

VECTOR

Pioneering low to high-ply
fabric-cutting solution



LECTRA

Today's production challenges



Why it's time to digitalize the cutting room

Today's consumers expect faster delivery times, more styles, variety and eco-friendly products.

In turn, fashion companies need to rethink the production process to use less water, energy and non-biodegradable material. More than ever before, industry players have to juggle between **reducing cost, lead times, and improving sustainability and quality.**



THE NEED FOR SPEED WITH ZERO COMPROMISE ON QUALITY

Consumers are unwilling to wait for their products and forgo quality. To stay ahead of the curve, you need to automate all your production processes using self-repair capabilities.



INCONSISTENT PROFITABILITY

Due to the increasing cost pressure, you need to anticipate and reduce costs at every stage of your process. Optimizing your operations to minimize cutting errors, waste and labor makes way for better cost control.



THE DEMAND FOR MORE VARIETY

To satisfy this demand, you have to manage a wider variety of materials with different characteristics and use them for various styles.



AUTOMATION AS A NECESSITY

In order to remain competitive and maximize productivity, you need to transition from manual to automated spreading and cutting today, using equipment that can handle intricate shapes.

Responding to trends while managing different production volumes



AGILITY

Explore infinite possibilities

Vector enables fashion manufacturers to achieve high levels of efficiency and profitability in their cutting room.

With this range, **manufacturers can facilitate just-in-time (JIT) and mass production processes while fulfilling last-minute orders with ease.**

This helps you gain manufacturing agility and achieve greater productivity while maintaining quality.

What is **VECTOR** ?



Compliant with Industry 4.0, our best-selling Vector cutting equipment can be used for all manufacturing models and fabric types (lace, denim, woven, knit or footwear textiles), to help you produce at optimal speed and efficiency. No matter the production volume, you can still achieve operational excellence and minimal cost per cut part.

Lectra's connected cutting room offer is a pioneering combination of marker-making, patternmaking, spreading and cutting solutions.



INDUSTRIALIZE



PRODUCE

MODARIS

Technical specifications
and pattern industrialization

FLEX OFFER
by LECTRA

Marker-making
Nesting

Gerber spreaders

Spreading

VECTOR

Mass production and low-ply
fabric cutting solution

OPTIPLAN

Automatic batch
processing

Services 4.0

Your success is our priority

We are here to provide all the support and guidance our customers need to make the most of their Lectra solutions and equipment. Our training and technical support programs were developed based on 47 years' experience of working with renowned fashion companies.

With advanced services, expertise, data analysis, and comprehensive technical support, we ensure that our solutions are fully adopted and used in an optimal way to help our customers achieve their objectives, with the best possible experience.

"The quality of Lectra's technology and customer care services has always been premium and thanks to them, we've managed to take our first steps towards Industry 4.0."

Li Shuangrui
Vice President, Tongtai Infant Finery Co., Ltd



IN-DEPTH KNOWLEDGE

With digital resources and face-to-face training sessions, we enable you to set and accomplish your learning goals at every stage of the Vector implementation and deployment process. Our training methodology was designed to guide you through quick wins and practical application, which helps you gain independence quickly.



CONTINUOUS INNOVATION

We give our customers immediate access to the latest functionalities of Vector and key information to help them get familiar with the latest features quickly. Continuously create value by working with us to establish an optimal mode of operation based on best practices.



EQUIPMENT AVAILABILITY AND QUALITY

Sensors in the Vector cutting solution help us anticipate technical issues and take preventive measures remotely to minimize machine downtime. Preventive maintenance and regular audits ensure consistent cutting quality, which helps you reduce waste and cost.



EQUIPMENT PERFORMANCE ANALYSIS

Benefit from easy access to centralized data through Vector Dashboard, the cloud-based application. Define and track your production Key Performance Indicators to identify areas of improvement quickly.

Be a cut above the rest

Increase material savings

By enabling minimal to zero-buffer cutting, **Vector helps you achieve significant material savings and minimize waste throughout the entire manufacturing process.**

In seconds, our automatic marker-making software can help you optimize fabric consumption by processing all production orders and creating the most cost-efficient markers for each one.

