

# Technical Datasheet

## **VECTOR**

### VectorFashion iX2 and VectorFashion Q2

The Vector iX2 and Vector Q2 cutting range offers the agility businesses need to stay competitive in a fast-paced and dynamic market and seize opportunities as they arise without relying on traditional economies of scale. It is a state-of-the-art low-ply fabric-cutting range that enables manufacturers to cut fabric-ply heights that are less than 2.5 cm. Achieve faster production cycles, higher quality products and stronger sustainability outcomes with a more favorable Total Cost of Ownership.

	VectorFashion iX2 and VectorFashion Q2	
	72'	86'
Overall width	2,62m	3,02m
Overall Length	3,82m	3,82m
Weight	1990kg	2450kg



	Low-Ply	
	Vector Q2 - 72' and 86'	Vector iX2 - 72' and 86'
<b>MAIN CHARACTERISTICS</b>		
Max compressed fabric height	2,5 cm	2,5 cm
Effective cutting window width	72' - 1,82m 86' - 2,2m	72' - 1,82m 86' - 2,2m
Steel Blade size	1,45x5 55°: Standard application 40°: For delicate fabrics 1,45x3,5 Small geometries	1,45x5 55°: Standard application 40°: For delicate fabrics 1,45x3,5 Small geometries
<b>CUSTOMERS CHALLENGES / THEMATICS AND MAIN FEATURES</b>		
<b>ACHIEVE ALL THE PRODUCTION PROCESSES</b>		
<b>Process-oriented operating software</b>		
Cutting process for fabric roll	✓	✓
Fuse blocks cutting process	✓	✓
Part recut process	✓	✓
Cutting multiple or parallel markers process	✓	✓
<b>Motif process</b>		
Matching point management with laser spot	✓	✓
Mosaïc: Mosaïc standard version to identify motif pattern through high definition camera assistance	-	○
Mosaïc Expert: Mosaïc Expert software can handle distortions, rotations and many more motif use cases	-	○
Mosaïc Auto: Software option to validate automatically motif pattern through image analysis	-	○
<b>Anti-error system</b>		
Multitask data input	✓	✓
Programmable sharpening system	✓	✓
Marker job queue	✓	✓
Pre-programmed cutting parameters	✓	✓
Video assistance: spread positioning and position control	-	✓
Blade breakage detection	✓	✓
Automatic spread height control	-	✓
Spread alignment laser assistance	-	○
<b>ENSURE CUTTING QUALITY AND PERFORMANCE</b>		
Cutting during conveyor advance (Eclipse)	-	✓
Automatic cutting path and window optimization	✓	✓
Optimized cutting of tangent pieces or with limited buffer	✓	✓
Optimized cutting of delicate fabrics	With 1,45x5 40° blade	With 1,45x5 40° blade
Digitally-controlled heated needle temperature	○	○
Dynamic vacuum control	✓	✓
Fast blade lift and plunge	-	✓

✓ = Standard    ○ = Option

OPTIMIZE TOTAL COST OF OWNERSHIP		
<b>Uptime management</b>		
Preventive maintenance periodicity	1000H	1000H
Predictive maintenance and remote maintenance enabled	✓	✓
Auto-diagnostics of electronic cards	✓	✓
Warning messages for preventive maintenance	✓	✓
Electronic maintenance logbook	✓	✓
CORPORATE SOCIAL RESPONSIBILITY		
<b>Operator safety</b>		
Emergency stops	✓	✓
Enabling switch (ensures safety during remote control)	✓	✓
Lateral scrutators (Radar)	-	○
<b>Ecological footprint</b>		
Energy saving vacuum	✓	✓
Low-consumption vacuum assembly	✓	✓
Restart after power cut	✓	✓
Long life consumables	✓	✓
Permanent bristle block cleaner	✓	✓
Vector Recycling bin	○	○
<b>Optimal user experience and visual management</b>		
Vacuum and blade real-time status indicators	✓	✓
Blade wear display	✓	✓
Real time process tracking	✓	✓
Cutting dashboard	✓	✓
Light indicators on cutting head	-	✓
Touch screen interface	✓	✓
Intuitive and ergonomic software	✓	✓
CUTTER CONFIGURATION		
<b>VACUUM</b>		
Vacuum assembly	15kW Very low-consumption	15kW Very low-consumption
<b>CUTTING HEAD</b>		
<b>Blade cooler (aka Vortex)</b>		
Blade cooling device	○	○
<b>Heated needle and Drilling unit (delivered without drill)</b>		
Heated needle	○	○
1 «Quick Change» Drill	○	○
2 «Quick Change» Drills	○	○
1 «Quick Change» Drill + Heated needle	○	○

