

The **ALS** Generation

051790



The labelling units for
Your Product Identification



**AVERY
DENNISON**

Monarch®
Products and Services

Your Solution for Industrial Labelling ...

Especially if you are an industrial series producer in multi-shift operation, your products will need an identity to guarantee their sustained success on the market. Labels, applied reliably and "just in time", provide your products with this unmistakable form of branding.

For precisely this purpose you will need a labelling unit that can label large product volumes in very short periods. You require exceptional label dispensing accuracy that always positions the label in the correct place.

In brief: You want efficiency!

Fast, Flexible, Favorable

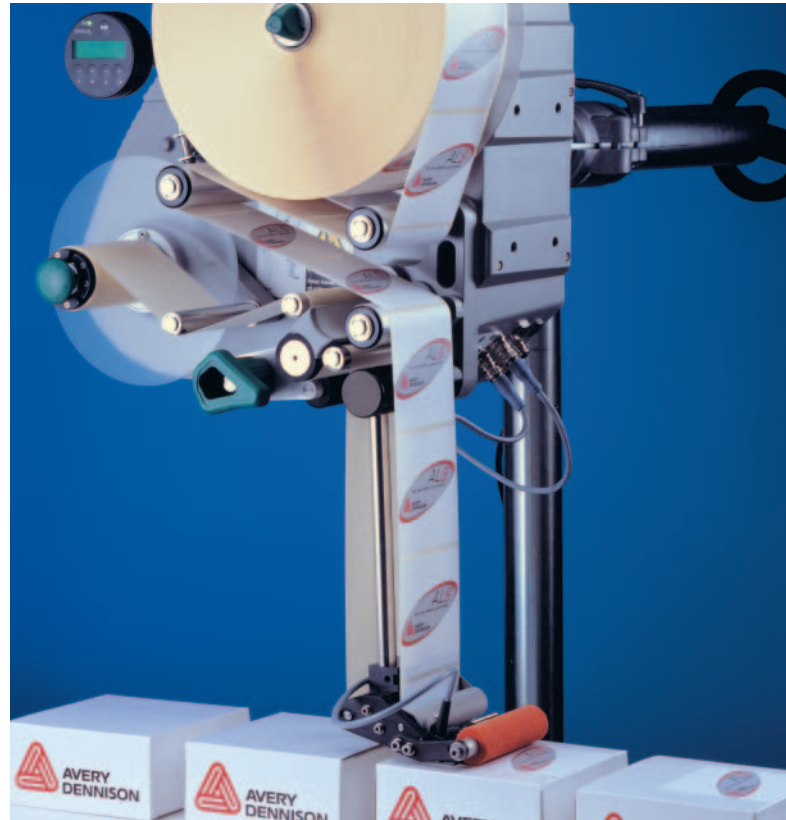
The ALS labelling machines combine extreme robustness with high-performance, and the latest ALS generation is now even more reliable and compact than ever.

All three ALS machines are configured for high requirements in continuous operation. 24 hours a day, 7 days a week, and this with high dispensing accuracy – no problem for the new ALS generation!

The ALS family makes "you" flexible. Its modular concept allows you to effortlessly integrate a unit into your existing system and exchange it for another "member of the family", if required.

Proven Quality

All three ALS machines have been designed in accordance with the tried and tested Avery Dennison Standard, which distinguishes our range of products from all others, and makes the ALS generation so reliable.



Your applications

The ALS family represents our latest generation of labellers, which offer a very high standard of efficiency. These applicators are suitable for:

- product labels
- decorative labels
- area of logistics
- food and beverage industries
- canned goods industries
- hygiene industries
- cosmetics industries
- household goods industries
- electronics industries
- chemical industries

Optimum **Benefits** with the ALS Family

Attractive Price-Performance Ratio

The ALS generation is an industrial-capable range at an extremely affordable price and with low maintenance costs. It is fast and durable, even with the most demanding requirements in round-the-clock operations.



High Standard of Industrial Protection

Additionally available IP 65 kits provide even more protection and guarantee easy cleaning, which is of particular importance in the food industry. The ALS family can therefore also be used in humid or dusty environments.



Integrative

Easy integration into various systems thanks to the easy to access interfaces. SPS interface, CF card, USB and Ethernet connection.



