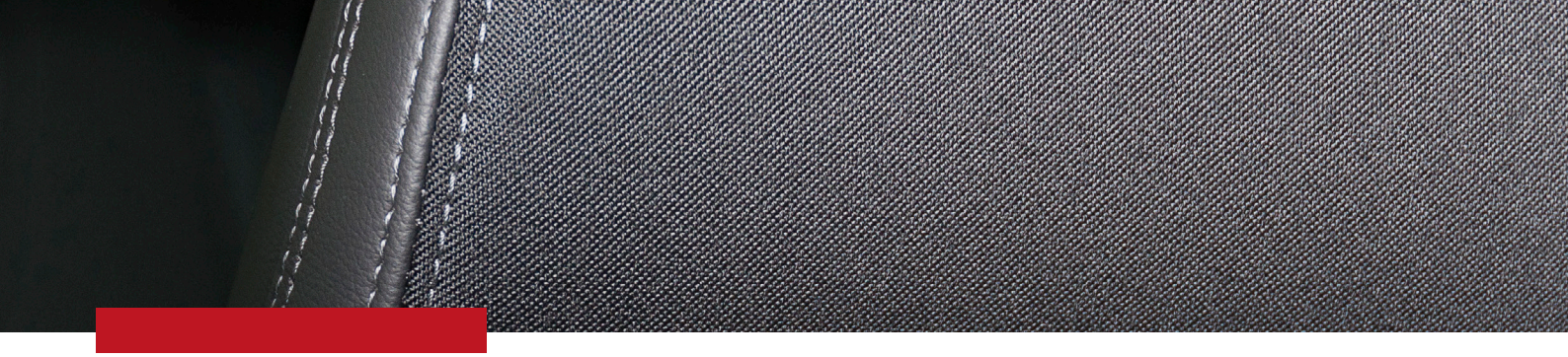

Technical Datasheet

VECTOR® iX and iQ series Automotive

The VectorAutomotive cutting room is an integrated digital fabric-cutting solution that enables vehicle seating and interior suppliers to achieve the lowest cost per cut part on the market today.

The solution combines a full range of industry-specific software and equipment for high-accuracy pattern making, marker-making, spreading and upholstery cutting.

A COMPLETE RANGE

No matter whether your focus is agility or productivity, low or high ply cutting, the VectorAutomotive range has a solution for you.

LOW-PLY

Overall length: 3,82m

Overall width: 103" - 2,62m

Weight: 2430kg

iX | iXM

Low-Ply

HIGH-PLY

Overall width: 102" - 2,60m (iQ50-71, iQ80-71, iX6-71 & iX9-71) 118" - 3m (iQ50-86, iQ80-86, iX6-86 & iX9-86)

Overall length: 4,81m

Weight: 3840kg (iQ50-71, iQ80-71, iX6-71 & iX9-71) 4320kg (iQ50-86, iQ80-86, iX6-86 & iX9-86)

iQ50 | iQ80 | iX6 | iX6

High-Ply

LECTRA

✓ = Standard O = Option - = Not available

		Low-Ply		High-ply			
		VT-AU-IX-72 VT-AU-IX-100	**VT-AU-IXM-72 VT-AU-IXM-100**	**VT-AU-IQ50-71 VT-AU-IQ50-86**	**VT-AU-IQ80-71 VT-AU-IQ80-86**	**VT-AU-IX6-71 VT-AU-IX6-86**	**VT-AU-IX9-71 VT-AU-IX9-86**
Cutting Quality & Performance							
Steel blade size		1.5x5.5 (or 1.5x3.5 / 1.5x5)		2x7		2.4x8.5	
Carbide blade size		1.5x5.5 (or 1.5x3.5 / 1.5x5)		-	-	-	-
Cranted Carbide blade size		1.5x5.5		-	-	-	-
Standard Quick Change Drills with automatic diameter control		2 High Speed Drills (max 10mm, D2QCD)		2 standard Drills (D2QCD)		4 standard Drills (D2QCD)	
Cutting during conveyor advance (Eclipse)		✓	✓	✓	✓	✓	✓
Dynamic vacuum control		✓	✓	- (variable vacuum)		✓	✓
Digital blade bending compensation system with automatic calibration	Smart control (Cutting path/ window, digital blade bending calculation, pre-programmed cutting parameters, spread height)	-	-	✓	✓	✓	✓
Automatic cutting path optimization & window calculation		✓	✓	✓	✓	✓	✓
Optimized cutting of tangent pieces or with limited buffer		✓	✓	✓	✓	✓	✓
Anti-error systems							
Automatic drill diameter ID & size control		-	-	✓	✓	✓	✓
Blade breakage detection	Blade wear display / breakage detection	✓	✓	-	-	✓	✓
Automatic spread height control		✓	✓	✓	✓	✓	✓
Optimal user experience & Visuel management							
Vacuum & blade real-time activity status indicators		✓	✓	✓	✓	✓	✓
Blade wear display		✓	✓	✓	✓	✓	✓
Real time process tracking		✓	✓	✓	✓	✓	✓
Cutting job report dashboard on Vector Pilot at the end of each cutting session		✓	✓	✓	✓	✓	✓
Electricity consumption metrics		✓	✓	✓	✓	✓	✓
Light indicators on cutting head		✓	✓	✓	✓	✓	✓
Light indicators on exhaust		-	-	-	-	✓	✓
Touch screen interface		✓	✓	✓	✓	✓	✓
Intuitive and ergonomic software		✓	✓	✓	✓	✓	✓

