

Avery Dennison
Identification Solutions

Monarch
Intelligent Retail Solutions

Avery Dennison® Monarch® EcoCut™ Labeling System



www.monarch.com

The EcoCut design allows for the flexibility to produce a variety of label formats, messages, and sizes on demand all in one label roll, resulting in fewer stops for label changes. The thin liner used results in a decrease of waste handling. With these optimizations created with EcoCut, the new solution results in up to 50% more labels per roll and up to 40% reduction in labeling costs.



Avery Dennison® Monarch® EcoCut™ Labeling System

Omni-Channel Order Fulfillment done In-Store

With the significant rise in omni-channel, the concept of fulfilling ecommerce orders in the backroom of a retail store has become common. The Avery Dennison EcoCut Solution prints variable length labels, on demand, with one continuous label roll, making it an ideal solution for ecommerce order fulfillment. A store associate can print the packing slip label, the routing label, and the shipping label all from the EcoCut printer and never have to change the label roll.

Retail supply chain challenges with today's labeling solutions

Manufacturing and distribution centers are challenged with a number of inefficiencies with today's labeling solutions, such as: producing unnecessary white space on labels to fit a pre-determined standard size, printing millions of blank labels annually, and using label rolls with wasted liner space between each pre-cut label.

Now there is a better way.

The Avery Dennison ADTP2 EcoCut Solution: One printer for all labeling needs

The EcoCut Solution:

- Uses one continuous label roll in combination with an innovative printer cutting mechanism to

produce variable length logistics labels, on demand.

- Offers flexibility to print in either peel-and-present or in batch mode:
 - **Peel-and-present** - the label is face cut and ready for application while the liner is rerolled
 - **Batch mode** - multiple label formats and sizes can be printed at once with the liner intact for label application now, or later
- Eliminates waste, resulting in:
 - Significant Cost Savings
 - Increased Productivity
 - Improved Sustainability.

Cost savings

The EcoCut Solution is designed to reduce overall cost of labeling by up to 40%, due to:

- The use of exclusive economical material constructions
- Up to 50% more labels per roll means significantly less costs for label materials
- Reduction of overall consumption (no matrix waste, reduction in wasted white space on labels)
- Fewer SKUs required, results in a reduction in transportation, converting, purchasing, inventory and warehousing costs.

Increased productivity

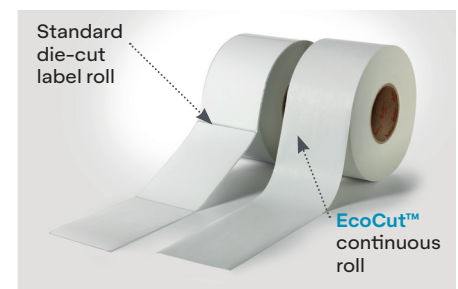
The design of the printer can produce a variety of label formats and lengths on demand all in one label roll. This helps increase productivity due to:

- Fewer stops for roll changes
- Thin liner results in a decrease of waste handling needs.

Improved sustainability

The EcoCut Solution is designed to reduce environmental impact by:

- Decreasing transport weight
- Reducing CO2 emissions
- Generating less volume of waste to landfills (due to thinner liner).



Specifications

Dimensions

Height: 12.25" (311 mm)
Width: 11.0" (279 mm)
Depth: 20.5" (521 mm)
Weight: 31 lbs. (14.1 kg)
Shipping Weight: 38 lbs. (17.3 kg)

Print Properties

Printing Method

Thermal Direct or Thermal Transfer

Printhead Width

4.09" (102 mm/812 dots)

Printhead Resolution

203 dpi (8 dots / mm) or 300 dpi (12 dots / mm)

Maximum Print Area

4.0" x 16.0" (102 mm x 406 mm) with the 203 dpi printhead

4.0" x 13.0" (102 mm x 330 mm) with the 300 dpi printhead

Larger images (up to 16 feet) can be printed using continuous supply and reallocating memory.

Print Speed

2.5 ips (64 mm/sec) – default for serial bar codes with narrow elements less than 3 dots
4 ips (102 mm/sec) – 203 dpi serial bar codes with narrow elements of 3 dots or greater
6.0 ips (152 mm/sec) – default for parallel bar codes, max for label peel and liner takeup
8.0 ips (203 mm/sec)

Sensing Methods

Edge: Die Cut, Black Mark, Aperture, Attacher Hole

Center: Die Cut, Black Mark, Attacher Hole

Operator interface

Keypad

5-button keypad control

Display

LCD Graphical Dot Matrix (128W x 64H dots). 2.54" (64.5mm) Wide x 1.46" (37.0 mm) High

Display Backlight

White (Idle), Green (Active), Red (Error)

Memory

SDRAM: 64 MB

Flash: 64 MB

Printer emulation

Languages

MPCL, MLI

Communications

USB 2.0 Device Port: 1 port, B Receptacle

USB 2.0 Host Port: 2 ports, A Receptacle

RS-232C Serial Port: DB-9F, DTE pin out, 115.2K baud max communications speed

Wired Networking

802.3u Ethernet, 10/100 Mbps, RJ-45 connector

Wireless Networking

Optional, 802.11 a/b/g/n dual band (2.4 GHz & 5 GHz), WPA2, 802.11i compliant

Real time clock

Real time clock: Standard

Bar code types

1-Dimensional

UPCA +2/+5, UPCE +2/+5, EAN8 +2/+5, EAN13 +2/+5, EAN128 Interleaved 2 of 5, Extended Code 39, Codabar (NW7), Code 128, Code 16K, Code 93, MSI, Postnet, Intelligent Mail, GS1 Databar

2-Dimensional

PDF417, MaxiCode, Data Matrix (ECC-200), Quick Response (QR Code), Aztec

Fonts

Standard Fonts

Bitmap – Standard, Reduced, Bold, OCRA-like, CG Triumvirate, and CG Triumvirate Bold TrueType® – EFF Swiss Bold Supports downloaded double-byte TrueType and bitmap fonts, allowing for international character sets

Font Magnification

1x to 7x

4 to 250 pt. for scalable/ TrueType™ fonts

Environmental

Operating Temperature

40° – 104° F (4° – 40°C) for Thermal Direct

40° – 95° F (4° – 35°C) for Thermal Transfer

Storage Temperature

15° – 120° F (–9° – 49°C)

Relative Humidity

5 – 90% Non-condensing

Power Source

90-264 VAC with auto select 50/60 Hz

Optional 24 VDC regulator

Power Consumption

62 Watts printing, 4 Watts (Sleep mode), Certified Energy Star Compliant

Warranty

Printer

One (1) year parts and labor. Full written warranty statement available on request.

Printhead

One (1) million inches or six (6) months, whichever occurs first.

Supplies specifications

Supply Types

Tags and Adhesive Labels (Paper or Synthetic) in roll or fanfold format
Perforated or continuous supply

Supply Width

EcoCut: 4.0" (101.6 mm), Die-cut: 0.75" – 4.25" (19.1 – 108.0 mm)

Supply Length (Indexed)

0.32" to 17.5" (8 mm to 445 mm)

Supply Roll Diameter

8.0" OD (203 mm) on 3" Core (76mm)

Typical Roll Length

EcoCut: 7,874' (200m)

Die-cut: 5,905' (150 m)

Ribbon Length

23,622' (600 Meters)

Ribbon Core

1" (25.4mm) plastic

Supply Thickness

4.0 – 13.5 mils (0.14 – 0.33 mm)

Our Monarch® Intelligent Retail Solutions improve efficiency, increase margins, reduce waste and enhance the consumer experience throughout the global supply chain.

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