



LASERLABEL XL 2.0 machine

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AUTOMATIC PLOTTER LASER CUTTING MACHINE

Laser cutting machine with plotter system to cut ribbons from roll to roll that ensures **extreme precision cutting**, particularly suitable for making **emblems** with a **perfect perpendicular cut edge**. It is ideal for working on different types of materials, such as woven and printed ribbons, artificial leather, paper and synthetic materials. The **automatic centring** of the product is managed by innovative **software** that by reading data from a **photocell** ensures the **correct positioning of the cut** even in the presence of ribbons with long and short labels.

SIMPLICITY - the machine has been designed and engineered down to its smallest detail to permit easy use and even by an unqualified operator.

RELIABILITY - the machine uses the best technology and premium components to always guarantee high performance.

MACHINE DESCRIPTION

PLOTTER MOVEMENT SYSTEM

The cut is moved by a plotter system. This uses a **cooling system which blows air** onto the cutting point.

RIBBON FEED

Adjustable ribbon length controlled by a **step motor**.

LASER SOURCE

Completely sealed CO2 gas laser source: this is the latest technology available on the market. It allows **constant laser power control** and because of its reliability and long life it is suitable also for working long shifts and **does not require continuous replacement of the external gas cylinders**.

PRECISION

The **automatic centring of the product is assured by exclusive software that operates in combination with one photocell**, allowing maximum precision for each single job.

CUTTING OUTLINE

The cutting outline can be created using all graphic programs that produce files in vector (Corel Draw, Adobe Illustrator, Macromedia Freehand) and bitmap format (.hpgl, .plt, .eps, .bmp, .jpeg, etc.). These files can be transferred from the programs to the machine by means of USB memory sticks.

SETTING STORAGE

The **processed drawings can be stored on the machine**, making them instantly available with the settings stored, ready for future orders. The outlines are stored together with a text file in which the operator can write notes and comments. All the data is stored on a **double hard disk in mirroring storage** so as to assure maximum **reliability** of subsequent file retrieval. The **multi-language** operator interface software is easy to use and very intuitive.

WATER CHILLER

It keeps the **temperature of the laser source stable**, keeping performance constant assuring constant production.

MOTORISED RIBBON UNWINDER

An **automatic stop** when no material is present.

ACCESSORIES (OPTIONS)

VLXL HI-TECH VIDEO CAMERA "LABEL GENIUS CAMERA"



The innovative video camera "**LABEL GENIUS CAMERA**" reads the contour to be cut following any deformation of the ribbon fabric, also in the presence of **irregular label length**, furthermore it can automatically create the cutting shape to be followed. The **high speed** of production remains unchanged compared to the standard LASERLABEL XL 2.0 machine. Our innovative system **optimises production** while avoiding costly waste of labels. The **remarkable precision** of the system makes it possible to carry out cutting processes which are normally impossible. The **workable dimensions** of the software are **200 x 250 mm**. For optimal use of the camera the "**L1XLN optional accessory Metal Conveyor Belt**" is necessary on the LASERLABEL XL 2.0 machine. It keeps the ribbon supported during processing.

L2XL DRAWER

This allows the processing of **individual pieces** and is particularly suitable for processing leather labels and samples.

L1XLN REMOVABLE TRACK WITH BLADES

This conveyor belt is equipped with support blades that make it particularly resistant to wear. Ideal for working large labels and long ribbons, thanks to the support area that helps to support them, it makes their processing easier.

LASER PROCESSES

	STRAIGHT CUT
	ZIG-ZAG CUTTING
	SHAPING
	ZIP PULLERS
	SHAPED PIERCING
	LAMINATING UNIT WITH SELF-ADHESIVE MATERIAL (OPTION)



LAMINATING UNIT / REWINDER

ALXL: Device that allows the laminating of the ribbon with self-adhesive material before cutting or kiss-cutting and then the rewinding of waste material onto an additional re-winder.

AXL: Laminating arm for self-adhesive material.

LRXL: Rewinder to remove the waste material.



MULTICYCLE KIT WITHOUT READING MARKS

MULTICYCLE kit for ribbons that don't need any reading marks, particularly suitable to process technical ribbons. The MLX Kit includes:

- Multicycle software for cutting long labels that enables to process sequences of drawings even different from each other;
- At machine's in-feed, a modified unwinder complete with an inverter to process long ribbons;
- Tape support plate positioned in the machine's cutting area;
- On the exit of the worked products, the machine is equipped with metallic slides to facilitate the fall of the processed ribbon;



ANTI-TWISTING DEVICE

Anti-twisting device of the ribbon positioned at machine's in-feed to process the reels from box to box.



MULTI-LOGO SOFTWARE

This software with the aid of the video camera installed on the GALVOLABEL XL and the LASERLABEL XL, allows to center and cut several images identical to each other on the reading area of the videocamera using the fixed drawing operating system combined with the video camera system; the videocamera detects the exact position of each label combining it with the drawing to be cut.



MULTICYCLE KIT WITH READING MARKS

MULTICYCLE kit for ribbons that need the reading marks more than 300 mm between them. The Kit MTLX includes:

- Multicycle software for cutting long labels that enables to process sequences of drawings even different from each other;
- At machine's in-feed, a modified unwinder complete with an inverter to process long ribbons;
- Tape support plate positioned in the machine's cutting area;
- An extended tape support plate complete with a special trolley adapted with a photocell for ribbon reading;
- On the exit of the worked products, the machine is equipped with metallic slides to facilitate the fall of the processed ribbon.

TECHNICAL FEATURES

EFFECTIVE LASER BEAM POWER AVAILABLE

60 W - 120 W

SPEED AND POWER

Possibility of programming an unlimited number of different power levels and speeds of the laser ray on the same label.

PC INCORPORATED

The machine is supplied with a PC complete with keyboard and mouse ready for immediate use without installing any external software.

TECHNICAL DATA

OUTPUT DETAILS	MAXIMUM SPEED	3.500 pz/h - 2 m/min	MACHINE DETAILS	ELECTRICS	220/240 V, 50/60 Hz
	WORKABLE DIMENSIONS	200 mm x 260 mm		MAX ABSORBED POWER	• 60W: 5 kW/h • 120W: 6,5 kW/h
	MOVEMENT SYSTEM	Plotter		NOISE LEVEL	< 60 dB
	CERTIFICATIONS	CE U.S.A. FDA-CDRH 21 C.F.R.		WEIGHT	600 kg
				DIMENSIONS	250 x 120 x 190 h cm