✓ = Standard    O = Option

OFFLOADING OPTIONS		
<b>Offloading visual assistance</b>		
Offloading screen	O	✓
Offloading software	O	✓
<b>Offloading conveyor extension options</b>		
Long CODA 2,2m	O	O
IDENTIFICATION / MARKING DEVICE		
Postprint labeller	-	O
Pen marking device	O	O
OTHERS		
Resealer	O	O
Exhaust system	O	O
Bar for upper unwinders <i>Up to two slots</i>	x1 2nd in option	x1 2nd in option
Bar for lower unwinder <i>o hold underlay paper- useful when feeded by conveyor table or roll feeder</i>	O	O
CUTTER INTEGRATION TO CUTTING ROOM		
<b>LATERAL TRANSFER (OPM)</b>		
OPM <i>Lateral transfer for Vector</i>	O	O
6-meters OPM rails	O	O
8-meters OPM rails	O	O
10-meters OPM rails	O	O
12-meters OPM rails	O	O
14-meters OPM rails	O	O
16-meters OPM rails	O	O
18-meters OPM rails	O	O
20-meters OPM rails	O	O
22-meters OPM rails	O	O
24-meters OPM rails	O	O
26-meters OPM rails	O	O
30-meters OPM rails	O	O
32-meters OPM rails	O	O
SYNCHRONIZATION WITH FEEDING DEVICES OR TABLES		
Wire connection with roll feeder or conveyor table	O	O
Spreading conveyor synchro emission <i>with OPM, Lectra contactless transmitter installed on a cutter to pair it with a SPC or Lectra conveyor table</i>	O	O
Spreading conveyor synchro reception with OPM, <i>Lectra contactless receptor installed on a Lectra conveyor table to pair it with a Lectra cutter</i>	O	O
SPC feeding system synchro reception <i>with OPM, Lectra contactless receptor installed on a Lectra conveyor table to pair it with a Lectra cutter</i>	O	O

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BARCODE READER		
Barcoder reader USB	o	o
Barcoder reader Bluetooth	o	o
PILOT		
VxRx	VT-FA-Q2-PVxRx	VT-FA-IX2-PVxRx
TECHNICAL SPECIFICATIONS		
Vacuum assembly	15kW	15kW
Cutting speed (max)	80m/min	80m/min
Maximum acceleration	8m/s <sup>2</sup>	8m/s <sup>2</sup>
Vibration frequency (rpm)	6000	6000
Effective cutting window length	1,6 m	1,6 m
Average power consumption	<6kW	<6kW
Overall Length (m)	3,82	3,82
Overall Width (inch / meter)	103" - 2,62 m 118" - 3,02 m	103" - 2,62 m 118" - 3,02 m
Table height (cm)	75,7-90,7	75,7-90,7
Noise level	<75 dB	<75 dB
Installed electrical power (max)	15 kW	15 kW
Weight (kg)	1990 2450	1990 2450
Machine controls placement	Right or left	
Safety devices	Emergency Stop	
Temperature	10°-43°C	
Humidity (at 30° without condensation)	<95%	
Compatibility	ISO 6983, AAMA, RS274D, DXF, Lectra and investronica formats	
Operating system	Windows 10 - 64bits	

#### 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](http://lectra.com).

