



Technical datasheet

VECTOR

VectorFootwear iX2, iX6 and iP6

Designed for thinner spreads, the Vector iX2 fabric cutting solution offers footwear manufacturers the agility they need to remain competitive in a constantly evolving market. The Vector iX6 fabric cutting solution offers operators great productivity and flexibility for producing larger volumes. The Vector iP6 fabric cutting solution enables the biggest material savings to be achieved while meeting the highest quality requirements. Manufacturers can cut compressed fabric thicknesses of up to 2.5 cm with Vector iX2 and 6 cm with Vector iX6 and iP6. They can thus accelerate production, improve product quality and become more sustainable while reducing total cost of ownership.

| | VectorFootwear iX2 | VectorFootwear iX6/iP6 |
|--------|--------------------|------------------------|
| | 72' | 71' |
| Width | 2.62 m | 2.60 m |
| Length | 3.82 m | 4.81 m |
| Weight | 1990 kg | 3840 kg |

CUTTING SOLUTIONS



iX2



iX6



iP6

| | Vector iX2 - 72' | Vector iX6 - 71' | Vector iP6 - 71' |
|--|---|------------------|-----------------------------|
| MAIN SPECIFICATIONS | | | |
| Maximum compressed fabric thickness | 2.5 cm | 6 cm | 6 cm |
| Effective cutting window width | 72' - 1.82 m 86' - 2.20 m | 1.8 m | 1.8 m |
| Steel blade dimensions | 1.45 x 5 55°: for standard use 40°: optimized for the constraints of Footwear fabrics 1.45 x 3.5 For small geometries | Steel 2 x 7 | Sintered Steel 1.5 x 6.5 |
| CUSTOMER CHALLENGES/ THEMES AND MAIN FEATURES | | | |
| OPTIMIZE ALL PRODUCTION PROCESSES | | | |
| Process-focused software | | | |
| Cutting rolls of material | ✓ | - | - |
| Recutting pieces | ✓ | ✓ | ✓ |
| Simultaneous cutting of multiple markers | ✓ | ✓ | ✓ |
| Management of matching | | | |
| Laser pointer for managing matching points | ✓ | ✓ | ✓ |
| Anti-error systems | | | |
| Multitask system for data entry | ✓ | ✓ | ✓ |
| Programmable sharpening system | ✓ | ✓ | ✓ |
| Marker queuing | ✓ | ✓ | ✓ |
| Pre-programmed cutting parameters | ✓ | ✓ | ✓ |
| Video assistance to check spread positioning | ✓ | ✓ | ✓ |
| Blade breakage detection | ✓ | ✓ | ✓ |
| Automatic spread thickness control | ✓ | ✓ | ✓ |
| Laser assistance with spread alignment | ○ | - | - |
| GUARANTEE CUT QUALITY AND EFFICIENCY | | | |
| Digital compensation for blade curvature | - | ✓ | ✓ |
| Cutting during conveyor advances (Eclipse) | ✓ | ✓ | ✓ |
| Automatic path and cutting window optimization | ✓ | ✓ | ✓ |
| Optimized cutting or cutting with minimal spacing for adjacent pieces | ✓ | ✓ | ✓ |
| Digital control of heated needle temperature | - | ✓ | ✓ |
| Dynamic vacuum control | ✓ | ✓ | ✓ |
| Rapid blade raise/lower movements | ✓ | - | - |
| Proximities management | - | - | ✓ (blade ID) |
| Automatic blade measurement (automatic wear and cutting path optimization) | - | - | ✓ (blade ID) |

| REDUCE TOTAL COST OF OWNERSHIP | | | |
|--|-------------------------------|--------------------------|-------|
| Operating time optimization | | | |
| Preventive maintenance frequency | 1000 H | 500 H | 500 H |
| Predictive and remote maintenance | ✓ | ✓ | ✓ |
| Auto-diagnostics of circuit boards | ✓ | ✓ | ✓ |
| Alert messages (preventive maintenance) | ✓ | ✓ | ✓ |
| Electronic maintenance log | ✓ | ✓ | ✓ |
| ADAPT TO NEW CORPORATE SOCIAL RESPONSIBILITY REQUIREMENTS | | | |
| Operator safety | | | |
| Emergency stop buttons | ✓ | ✓ | ✓ |
| Enabling switch (safety system for remote control) | ✓ | ✓ | ✓ |
| Side safety radars | ○ | ○ | ✓ |
| Ecological footprint | | | |
| Energy-saving vacuum system | ✓ | ✓ | ✓ |
| Low consumption vacuum system | ✓ | - | - |
| Restart in the event of power cut | ✓ | ✓ | ✓ |
| Long-life consumables | ✓ | ✓ | ✓ |
| Permanent bristle block cleaner | ✓ | ✓ | ✓ |
| Vector recycling container | ○ | - | - |
| Optimized user experience and visual management | | | |
| Real-time vacuum and blade information | ✓ | ✓ | ✓ |
| Blade wear display | ✓ | ✓ | ✓ |
| Real-time process monitoring | ✓ | ✓ | ✓ |
| Cutting dashboard | ✓ | ✓ | ✓ |
| Light indicators on cutting head | ✓ | ✓ | ✓ |
| Touchscreen | ✓ | ✓ | ✓ |
| Intuitive, ergonomic software | ✓ | ✓ | ✓ |
| CONFIGURATION | | | |
| VACUUM | | | |
| Vacuum system | 15 kW Very low consumption | 45 kW Low consumption | |
| CUTTING HEAD | | | |
| Blade cooling system (Vortex) | | | |
| Blade cooling device | ○ | ✓ | ✓ |
| Heated needle and drilling device (drills not included) | | | |
| 1 drill with quick change system | ○ | - | - |
| 2 drills with quick change system | ○ | - | - |
| 2 QCD drills with waste removal device | ○ | ✓ | ✓ |

