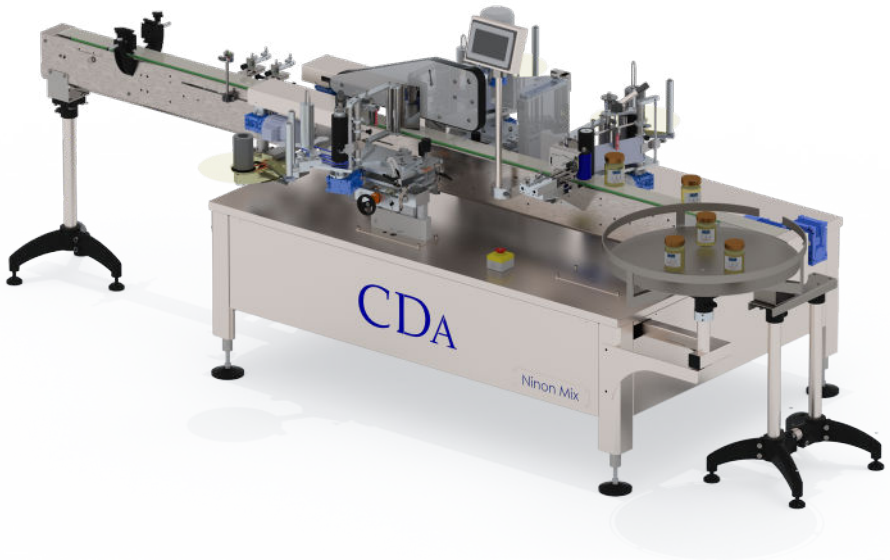
Ninon Mix

Automatic labelling machine suitable for cylindrical, square, oval and conical products.

Self-adhesive labelling machine - up to 5 labels.
Machine suitable for products between 15 and 115 mm.



KBU PACKAGING

The Ninon Mix is an automatic labeller equipped with :

- A fully stainless steel chassis.
- A motorised conveyor (width of 82.6mm).
- A labelling station adapted to cylindrical products (CYLINDRICAL POST). The height of the station allows it to receive coil heights from 10 mm to 155 mm (as per the standard). The height adjustment of the labels is done via the touch screen.
- A 40 and 76 mm chuck on which to place the label roll. The label roll is intended for a left outward winding direction.
- A product detection cell to trigger label removal.
- A pad cylinder for labelling products with diameters in between 40 and 90 115 mm (standard).
- A touch screen to control and adjust the machine, and a product counter.

Options available

- A stainless steel conveyor with the choice of chain width, between 82.6, 114.3 or 190.5 mm
- Aluminium profile conveyor with 190 mm chain width (82.6 mm as standard).
- A lockage system to lock products (by double cylinder, guided cylinder, selection screw, etc.).
- A second CYLINDRICAL station.
- A riser of the CYLINDRICAL post(s). This option allows it to receive coil heights of 285mm (against 155 mm as the standard).
- An automatic aligner for placing products online.
- A stabiliser belt to drive the product at a constant speed.
- A label installation station adapted to products with flat surfaces (SIDE POST/STATION). The height of the station allows it to receive coil heights from 10 mm to 155 mm (as the standard). The height adjustment of the labels is done via the touch screen.
- A second SIDE station.
- A riser of the SIDE post(s). This option allows it to receive coil heights of 285mm (against 155 mm as the standard).
- A side flap system of the label (on the side or on top).
- A label installation station adapted to conical products (CONICAL POST/STATION). The height of the station allows it to receive coil heights from 10 mm to 155 mm (as the standard). The height adjustment of the labels is done via the touch screen.
- A riser of the CONICAL substation. This option allows spool heights of 285mm (against 155 mm as the standard).
- An UP-Station for labels (suitable for labelling on the top part of the product).
- A top label flap on 1 or 2 sides.
- A removable tray.
- The machining of drive rollers.
- A multi-format plater cylinder.
- A receiving table for products with a diameter of 700 mm (up to 60 products depending on their dimensions).
- A marker/ coder to deposit a DLC, a barcode, etc...
- A scout cell to align the label on a notch, label, handle, image, weld...
- An ultrasonic cell for transparent labels.

This machine is scalable : the above options can possibly be added at the customer's demand with the intervention of a technician.

Ninon Mix Limits

- Cylindrical products with a diameter greater than 115 mm and a height of 390 mm.
- Products with flat surfaces with a height greater than 390 mm and a width greater than 115 mm.

Technical characteristics

MASSE APPROXIMATIVE EN KG	450 kg (depending on the option)
DIMENSIONS (AVEC CHÂSSIS ET SELON OPTION)	3552 mm wide 1574 mm high 1908 mm long
POWER CONSUMPTION	2 kW (depending on the option)
VOLTAGE / ELECTRICAL SUPPLY	1 220 volt cable - length of 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

Attention, this machine requires a power supply and a pneumatic one.

Technical focus n°1

WINDING DIRECTION POST SIDE : LEFT / RIGHT ON THE OUTSIDE - CYLINDRICAL POST : LEFT ON THE OUTSIDE

The Ninon Mix is designed to receive label rolls with a left outer winding direction on cylindrical and rear SIDE posts. The front SIDE station must be able to receive rolls of labels on the outer right side. In addition, the coil dimensions must be as follows :

a: max chuck diameter = 76 75 mm
b: maximum coil diameter = 260 mm (325 mm if the detachable tray option was chosen)
c: maximum reel height = 155 mm (285 mm optional)
d: scaling = 3-5 mm

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

Note : Label coils must be stored in a dry location, between 15°C and 18°C.
Do not hesitate to contact your sales representative or your printer, as solutions can be found on a case by case basis.

