Weight	2.7t

TLS Automotive

LeatherNest Auto



LeatherNest Auto

A component of TLS Automotive, both simple and efficient, automatic nesting software **LeatherNest Auto** offers substantial hide savings. Integrated with the TLS Automotive solution, LeatherNest Auto, together with other software modules developed by Lectra, increases productivity and flexibility.

LeatherNest Auto options

• LeatherOrder Auto

The LeatherOrder module lets you process work orders off-line without interfering with production flow, so as to maintain maximum rate.

LeatherOrder Auto increases productivity overall, shortening the product cycle while integrating easily into the work environment.

• LeatherSimulation Auto

LeatherSimulation Auto module creates nestings, mixing models, hides and work orders, and lets you assess results based on your criteria and goals.

LeatherSimulation Auto facilitates decision making, comparing various cost scenarios so you can customize nesting parameters to optimize yield and/or throughput.

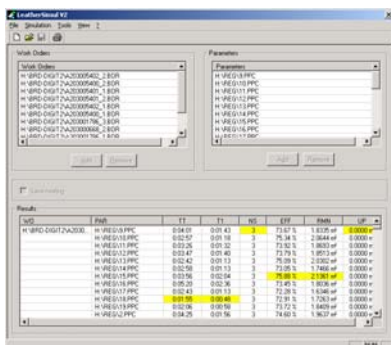
It improves your responsiveness.

• Leather Expert Auto

The LeatherExpert Auto module lets you achieve visual uniformity for the most sensitive pieces. Taking into account the leather's characteristics – such as grain, color, and shade – the module creates links between the pieces (back, seat, door panels, etc.) to turn out impeccable finished products, without jeopardizing yield.

LeatherNest Auto benefits

- Optimal use of hides (LeatherNest Auto yields are superior to manual ones).
- Work orders connected to the last hide can run concurrently.
- Technology adapts to application demands.
- Combines traditional know-how with automated nesting benefits.
- Fully or semi-automated nesting mode.
- Operational flexibility, possibility of nesting by style.
- Work order management.
- Automatically generates instructions for cutting.



LeatherSimulation Auto

TLS Automotive



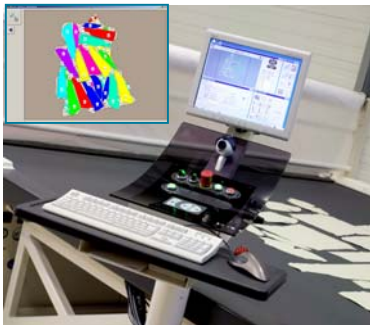
The **VectorLeather Auto** cutting system is a component of the total TLS Automotive leather solution.

VectorPilotLeather Auto

Allows visual monitoring and real-time tracking of cutting processes with convenient performance reporting functions.

The cut-path optimization system is sensitive to marker geometry.

VectorPilotLeather Auto incorporates unloading and piece sorting assistance.



VectorPilotLeather Auto

VectorLeather Auto

VectorLeather Auto features

VectorLeather Auto is a high performing cutter:

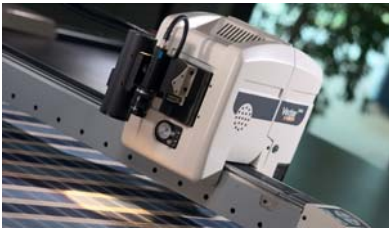
- Cutting quality and speed.
- Cutting precision and repeatability, even with varying hide thickness.
- Cuts thicker hides (up to 6 mm).
- Capacity to cut single and multi-ply fabrics (up to 25 mm compressed).

VectorLeather Auto Technical specifications

Cutting width	118" (3 m)
Cutting window length	124" (3.15 m, theoretically unlimited)
Conveyor and variable vacuum control equipped system	yes
VectorLeather cutting head, vibrating blade with computer driven sharpening system equipped with two piercing tools	yes
Photoelectric safety beam barrier	yes
Flat-screen computer (network connectable PC)	yes
Automatic polyethylene rewinder	yes
Unloading conveyor	yes, 10 ft (3 m) long
Humidity	30 to 80% no condensation
Room temperature	55 to 110°F (10 to 40°C)
Installed electrical power	22kW + 6.5kW
Weight	6.6t
Compressed air	80l/min at 6 bar

TLS Automotive

VectorLeather Auto Options



VectorLeather Auto is a versatile cutting system that can also be used for fabric applications.

