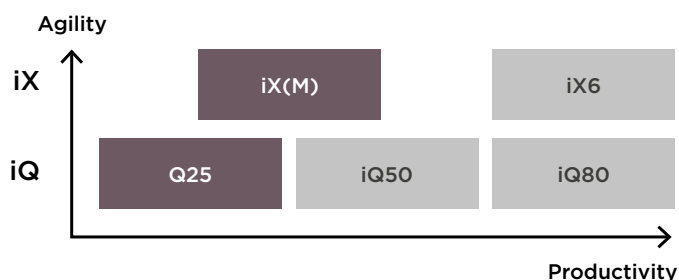# Technical Datasheet
# **VECTOR**® Furniture

Achieve a speedy production process and high-quality products at the lowest price per cut with Vector. This advanced fabric-cutting solution brings new levels of productivity and precision to your cutting room.

With Vector, you can optimize your cutting room for flexible mass production cycles, meet tight production deadlines, quickly deliver orders and grow your margins.

## A COMPLETE RANGE

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

Agility

| iX | iX(M) | | iX6 |
|---|---|---|---|
| iQ | Q25 | iQ50 | iQ80 |

Productivity

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| **LOW-PLY** | **HIGH-PLY** |
|---|---|



**LOW-PLY**

Overall length: 3,82m

Overall width: 2,62m (Vector iX-100: 3,40m)

Weight: 2430Kg

| Q25 | iX | iXM |
|---|---|---|

Low-Ply



**HIGH-PLY**

Overall width: 2,60m (Vector iQ50-86, Vector iQ80-86, Vector iX6-86: 3m)

Overall length: 4,81m

Weight: 3840Kg

| iQ50 | iQ80 | iX6 |
|---|---|---|

High-Ply

LECTRA

✓ = Standard          O = Option

| | | Low-Ply | | | High-ply | | |
|---|---|---|---|---|---|---|---|
| | | **Vector Q25-72** | **Vector iX-72 / Vector iX-100** | **Vector iXM-72** | **Vector iQ50-71 / Vector iQ50-86** | **Vector iQ80-71 / Vector iQ80-86** | **Vector iX6-71 / Vector iX6-86** |
| **Cutting Quality & Performance** | | | | | | | |
| Steel blade size | | 1.5x5.5 (or 1.5x3.5 / 1.5x5) | | | 2.4x8.5 | | |
| Cutting during conveyor advance (Eclipse) | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dynamic vacuum control | | | | | - (variable vacuum) | - (variable vacuum) | ✓ |
| Automatic cutting path optimization | Smart control (Cutting path/window, digital blade bending calculation, pre-programmed cutting parameters, spread height) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Automatic cutting window calculation | | | | | ✓ | ✓ | ✓ |
| Digital blade bending compensation system with automatic calibration | | | | | ✓ | ✓ | ✓ |
| Pre-programmed cutting parameters | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Automatic spread height control | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Anti-error systems** | | | | | | | |
| Blade breakage detection | Blade wear display / breakage detection | | ✓ | ✓ | | | ✓ |
| Blade wear display | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Eco Footprint** | | | | | | | |
| Long life consumables | Blades, sharpening bands, bristle blocks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Cutting head** | | | | | | | |
| Blade cooling device | Blade cooling device with compressed air jet | O | O | O | O | O | O |
| Drill Heat | Drills (Quick change drill 1/2, heating needle, drill/needed heat) | | | | | | |
| Drill 1 QCD | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Drill 2 QCD | | O | O | O | O | O | |
| **Uptime Management** | | | | | | | |
| Predictive maintenance & remote maintenance enabled | IIoT remote maintenance (Messages / predictive maintenance) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Warning messages for preventive maintenance | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Safety** | | | | | | | |
| Lateral safety radars (Original equipment only) | | O | O | O | O | O | O |

