



GALVOLABEL machine
(workable dimensions 130 x 160 mm)

GALVOLABEL

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** and to mark up to 450 characters a second.

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.

LASER PROCESSES

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

ACCESSORIES (OPTIONS)

VG 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 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 **110 x 110 mm**. For optimal use of the camera the "**L1 optional accessory Metal Conveyor Belt**" is necessary on the GALVOLABEL machine. It keeps the ribbon supported during processing.

L1 REMOVABLE TRACK

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

L1N 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.

L2 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**.

MG

MULTICYCLE KIT WITHOUT READING MARKS

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

MTG

MULTICYCLE KIT WITH READING MARKS

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

AL

LR

AX

LAMINATING UNIT / REWINDER

AL: 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.

AX: Laminating arm for self-adhesive material.

LR: Rewinder to remove the waste material.

TECHNICAL FEATURES

EFFECTIVE LASER BEAM POWER AVAILABLE

60 W - 120 W - 200 W (on demand)

AXIS POSITIONING ACCURACY

0,03 mm (0,001 inch)

OPERATING FREQUENCY

5 KHz

MARKING SPEED

450 characters a second

SYSTEM REPEATABILITY

0,038 mm (0,0015 inch)

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

GALVOLABEL 60 W

OUTPUT DETAILS


MAXIMUM SPEED	22.100 pcs/h - 7 m/min
WORKABLE DIMENSIONS	130 mm x 160 mm
MOVEMENT SYSTEM	Galvanometric
CERTIFICATIONS	 U.S.A. FDA-CDRH 21 C.F.R.

MACHINE DETAILS

ELECTRICS	230 V 1~ 50/60 Hz
MAX ABSORBED POWER	5 kW/h
NOISE LEVEL	< 60 dB
WEIGHT	460 kg
DIMENSIONS	230 x 90 x 170 h cm

GALVOLABEL 120 W

OUTPUT DETAILS

MAXIMUM SPEED	23.200 pcs/h - 8 m/min
WORKABLE DIMENSIONS	130 mm x 160 mm
MOVEMENT SYSTEM	Galvanometric
CERTIFICATIONS	 U.S.A. FDA-CDRH 21 C.F.R.

MACHINE DETAILS

ELECTRICS	230 V 1~ 50/60 Hz
MAX ABSORBED POWER	6,5 kW/h
NOISE LEVEL	< 60 dB
WEIGHT	460 kg
DIMENSIONS	230 x 90 x 170 h cm