In the spreading stage, the automatic relaying of instructions, precise edge alignment and automatic fabric roll-end management will help eliminate waste.

Achieve superior cutting quality and higher productivity

Vector's cutting speed reaches up to 8 meters per minute. **This accelerates production while ensuring the highest cutting quality on the market. No matter the complexity of the material, fabric pattern pieces can be produced faster, with a high degree of precision.**

Features include:

- various blade sizes to accommodate different fabric types;
- optimized cutting of tangent pieces or with limited buffer between cut parts;
- dynamic vacuum control;
- a digital blade compensation system;
- cutting speed that adapts to conveyor belt movement.



Reduce total cost of ownership

Achieve the lowest cost per cut part through maximum machine availability. Vector's intelligent onboarding system, with its built-in sensors, monitors cutting performance and offers remote real-time support by interfacing with Lectra's call centers.

Features include:

- 120 built-in sensors for reporting, analysis and predictive maintenance;
- warning messages for preventive maintenance.

Minimize your carbon footprint

Vector's low power consumption technology and durable consumables ensure high performance at every production stage. All our solutions comply with global safety and environmental regulations, ensuring that you meet industry standards.

Features include:

- auto-restart after power failure;
- automatic energy conservation;
- long-life consumables;
- a permanent bristle block cleaner.



VECTOR range

A wide range of best-in-class cutting solutions designed to meet every business need

Vector brings agility and versatility to the cutting process with its ability to operate on various product categories such as ready-to-wear, denim, lingerie and footwear.



VECTOR Fashion

VectorFashion Q25 and iX solutions are ideal for low-volume production.

Thanks to their production capacity, VectorFashion iQ50 and iQ80 can be best used for repetitive manufacturing to improve productivity, savings and reliability.

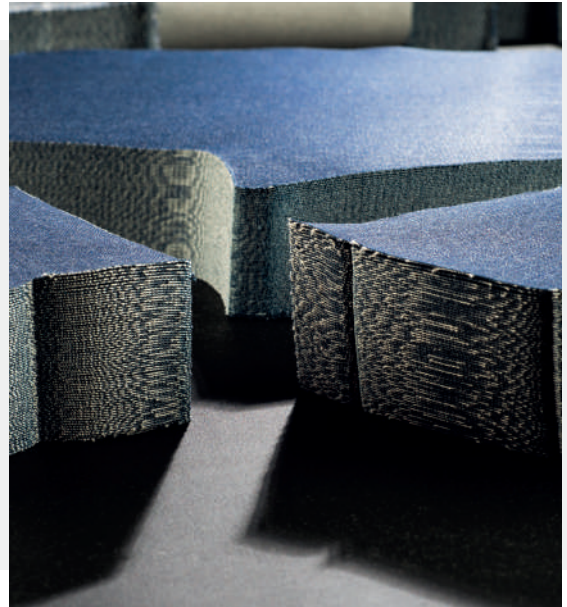
VectorFashion iX6 and iX9 facilitate high-volume production and gives operators the flexibility to manage complex materials and wider product varieties.

The maximum height of compressed fabric that this range can cut:

- **2.5cm** for VectorFashion Q25 and iX;
- **5cm** for VectorFashion iQ50;
- **8cm** for VectorFashion iQ80;
- **6cm** for VectorFashion iX6;
- **9cm** for VectorFashion iX9.

VECTOR Denim

VectorDenim iX6 allows manufacturers to cut high-ply fabric and produce up to 650 pairs of jeans per hour with precision. It can cut up to 6cm of compressed fabric.



VECTOR Footwear

Specially designed for cutting footwear textiles, our range of VectorFootwear cutters provides a high level of flexibility and unrivaled cutting quality.

The maximum height of compressed fabric that this range can cut:

- **2.5cm** for VectorFootwear iX;
- **6cm** for VectorFootwear iX6.

