AL belt

Labelling system with belt conveyor

ALbelt identifies a range of linear labelling machines equipped with a conveyor belt, specifically designed to be versatile, compact and adaptable to different labelling requirements.

ALbelt can be used in a wide variety of configurations, but what each labelling machine in the ALbelt range has in common is its robust open-framework structure (powder coated grey, or optionally in stainless steel), with the conveyor constructed from aluminium profiles and a conveyor belt, which allows for virtually unlimited combinations of length and width. It is driven by a modern and compact brushless motor, and can be equipped with ALTECH's range of labelling heads (ALstep, ALritma, ALcode).

The base version of the ALbelt system comprises a control panel with traditional selectors and buttons, but a PLC with touchscreen is available as an option, allowing management of recipes as well as optional industry 4.0 compatibility.

ALbelt basic

This is the simplest configuration of the ALbelt system, comprising a single conveyor belt (standard length 1500 mm) and a single labelling head positioned for top or side labelling. It is suitable for labelling of boxes and trays up to a total weight of 10 kg.

It can be equipped with accessories and options for spacing the products out or stabilising them during labelling
(in the case of lightweight or particularly unstable products).

Where required, it is possible to install two or more labelling heads for multiple labelling, even of different types
(e.g. print/apply).

ALbelt with ALstep labelling head for top labelling. (Video)

ALbelt BT52

This ALbelt version is equipped with two conveyor belts in sequence, designed so that there is a small gap between the belts to allow the application of labels to the lower part of the products.

The system allows for the integration of two labelling heads for top and bottom labelling, typically trays or clamshells.

It can also be equipped with a system incorporating a specific adaptor for the application of C-wrap labels, wrapping the label around the front, top and lower parts of the product, acting as a tamper seal as well as providing a decorative and informative function.

The particular "balcony" design of the BT52 is worthy of mention, as the supports for the entire system are on the side opposite the operator in order to provide them with ergonomic access to the operational parts of the machine (for example for label changes).

ALbelt with ALritma labelling head for C-wrap labelling. (Video)

Labelling systems with belt conveyor

ALbelt C

ALbelt C incorporates a specific set of additional devices which make ALbelt suitable for wrap-around labelling of cylindrical products.

This configuration has been specifically designed for small-medium scale production of products packaged in cylindrical bottles or jars, typically food or cosmetic products.

The compact structure and low cost make this configuration suitable for companies whose production is not yet highly automated, requiring manual loading of products. For greater production requirements, on the other hand, ALTECH offers the ALline range, specifically designed for labelling of cylindrical bottles directly within the packaging line.

ALbelt with ALstep labelling head for wrap-around labelling. (Video)

ALbelt Special

ALbelt is not limited to the standard configurations described above, however – thanks to the engineering mindset which has made ALTECH a world leader in the labelling sector, it can be offered in custom configurations, specifically designed around the product, the packaging line, or configured for particularly high speeds. Of the innumerable solutions offered, some of the most notable are:

- The ALbelt BT70 system for holding suspended products, and bottom labelling of bottles or jars.
- Heavy-duty ALbelt system with steel structure (in place of aluminium profiles) for boxes weighing more than 10 kg.
- Configuration for D-wrap application, wrap-around on four faces (top + two sides + bottom) of trays.
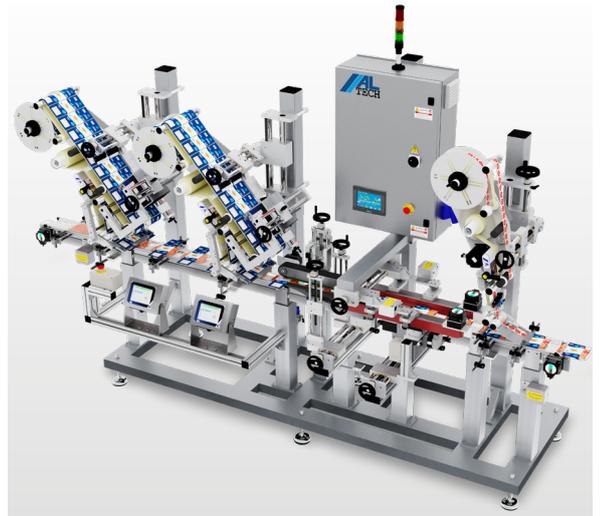
ALbelt in non-stop configuration for D-wrap labelling. (Video)

