

AL122



High performance label dispenser



The AL122 is a "wipe-on" applicator for pre-printed labels that combines **high-performance, accuracy, flexibility, robustness and ease of use** in a compact and very affordable unit.

It can **feed labels up to 70m/min** and this speed can be easily adjusted either by simply turning a knob or by pushing a key on a display panel. In case of variable-speed applications, an **encoder wheel** can be installed to automatically adjust in real-time the label feed speed to exactly match the conveyor speed in the range 0-70m/min. The conveyor can even **stop and restart** in the middle of a label.

The machine can use label rolls up to 300 mm (12") diameter, with standard 76 mm (3") core and width up to 120 mm (optionally up to 180 mm).

The paper feed mechanism is powered by **two separate stepping motors**: the independent rewinder allows to keep a constant web tension without any mechanical adjustment. There are **NO clutches, brushes or brakes** that require critical adjustment or periodic maintenance. Thanks to the "smart" and efficient management of the motors, the power requirement is limited to 120W max at full speed (much less in stand-by).

The AL122 is available in left-hand or right-hand version and it can be installed with different orientations, to apply labels on

any side of the product parallel to motion direction. Thanks to its compactness (total thickness of just 240 mm in the 120 mm wide version), it can be easily installed also in tight spaces.

The operator interface can be really minimal: a pre-configured machine can be routinely operated with just **one push-button** to start/stop operation and an alarm lamp, visible from distance, that indicates the operating condition of the machine. In installations where more local control is required, two different options are available: a **simple panel** with 2 potentiometers, 3 LEDs and 4 function keys already offers a good degree of configurability, while a more **flexible panel** with a 2x20 characters LCD, 2 LEDs and 5 function keys offers extensive diagnostics and menu-driven configurability with multi-language support. Both controllers can be detached from the machine body and remotely placed where they can be more conveniently accessible by the operator. A USB interface also gives the possibility to use an **external PC to remotely monitor, control and configure** the machine, with sophisticated diagnostic and management capabilities, including simultaneous control of several machines from the same PC.

On production lines requiring **minimal down-times**, it is possible to directly interconnect two machines in a "**twin system**" that automatically switches operation to the other unit when the current one stops for any reason (typically to reload a new label roll).

Industry-standard M12 connectors are used for all I/O interface signals except for USB, for which is used a standard type-B connector.

Learn more:

www.phoenixitalia.it/AL122

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Technical specifications

Dimensions

700 x 500 x 245 mm (120 mm version)

700 x 500 x 310 mm (180 mm version)

Weight

21 Kg (approx, depending on version and options)

Label Size

maximum 180x2559 mm,

minimum 20x20 mm

Label Roll

maximum 300mm on 76mm (3") core

Application Rate

up to 1400 min (25 mm labels)

up to 760 min (50 mm labels)

up to 390min (100 mm labels)

Maximum Application Speed

up to 70 m per minute

(depending on label size)

Application Accuracy

+/- 0.5 mm

Display controller

Robust HMI, aluminum machined. Operation via 5 push buttons. Clear 20x2 LCD display, clear menu driven operator interface and error messages. Multilanguage support.

Potentiometer panel

Robust HMI, aluminum machined. Simple and intuitive operation via 2 potentiometers and 4 push buttons.

Encoder wheel

Rotray shaft encoder for continuous speed adjustment from 0 to 70 m/min.

M12 Connectors

Product sensors, label sensor, low label warning, alarm lamp, encoder wheel, HMI.

USB

For interfacing with a PC, Laptop or tablet. Advanced operation, configuration, diagnosis and firmware upgrade.

Ethernet and WiFi

Ethernet and WiFi connectivity for remote control through an easy-setup connection box.

Key features

- Cost-effective, high-performance system with modular HMI (Display, Potentiometers, Remote via PC).
- Up to 70m/min, 1400 labels/min.
- Multi-language support, including Cyrillic and Eastern Europe special characters.
- USB interface, Ethernet and WiFi connectivity.
- Easy remote operation, diagnosis and configuration via a dedicated cross-platform software.
- Encoder wheel for continuous speed adjustment.
- Tandem option for no down time operations.

