

# Technical Specification

## BASIC CAPABILITIES

- Technology: thermal transfer ribbon (or directly onto thermal paper).
- Max print area:
  - 107 x 500 mm (PRINTESS 4 and 5)
  - 160 x 500 mm (PRINTESS 6)
  - 210 x 300 mm (PRINTESS 8)
- Printing speed:
  - up to 250 mm/s (PRINTESS 4 with Electronic Unit Low-power)
  - up to 500 mm/s (PRINTESS 4 e 5 with Electronic Unit High-power)
  - up to 400 mm/s (PRINTESS 6)
  - up to 170 mm/s (PRINTESS 8)
- High printing resolution 12 dots, 300 dpi.
- Ribbon-saving device.
- Different kind of applicators.

## 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).
- 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 best use of the memory. BMP, PNG, TIF, JPG, PCX.
- Text orientation in the four quadrants.
- Text highlighting for allergens and ingredients to be printed. This function needs licensed EASYCODE®.

## LABELS

- Width: from 20 mm to 120 mm (PRINTESS 4 and 5), up to 180 mm (PRINTESS 6), up to 220 mm (PRINTESS 8).
- Length: from 8 mm to 500 mm (value limited only by the size of the pad).
- Label:
  - Paper or plastic (certified for thermal transfer).
  - thermal paper (direct print).
- Grammage: from 80 to 120 g/m2.

## LABEL ROLL

- Core diameter 3".
- Max external diameter: 250 mm (PRINTESS 4, 6 and 8.e) up to 350 mm (PRINTESS 5).
- Max. width of backing paper:
  - 125 mm (PRINTESS 4 and 5)
  - 185 mm (PRINTESS 6)
  - 225 mm (PRINTESS 8)
- Type of paper support: self-adhesive on backing paper.

## 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.

## R.F.I.D. (optional)

The new Printess machines are set up to encode "smart-labels" (tags). After it is printed, the label is brought onto the applicator pad and then coded in radio-frequency. The label is read for verification purposes and, in the case of error, rejected. The label is then applied automatically onto the object (pallet) and checked a second time. The code conforms to the most recent standards for UHF tags (EPC Global Class1 Gen2).

## THERMAL RIBBON

- Length: 500 m (PRINTESS 4, 6 and 8) up to 1000 m (PRINTESS 5).
- Standard widths:
  - 30, 60, 85, 110 mm (PRINTESS 4 and 5)
  - up to 165 mm (PRINTESS 6)
  - up to 210 mm (PRINTESS 8)

For the system to function properly, Eidos original ribbons must be used.

## ELECTRONIC UNIT

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

## EXTERNAL POWER SUPPLIES

- Electrical: 220 V ca 50 Hz or 110 V a.c. 60 Hz.
- Power: 400 VA max.
- Compressed air: 6 Bar regulated, de-lubricated and filtered.
- Peak consumption: 40 l/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.