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|---|---|---|---|---|---|---|---|
| | | **Vector Q25-72** | **Vector iX-72<br>Vector iX-100** | **Vector iXM-72** | **Vector iQ50-71<br>Vector iQ50-86** | **Vector iQ80-71<br>Vector iQ80-86** | **Vector iX6-71<br>Vector iX6-86** |
| **Barcode Reader** | | | | | | | |
| Barcoder reader USB | Barcode reader (USB/Bluetooth) | O | O | O | O | O | O |
| Barcoder reader BT | | O | O | O | O | O | O |
| **Offloading Device** | | | | | | | |
| Offload HW | Offload assistance via a screen | O | ✓ | ✓ | O | O | ✓ |
| Offload SW | | O | ✓ | ✓ | O | ✓ | ✓ |
| **Lateral Transfer (OMP)** | | | | | | | |
| OMP | Rail transfer system to move the cutter | O | O | O | O | O | O |
| **Synchronisation** | | | | | | | |
| Spreading conveyor synchro emission (only with OPM) | 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 |
| **Vaccuum booster** | | | | | | | |
| VB 22 KW | Vacuum booster (From 22 KW to 45KW) | O | O | O | | | |
| VB 45 KW | | | | | O | O | |
| **Mosaïc Matching System** | | | | | | | |
| Vector Vision (HW) (incompatible with Postprint) | High-definition digital camera | | | ✓ | | | |
| Mosaïc Expert (SW) | Nesting recalculation in real time | | | ✓ | | | |
| Mosaïc Auto (SW) | Full process automatization without operator intervention | | | ✓ | | | |
| **Identification Device** | | | | | | | |
| Postprint | Postprint labeller (Identifies cut parts using self-adhesive labels) | | O | | O | O | O |
| PPLIFT | | | | | O | O | O |
| PEN (incompatible with D2 and Inkjet) | Pen to write on logs | | O | O | | | |
| **Conveyor Options** | | | | | | | |
| CODA extension 22 | Offload conveyor extension (Different sizes available) | O | O | O | | | |
| CODA extension 35 | | O | O | O | | | |
| CODA extension 45 | | O | O | O | | | |
| CODA Extension (iQ50/iX6/iQ80) | | | | | O | O | O |

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| --- | --- | --- | --- | --- | --- | --- |
| | | **Vector Q25-72** | **Vector iX-72**<br>**Vector iX-100** | **Vector iXM-72** | **Vector iQ50-71**<br>**Vector iQ50-86** | **Vector iQ80-71**<br>**Vector iQ80-86** | **Vector iX6-71**<br>**Vector iX6-86** |
| **Others** | | | | | | | |
| Exhaust system | Exhaust system | | | | ✓ | ✓ | ✓ |
| Underlay paper holder | Underlay paper roll holder / Paper bar | | O | O | | | ✓ |
| Paper bar | | | | | O | ✓ | ✓ |
| **Performance** | | | | | | | |
| Compressed fabric height | Compressed fabric height | 2.5cm | 2.5cm | 2.5cm | 5cm | 8cm | 6cm |
| Maximum acceleration | Maximum acceleration / Cutting speed | 8m/s² | 8m/s² | 8m/s² | 4m/s² | 4m/s² | 8m/s² |
| Effective cutting window width | Effective cutting window width | 1,82m | 72"-1,82<br>100»-2,54m | 1,82m | 71"-1,8m | 71»-1,8m | 71»-1,8m |
| Average power consumption | Average power consumption | <9kW | <9kW | <9kW | <15kW | <15kW | <15kW |
| **Specifications** | | | | | | | |
| Noise level | | <77 dB | <77 dB | <77 dB | <73 dB | <73 dB | <73 dB |
| Installed electrical power (max) | | 15 kW | 15 kW | 15 kW | 30 kW | 30 kW | 45 kW |
| Machine controls placement | Operator PC control (Right or left) | Right or left | Right or left | Right or left | Right or left | Right or left | Right or left |
| Safety devices | Laser safety scanner | Emergency Stop | Emergency Stop | Emergency Stop | Emergency Stop | Emergency Stop | Emergency Stop |
| Temperature | | 10°-43°C | 10°-43°C | 10°-43°C | 10°-43°C | 10°-43°C | 10°-43°C |
| Humidity (at 30° without condensation) | | <95% | <95% | <95% | <95% | <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 10-64bits | | | Windows 10-64bits | | |

**About Lectra**

For companies that breathe life into our wardrobes, car interiors, furniture and more, Lectra is crafting the premium technologies that facilitate the digital transformation of their industry. Lectra's offer empowers brands and manufacturers from design to production, providing them with the market respect and peace of mind they deserve.

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