

Swing 2.ce



**THERMAL TRANSFER PRINTER TO DIRECTLY PRINT
ON PLASTIC OR PAPER PACKAGING FILM**

Model for printing on moving film on
"continuous" machines



"FLEXIBLE" CODING ON FILM FOR PACKAGING MACHINES

The SWING 2.ce is an electronic "thermal transfer" printer able to automatically and directly write on plastic film or paper used in continuous function packaging machines. It is used to encode with text, barcodes and logos that can be easily changed, the various production lots with extreme flexibility and high print quality and speed. The printing is made directly on the production line, enabling the product to be customized as it is packaged, thus avoiding having to keep a large stock of pre-printed rolls. The SWING 2.ce is a fixed head type machine for printing on moving film. It is installed on "continuous" function machines, downstream from the film unwinder, and it prints synchronously with the speed of the machine. The film is made to pass around the print roller (complete with "encoder" device).

EVOLUTION OF THE MODEL

The SWING 2.ce is the evolution of the previous SWING 2.cx. The printing unit has been simplified and made tougher without losing any of the original machine's excellent performance. The ribbon holder lid has been eliminated.

The lid was formerly designed to simplify ribbon changing operations. In the new SWING 2.ce, this simplification is obtained differently by implementing an extremely facilitated ribbon passage configuration.

All ribbon passages can be opened by operating a lever. The new roll is inserted and the ribbon is passed along a linear route with only one hand.

The ribbon is then secured to the rewinding reel which has a ready-made adhesive base. After arranging the ribbon, the lever is closed and the printer automatically feeds the ribbon eliminating any creases and taking it to working position. The entire operation takes no longer than half a minute.

One thousand metre long ribbon reels may be fitted on the SWING 2.ce for longer working time and fewer ribbon changes.

A special support and handle has been designed for installations on packing machines where the printer is not easily reachable to move it to a convenient position in front of the operator. After changing the ribbon, the printer is pushed back to working position. A sensor checks that the printer is correctly positioned.



DATA ENTRY "CONSOLE"

The interactive colour graphic display (touch screen) simplifies the operation of locally changing data and enables the on-line control of what the machine is printing.

The text of the label is displayed on the screen and can also be enlarged (zoom).

The high capacity internal FLASH memory enables a large number of label texts to be stored, including those with logos. If the size of local memory needs to be increased or easily transfer text from the PC to the printer, a 128 MB USB-Memory-Card is also available.

The data that usually needs to be set by the operator are:

- Variable data (Lot Nr. Progressive Nr. etc).
- Printer parameters.

The text is usually processed externally by means of an "Easycode" type software.

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. When switched on, the machine starts up with the same data as when it was switched off. 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 or RS422 towards PLC.
- Ethernet type connection by means of a cable.
- Wireless connection type 802-11g.

SOFTWARE TO MANAGE THE PRINTER

EASYCODE®: It is a powerful program created by EIDOS, in a Windows® environment that enables text to be set, memorised, changed and printed in an easy and guided way for the operator (available at different levels). It transmits the label text and work parameters up to 4 printers in parallel.

The printer also interfaces with all of the other main label creation programs (CODESOFT®, LABELVIEW®, EASYLABEL®, NICELABEL®, BARTENDER®, BARONE®) by means of an emulation program.

E-LIB: Availability of libraries, to be used in User-Programs, to facilitate the software engineer to interface the printer with the central computer system.

STARCODE: Program for the centralised management of Eidos printers. It manages the centralised file; it monitors the lots in progress and production at all times.

PRINTING PERFORMANCE

- Resolution: 12 dots/mm (300 dpi).
- Max print area: 53 x 300 mm. A narrow printing head version (area: 32 x 300 mm) is available on demand.
- Printing speed: from 10 to 750 mm/s in standard mode, extends to 1,000 mm/s in "GEAR-MODE" (with sliding of the thermal ribbon).
- Printing rate: with text 25 mm long max 300 prints/min (at a speed of 700 mm/s and max "ribbon saving").
- "Total Ribbon Saving" function. A further saving of 25% or 50% can be achieved in "GEAR-MODE".
- Longitudinal printing of expiry dates using the "TWILL" method, with total exploitation of the width of the thermal ribbon.
- Automatic re-processing of the date, hour and minutes without reducing the marking rate.

TECHNICAL CHARACTERISTICS

PRINTABLE TEXTS

- Texts with alphanumeric characters: Programmable character height.
- Font: Internal Arial Font; Windows true type fonts. Normal, Bold, Italic. Positive and negative printing.
- Barcodes: EAN-13, EAN-8, EAN-128, UPC-A, 2/5 Interleaved, Code 39, Code 128 (A,C) ITF-14, Paraf, HIBC43, Binary.
- 2D Codes: Matrix and PDF417.
- Graphics: "Bit-Image" Black/White type transmission with Eidos compression in order to better exploit the memory.
- Text orientation: in the 4 quadrants.



ELECTRONIC UNIT

- 5.7" Graphic display with touch screen.
- "ARM" microprocessor. SMD technology with program and texts recorded in FLASH Memory.
- USB-Host Port to manage 128 MB USB type Portable Memory.
- USB-Host Port configurable for Wireless 802.11g or Ethernet connection.
- For connection to an external PC:
 - RS-232 Serial interface programmable up to 115200 baud.
 - Device: Port USB-Device.
- SYNC-24: synchronous signals. Logical signals completely opto-isolated (4 inputs and 4 outputs). Passive type circuits (not powered) suitable to work at a voltage of 24 V.

PRINT UNIT

- Extremely rugged and reliable mechanical structure, also at high print rates. Highly simplified ribbon passage system (with automatic opening of narrow passages). The unit is also provided with a transparent protective lid.

CONSUMABLES

- Inked thermal ribbons packaged in rolls of up to a length of 1,000 m (long autonomy) and between 20 and 55 mm wide.

EXTERNAL POWER SUPPLY

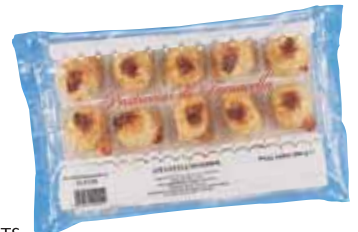
- Electrical: 220 V ac 50 Hz o 110 V ac 60 Hz (Auto-ranging).
- Power: 350 VA max.
- Compressed air: de-lubricated, filtered and regulated between 2.5 and 4 Bar.
- Peak consumption: 10 l/min.

ENVIRONMENTAL CONDITIONS

- Environmental temperature: from 5°C to 40°C.
- Relative humidity: from 10% to 70% non condensing.

MODELS

- Right model: SWING 2.ce.RH.
- Left model: SWING 2.ce.LH.



STANDARD PORTAL SUPPORTING BRACKETS

- Various models for film widths of up to 600, 800 o 1.000 mm.

SAFETY STANDARDS

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

MADE IN ITALY

The SWING 2.ce is designed and produced entirely in Italy by EIDOS spa.



The descriptions, information illustrations are not binding. EIDOS reserves the right to make changes or updates to the products described above without prior notice. © EIDOS spa - All rights reserved. Partial or total reproduction is prohibited.

Via dell'Industria, 11- Z.I. Fontaneto - 10023 Chieri (To) Italy - eidos@eidos.eu • www.eidos.eu
Tel. +39 011. 947.78.1 - Fax +39 011. 947.78.65

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=