Hardware options

VectorLeather Auto transfer system

Provides tremendous flexibility for production planning, allowing VectorLeather Auto to be positioned at several laying tables.

Software option

The Mosaic option

The **Mosaic** option lets **VectorLeather Auto** handle fabrics that need to be matched, such as stripes, plaids, and prints.

Mosaic modifies markers and the geometry of pieces in real time based on the fabric's physical characteristics.

Mosaic automates the motif identification process, detecting the fabric's actual motif, analyzes distortion, and launches the calculation and cutting process.

The digital camera

The digital camera and associated light box analyze the exact position of motifs and reposition the pieces.

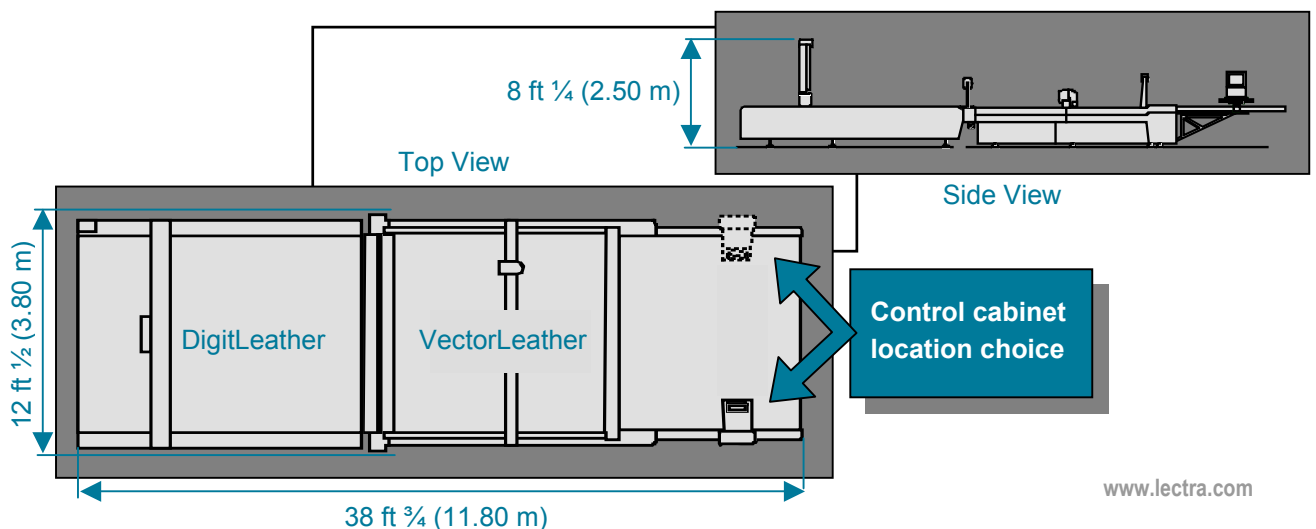
'Fabric' barcode reader

Eliminates errors by reading cutting instructions directly from the barcode or cutting instructions.



Mosaic

TLS layout



TLS Automotive

Customer Care



Hardware Assistance

Maintain optimum performance of your TLS Automotive line by subscribing to full-service Hardware Assistance. Combined with Remote Expertise, your subscription gives you direct access to our experts worldwide and includes on-site service support for all hardware-related problems, including non-consumable parts.



Remote Expertise

Remote Expertise gives you full access to technical experts and specialists at Lectra's International Call Centers (Atlanta for the Americas; Bordeaux, France, for Europe; and Hong Kong for Asia). To provide real-time support for software problems, production needs and workflow processes, Lectra teams can access work stations remotely. Users can instantly download files or software patches to correct minor problems.

Software Evolution

Software Evolution secures your investment over the long term. This service offers substantial savings and lets you maintain state-of-the-art technology. The subscription gives you access to the latest versions of Lectra software, allowing you to improve technical performance continually and optimize your production environment with each technological innovation.

Training

Lectra offers a comprehensive set of training programs to support the TLS solution. The programs can be provided on-site or in Lectra's training centers around the world.

This customized suite of user education services includes training on daily TLS operations and procedures and on the technical expertise required by engineers responsible for troubleshooting and maintaining your TLS solution.

Specialized training on streamlining TLS processes for cutting room managers and set-up teams. It details strategies for optimizing the configuration of TLS and overall production processes.