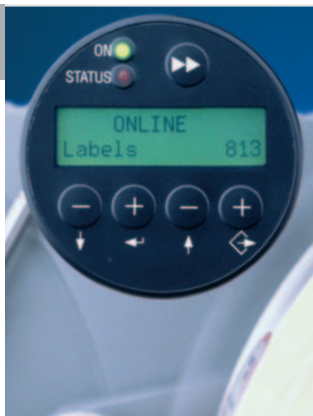
Turbo-Labeller

With its speed of 50 m/min, the ALS 256 is the fastest labelling machine in the compact class of the new ALS generation. Suitable for labels up to 160 mm width, it delivers highest quality for various applications.



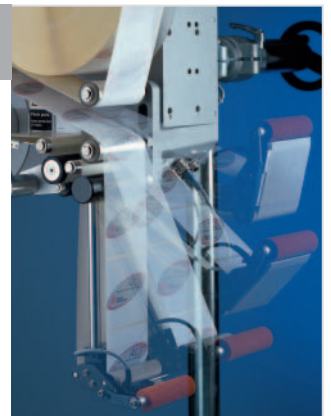
User-Friendly

The rotatable multifunctional display with intuitive menu structure is integrated. The machine can be optionally operated per cable connection with an additional remote control display.



Flexible in Use

The ALS family enables bottom, side and top labelling with three different fixing options, absolutely in line with your requirements. The dispensing edge, which can be rotated by up to 90° also ensures even more flexibility.



Gentle Blow-on Applicator

LA-BO, the new blow-on applicator available for the ALS Family, applies labels onto goods via airstream, without any mechanical contact. This makes it optimal for all sensitive and uneven surfaces.



Easy Handling

The backing paper can be removed without difficulty with the "easy push" mechanism, and you can also insert new material just as easily. The material roll can be fixed with ease and is freely accessible at all times.



Industrial Devices in the Compact Class

Reliable, Accurate, Compact: The ALS 104

The ALS 104 is the first Avery Dennison labelling unit in the compact class.

Your benefits:

- Top quality for standard applications
- Excellent price-performance ratio
- Various application edges
- Application speed of up to 30 m/min
- Automatic adjustment to actual production line speed by APSF function
- Faulty label automation reacts immediately to gaps in the material roll

The High-Performance ALS 204 and ALS 206

Our best-in-class products! In addition to the strong features of the ALS 104, these applicators now offer even more benefits:

- Highest quality for demanding applications
- Application speed of up to 40 m/min
- Unbeatable flexibility with the various applicators
- Easy maintenance and quick control with user-friendly central remote control function
- ALS 206 applies labels up to 160 mm width
- Tandem-application to minimize production-stops



Your ALS Family ...

| Specifications for ALS 104 RH/LH | | |
|-------------------------------------|---|---|
| Dispensing speed: | Up to | 30 m/min |
| Labels: | Material | self-adhesive label with liner, inside/outside winding possible |
| | Label roll diameter unwinder | up to 300 mm |
| | Backing paper roll diameter rewinder | up to 200 mm |
| | Core diameter | 1.5" / 3" / 4" |
| | Material width incl. backing paper | 10 - 110 mm |
| | Label length | 5 - 600 mm |
| Label stop accuracy: | at dispensing edge: | +/- 0.5 mm at fixed speed |
| | | +/- 1.0 mm at variable speed |
| Electronics: | Processor | 16 Bit DSP, RAM 4 kByte, ROM 64 kByte |
| | Control panel | graphical display, 128 x 32 dots, 2 lines, 5 push buttons |
| Data interface: | Serial | 1x RS232, D-Sub 9 for service purposes |
| | Remote display | 1x RS422 (Mini-DIN 6) |
| External sensor interfaces: | Opto-isolated | 4-pin M12 connectors |
| | Label sensor | Wenglor OPT242-P800 (NPN) |
| | or alternate sensors | PNP/NPN, 24 V |
| | Product sensor | PNP/NPN, 24 V |
| | APSF sensor | single phase, PNP, 24 V |
| SPS/PLC Interface: | Opto-isolated | Sub-D15 |
| | Outputs | 3x PNP, 24 V, max. 500 mA per channel; |
| | | 1x isolated relay output, max. 125 mA (NC, NO selectable) |
| | Total max. | 1500 mA |
| Parallel function to PNP-outputs | optional on 8pin M12 connector | |
| Status messages/ Test functions: | Dispensing stops, when | <ul style="list-style-type: none"> • label stock ends • missing label counter is exceeded automatic diagnosis after powering on |
| IP-protection: | Class | Standard 41, option 65 |
| Noise: | max. | < 70 dB (A) |
| Dimension/Environment: | H x W x D (mm) | 490 x 490 x 340, |
| | Weight: | 33 kg |
| | Mounting possibility | collateral/bottom and back, |
| | Mains voltage / Power consumption | 115/230 V AC / 300 VA |
| | Operating temperature | 5 - 40 °C |
| | Humidity | 30 - 85%, not condensing |
| | Qualifications | CE, TÜV/GS, FCC, CCC, GOST, NRTL (US/CA) |
| Options: | L-shape dispensing edges, V-shape dispensing edges, adjustable fixture for dispensing edge, IP 65 kit, external OD sensor, different label sensors, external remote display, horizontal lead screw (for operator side adjustable) | |