## OVERALL DIMENSIONS (WITHOUT APPLICATOR)

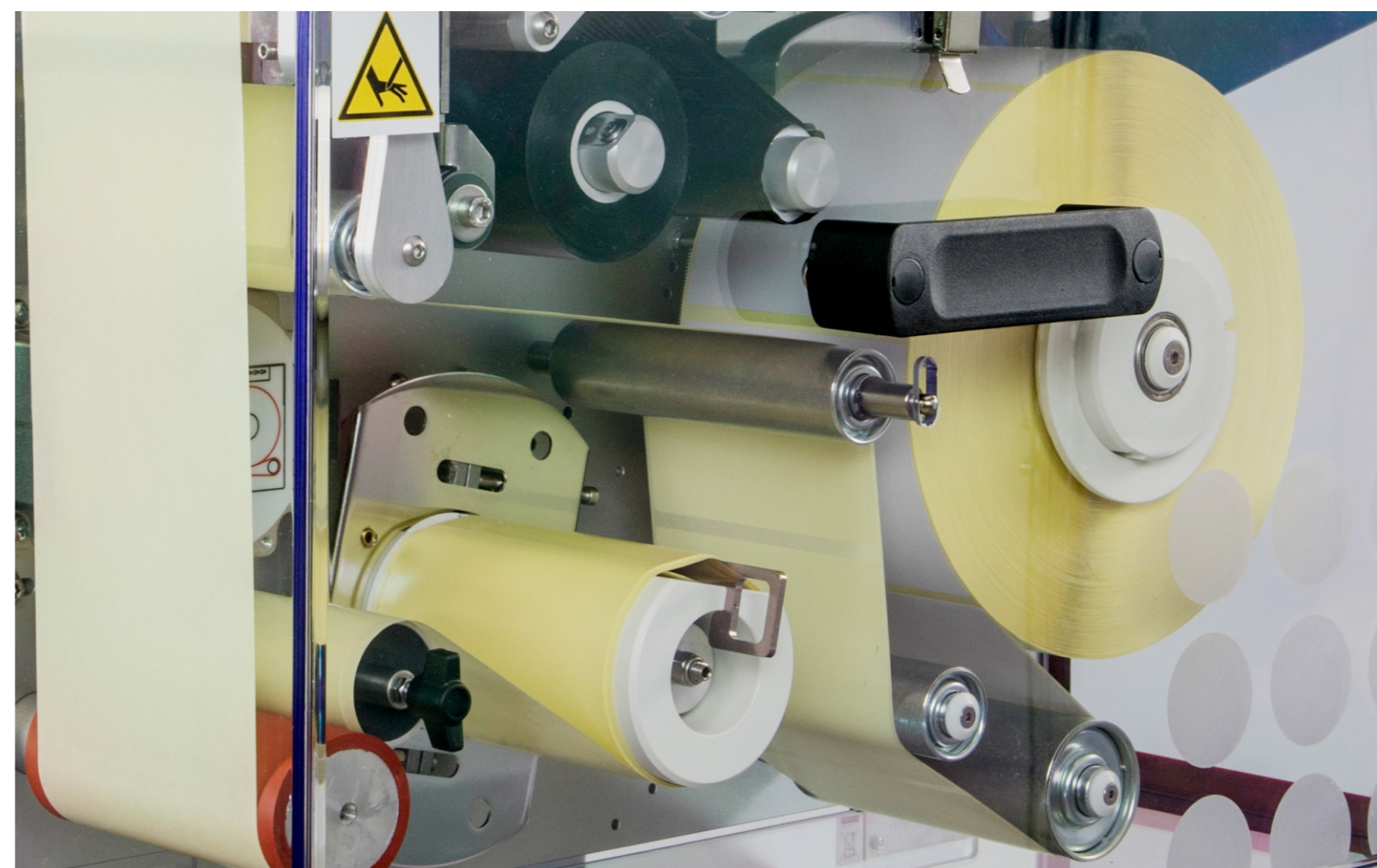
- PRINTESS 4 : 548 x 376 x 337 mm
- PRINTESS 5 : 678 x 496 x 337 mm
- PRINTESS 6.e : 548 x 376 x 397 mm
- PRINTESS 6.r, 8 : 548 x 376 x 437 mm

## SAFETY REGULATIONS

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

## MADE IN ITALY

PRINTESS is designed and produced entirely in Italy by EIDOS.



Marking technology engineering

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For further information, view the Qr code with the mobile or please visit [www.eidos.eu](http://www.eidos.eu)

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# Printess

Thermal transfer label printers  
with automatic Applicator  
(Print & Apply)





# Printess

## Flexible, productive and clean.

Printess is the result the expertise of Eidos in designing and making thermal transfer printing systems. It is a labelling robot for automatically printing and applying labels quickly, reliably and safely. It is robust and ideal for industrial environments.

In addition to increasing productivity, thermal transfer technology avoids the use of liquid ink which has a high environment impact. There is no need for drying and the space needed for stocks in the warehouse is minimised.

