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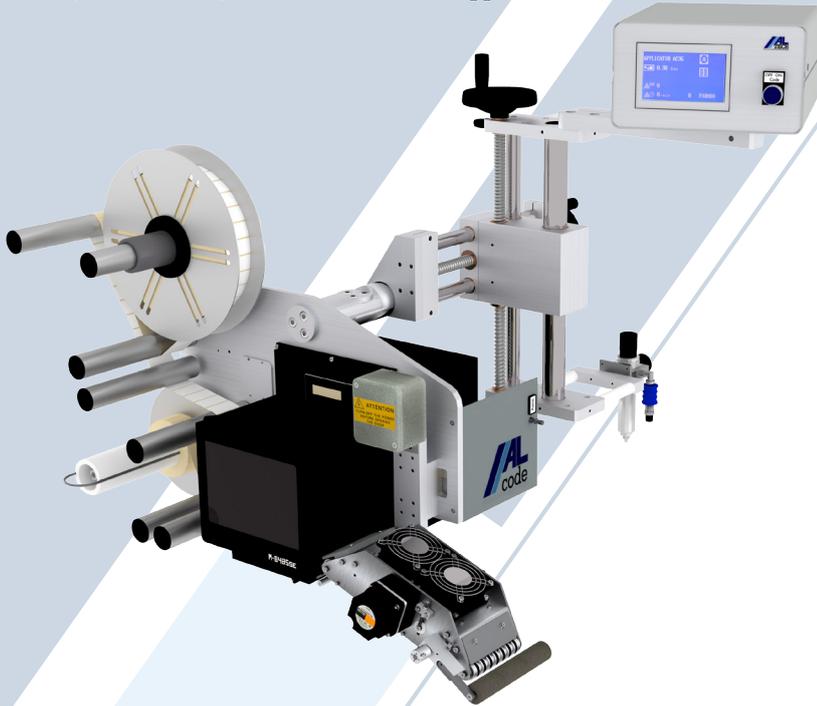


AL
code

Print & Apply Labelling Machine

Image above shows ALcode with Variable Stroke Tamp

ALcode TS (Touch Screen) - with Vacuum Belt Applicator



ALcode is an industrial printer applicator designed to automatically print and apply self adhesive labels in real time 'one-to-one' (last label printed is the label applied) quickly, efficiently and reliably.

It is an extremely well proven and versatile modular machine, configurable to suit almost any variable data print application requirement. Examples include unit pack barcode labelling, shrink tray labelling, outer carton case labels and courier shipping labels, to name but a few. The ALcode will meet the needs of even the most demanding requirement operating on a 24/7 basis.

Compatible with almost all host IT systems, ALcode labelling machines are simple to integrate with existing production equipment and business process control software systems (such as SAP) via a range of interface options including Ethernet as standard and optional Wireless.

We also offer our own in house ALsoft and ALware label design and integration software control modules as well as our ALpad touchpad for standalone operation.

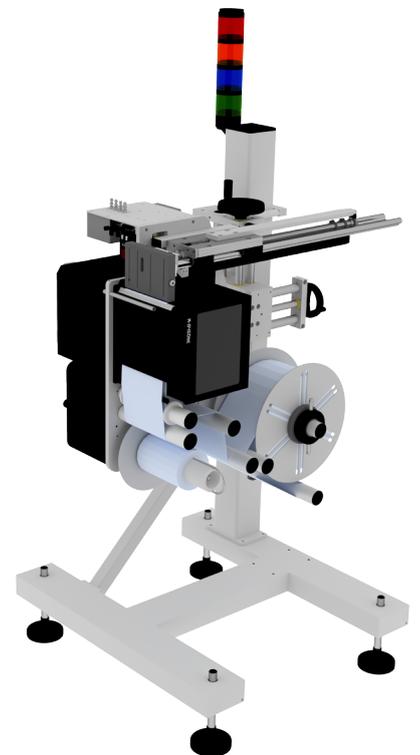
Key to ALcode's ease of integration is its use of the various OEM thermal print engines from the internationally renowned manufacturers, SATO and Zebra (as well as Datamax where requested). All of which offer industry standard Windows drivers and command languages as well as both direct thermal or thermal transfer (with ribbon) print and the ability to hot swap printers on multi unit sites.

