

Swing T2



THERMAL TRANSFER PRINTER FOR “MULTI-TRACKS” PACKAGING MACHINES

- For crossway mounting on the thermo-forming and thermo-sealing machines.
- It replaces the mechanical date coders at comparable cost.
- No cliché required, so no cliché change operation required.
- Print Unit very compact and protected into a stainless steel container, suitable to work in the dairy and a must in the wet environment.



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

SYSTEM PROJECTS
AND PRODUCTS
ENTIRELY IN ITALY



OVERPRINTING OF VARIABLE DATA ON PACKAGING FILM

The **SWING T2** is an electronic "thermal transfer" printer able to automatically and directly write on plastic or paper film used in packaging machines ("Thermo-forming" and "Thermo-sealing" types). It is used to encode with expiring date, barcode and logo the various production lots with extreme flexibility and high print quality and speed. The printing is made directly on the production line.

"MULTI-TRACK" PRINT FUNCTION

The Print Unit is installed crossways to the machine. During the stop time for sealing, 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 53mm and for a total max travel of 520mm (Model **SWING T2.52**).

Printing takes place at high speed and with the total saving of the thermal ribbon (both between one print and another and between the last print and the first of the next cycle). The return stroke of the print head takes place while the film on the packaging machine advances.

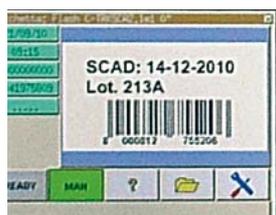
"DUAL-PASS" PRINT FUNCTION

A special optional device has been designed, able to perform the "Dual-Pass" printing. "Dual-Pass" means that, during the stop time for sealing of the film, a first printing pass is performed and then a second pass at a fixed distance from the first one. So **SWING T2** enables the multiple printing of texts, not only in the cross way, but also in the longitudinal way

PECULIAR CHARACTERISTICS OF **SWING T2**

- It has the well known advantages of the electronic printing (no "cliché required) and of the very good print quality.
- The Print Unit, very compact, enables the installation even in the most difficult places. It is specially suited to replace the "mechanical markers" of the old style, with the same overall size.
- The stainless steel container envelops all the Print Unit, so ensuring a good protection against umidity, water sprinkles and dust. So **SWING T2** is specially suited to work in the dairy and where the fresh food is packed. The Electronic Unit can be supplied in the standard version, or in the "water-proof" version (protected by a stainless steel container).

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.

It can be easily interfaced to all P.C. by means of a USB memory USB. The data that usually needs to be set by the operator are variable Data, Lot, Nr. progressive, Nr. etc. The text is usually processed externally by means of an "Easycode" type software.

SYSTEM CONFIGURATIONS

- **"Date" mode:** Many different texts have been prepared in the memory of the printer. A large choice of print configurations (for: expiring date, lot number, date + lot, etc.) are ready to be recalled by the operator in a very easy way.
- **"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:
 - Ethernet type connection by means of a cable.
 - Wireless connection type 802-11g.
 - Serial connection type RS232 or RS422 towards PLC.

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 to the connected printer (Serial connection or Wi-Fi). 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 SATO and ZEBRA type.

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.
STARCODE7®: patented program for the centralised management of Eidos printers. It manages the centralised file; it monitors the lots in progress and production at all times, pointing out the jobs flow.

PERFORMANCE

- Print wide: 53 mm.
- Print lenght:
 - up to 300 mm or 400 mm or 520 mm like the models.
- Resolution: 12 dots/mm (300 d.p.i.).
- Printing speed: up to 400 mm/sec.
- Carriage return travel speed: up to 600 mm/sec.
- Number of print repetitions: from 1 to 99
- Printing pitch: programmable.
- "Total ribbon saving" function.
- Automatic re-processing of the date, hour and minutes, without reducing the marking rate

MODELS

- **SWING T2.30** - with max. print area 53 x 300 mm (for machines 320 mm wide).
- **SWING T2.40** - with max. print area 53 x 400 mm (for machines 420 mm wide).
- **SWING T2.52** - with max. print area 53 x 520 mm (for machines 520 mm wide).

Supporting brackets are available, suitable for the most known packaging machines of the market. The Electronic Unit can be supplied, as option, in the "water proof" version.

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.
- Symbols and characters Unicode in the various languages (UTF-8 code).
- Bar codes: 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: Datamatrix and PDF417.
- Graphics: BMP, PNG, TIF, JPEG, PCX.
- Text orientation: in the 4 quadrants.

THERMAL TRANSFER RIBBON:

- Inked thermal ribbons packaged in rolls 500 m long and up to 55 mm wide.
- For the system to work smoothly use original Eidos ribbons.

ELECTRONIC UNIT:

- 5.7" color graphic display TFT with touch screen
- "ARM" microprocessor. SMD technology with program and texts recorded in FLASH Memory.
- USB-Host Port to manage 256MB USB type memory
- USB-Host Port configurable for serial Ethernet LAN/100 connection or Wireless 802.11g (optional) .
- For connection to an external PC:
 - RS-232 serial interface programmable up to 115200 baud
 - 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. For print command and for warning announcement.

EXTERNAL POWER SUPPLY:

- Electrical: 220 V a.c. 50 Hz. o 110 V a.c. 60 Hz. (Autoranging)
- Power: 350 VA max.
- Compressed air: de-lubricated, filtered and regulated at 6 Bar.
- Peak consumption: 10 l/min.

ENVIRONMENTAL CONDITIONS:

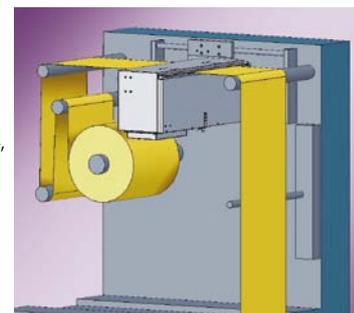
- Environmental temperature: from 5°C to 40°C.
- Relative humidity: from 10% to 70% non condensing.

SAFETY STANDARD:

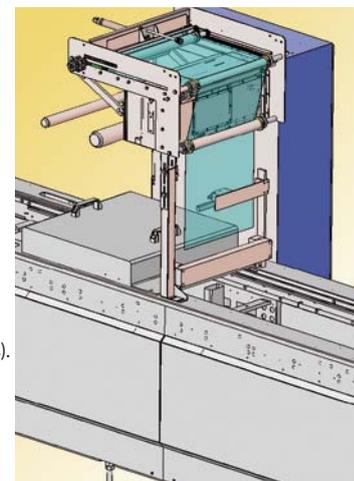
- The system complies with the provisions of current regulation regarding "Machine Safety" and **CE** marking.

"MADE IN ITALY"

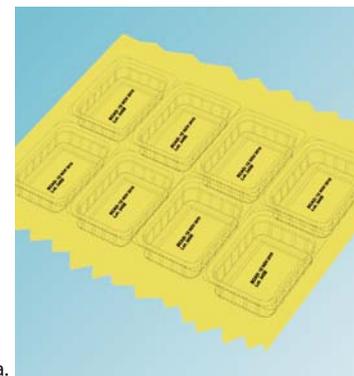
The **SWING T2** is designed and produced entirely in Italy by Eidos s.p.a.



Mounting diagram of the **SWING T2** on the packaging machine.



Mounting diagram of the **SWING T2** with "Dual-Pass" device.



Multi-track print sample (Date print).