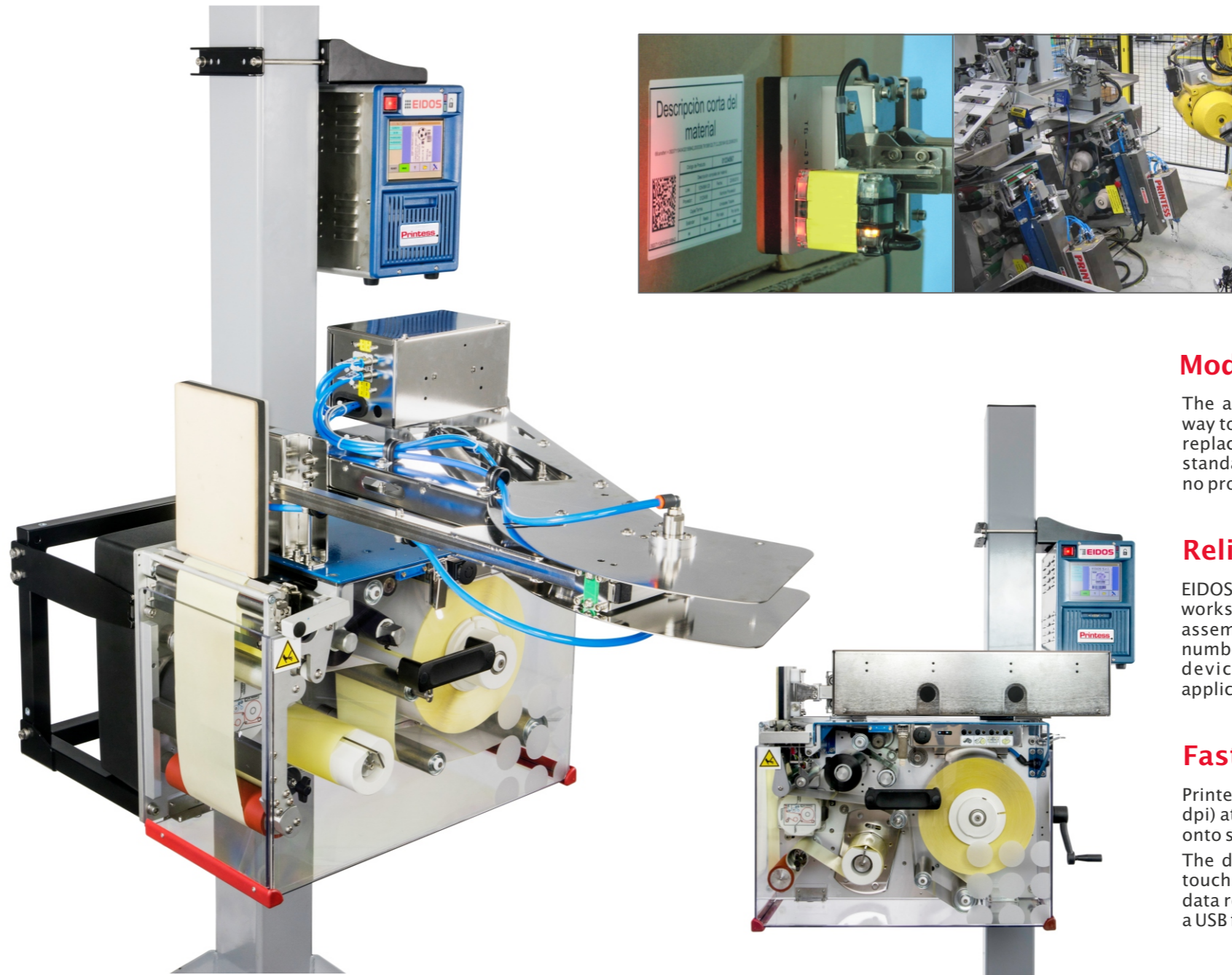
Furthermore, the heat transfer process produces high-resolution, sharp, clean and resistant printing results on the surface.

## Simple and immediate to use.

On power it automatically runs a print head check and calculates the dimensions and position of the label, when it is turned on. The photocell, which synchronises positioning of the label is automatically set at the right calibration level.

The label is printed and applied in "real time"; each single label can be written on with different and variable data and codes and be immediately applied without crossing intermediate "buffers".

