

The **ALS** Generation

The first choice for industrial applications

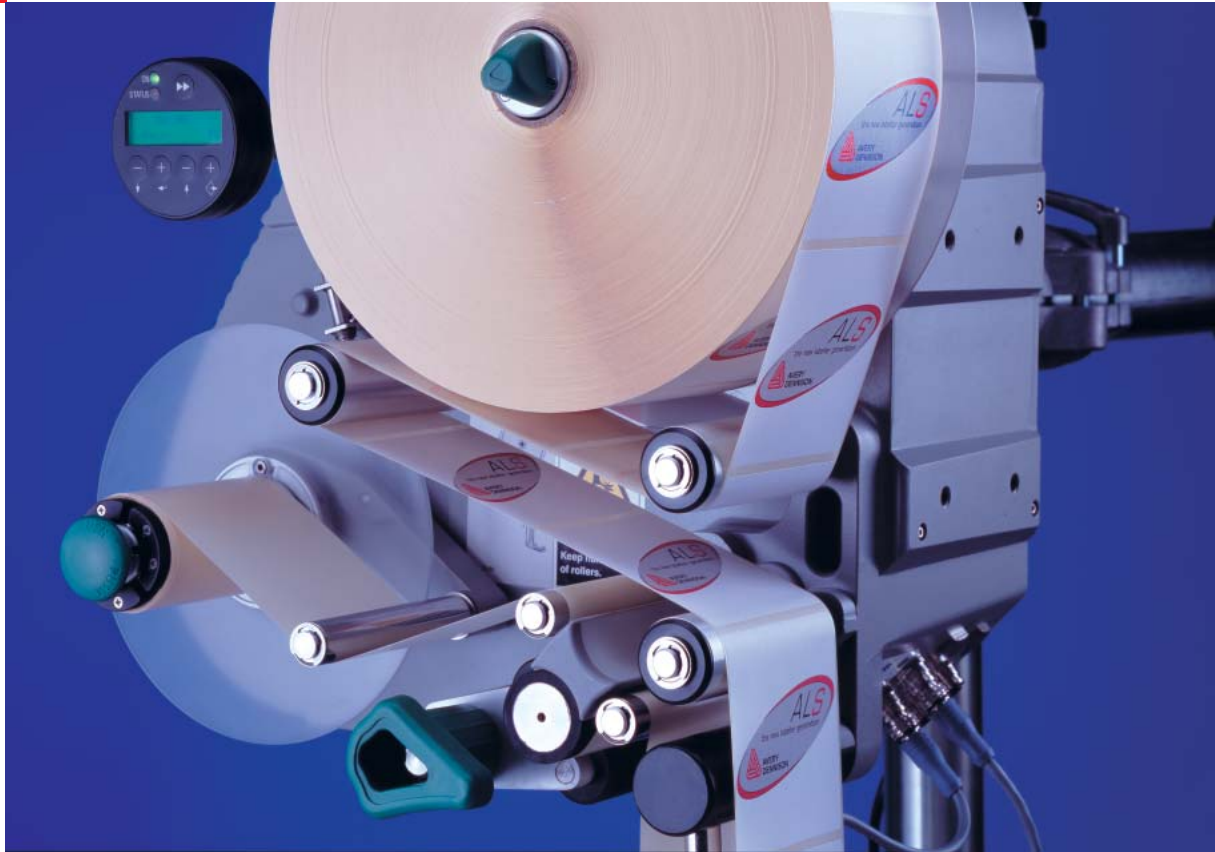
051790



The labelling units for your Product
Identification

051790

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 non-functioning 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

