



Vector® is a registered trademark of Lectra

*“Today, we are able to show material savings of between 5% and 6%. We are able to achieve a better efficiency, and that’s the most important thing for us.”*

Leif-Jarle Aure,  
Technical Manager,  
Ekornes, Norway

# VECTORFURNITURE FABRIC CUTTING ROOM

## IMPROVE PROFITABILITY AND COMPETITIVENESS IN AN AGILE, FLEXIBLE FABRIC CUTTING ROOM

*The Vector cutting room is organized around a lean-oriented, agile and efficient production process, from marker management, through spreading, to single, low, or multi-ply cutting and offloading, for plain and patterned fabrics. At its heart lies the VectorFurniture automated cutter.*

*It gives you the flexibility to handle just-in-time production, unplanned orders, short and mass-production runs with ease, ensuring you get the best from your cutting room.*

*VectorFurniture delivers unprecedented uptime, improved speed, long-term reliability, optimized efficiency and quality, backed up by a unique support and expertise infrastructure.*

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## PRODUCTIVITY, RELIABILITY AND MATERIAL SAVINGS

- **Significant fabric savings** throughout the entire manufacturing process
- **Lowest total cost** of ownership per piece through maximum system availability
- **Consistent accuracy & respect of quality standards** through built-in intelligence and error-proofing
- **Environmentally friendly & safety** compliant
- **Highest performance levels** with an automated cutter which is simple and easy to use and manage

## ■ Significant fabric savings throughout the entire manufacturing process

In just a few seconds, automatic marker-making software can reduce your fabric consumption, processing a complete list of production orders in hidden time, finding the best marker for each one. At the spreading stage, automatic transfer of spreading instructions, precise edge alignment and automatic fabric roll end management eliminate waste. And you can even mix cutting orders in the same marker to save more fabric. Visual intuitive offloading help eliminates the risk of error and saves time during offloading and bundling.

## ■ Lowest total cost of ownership per piece

VectorFurniture requires only one operator, with no need for specialist skills. This has been made possible by automating data transfer from marker making to through fabric loading, roll management, cutting and offloading, including the use of barcodes.

Its unique on-board intelligence maximizes production by monitoring machine behavior, offering a remote real-time interface with Lectra's call centers at the click of mouse. As part of a services package, this predictive maintenance anticipates breakdowns, allowing VectorFurniture to maintain one of the best uptimes in the industry - up to 98%.

In daily operations, Vector's optimized performance and sustained quality help save time and reduce costs.

## ■ Consistent accuracy & respect of quality standards through built-in intelligence and error-proofing

Irregular shading on fabric can cause headaches for furniture manufacturers as it may negatively impact the quality of the finished piece. DiaminoFurniture's shading feature is able to handle over 50% of production orders automatically, effectively halving marker processing time. Different "what-if" scenarios can also be considered to anticipate the effect of varying fabric quality ensuring cut pieces respect quality zone requirements for perfect cut pieces, first time.

The new Brio spreader delivers high-quality, tension-free spreading for fabric rolls up to 250 kilos, whatever the spread height.

For upholstered furniture manufacturers using striped, printed or plaid fabrics, perfect pattern matching can be guaranteed using an onboard high-definition digital camera and Mosaic software.

## ■ Environmentally friendly

It's not just material waste we can help with. Our solutions can also reduce energy consumption by up to 30% compared to older systems. The VectorFurniture uses state-of-the-art innovative technology, such as a built-in vacuum auto-regulator, which holds the fabric in place across the entire cutting surface. It automatically adapts so that it only works on areas where it's needed.

All Lectra's hardware complies with global safety and environmental norms, ensuring that you meet the expected industry standards. In combination with an integrated, streamlined manufacturing process, you can track fabric and cutting orders as they move from pre-production right through to offloading after cutting.

## ■ Highest performance levels

In addition to uptime management giving unprecedented system availability of up to 98%, VectorFurniture delivers high quality, improved speed, long-term reliability and sustained optimization backed up by a unique in-house support infrastructure.

Production settings can be quickly and safely optimized using the simple, intuitive touch screen interface, leading to higher levels of cutting performance.

Process-oriented software with real time display of key productivity indicators and metrics as well as anti-error systems and visual management support continuous improvement.