The printers also offer industry best, cost of ownership, data processing and print speeds of up to 400mm/sec (16 i.p.s) with print resolutions up to 609 dpi, available in 104mm (4") or 167.5mm (6.5") print width variants, with up to a 180mm width carrier.

Two basic models of ALcode exist:-

Our well proven PLC managed machine, which is ideal for logistics and warehouse applications, where machines have a set label application task to complete and no user settings to adjust (e.g. the application of a shipping label to a carton or tote in automated distribution warehouse).

Or our advanced touch screen controlled 'TS' model, which provides unique functionality not normally found on most one-to-one machines, ideal for applications requiring regular operator interaction.



ALcode with long stroke tamp and H-stand

ALcode TS Touch Screen

The touch screen controller of ALcode TS provides the following functionality:

- Format save function – allowing complete label setups to be stored and recalled
- Variable application delay – allowing positioning of labels without moving sensors
- Ability to adjust virtually all application parameters – e.g. application blow time, print delay etc
- Ability to modify the application sequence logic – via simple graphic interface rather than complex PLC programming. (e.g. wait with piston in or wait with piston out)
- Provides definable outputs to connected devices – with graphic condition display.
- Allows the machine to be switch between manual & auto – for simple setup and test
- Provides operational information such as, application speed and quantity, including the ability to stop the machine at a pre-set value

Application Solutions

ALcode offers the most comprehensive range of application solutions of any print and apply machine on the market. Some common examples include:

- Air-blow applicator, with or without piston
- Tamp 'by contact' applicator
- Swinging roller applicator
- Multi-label format swinging plate applicator
- Rotary arm applicator (for front/back and/or corner labelling)
- Multi-label format air-blast applicator, (for high speed non contact application)
- Multi-label format vacuum belt applicator (for high speed and/or long labels)

Application solutions are chosen according to the speed requirement of the line, surface finish of the product, and label sizes and types to be applied. On the rare occasion a standard application does not exist, we have the skills and professionalism to design a special solution to meet the customers exact labelling requirements.

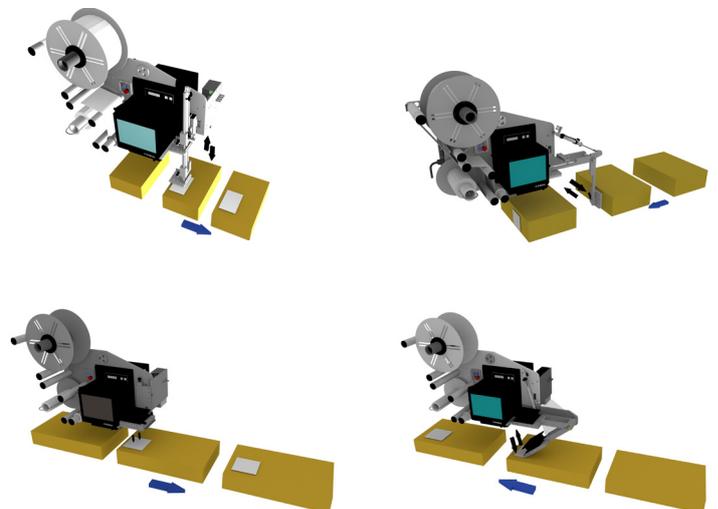
ALcode Enhancement Options

ALcode is available with a comprehensive range of enhancement options. These include:

