



GALVOLABEL XL machine
(workable dimensions 230 x 230 mm)



AUTOMATIC GALVANOMETRIC LASER CUTTING MACHINE

Laser cutting machine with a galvanometric system to cut and engrave ribbons from roll to roll. It is ideal for working different types of materials, such as woven and printed ribbons, paper, leather and imitation leather, synthetic and natural materials. The **automatic centring** of the product is managed by exclusive **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

GALVANOMETRIC SYSTEM

The laser beam is driven by a **galvanometric system** composed of two mirrors that make it possible to work at **high speed**.

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 **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.

LASER PROCESSES

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

ACCESSORIES (OPTIONS)

VGXL 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 GALVOLABEL XL 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 200 mm**. For optimal use of the camera the "**L1XL optional accessory Metal Conveyor Belt**" is necessary on the GALVOLABEL XL machine. It keeps the ribbon supported during processing.

L1XL

REMOVABLE TRACK

Helps **support large labels** during cutting operation and it is recommended when using the videocamera.

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.

L2XL

DRAWER

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

CKI

ANTI-TWISTING DEVICE

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



MULTICYCLE KIT WITHOUT READING MARKS

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

- Multicycle software for cutting long labels that enables to process sequences of drawings even different from each other;
- Device to improve ribbon feeding, complete with sponge and supports;
- 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.



MULTICYCLE KIT WITH READING MARKS

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

- Multicycle software for cutting long labels that enables to process sequences of drawings even different from each other;
- Device to improve ribbon feeding, complete with sponge and supports;
- 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.



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. **Only for ribbon with a maximum width of 100 mm.**



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.

TECHNICAL FEATURES

EFFECTIVE LASER BEAM POWER AVAILABLE	
60 W - 120 W	
AXIS POSITIONING ACCURACY	OPERATING FREQUENCY
0,03 mm (0,001 inch)	5 KHz
SYSTEM REPEATABILITY	
0,038 mm (0,0015 inch)	

SPEED AND POWER

Possibility of programming 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

GALVOLABEL XL 60 W

OUTPUT DETAILS	MAXIMUM SPEED	13.000 pcs/h - 7 m/min	MACHINE DETAILS	ELECTRICS	230 V 1~ 50/60 Hz
	WORKABLE DIMENSIONS	230 mm x 230 mm		MAX ABSORBED POWER	5 kW/h
	MOVEMENT SYSTEM	Galvanometric		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

GALVOLABEL XL 120 W

OUTPUT DETAILS	MAXIMUM SPEED	21.600 pcs/h - 8 m/min	MACHINE DETAILS	ELECTRICS	230 V 1~ 50/60 Hz
	WORKABLE DIMENSIONS	230 mm x 230 mm		MAX ABSORBED POWER	6,4 kW/h
	MOVEMENT SYSTEM	Galvanometric		NOISE LEVEL	< 60 dB
	CERTIFICATIONS	CE U.S.A. FDA-CDRH 21 C.F.R.		WEIGHT	650 kg
				DIMENSIONS	250 x 120 x 190 h cm