



Technical Datasheet

VECTOR iP 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.



HIGH-PLY

iP6

iP9

✓ = Standard ○ = Option

		High-ply	
		VT-AU-IP6-71 VT-AU-IP6-86	VT-AU-IP9-71 VT-AU-IP9-86
Cutting Quality & Performance			
Sintered steel blade		1.5x6.5	2x7
Standard Quick Change Drills with automatic diameter control		2 standard Drills (D2QCD)	4 standard Drills (D2QCD)
Cutting during conveyor advance (Eclipse)		✓	✓
Dynamic vacuum control		✓	✓
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		✓	✓
Proximity management		✓ (blades ID)	✓ (blades ID)
Automatic measurement of blade size (life time & cutting path optimization)		✓ (blades ID)	✓ (blades ID)
Anti-error systems			
Automatic drill diameter ID & size control		✓	✓
Blade breakage detection	Blade wear display / breakage detection	✓	✓
Automatic spread height control		✓	✓
Optimal user experience & Visual 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		✓	✓
Uptime Management			
Predictive maintenance & remote maintenance enabled	IIoT remote maintenance (Messages / predictive maintenance)	✓	✓
Warning messages for preventive maintenance		✓	✓
Auto-diagnostics of electronic cards		✓	✓
Electronic maintenance logbook		✓	✓

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		High-ply	
		VT-AU-iP6-71 VT-AU-iP6-86	VT-AU-iP9-71 VT-AU-iP9-86
Process-oriented operating software			
Pre-programmed cutting parameters		✓	✓
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		✓	✓
Safety			
Lateral scrutators (Radar)		✓	✓
Barcode Reader			
Barcode reader USB	Barcode reader (USB/Bluetooth)	✓	✓
Barcode reader BT		○	○
Offloading Device			
Offload HW	Offload assistance via a screen	✓	✓
Offload SW		✓	✓
Synchronisation			
Spreading conveyor synchro emission (only with OPM) For iX6-9/iH5-8/Q50-80	Spreading conveyor synchronization emission / reception + single ply feeder synchronization	○	○
Spreading conveyor synchro reception		○	○
SPC & SPS feeding system synchro reception		○	○
Cutting head			
Blade cooling device	Blade cooling device with compressed air jet	✓	✓
Vacuum options			
Vacuum assembly		45kW	45kW
VB 45 KW	Vacuum booster (from 22 KW to 45KW)	✓	✓
Conveyor Options			
CODA Extension (iP6/iP9)		○	○

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		High-ply	
		VT-AU-IP6-71 VT-AU-IP6-86	VT-AU-IP9-71 VT-AU-IP9-86
Others			
Exhaust system	Underlay paper roll holder/ Paper bar	✓	✓
Underlay paper holder		✓	✓
Paper bar		✓	✓
Plastic bar (Qty 1)		○	○
Plastic bar extended (Qty 2)		✓	✓
Performance			
Compressed fabric height		6cm	9cm
Cutting speed (max)		80m/min	80m/min
Maximum acceleration	Maximum acceleration/ Cutting speed	8m/s ²	8m/s ²
Vibration frequency (rpm)		6000	6000
Effective cutting window length		1.7m	1.7m
Effective cutting window width		71"-1.8m 86"-2.2m	71"-1.8m 86"-2.2m
Average power consumption		<15kW	<15kW
Specifications			
Noise level		<75dB	<75dB
Installed electrical power (max)		45kW	45kW
Machine controls placement	Operator PC control (Right or left)	Right or left	
Safety devices	Laser safety scanner	Emergency Stop	
Temperature		10°-43°C	
Humidity (at 30° without condensation)		<95%	
Compatibility	System compatibility formats	ISO 6983AAMA, RS274D, DXF, Lectra and investronica formats	
Operating system		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