- Barcode scanner to confirm label application & readability
- Product handling and transfer systems (integrated conveyors)
- Safety protection/anti dust cabinets
- Multiple labelling programs e.g. allowing both front and side labelling
- Near end of label roll control with machine status colour beacons and buzzers
- Fibre optic 'label on tamp' monitoring sensor
- Oversized powered unwind and rewind units
- Pivot 90° label rotation mount bracket

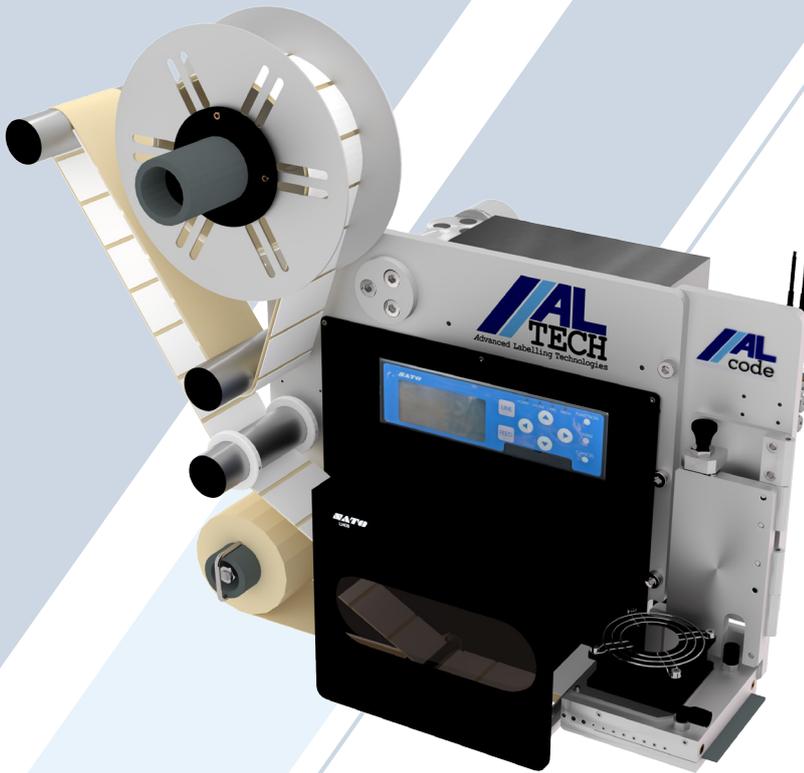


ALcode tamp-blow applicator with SATO print engine



A small selection of standard application solutions available for both ALcode and ALcode LT

ALcode LT - Compact & Economical Print & Apply



ALcode LT with Multi-label Format Air Blast Applicator

ALcode LT was developed specifically to incorporate the SATO LT economical print engine; a lighter version of the standard SATO print engine we frequently use in our industrial ALcode machines. The ALcode LT is specifically created for low to medium speed/volume applications and its compact dimensions make it ideal for integration into OEM production machinery or space restricted environments.

ALcode LT can print and apply labels up to a maximum of 104mm leading edge (112mm max inc carrier paper) at a print resolution of 8 dots/mm (203 dpi), allowing text, barcodes and simple graphics to be printed and applied on a one-to-one basis with simple connection via USB or optional Ethernet interface for label data.

ALcode LT is available with most of the application solutions we offer with our standard ALcode machine, suitably redesigned in many parts to accommodate the needs for compactness and versatility typical of this model.

The machines logic is controlled by a compact microprocessor control system, neatly housed in the robust body of the machine along with the printer and pneumatics systems. The machine includes a 220mm label unwind and carrier paper rewind system and can be orientated in virtually any rotation required for ease of integration.