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		Low-Ply		High-ply			
		VT-AU-IX-72 VT-AU-IX-100	**VT-AU-IXM-72 VT-AU-IXM-100**	**VT-AU-IQ50-71 VT-AU-IQ50-86**	**VT-AU-IQ80-71 VT-AU-IQ80-86**	**VT-AU-IX6-71 VT-AU-IX6-86**	**VT-AU-IX9-71 VT-AU-IX9-86**
Uptime Management							
Predictive maintenance & remote maintenance enabled	(Messages / predictive maintenance)	✓	✓	✓	✓	✓	✓
Warning messages for preventive maintenance		✓	✓	✓	✓	✓	✓
Auto-diagnostics of electronic cards		✓	✓	✓	✓	✓	✓
Electronic maintenance logbook		✓	✓	✓	✓	✓	✓
Process-oriented operating software							
Pre-programmed cutting parameters logbook		✓	✓	✓	✓	✓	✓
Marker job queue		✓	✓	✓	✓	✓	✓
Multitask data input		✓	✓	✓	✓	✓	✓
Cutting job report dashboard on Vector graphical interface at the end of each cutting session		✓	✓	✓	✓	✓	✓
Programmable sharpening system		✓	✓	✓	✓	✓	✓
Eco Footprint							
Energy saving		✓	✓	✓	✓	✓	✓
Long life consumables	Blades, sharpening bands, bristle blocks	✓	✓	✓	✓	✓	✓
Permanent bristle block cleaner		-	-	✓	✓	✓	✓
Barcode Reader							
Barcoder reader USB	Barcode reader (USB/Bluetooth)	✓	✓	✓	✓	✓	✓
Barcoder reader BT		O	O	O	O	O	O
Offloading Device							
Offload HW	Offload assistance via a screen	O	O	O	O	✓	✓
Offload SW		O	O	O	O	✓	✓
Synchronisation							
Spreading conveyor synchro emission (only with OPM) For iX6-9/iH5-8/Q50-80	Spreading conveyor synchronization emission / reception + single ply feeder synchronization	O	O	O	O	O	O
Spreading conveyor synchro reception		O	O	O	O	O	O
SPC & SPS feeding system synchro reception		O	O	O	O	O	O