... at a glance!

| Specifications for | | ALS 204 RH/LH | ALS 206 RH/LH |
|-------------------------------------|---|---|-----------------|
| Dispensing speed | up to | 40 m/min | 30 m/min |
| Labels: | Material | self-adhesive label with liner, inside/outside winding possible | |
| | Label roll diameter unwinder | 300 mm | |
| | Backing paper roll diameter rewinder | 200 mm | |
| | Core diameter | 1.5" / 3" / 4" | |
| | Material width incl. backing Paper | 10 - 110 mm | 10 - 160 mm |
| | Label length | 5 - 600 mm | |
| Label stop accuracy: | at dispensing edge | +/- 0.5 mm at fixed speed | |
| | | +/- 1.0 mm at variable speed | |
| Electronics: | Processor | 32 Bit CPU (MIPS), RAM 16 MByte, ROM 4 MByte | |
| | Card slots | Slot for one CF-card or WLAN-card | |
| | Control panel | Graphical display 128 x 32 dots, 2 lines, 5 push buttons | |
| Data Interfaces: | Serial | 1x RS232C, D-Sub 9, max. 115200 Baud | |
| | Ethernet | 1x 10/100 Base T/TX RJ45 | |
| | USB | 1x device V1.1, USB-B | |
| | Remote Display | 1x RS422 (Mini-DIN 6) | |
| | Internal interfaces for | Applicator interface (optional) | |
| SPS/PLC Interfaces: | Output | 4 x PNP, 24 V, max. 500 mA/Kanal | |
| | Total max. | 1500 mA | |
| | Input | 3 x PNP/NPN, 24 V | |
| External sensor interfaces: | Opto-isolated | 4-pin M12 connectors | |
| | Label sensor | Wenglor OPTO1N optical | |
| | or alternate sensors | PNP/NPN, 24 V | |
| | Product sensor | PNP/NPN, 24 V | |
| | APSF sensor | Single/bi-phase, PNP, 24 V | |
| OD-sensor | PNP, 24 V | | |
| Status messages/ Test functions: | Dispensing stops, when | <ul style="list-style-type: none"> label stock ends missing label counter is exceeded | |
| | | automatic diagnosis after powering on | |
| IP-protection: | Class | Standart 41, option 65 | |
| Noise: | max. | < 70 dB (A) | |
| Dimension/Environment: | H x W x D (mm) | 490 x 490 x 340 | 490 x 490 x 390 |
| | Weight | 36 kg | 38 kg |
| | Mains voltage / power consumption | 110/230 V AC / 460 VA | |
| | Operating temperature | 5 - 40 °C | |
| | Humidity | 30 - 85%, not condensing | |
| | Qualification | CE, TÜV/GS, FCC, CCC, GOST, NRTL (US/CA) | |
| Options: | L-shape dispensing edge, V-shape (ALS 204 only) dispensing edge, external OD sensor; different sensors and applicators, external remote controll display, Tandem, Applicator Interface, IP 65 kit, adjustable fixture for L-shape | | |

We reserve the right to make technical modifications. (06/2008)

The name Avery Dennison is associated worldwide with perfect labelling. In addition to labelling units, print & apply systems and thermal transfer printers, we also offer: Service, Software and Consumables



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