

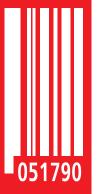
## The ALS Generation

The first choice for industrial applications

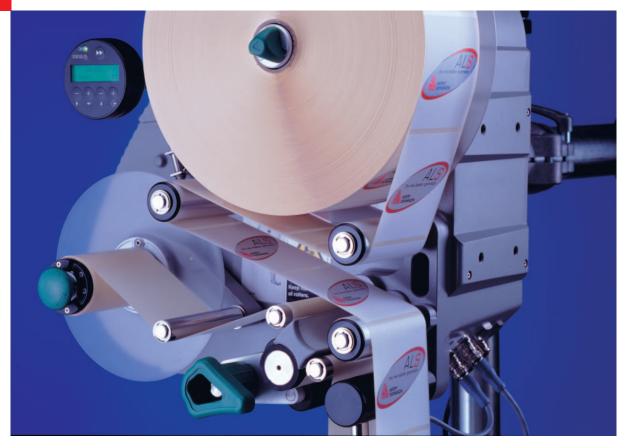


The labelling units for your Product Identification





## The ALS Generation -Your Solution for Industrial Labelling



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!

#### The Latest Generation

The ALS family represents our latest generation of label applicators, which offer a very high standard of efficiency. These applicators are suitable for all self-adhesive product and decorative labels, as well as for usage in the area of logistics, especially for bottle labelling, canned goods, hygiene, cosmetics, household goods, electronics and chemical industries.

#### 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 is flexible and 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.

## 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 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.



#### Integration

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



#### **RFID-Enabled**

The ALS 204 and 206 can be optionally upgraded at any time with the new RFID technology. Reading RFID tags will not be problem and nonfunctioning tags can be removed as required with the "bad tag" separator.



#### **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 mounting options, absolutely in line with your requirements. The dispensing edge, which can be rotated by up to 90° also ensures even more flexibility.



#### Flexible Post-Processing

Application-specific applicators can be connected completely in accordance with your requirements in order to further increase application flexibility. And they are, of course, also suitable for standard equipment.



#### **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: The ALS Products

#### Reliable, Accurate, Compact: The ALS 104

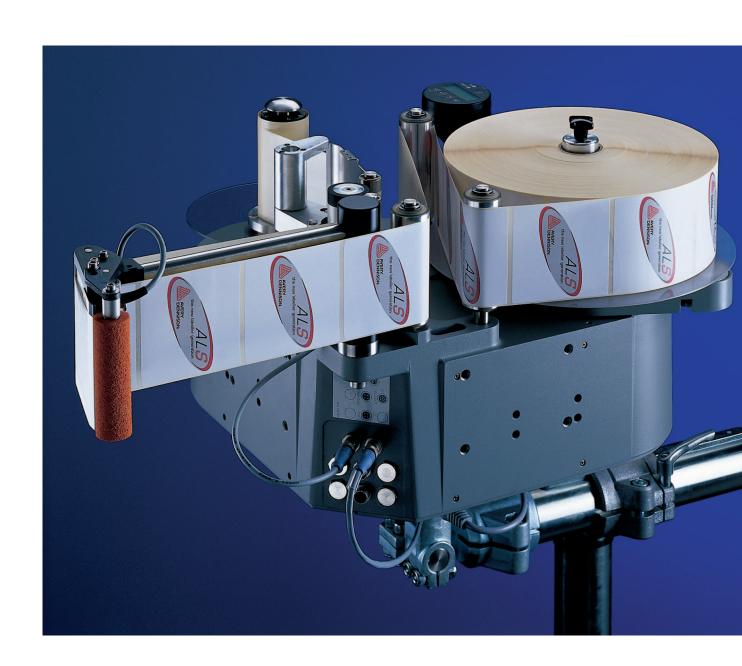
The brand new ALS 104 is the first Avery Dennison labelling unit in the compact class. Your benefits:

- ✓ 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
- ✓ RFID capability possible as an option
- ✓ ALS 206 applies labels up to 160 mm width



