



X-WAVE CONVEYOR

The fastest professional laser system for cutting rolls of organic and technical fabric: high-speed, high-precision and high-quality performances

- **X-Wave Conveyor** is a laser system designed for cutting rolls of organic and technical fabric, including colored and printed ones, with a maximum width of 1600mm (1800 on demand). It is the top solution for manufacturers of finished garment, footwear, clothing, filtech, fashion and any industrial application where quality, precision and speed are essential requirements.
- "The laser has no weight". Inspired by this idea, **X-Wave Conveyor** features a brand-new cartesian movement of the laser head obtained by two carbon fibre axes, driven by four high-performance linear motors. This allows cutting speeds of up to 4000 mm/s with accelerations of 6g. All this, combined with a refined control of the laser source, gained from thirty years of experience, results in a system characterised by unparalleled productivity and precision.
- **X-Wave Conveyor** integrates a fabric transport system from the unwinder to the working area

and until the material unloading, designed to eliminate laser cutting side effects: dust, fumes and unwanted reflections. An extremely precisely and consistently controlled fabric handling, guarantees exceptional quality "by step" or "on the fly" processing, even in the event of profile "resumption".

- Combined with SEI artificial vision system, it is possible to compensate for the typical fabric deformations by making cuts consistent with the weft or the printing.
- **X-Wave Conveyor**, thanks to its control software versatility, fits easily into the most diverse industrial environments: textile, converting, filtration, automotive, fashion, etc. It is born compliant with Industry 4.0 directives and expresses its full potential within modern digitalized production processes.



Scanner camera



Ultralight carbon X-Y axes





X-WAVE CONVEYOR

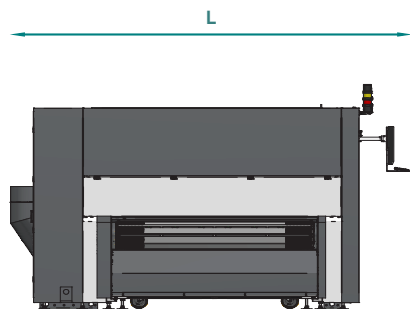
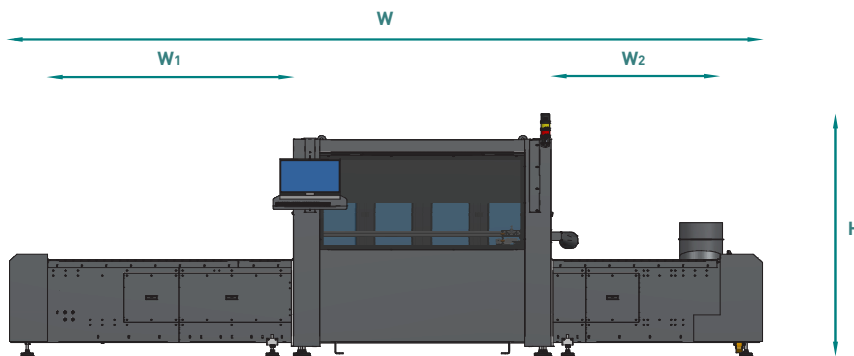
Main technical features:

Versions	V150	V300	V400	V500
Laser technology	Sealed CO ₂ laser source excited by RF discharge			
Laser power	150W	300W	400W	500W
Max. roll height	Up to 1600 mm (1800 mm on demand)			
Max working area	1600 x 1500 mm			
Accuracy	± 0,15 mm per linear meter of displacement			
Max. acceleration	60 m/s ²			
Max. laser speed	4 m/s			
Max. conveyor speed	20 m/min			
Software interface	CAD/CAM Icaro on Windows™ platform			
Vector images import	.dxf; .plt; .ai; .eps; .pdf;			
Norm compliance	2014/35/EU Low Voltage Directive			
	2006/42/CE Machinery Directive			
	2014/30/EU Electromagnetic Compatibility Directive			
	IEC EN 60825-1 Laser Safety			



Available options to increase flexibility and automation:

- SEI vision system
- Unwinder / Winder machine
- Stacker for cutted pieces

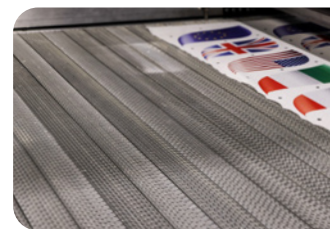


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- *W = 5735 mm
- *W₁ = 1600 mm
- *W₂ = 1380 mm
- L = 3490 mm
- H = 2160 mm

* variable according to customer requests

Anti-reflective suction table



Optimized fume extraction