✓ = Standard O = Option - = Not available

		Low-Ply		High-ply			
		VT-AU-IX-72 VT-AU-IX-100	**VT-AU-IXM-72 VT-AU-IXM-100**	**VT-AU-IQ50-71 VT-AU-IQ50-86**	**VT-AU-IQ80-71 VT-AU-IQ80-86**	**VT-AU-IX6-71 VT-AU-IX6-86**	**VT-AU-IX9-71 VT-AU-IX9-86**
Cutting head							
Drill 4 QCD delivered without drill (iQ50) Original Equipment only (no retrofit)	Drills (Quick change drill 1/2, heating needle, drill/needed heat)	-	-	O	-	-	-
Drill 4 QCD delivered without drill (iQ50) Original Equipment only (no retrofit)		-	-	-	O	-	-
Blade cooling device	Blade cooling device with compressed air jet	✓	✓	✓	✓	✓	✓
Vaccuum options							
Vaccum assembly		15kW	15kW	30kW	30kW	45kW	45kW
VB 45 KW	Vacuum booster (From 22 KW to 45KW)	-	-	O	O	✓	✓
VB 22 KW		O	O	-	-	-	-
Mosaïc matching system							
Vector vision (HW)	High-definition digital camera	-	✓	-	-	-	-
Mosaïc Expert (SW)	Nesting recalculation in real-time	-	✓	-	-	-	-
Mosaïc Auto (SW)	Full process automatization without operator intervention in real-time	-	✓	-	-	-	-
Identification device							
PPLIFT	Postprint labeller (Identifies cut parts using self-adhesive labels)	-	-	O	O	O	O
Conveyor Options							
CODA Extension (iX6/iX9/iH5/iH8/Q80)	Offload conveyor extension (Different sizes available)	-	-	O	O	O	O
CODA Extension (iP6/iP9)		-	-	-	-	-	-
CODA extension 22		O (72")	O (72")	-	-	-	-
CODA extension 35		O (72")	O (72")	-	-	-	-
CODA Extension 45		O (72")	O (72")	-	-	-	-

✓ = Standard O = Option - = Not available

		Low-Ply		High-ply			
		VT-AU-IX-72 VT-AU-IX-100	**VT-AU-IXM-72 VT-AU-IXM-100**	**VT-AU-IQ50-71 VT-AU-IQ50-86**	**VT-AU-IQ80-71 VT-AU-IQ80-86**	**VT-AU-IX6-71 VT-AU-IX6-86**	**VT-AU-IX9-71 VT-AU-IX9-86**
Others							
Exhaust system	Underlay paper roll holder/Paper bar	O	O	✓	✓	✓	✓
Underlay paper holder		✓	✓	✓	✓	✓	✓
Paper bar		✓ (72") (100")	✓ (72") (100")	O	O	✓	✓
Plastic bar (Qty 1)		O	O	O	O	O	O
Plastic bar extended (Qty 1)		-	-	✓	✓	-	-
Plastic bar (Qty 2)		-	-	O	O	-	-
Plastic bar extended (Qty 2)		-	-	-	-	✓	✓
Performance							
Compressed fabric height		2.5cm	2.5cm	5cm	8cm	6cm	9cm
Cutting speed (max)		80m/min	80m/min	60m/min	60m/min	80m/min	80m/min
Maximum acceleration	Maximum acceleration/ Cutting speed	8m/s²	8m/s²	4m/s²	4m/s²	8m/s²	8m/s²
Vibration frequency (rpm)		6000	6000	3500	3500	6000	6000
Effective cutting window length		1.5m	1.5m	1.7m	1.7m	1.7m	1.7m
Effective cutting window width		72"-1.82m 100"-2.54m	72"-1.82m 100"-2.54m	71"-1.8m 86"-2.2m	71"-1.8m 86"-2.2m	71"-1.8m 86"-2.2m	71"-1.8m 86"-2.2m
Average power consumption		<9kW	<9kW	<15kW	<15kW	<15kW	<15kW
Specifications							
Noise level		<77dB	<77dB	<73dB	<73dB	<75dB	<75dB
Installed electrical power (max)		15kW	15kW	30kW	30kW	45kW	45kW
Machine controls placement	Operator PC control (Right or left)	Right or left		Right or left			
Safety devices	Laser safety scanner	Emergency Stop		Emergency Stop			
Temperature		10°-43°C		10°-43°C			
Humidity (at 30° without condensation)		<95%		<95%			
Compatibility	System compatibility formats	ISO 6983AAMA, RS274D, DXF, Lectra and investronica formats		ISO 6983AAMA, RS274D, DXF, Lectra and investronica formats			
Operating system		Windows		Windows			

About Lectra

For companies that breathe life into our wardrobes, car interiors, furniture and more, Lectra crafts the premium technologies that facilitate the digital transformation of their industry. Lectra's offer empowers brands, manufacturers and retailers from design to production, providing them with the market respect and peace of mind they deserve. Founded in 1973, the company is listed on Euronext (LSS).

In June 2021, Lectra acquired Gerber Technology, a USA-based company founded in 1968. Like Lectra, Gerber Technology develops software and automation solutions for fashion, automotive, furniture and other businesses across the globe.

By uniting, Lectra and Gerber Technology will become the ultimate Industry 4.0 partner for their customers.

For more information, please visit **lectra.com** and **gerbertechnology.com**