Two versions - Standard (e) and optionally Reverse (r) - are available for all models.



*The robust and resilient design makes Printess ideal for working in industrial environments.*

## Modular and easy to integrate.

The applicators are interchangeable, fixed in a standard way to the central body of the machine and therefore easily replaced. Printess printers implement SATO and ZEBRA standards allowing integration on all packaging lines with no problems of compatibility.

## Reliable.

EIDOS printers are designed and entirely made in the EIDOS workshop. All components are tested and checked during assembly. System efficacy is demonstrated by the low number of service operations performed on Print Apply devices and the hundreds of different industrial applications installed by EIDOS in over 40 years.

## Fast and versatile.

Printess can print high-definition self-adhesive labels (300 dpi) at high speed (up to 500 mm/s) applying them directly onto stationary or moving objects very precisely.

The device implements an integrated electronic unit and touchscreen for adjusting printing parameters or editing data retrieved directly from the memory of the device, from a USB flash drive or a connected computer.

### PRINTESS 4

This is the most **compact and cost-effective** "print and apply" system of the series, perfect for printing small-to-medium size labels up to 120 mm wide.

### PRINTESS 5

This model has high operating autonomy obtained by increasing the diameter of the label roll and the thermal ribbon roll (with a length of up to **1,000 metres**). It is suited for **high frequency applications** for applying medium size labels.

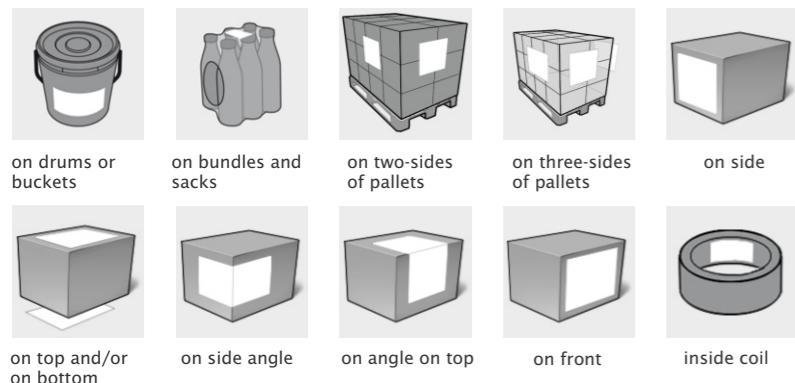
### PRINTESS 6

This model is dedicated to labels up to 180 mm wide. It is particularly suited for labelling pallets requiring **A5 size label management** (150 x 210 mm) EAN-Standard pallet. It houses a label roll with a diameter of up to 250 mm and a thermal ribbon roll with a length of up to 500 metres.

### PRINTESS 8

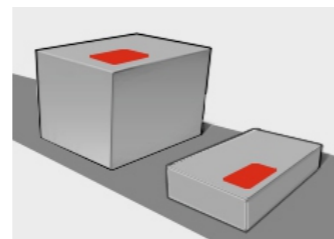
It is dedicated to applying labels up to 210 mm wide. This model is particular suited for labelling pallets, drums and large coils requiring the management of **A4 size labels**.

## Typical applications:



### Self-adaptive system

EIDOS linear applicators apply labels to the side or top of stationary boxes adaptively according to the distance of the box.



## Standard applicators:

	LINEAR				MICRO		ROTOR FAST	ROTOR	3SIDES	TAMP BLOW		STATIC BLOW
	S	L	EL	UL	S	L				S	L	
PRINTESS 4	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
PRINTESS 5	✓	✓					✓					✓
PRINTESS 6	✓	✓	✓	✓				✓	✓			
PRINTESS 8	✓	✓	✓					✓				

S= Short: max. piston stroke 350 mm; working stroke Linear 270 mm, T-Blow 320+340 mm  
L= Long: max. piston stroke 650 mm; working stroke Linear 570 mm, T-Blow 620+640 mm

EL= Extra long: max. piston stroke 800 mm; working stroke Linear 720 mm  
UL= Ultra long: max. piston stroke 1300 mm; working stroke Linear 1200 mm