

General technical features

PRINTING PERFORMANCE

- Max print area:
 - 53 mm (SWING 2.1e, X2)
 - 107 mm (SWING XL4)
 - 128 mm (SWING XL5)
- Print length: up to 600 mm.
- Max single text extension: 600 mm.
- High resolution: 12 dots/mm (300 dpi).
- Printing speed: up to 400 mm/s on plastic film, up to 250 mm/s on paper film (medical and food sector).
- Carriage return travel speed: up to 600 mm/s.
- Number of print repetitions: programmable up to 99 prints.
- Printing pitch: programmable.
- Incorporated and standard "Ribbon saving" function.
- Automatic re-processing of the date, hour and minutes (HH:MM), without reducing the marking rate.

PRINTABLE TEXTS

- Texts with alphanumeric characters with a programmable height from 1 to 70 mm.
- Arial standard internal fonts; Windows TrueType fonts. Normal, bold, italic. Positive and negative printing.
- Symbols and characters UNICODE in the various languages (UTF-8 code).
- Text highlighting for allergens and ingredients to be printed. This function needs licensed EASYCODE® version.
- Bar-codes: EAN-13, EAN-8, EAN-128, UPCA, UPC-E, 2/5 Interleaved, Code 32, Code 39, Code 128 (A, C), ITF-14, Paraf, HIBC43, Binary.
- 2D codes: Datamatrix, PDF417, QR-Code, Databar.
- Graphics: Bit-image transmission type black/white with Eidos compression for the best use of the memory. BMP, PNG, TIF, JPG, PCX.
- Text orientation in the four quadrants.

ELECTRONIC UNIT

- 5.7" colour graphic display with touchscreen.
- "ARM" microprocessor. SMD technology with program and texts recorded in FLASH Memory.
- USB HOST port to manage a USB mobile memory and Flashreader devices.
- ETH-LAN port to connect Ethernet LAN 10/100.
- RS232 port.
- Possibility of connecting to Wi-Fi using an optional external adaptor.

LOGIC SIGNALS INTERFACE TO A PACKAGING MACHINE

- SYNC-24: synchronous signals.
- Fully opto-isolated logic signals (4 inputs and 4 outputs).

THERMAL RIBBON

Inked thermal ribbons packaged in rolls 500/1,000 m long and up to 130 mm wide.
For the system to work smoothly use original Eidos ribbons.

SOFTWARE TO MANAGE THE PRINTER

EASYCODE® is a powerful software designed by Eidos in a Windows environment to allow setting, memorisation, modification and printing of texts. The printer also interfaces with all the other leading label creating programs (CODESOFT®, LABELVIEW®, EASYLABEL®, NICELABEL®, BARTENDER®, BARONE®) by way of a SATO and ZEBRA ZPLII type emulator.

SYSTEM CONFIGURATIONS

- **Stand-alone mode:** the printer can function also if not directly connected to a computer. The data is stored in non-volatile memories. New texts can be inserted in the printer by means of a USB Memory Card.
- **On-line mode:** the other way of working is a connection with an external processor. This can take place in three ways:
 - Serial connection type RS232 (to be programmed until 115.200 baud) or RS422 (optional).
 - Ethernet type connection by ETH-LAN integrated port.
 - Wireless connection type 802-11g via external adaptor.

EXTERNAL POWER SUPPLY

- Electrical: 220 V a.c. 50 Hz. or 110 V a.c. 60 Hz.
- Power: 350 VA max.
- Compressed air: 6 Bar regulated, de-lubricated and filtered.
- Max consumption: 15 Nl/min.