- BT28 option with dual parallel belts for product detection from above, through the two belts (particularly suitable for labelling of flat products, such as trays of sliced meats).
- Incorporation of feeders for labelling of flat/laid out products (e.g. stationery products or flat bags).
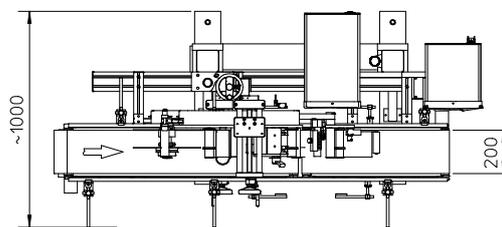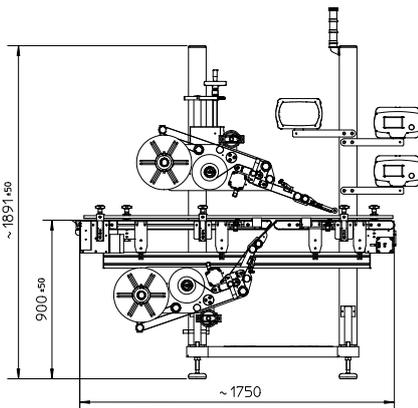- Non-stop configurations.

ALbelt in non-stop configuration for top-bottom labelling. (Video)

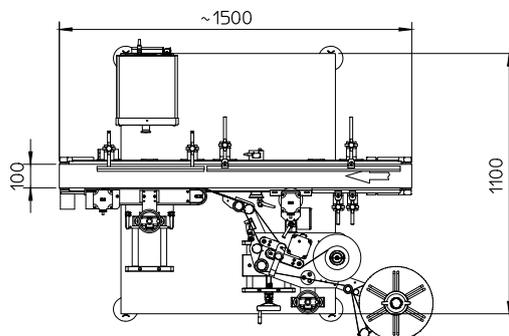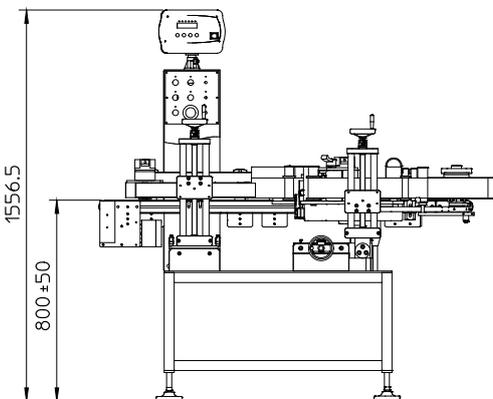## Labelling systems with belt conveyor

Technical specifications

ALbelt basic
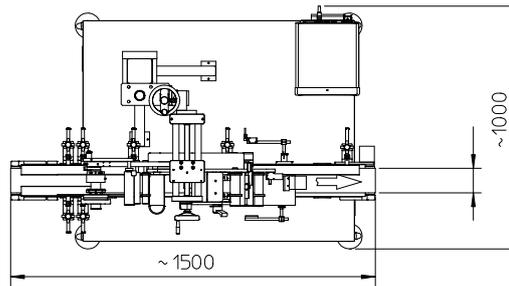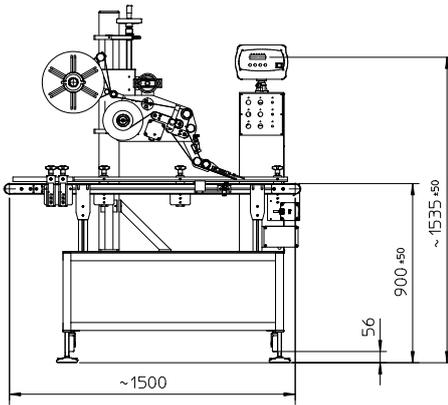
ALbelt BT52

ALbelt C

Standard features

- Powder-coated open framework structure (stainless steel optional), with integrated electrical panel.
- Belt conveyor.
- Revolution counters on adjustment handwheels.
- CE marking.
- Power supply: 230 V single phase.

Common optional devices

- Control via PLC with colour touchscreen.
- Multicolour signal tower.
- Complete synchronisation.
- Storage of up to 100 recipes.
- Micrometric adjustment of head inclination.
- Industry 4.0 connectivity.
- Coders/printers for variable data.
- Monitoring systems for correct label application.
- Product passage surface.
- Warning siren.
- NON-STOP configurations.

Labelling and identification systems