

Swing^{.ie}



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

- for static printing on "intermittent" operating machines
- various models for print areas from 53x90 mm to 107x200 mm.



EIDOS

Labelling & Marking Digital Printers

"FLEXIBLE" CODING ON FILM FOR PACKAGING MACHINES

The **SWING.ie** is an electronic "thermal transfer" printer able to automatically and directly write on plastic film or paper used in 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 personalised as it is packaged, thus avoiding having to keep a large stock of pre-printed rolls. The **SWING.ie** is of the "mobile head" type for printing on film or labels when stopped (maximum print width: 53 mm). It is mounted on the "intermittent" machines and prints while the machine is stopped. In this case, the print head can be swivelled in any position.

EVOLUTION OF THE MODEL

The **SWING.ie** is the evolution of the previous **SWING 2.i** model. 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.ie**, this simplification is obtained differently by implementing an extremely facilitated ribbon passage configuration. The printing head is raised and the ribbon passage is opened by pressing 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 head is lowered by means of the lever 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.ie** 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.



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

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

SWING 2.ie



Support and handle for easily sliding the machine to service position.

MODELS

The **SWING.ie** series includes 3 basic models:

- **SWING 2.ie:** with 2" printing head and 53 x 90 mm printing area.
- **SWING 4.ie:** with 4" printing head and 107 x 90 mm printing area.
- **SWING 4.iel:** with 4" printing head and 107 x 200 mm printing area.

PRINT PERFORMANCE

- Resolution: 12 dots/mm (300 dpi).
- Printing speed: up to 350 mm/s.
- "Total Ribbon Saving" function.
- 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, HIBC-43, Binary.
- 2D Codes: Matrix e 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 in rolls of up to a length of 1,000 m (long autonomy) and between 20 and 110 mm wide, according to models.

EXTERNAL POWER SUPPLY

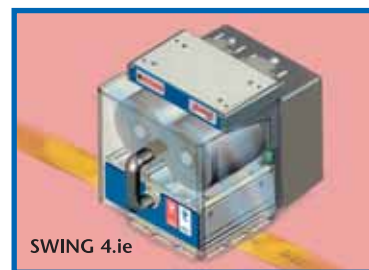
- Electrical: 220 V ac 50 Hz o 110 V ac 60 Hz (Auto-ranging).
- Power: 300 VA max.
- Compressed air: de-lubricated, filtered and regulated between 2.5 and 4 Bar.
- Peak consumption: 10 l/min.

ENVIRONMENTAL CONDITIONS

- Environmental temperature: from 5°C to 40°C.



SWING 4.iel



SWING 4.ie



- Relative humidity: from 10% to 70% non condensing.

SAFETY STANDARDS

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

MADE IN ITALY

The **SWING.ie** is designed and produced entirely in Italy by EIDOS spa.