ENVIRONMENTAL CONDITIONS

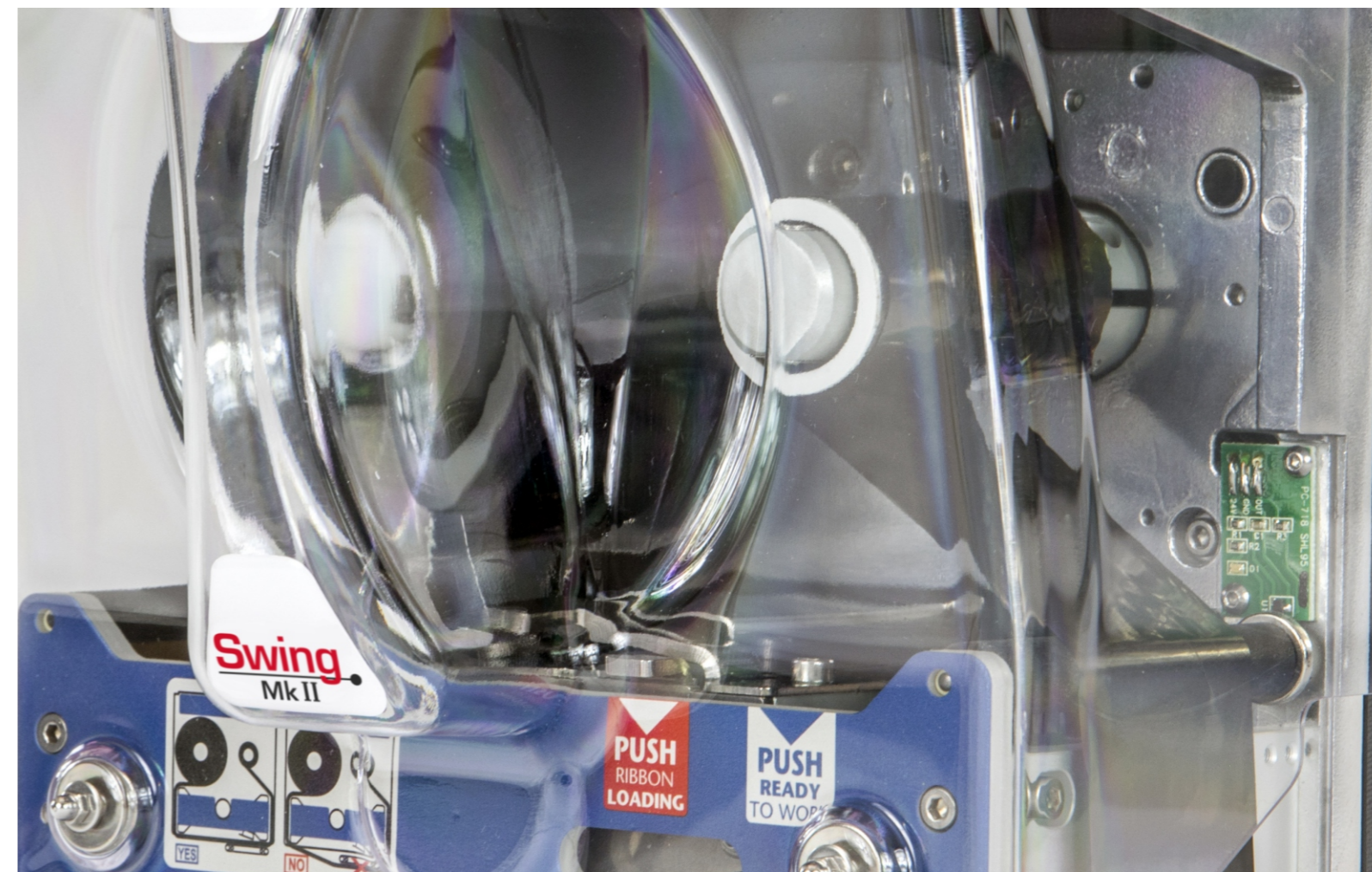
- Operating temperature: from 0°C to 40°C. For operation at T≤10°C, it is necessary to use the inox heated protection box.
- Relative humidity: from 10% to 70% non condensing.
- Protection box available for wet or dusty environments.

SAFETY STANDARDS

The system complies with the provisions of current regulation regarding "Machine Safety" and CE marking.

MADE IN ITALY

The SWING MkII is designed and produced entirely in Italy by EIDOS.



Marking technology engineering

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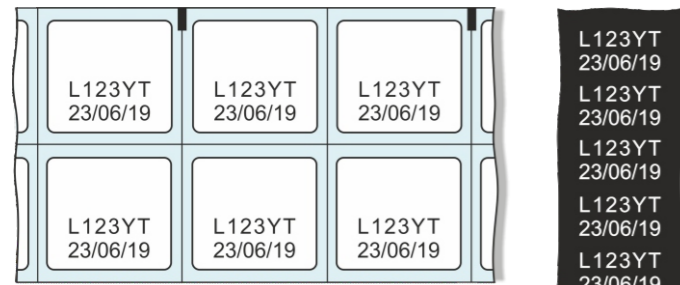
Swing MkII
intermittent
Thermal transfer printer to
directly print on plastic or paper
packaging film



Swing MkII

intermittent

Thermal transfer technology makes **Swing MkII** an ideal solution for overprinting variable data (dates, forward or backward number sequences, text, lists of ingredients, barcodes, two-dimensional codes, logos) on plastic film or paper. The printer can be used to print directly on the production line when the product is packaged to the benefit of printing speed and quality.



The thermal Ribbon is automatically controlled for the best ribbon-saving performance.

Swing MkII: original, enveloping device.

