

Ninon By-Pass

Automatic labelling machine for cylindrical products.

Automatic adhesive labeller - up to 3 labels.

Machine suitable for cylindrical products with diameters ranging from Ø30 to Ø115 depending on the configuration.



The Ninon By Pass is an automatic labeller equipped with :

- A chassis entirely made of stainless steel.
- A motorised double conveyor (82.6mm wide).
- Two stations (mounted in parallel) for applying labels to cylindrical products (CYLINDRICAL STATION). The height of the station can accommodate reel heights from 10mm to 155mm (standard).
- Label application height can be adjusted via the touch screen.
- Disengageable reel support trays equipped for Ø40 and Ø76 mm cores (to place the label roll). The station is designed for a reel with an outward left winding direction.
- A product detection cell to trigger label application.
- A special pressure-sensitive cylinder for labelling products with diameters in between 40 and 90 mm (standard).
- A touch screen to control and adjust the machine, as well as a product counter.

Available options

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- A stainless steel conveyor.
- 190 mm chain width (82.6 mm as standard).
- A locking system to pace the products (by double cylinder, guided cylinder, selection screw, etc.).
- A second CYLINDRICAL station (x2).
- A third CYLINDRICAL station (x2).
- Raising the CYLINDRICAL station(s). This option can accommodate reel heights of 285mm (compared with 155mm as standard).
- Machining of drive rollers.
- A multi-format clamping cylinder.
- An independent reception table for products with a diameter of 700 mm (up to 60 products depending on their dimensions).
- A marker / coder to print a DLC, a barcode, etc...
- A register cell to align the label with a notch, label, handle, image, weld, etc.
- An ultrasound cell for transparent labels.

This machine can be upgraded : some of the above options can be added to the customer’s premises with the assistance of a technician.

Limits of the Ninon By Pass

- Unstable cylindrical products, too heavy.

Technical specifications

APPROXIMATE MASS IN KG	500 kg (depending on the option)
DIMENSIONS (WITH CHASSIS AND DEPENDING ON THE OPTION)	2270 mm wide 1500 mm high 5620 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 SUPPLY	A constant 6 bars - Dry, non-lubricated air (hose Ø Int/Ext = 8/10 mm required)
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 n°1

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WINDING DIRECTION CYLINDER POST : OUTSIDE LEFT

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

- a: max core diameter = 76 mm
- b : max. roll diameter = 260 mm (325 mm if optional detachable plate)
- c : max. reel labelling height = 155 mm (285 mm optional)
- d : Storage = 3-5 mm

The characteristics (material, grammage, adhesive, dimensions, and some more.) 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 n°2

TOUCHSCREEN

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

- Selecting stations and options.
- Setting time delays.
- Keying speed (optional, if selection screw).
- Day counter.

Technical focus n°3

MOTORISED CONVEYOR

The conveyor designed by CDA has a stainless steel profile, accommodating 2 acetal pallet chains 82.6 mm wide (the width of this chain can be increased upon request). Width-adjustable stainless steel side guides (diameter 12 mm) guide the passage of the products. The conveyor/motor unit is mounted on a stainless steel frame, into which the electrical panel is integrated.

Technical focus n°4

CYLINDER STATION

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

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’s 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 n°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 n°6

INTERCHANGEABLE STICKER CYLINDER (optional)

The table below shows the dimensions of the cylindrical products that can be labelled using the equipment we are proposing.

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

Technical focus n°7

DISENGAGEABLE TRAY

The disengageable platen is a simple mechanical device which limits the effects of the weight of the label's reel (which varies over time). Each time the web is pulled, the plate (which is mounted on bearings) 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 n°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 n°9

LABEL SPOTTING CELL (optional)

The «label locating» cell detects a label already present on the bottle in order to guide the application of a new label (a medal, a back label, etc.).

Technical Drawing