The pneumatic application mechanisms available for ALcode LT include:

- Multi-label format air blast application system, for non contact labelling on potentially uneven surfaces or at variable distances from the applicator (max 80mm); e.g. flow wrapped bakery products
- Swinging plate application system, for multi-label format by contact labelling of moving products, of potentially varying sizes/ uneven surface finish e.g. filled sacks
- Tamp-blow piston application system, either via single or multi-format applicator, taking the label from the printer and extending to a fixed point close to the still or moving product before accurately blowing the label
- Rotary arm applicator for front of product labelling



ALcode LT Tamp- Blow on H-Stand

Technical Specification

	ALcode	ALcode LT
Print Type	Thermal transfer or direct thermal (at 200, 305 or 609 dpi)*	Thermal transfer or direct thermal (at 203 dpi)
Label Size	Up to max 167.5mm print width. Up to max 180mm label carrier width	Up to max 104mm print width. Up to max 112mm label carrier width
Interfaces	Serial, Parallel, USB and LAN as standard, optional Bluetooth and Wireless	Standard USB optional LAN and Wireless LAN
Real-time Clock	Yes (providing possibility to print time stamp)	No
Production Speed	Up to 100 label/min depending on label size, printer model and applicator configuration	Up to 40 labels/min depending on label size and applicator configuration
Label Roll Diameter	300 mm (option: 400 mm)	220 mm
Power Supply	220V, 50 Hz, 800W	220V, 50 Hz, 800W
Air Consumption	Max 6 bars, 60 litre/min	Max 6 bars, 60 litre/min

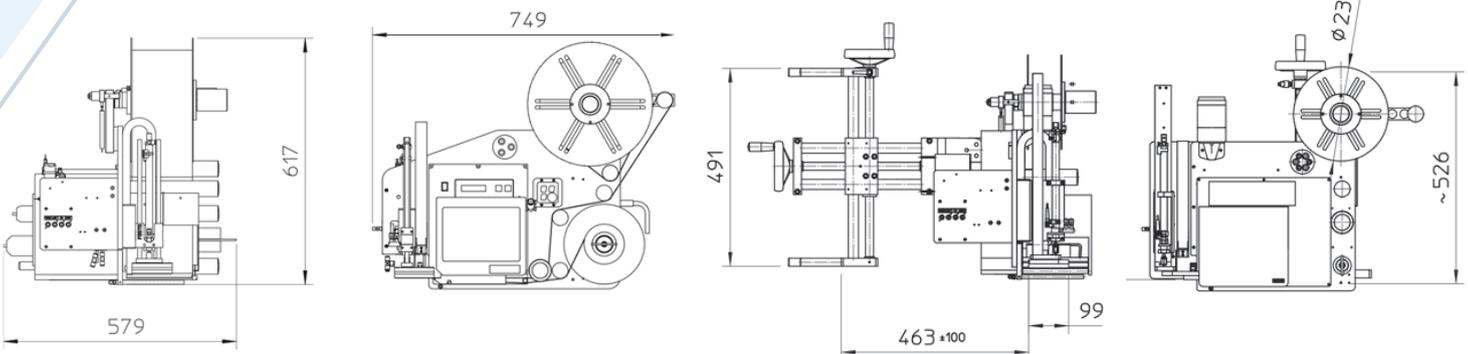
* Depending on printer model

ALcode Key Features

- High performance industrial 'one-to-one' machine, for 24/7 line critical applications
- Single function PLC or multi product touch screen (for easy parameter adjustment)
- Unparalleled range of module application solutions - label application to any face at virtually any line speed
- Choice of hot swap industrial print engines from world leading manufacturers easily integrated with any host data source

ALcode LT Key Features

- One-to-one, real time print & apply machine for applications requiring a more simplistic &/or ultra compact machine at a highly competitive price
- Broad range of modular application systems including tamp-blow, air blast & swinging plate solutions
- Easy integration with host for label data via Windows driver &/or network interface options



Tel: 0800 612 6205
 Int: +44(0)1656 654 403
 Fax: +44(0)1656 649 555
 E-Mail: sales@altech-uk.com
 Web: www.ALTech-UK.com

ALTech UK Labelling Technologies Ltd
 Unit 2220, Central Park, Western
 Avenue, Bridgend, Mid Glamorgan,
 South Wales. CF31 3RT