The evolution of the EIDOS Swing series has smart new design. It is extremely compact, rugged and strong, simple to use. Maintenance is minimal.

Speed, flexibility and simplicity: these are the keywords of the Swing MkII.

- The Print Unit, **very compact and light**, enables the installation even in the most difficult places. It is specially suited to replace the "mechanical markers" of the old style; the cost of the thermal ribbons used on the SWING MkII series is nearly the half of that of the foils of the hot stamping machines.
- Changes or actions on printing parameters are viewed directly on the graphic display touchscreen, from computer or USB flash drive.
- **High-quality, high-definition prints.**
- **Direct marking** on the production line with product customisation during packaging to avoid the need for a large store of pre-printed rolls.
- Speed up to 400 mm/s for high-definition applications (300 dpi).
- Possibility of automatic coding batches with variable data (date, forward or backward number sequences, text in various languages, ingredient lists, barcodes,



- two-dimensional codes, logos).
- Text can be retrieved from the large internal memory simply by pressing a button.
- Data exchange with USB memory or with connection to external PC for high reliability.
- Swing has a bracketing system ready for the most popular machines and comes in a variety of models.
- **Quick and easy ribbon replacement:** the new MkII version of the SWING printer offers design and ergonomic solutions which are expressly studied to facilitate routine maintenance operations and guarantee better protection of the moving parts of the printer.
- **Long autonomy** and fewer ribbon changes by using 1000-metre-long thermal ribbons (500 metres for XL models).

2.ie series: compact printer for printing on stationary film or cards.

This particularly compact "mobile head" **SWING MkII** model is ideal to be integrated in intermittent packing machines. The film advances step by step and overprinting is performed during the stops of the packaging system.

The printing head may be oriented in any position.



SWING MkII 2.ie with print area 53 x 90 mm.

Print width ▶	53 mm (2")	107 mm (4")	128 mm (5")
Swing MkII Models			
Print length ▼			
stroke 90 mm	✓	✓	✓
	SWING 2.ie	SWING XL4.09	SWING XL5.09
stroke 200 mm		✓	✓
		SWING XL4.20	SWING XL5.20
stroke 400 mm	✓	✓	✓
	SWING X2.40	SWING XL4.40	SWING XL5.40
stroke 400 mm double head	✓		
	SWING X22.40		
stroke 600 mm	✓	✓	✓
	SWING X2.60	SWING XL4.60	SWING XL5.60
stroke 600 mm double head	✓		
	SWING X22.60		

X and XL series: for multi-track packaging machines and large printing areas.

The **X and XL series** models are ideal to be integrated on intermittent multi-track or large area packaging machines.

"MULTI-TRACK" PRINT FUNCTION

The Print Unit is installed crossways to the machine. During the stop time for sealing the packs, the print head prints texts repeated a number of times, corresponding to the number of "tracks" to be printed.

It can print up to a width of 128 mm (model XL5). The total stroke can be 400 mm (for 420 mm film width) or 600 mm (for 520 mm or more film width).

Printing takes place at high speed and with the total saving of the thermal ribbon.

MODEL WITH DOUBLE PRINTING HEAD

The model with double printing head mounts two print heads. The heads print in parallel the text, running a stroke that is half the equivalent of a one head printer.

The first head prints the first half of the film width, and the second head prints the second half of the film.

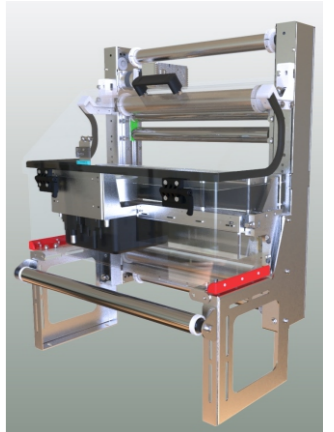
So it is possible to half the print time and to increase very much the working rate. The distance between the heads is easily adjustable.

The double-head model is suitable to print both even and odd number of tracks.

And it is specially suited when the "multi-pass" device is used.

"MULTI-PITCH" DEVICE WITH MOTOR

The **SWING X and XL series** devices with multi-pitch device (an optional device which allows double-pitch, treble-pitch or even quadruple-pitch printing) allows multiple printing of figures in the transversal and longitudinal directions alike. Models with double printing head are particularly recommended for use with the multi-pitch device.



PRINT DIFFERENT TEXTS ON EACH HEAD

The new MkII printer version has been implemented to print different texts for the two print heads. This allows you to print the track number or the progressive number manage different print formats without mechanically adjusting the distance between the two printheads. The printer automatically adjusts to suit the layout of the text on the label to be printed.