VECTOR Lingerie

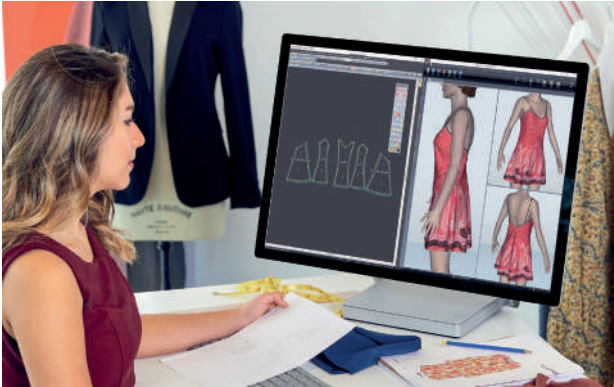
VectorLingerie iX and iX6 allow fashion companies to cut delicate fabrics in the most optimal manner.

The maximum height of compressed fabric that this range can cut:

- **2.5cm** for VectorLingerie iX;
- **6cm** for VectorLingerie iX6.



Lectra's connected cutting room offer



MODARIS

Modaris brings quality and precision to the patternmaking process for fashion companies. Develop products of exceptional quality and fit with the most widely used 2D and 3D patternmaking, grading and prototyping solutions on the market.



FLEX OFFER

by LECTRA

Flex Offer by Lectra is a cloud-based, automated nesting solution that addresses apparel suppliers' unique marker-processing needs for costing, procurement and production



OPTIPLAN

Optiplan transforms complex orders into optimized spread plans, cut plans, and equipment instructions. Sophisticated algorithms identify the most efficient and cost-effective ways to reduce fabric consumption and excess inventory.

GERBER 250S

GERBER XLS50

GERBER XLS125

Gerber spreaders help manufacturers optimize material use by accurately aligning fabric edges and ensuring tension-free spreading. Operators can nest parts closer to the edges of the spread to minimize buffer and produce a greater number of perfectly cut parts. An automated cradle-feed system eases fabric loading and unloading.

Consumables and maintenance kits

Designed to meet your manufacturing challenges

Improve the performance of your fabric cutting room with Lectra's consumables and maintenance kits, specially designed to ensure uninterrupted long-term operation of your Vector solution.

MAINTENANCE KIT

- Based on the feedback of more than 20,000 customers using Lectra equipment, maintenance kits contain only genuine Lectra parts and feature the latest technologies.



ROLL GOODS

- Lectra offers paper and plastic roll goods that allow you to achieve excellent productivity by homogeneity of vacuum on the entire material surface.



SHARPENING BANDS

- Lectra's sharpening bands adhere to strict internal quality controls and are designed to lengthen blade lifespan with an efficient abrasive sharpening surface.



BLADES

- To enable you to achieve superior cutting quality, Lectra blades are made of high-grade steel with excellent resistance to bending, shocks and vibrations.



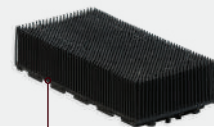
DRILLS

- Lectra offers a wide range of drills to satisfy the needs of your various applications



BRISTLE BLOCKS

- Lectra bristle blocks are specially designed to hold the spread firmly in place. Their self-cleaning system extends the service life of your equipment.





We pioneer. You lead.

Lectra offers the expertise, technology and industry knowledge to support you, starting with the definition of a solution suited to your needs and throughout the life of your cutting room, from implementation to support and process optimization.



About Lectra

As a major player in the fashion, automotive and furniture markets, Lectra contributes to the Industry 4.0 revolution with boldness and passion by providing best-in-class technologies.

The group offers industrial intelligence solutions - software, equipment, data and services - that facilitate the digital transformation of the companies it serves. In doing so, Lectra helps its customers push boundaries and unlock their potential. The group is proud to state that its 2,500 employees are driven by three core values: being open-minded thinkers, trusted partners and passionate innovators.

For more information, please visit [lectra.com](https://www.lectra.com)

