

Solo 1500/2500

Automatic labelling machine for cylindrical products.

Automatic adhesive labeller - applies 1 label per product.

Machine suitable for cylindrical products with a diameter of between 15 and 115 mm.



The Solo 1500/2500 is an automatic labeller equipped with :

- An all stainless steel chassis.
- A motorised conveyor (82.6mm wide).
- A labelling station adapted to cylindrical products (CYLINDRICAL STATION). The height of the station can accommodate reel heights from 10 mm to 155 mm (standard). Label application height can be adjusted via the touch screen.
- A 40 and 76 mm mandrel on which to place the label roll. The label roll is designed to be wound on the outside left.
- A product detection cell to trigger label application.
- A pressure-sensitive cylinder for labelling products with diameters between 40 and 115 mm (standard).
- A touch screen to control and adjust the machine, plus a product counter.

Available options

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- A stainless steel conveyor with a choice of chain widths of 82.6, 114.3 or 190.5 mm
- An aluminium profile conveyor with a chain width of 190 mm (82.6 mm as standard).
- A locking system for product timing (by double jack, motorised wheel, selection screw, etc.).
- A CYLINDRICAL station extension. This option can accommodate reel heights of 285mm (compared with 155mm as standard).
- Label flap on top.
- A disengageable tray.
- Machined drive rollers.
- A multi-format platen cylinder.
- Rectangular product infeed table (for up to 24 products, depending on size).
- An independent rotary table for receiving products with a diameter of 700 or 1000 mm.
- A marker/coder to apply a use-by date, barcode, etc.
- A register cell to align the label with a notch, a label, a handle, an image, a weld, etc.
- An ultrasound cell for transparent labels.

This machine is upgradeable: the above options can be added on site with the intervention of a technician.

Limits of the Solo 1500/2500

- Cylindrical products with a diameter greater than 115 mm.

Technical specifications

APPROXIMATE WEIGHT IN KG	200 kg (depending on the option)
DIMENSIONS (WITH CHASSIS AND DEPENDING ON THE OPTION)	1003 mm wide 1220 mm high 2092 mm long
POWER CONSUMPTION	1 kW (depending on the option)
VOLTAGE/ELECTRICAL SUPPLY	1 220 volt cable - length 6 metres (To be specified when ordering)
PNEUMATIC POWER SUPPLY	6 bar constant - Dry, non-lubricated air (hose Ø Int/Ext = 8/10 mm)
CONTROL	by touch screen
IDEAL OPERATING TEMPERATURE	from 10°C to 30°C

Please note that this machine requires an electrical and pneumatic power supply.

Technical focus no. 1

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CYLINDER STATION: OUTSIDE LEFT

The machine is designed to take rolls of labels with a left-hand external winding direction. In addition, the dimensions of the rolls must be as follows:

- a : core diameter = 76 mm
- b : max. roll diameter = 260 mm (325 mm if optional disengageable plate)
- c : maximum coil height = 155 mm (285 mm optional)
- d : storage = 3-5 mm

The characteristics (material, grammage, adhesive, dimensions, etc.) of the label must be consistent with the requirements and the type of bottle.

Note : Label reels should be stored in a dry place between 15°C and 18°C.

Do not hesitate to contact your sales representative or your printer, case-by-case solutions can be found.

Technical focus no. 2

TOUCHSCREEN

The colour touch screen makes it easy to set a number of parameters, such as :

- Selecting stations and options.
- Timer settings.
- Keying speed (optional, if selection screw).
- Day counter.

Technical focus no. 3

MOTORISED CONVEYOR

The conveyor designed by CDA is made of an anodised aluminium profile, which holds a 82.6 mm wide acetal pallet chain (the width of this chain can be 190 mm upon request). Width-adjustable stainless steel side guides (diameter of 12 mm) guide the passage of the products. The conveyor/motor unit is mounted on a stainless steel frame into which the electrical box is integrated.

Technical focus no. 4

CYLINDER STATION

The labelling station for cylindrical products is driven by asynchronous motors and variable frequency drives.

The CDA labelling station is mounted on an electric column, enabling the height of the label to be adjusted via the touch screen. No manual adjustments or tools are required to set the label height.

The reel support tray of the CYLINDRICAL station can accommodate a roll of labels with a diameter of 260 mm (standard). Lastly, the station is equipped with a 'fixed' storage cell for storing label outputs.

Technical focus no. 5

MACHINED ROLLERS (optional)

If one of your products to be labelled has protrusions (such as a tin can), the use of machined rollers may be essential.

Technical focus no. 6

INTERCHANGEABLE STICKER CYLINDRICAL POST (optional)

The table below shows the dimensions of the cylindrical products you can label with the equipment proposed.

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Interchangeable Platen Jack	Ø Min	Ø Max
Indus rolls from Ø16 mm to Ø30 mm	16	30
Indus rolls from Ø30 mm to Ø60 mm	30	60
Indus rolls from Ø40 mm to Ø90 mm	40	90
Indus rolls from Ø60 mm to Ø150 mm	60	150
Indus rolls from Ø140 mm to Ø240 mm	140	240

Technical focus no. 7

DISENGAGEABLE TRAY (optional)

The disengageable platen is a simple mechanical device that limits the effects of the weight of the label reel (which varies over time). Each time the web is pulled, the plate (which is mounted on a bearing) is released to rotate and then braked once the pull is complete. What's more, the disengageable plate allows the maximum reel diameter to be increased from 260 mm to 325 mm.

Technical focus no. 8

ULTRASON CELL (optional)

The ultrasonic cell is used to detect labels and transparent media. If you have transparent labels, this option is essential for the machine to work properly. In addition to detecting transparent labels, this cell also detects opaque labels.

Technical focus no. 9

LABEL SPOTTING CELL (optional)

The disengageable platen is a simple mechanical device that limits the effects of the weight of the label reel (which varies over time). Each time the web is pulled, the plate (which is mounted on a bearing) is released to rotate and then braked once the pull is complete. What's more, the disengageable plate allows the maximum reel diameter to be increased from 260 mm to 325 mm.

Technical focus no. 10

RECTANGULAR RECEPTION TABLE

The rectangular reception table is installed at the machine exit to collect the labelled bottles. The table measures 580 x 460 mm and can receive up to 45 containers (for a Ø60 mm diameter container).

Technical Drawing

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