Technical focus n°2

TOUCH SCREEN

The colour touchscreen makes it easy to adjust several parameters such as :
Selection of positions and options.
The setting of timeouts.
The speed of data entries (optional, if there is a selection screw)
A day counter.

Technical focus n°3

MOTORISED CONVEYOR

The conveyor created by CDA is an anodized aluminium (stainless steel) profile, receiving an acetal pallet chain width of 82.6 mm (the width of this chain can be enlarged on request). Side guides in stainless steel (diameter of 12 mm), adjustable in width, orient the passage of products. The conveyor/motor assembly is fixed on a stainless steel chassis into which the electrical box is integrated.

Technical focus n°4

CYLINDRICAL POST

The installation station labels for cylindrical products are controlled by asynchronous motors and frequency inverters (adjustable label output speed). This station rotates cylindrical products to deposit labels (maximum standard reel height of 155 mm).

The CDA labelling station is mounted on an electric column, allowing the height of the label to be adjusted via the touch screen. Thus, no manual adjustments or tooling are required to adjust the label height positioning.

The reel support tray of the CYLINDRICAL post / station can receive a roll of labels with a diameter of 260 mm (as the standard). Finally, a “fixed” cleaning cell equips the workstation and allows the storing of label outputs.

Technical focus n°5

MACHINED ROLLS (optional)

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

Technical focus n°6

CONICAL STATION (optional)

The installation station labels for conical products are driven by asynchronous motors and frequency inverters (adjustable label output speed). This position rotates the tapered products while tilting in order to be able to deposit the labels (maximum standard reel height of 155 mm).

The CDA labelling station is mounted on an electric column, allowing the height of the label to be adjusted via the touch screen. Thus, no manual adjustments or tooling are required to adjust the label’s height positioning.

The reel support tray of the CONICAL station can receive a roll of labels 325 mm in diameter (standard). Finally, a “fixed” cleaning cell equips the workstation and allows the storage of label outputs.

Technical focus n°7

UP STATION (optional)

The label installation station on top of the products is driven by asynchronous motors and frequency inverters (adjustable label output speed).

The CDA labelling station is mounted on an electric column, which allows the height of the label to be adjusted via the touch screen. Thus, no manual adjustments or tooling are necessary to adjust the positioning of the label height.

The reel support tray of the UP station can receive a roll of labels with a diameter of 260 mm (standard). Finally, a “fixed” cleaning cell equips the workstation and allows the storage of label outputs.

Technical focus n°8

SIDE STATION (optional)

The installation station labels for flat products are driven by asynchronous motors and frequency inverters (label output speed adjustable). This station deposits the labels “on the fly”, and is then smoothed by a broom or roller (the maximum standard reel height of labels is 155 mm).

The CDA labelling station is mounted on an electric column, allowing the height of the label to be adjusted via the touch screen. Thus, no manual adjustments or tooling are required to adjust the label’s height positioning.

The reel support tray of the SIDE station is disengageable and can receive a roll of 325 mm labels in diameter (standard).

Technical focus n°9

AUTOMATIC ALIGNER (optional)

The automatic aligners allow the return of oval or rectangular products. The aligner is composed of a double chain driven by an asynchronous motor and driven by a variator. This device is synchronised with the speed of the conveyor. The aligner is adjusted to the width of the product using a steering wheel (position indicator).

Technical focus n°10

STABILISING BAND (optional)

The stabiliser belt is a belt (driven by an asynchronous motor and driven by a variator) synchronised with the speed of the conveyor. The assembly is mounted on an electric column and is adjusted in height via the touch screen. The stabiliser band can give balance to the product by pressing it from above and driving it at constant speed during the installation of labels front and / or back.

Technical focus n°11

INTERCHANGEABLE CYLINDER PLATE : CYLINDRICAL POST (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 40 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°12

JACK PLATE WITH AN INTERCHANGEABLE CONICAL STATION (optional)

You will find (see the table below) the dimensions of the conical products that you can label with the proposed material.

Interchangeable Platen Jack	Ø Min	Ø Max
Arms and rollers KONIC S	60	100
Arms and rollers KONIC M	100	150
Arms and rollers KONIC L	150	200

Technical focus n°13

DETACHABLE TRAY (optional)

The detachable tray is a simple mechanical device that limits the effects of the weight of the label reel (which varies over time). With each traction of the belt, the plate (which is mounted on a bearing) is released in rotation and then blocked once the traction is complete. In addition, the disengageable tray allows it to go from a maximum coil diameter of 260 mm to 325 mm.

Focus technique n°14

ULTRASONIC CELL (optional)

The ultrasonic trickling cell is used to detect labels and transparent media. If you have transparent labels, this option is mandatory for the proper functioning of the machine. This cell allows, in addition to detecting transparent labels, the identification of opaque labels.

Technical focus n°15

LABEL TRACKING CELL (optional)

The “label tracking” cell can detect a label already present on the bottle to guide the installation of a new label (a medal, a counter-label, and so on.).

Technical focus n°16

RECEPTION TABLE

The reception table is installed at the exit of the machine to recover the bottles dressed. The table of 700 mm in diameter can receive up to 60 bottles.

Technical Drawing