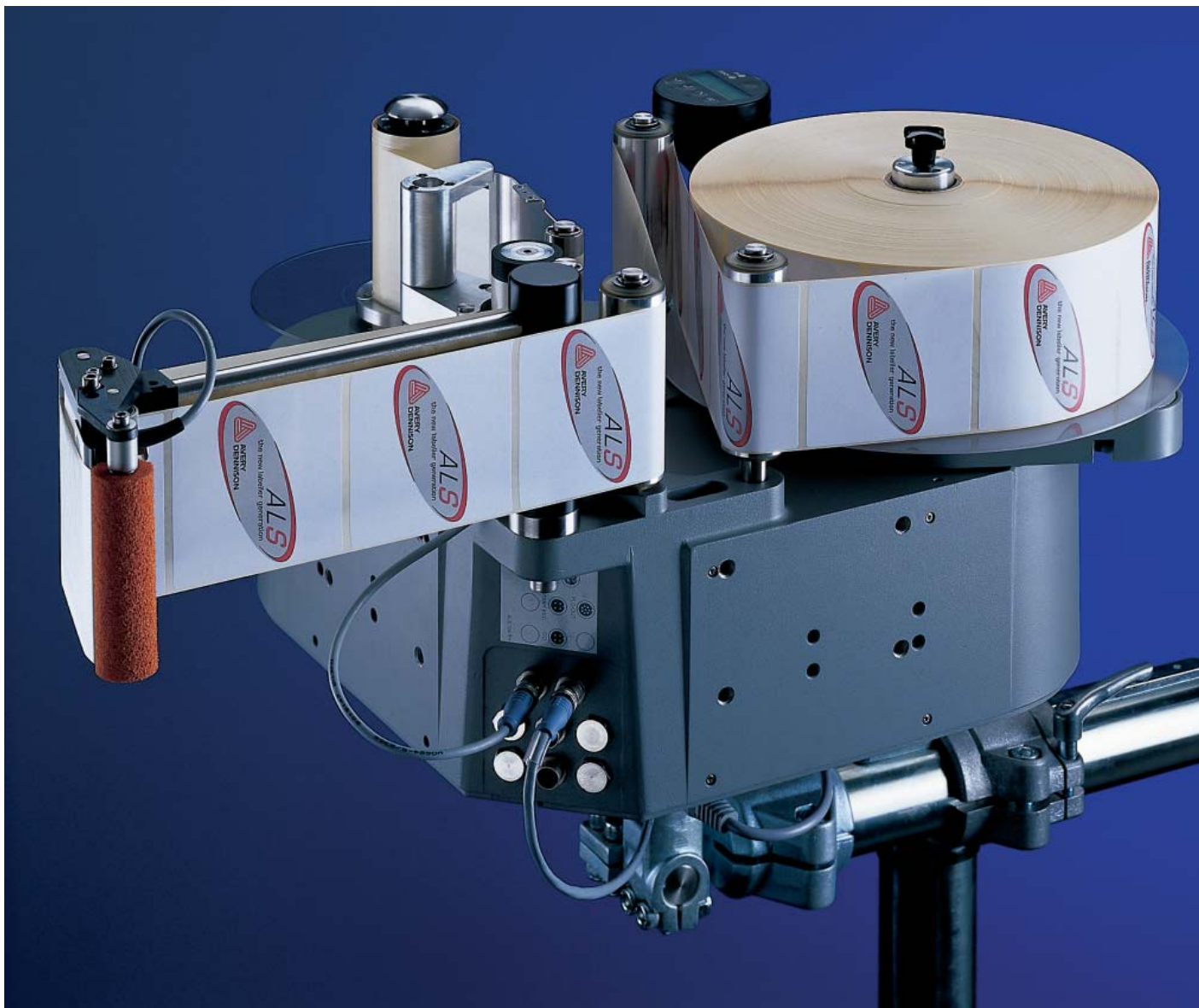
The brand new ALS 104 is the first Avery Dennison labelling unit in the compact class. Your benefits:

- ✓ 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 / 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-Kit, external OD sensor, different label sensors, external remote display, horizontal lead screw (for operator side adjustable)	

Specifications for ALS 20x RH/LH

Model:		204	206
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 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	
	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/per channel	
	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/ 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	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 edges, V-shape dispensing edges, adjustable fixture for dispensing edge, RFID-Kit*, IP-Kit, external OD sensor, different sensors and applicators, external remote display, horizontal lead screw (for operator side adjustable), tandem application		

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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