| OFFLOADING | | | |
|--|---------------------------|------|---|
| Offloading visual assistance | | | |
| Offloading screen | ○ | ✓ | ✓ |
| Offloading software | ○ | ✓ | ✓ |
| Offloading conveyor extension | | | |
| 2.20 m CODA | ○ | - | - |
| 3m extended offloading conveyor | - | ○ | ○ |
| IDENTIFICATION/NOTES | | | |
| PostPrint labeling system | ○ | ○ | ○ |
| Notes pen | ○ | - | - |
| MISCELLANEOUS | | | |
| Plastic strip covering cut pieces between the cutting head and the offloading area for Vector Q2 iX2 86' | ○ | - | - |
| Extraction chimney | ○ | ✓ | ✓ |
| Bar for upper unwinders (up to two locations) | x1 Second as an option | ✓ x2 | |
| Bar for lower unwinder (holds paper support, useful in case of supply by conveyor or roller) | ○ | ✓ | ✓ |
| INTEGRATION IN THE CUTTING ROOM | | | |
| LATERAL TRANSFER (OPM) | | | |
| OPM <i>Lateral transfer for Vector cutters</i> | ○ | ○ | ○ |
| 6-meter OPM rails | ○ | ○ | ○ |
| 8-meter OPM rails | ○ | ○ | ○ |
| 10-meter OPM rails | ○ | ○ | ○ |
| 12-meter OPM rails | ○ | ○ | ○ |
| 14-meter OPM rails | ○ | ○ | ○ |
| 16-meter OPM rails | ○ | ○ | ○ |
| 18-meter OPM rails | ○ | ○ | ○ |
| 20-meter OPM rails | ○ | ○ | ○ |
| 22-meter OPM rails | ○ | ○ | ○ |
| 24-meter OPM rails | ○ | ○ | ○ |
| 26-meter OPM rails | ○ | ○ | ○ |
| 30-meter OPM rails | ○ | ○ | ○ |
| 32-meter OPM rails | ○ | ○ | ○ |
| 34-meter OPM rails | - | ○ | ○ |
| 36-meter OPM rails | - | ○ | ○ |
| 38-meter OPM rails | - | ○ | ○ |
| 40-meter OPM rails | - | ○ | ○ |
| 42-meter OPM rails | - | ○ | ○ |
| 44-meter OPM rails | - | ○ | ○ |
| 50-meter OPM rails | - | ○ | ○ |
| 56-meter OPM rails | - | ○ | ○ |

| SYNCHRONIZATION WITH SUPPLY DEVICES | | | |
|--|--|-----------------------|--------------------|
| Wired connection with roller or conveyor | ○ | ○ | ○ |
| Transmitter integrated into conveyor <i>with OPM: remote transmitter installed on cutter enabling it to be used with a Lectra conveyor or SPC</i> | ○ | ○ | ○ |
| Receiver integrated into conveyor with OPM: <i>remote receiver installed on conveyor enabling it to be used with a Lectra cutter</i> | ○ | ○ | ○ |
| Receiver integrated into SPC supply system <i>with OPM: remote receiver installed on conveyor enabling it to be used with a Lectra cutter</i> | ○ | ○ | ○ |
| BARCODE READER | | | |
| USB barcode reader | ○ | ○ | ○ |
| Bluetooth barcode reader | ○ | ○ | ○ |
| DRIVER | | | |
| VxRx | VT-FW-IX2-PVxRx | VT-FW-IX6-PVxRx | VT-FW-IP6-PVxRx |
| TECHNICAL SPECIFICATIONS | | | |
| Vacuum system | 15 kW | 45 kW | 45 kW |
| Cutting speed (max.) | 80 m/min | 80 m/min | 80 m/min |
| Maximum acceleration | 8 m/s ² | 8 m/s ² | 8 m/s ² |
| Vibration frequency (rpm) | 6000 | 6000 | 6000 |
| Effective cutting window length | 1.60 m | 1.70 m | 1.70 m |
| Average power consumption | < 6 kW | < 15 kW | < 15 kW |
| Length | 3.82 m | 4.81 m | 4.81 m |
| Width | 103" - 2.62 m | 102" - 2.60 m | 102" - 2.60 m |
| Cutting table height | Between 75.7 and 90.7 cm | Between 79 and 90 cm | |
| Noise level | < 75 dB | < 75 dB | < 75 dB |
| Installed power (max.) | 15 kW | 45 kW | 45 kW |
| Weight | 1990 kg | 3840 kg | 3840 kg |
| Location of machine controls | Right / left | Right / left | |
| Safety devices | Emergency stop button | Emergency stop button | |
| Temperature | 10°C - 43°C | 10°C - 43°C | |
| Humidity (at 30°C without condensation) | < 95 % | < 95 % | |
| Compatibility | ISO 6983, AAMA, RS274D, DXF, Lectra and Investronica formats | | |
| Operating system | Windows 10 - 64-bit | | |

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 3,000 employees are driven by three core values: being open-minded thinkers, trusted partners and passionate innovators.