# Your ALS Generation at a glance

#### 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 Accuracy	at dispensing edge:	+/- 0.5 mm
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
	OD-sensor	PNP/NPN, 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 /	Dispensing stops, when	label stock ends
Test functions:		<ul> <li>missing label counter is exceeded</li> </ul>
	Test functions	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 edge, V-shape disper	nsing edge, external OD sensor,

#### Specifications for ALS 20x RH/LH

Model: Dispensing speed:  up to  40 m/min  30 m/min  Labels:  Material  Label roll diameter unwinder  Backing paper roll diameter rewinder  Core diameter  Core diameter  Label length  Label length  Label Accuracy:  at dispensing edge  4/- 0.5 mm  Electronics:  Processor  Card slots  Control panel  Data Interfaces:  Serial  Ethernet  USB  Remote Display  Amerial wito Material widen  40 m/min  30 m/min  40 m/min  10 - 160 mm  10 - 16
Labels:  Material  Self-adhesive label with liner, inside/outside winding possible  Label roll diameter unwinder  Backing paper roll diameter rewinder  Core diameter  1.5" / 3" / 4"  Material width incl. backing Paper  10 - 110 mm  10 - 160 mm  Label length  5 - 600 mm  Label Accuracy:  at dispensing edge  +/- 0.5 mm  Electronics:  Processor  22 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
inside/outside winding possible  Label roll diameter unwinder  Backing paper roll diameter rewinder  Core diameter  Material width incl. backing Paper  Label length  5 - 600 mm  Label length  5 - 600 mm  Label Accuracy:  at dispensing edge  +/- 0.5 mm  Electronics:  Processor  Card slots  Card slots  Control panel  Data Interfaces:  Serial  Ethernet  1x 10/100 Base T/TX RJ45  USB  1x device V1.1, USB-B
Label roll diameter unwinder  Backing paper roll diameter rewinder  Core diameter  1.5" / 3" / 4"  Material width incl. backing Paper  Label length  5 - 600 mm  Label length  5 - 600 mm  Label Accuracy:  at dispensing edge  +/- 0.5 mm  Electronics:  Processor  Card slots  Control panel  Cantrol panel  Data Interfaces:  Serial  Ethernet  1x RS232C, D-Sub 9, max. 115200 Baud  Ethernet  1x 10/100 Base T/TX RJ45  USB  1x device V1.1, USB-B
Backing paper roll diameter rewinder Core diameter 1.5" / 3" / 4"  Material width incl. backing Paper Label length 5 - 600 mm  Label length 5 - 600 mm  Label Accuracy: at dispensing edge +/- 0.5 mm  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
Core diameter  Material width incl. backing Paper  Label length  5 - 600 mm  Label Accuracy:  at dispensing edge  +/- 0.5 mm  Electronics:  Processor  Card slots  Control panel  Data Interfaces:  Serial  Ethernet  USB  1.5" / 3" / 4"  10 - 110 mm  10 - 160 mm  11 - 160 mm  12 - 160 mm  12 - 160 mm  13 - 160 mm  14 - 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18
Material width incl. backing Paper 10 - 110 mm 10 - 160 mm  Label length 5 - 600 mm  Label Accuracy: at dispensing edge +/- 0.5 mm  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
Label length  Label Accuracy:  at dispensing edge  +/- 0.5 mm  Electronics:  Processor  Card slots  Control panel  Data Interfaces:  Serial  Ethernet  USB  1x 10/100 Base T/TX RJ45  USB  1x device V1.1, USB-B
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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
Ethernet 1x 10/100 Base T/TX RJ45 USB 1x device V1.1, USB-B
USB 1x device V1.1, USB-B
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Remote Display 1x RS422 (Mini-DIN 6)
Internal interfaces for Applicator interface (optional)
RFID reader (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 OPT242-P800 (NPN)
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/ Dispensing stops, when • label stock ends
Test functions:  • missing label counter is exceeded
Test functions 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 340 490 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 dispensing edge, RFID-Kit*
external OD sensor, different sensors and applicators, external remote controll display

The name Avery Dennison is associated worldwide with perfect labelling. In addition to labelling units, we also offer: Print & Apply systems, Thermal transfer printers, Software and Consumables. Please contact us!



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Dealer:

