TOPSPIN® VS
CUTTING ROOM 4.0 FOR MADE TO ORDER

LECTRA®

Unlike TopSpin®, a stand-alone cutter with associated software, Cutting Room 4.0 for Made to Order provides you with a truly connected, integrated made-to-order process.
Compare the two processes to see how much faster, more data-driven and less error-prone your made-to-order production can be with Cutting Room 4.0 for Made to Order.

TopSpin®   ## Cutting Room 4.0 for Made to Order

PRODUCTION PLANNING

Manual preparation process dependent on operator knowledge
Operators manually create cutting orders, based on information from the IT system. They then create cutting schedules, order by order. Finding the optimal balance between job priority and cutting room capacity depends on operator knowledge.

Speedy, digital order processing
The platform-based solution communicates and synchronizes with your IT system to automatically process customer orders and transform them into cutting orders. Cutting orders are then sorted by priority, either automatically or manually.

Manual marker creation using theoretical width
Marker makers manually optimize the marker. To save time, they may use the same marker with a theoretical width, which can lead to wasted material. If the marker doesn't exist, it must be created manually.

Fast, automated marker making using real width
Fabric characteristics, real width, and marker-making rules are stored in the material library. The platform combines pattern and material information for automatic marker creation using real fabric width, while respecting quality requirements and optimizing fabric yield. Simultaneous processing of multiple markers in the cloud significantly reduces the marker preparation phase.

**Paper-based orders, manual selection of markers and cutting settings**
Markers placed in a folder for the operator. Production orders are printed and placed in another folder, in cutting order. The cutting operator must follow the cutting order, select markers, one by one, and use personal experience to apply the appropriate cutting settings.

Digital transfer of cutting jobs, automatic selection of markers & optimal cutting settings
Once the cutting job is published, the operator simply presses Start. All fabric information for roll selection is displayed on-screen at the loading workstation.
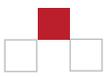
High cutting speed

TopSpin can cut close to 100 meters per minute, but may not cleanly cut all threads. During offloading, the operator must manually cut the remaining threads. This can cause quality issues and waste valuable production time.

Most thick fabrics require plastic for cutting and steel blades (average life span of 700 meters) must be frequently changed.
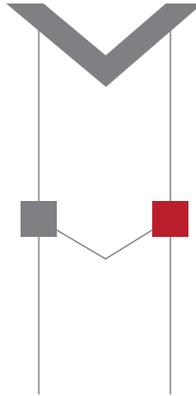
Higher cutting speed and quality

New cutting technology enables Virga to perfectly cut fabric at 120 meters per minute, with no need for plastic.

The carbide blade's long life span (approximately 35 kilometers) reduces time lost replacing blades.

Sequential motif fabric management

A camera embedded on the cutting head must take multiple pictures in order to recognize fabric distortion. The system then calculates how to cut the fabric.
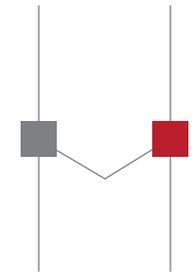
Streamlined cycle time

The cycle time for cutting plaid fabric is just as quick as plain fabric. Simultaneous loading, spreading, scanning, cutting and offloading reduces cutting cycle time. Operators have ample time for effective bundling and quality control.

Manual change management

After the manager informs them of modifications, operators must manually update the cutting order.
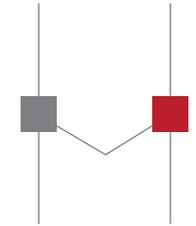
Connectivity ensures operator always has up-to-date cutting information

Any changes to cutting job information are automatically updated via synchronization with digital cutting platform.

Limited visibility on order status

Once an order is sent to the cutting room, it's difficult to follow its progress. Operators must manually report progress.
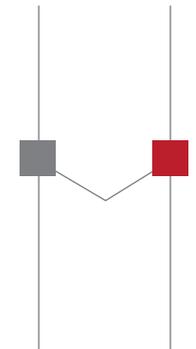
360° visibility

Managers can organize and monitor cutting orders by job status, material, deadline, and more. They are informed in real time. With the Virga dashboard, companies can monitor production performance indicators, such as cutting time & speed, production quantity, number of interruptions.

TopSpin®

	RESULTS	Cutting Room 4.0 for Made to Order
★★★★★	Reduced errors	★★★★★
★★★★★	Time savings	★★★★★
★★★★★	Labor savings	★★★★★
★★★★★	Material savings	★★★★★
★★★★★	Optimized cost per piece	★★★★★

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