

Walcom™ WM 500 Liquid Adhesive Detection System



Advanced technology detection system monitors adhesive deposition, increasing product quality and reducing waste.



The proper amount of adhesive applied in the correct location on your folding box, carton, corrugated blank, envelope or bag contributes to high productivity and superior product quality. The Walcom™ WM 500 Liquid Adhesive Detection System reliably monitors the adhesive deposition, even at high line speeds. It requires no adhesive additive. And the detection system can monitor adhesive deposition through the substrate.

The WM 500 can use up to four detection sensors for individual product, intermittent and continuous adhesive detection.

The easy-to-use menu is available in multiple languages, simplifying multi-language operator interface.

Reduce lost time, scrap and rework costs.

Inaccurate adhesive volume and placement result in poor product quality, rejects and scrap. Time spent identifying and reworking inferior product reduces productivity. The WM 500 can alert the operator before large quantities of poor-quality product are produced, saving time and money.

The system monitors the beginning, end and volume of the applied adhesive. It compares each product to all information and tolerance bands programmed into the system. Any adhesive deposition outside the tolerance bands displays an alarm and can trigger an external marking system, horn or light. An integrated 24 VDC power supply provides power through a dedicated plug, and RS 232 connection is available for external interface.

Monitor adhesive deposition easily.

Many other adhesive detection devices require a special additive that must be mixed with your adhesive, creating a messy, time-consuming task. In contrast, the WM 500 requires no special adhesive additive.

In addition, the Walcom liquid adhesive detector senses adhesive deposition even through the substrate. This feature permits adhesive detection after the product is folded.

Document product quality.

The WM 500 counts all products that fail to meet the programmed criteria. The system stores this data during production interruptions. An optional printer can document the product quality, providing you with an ISO 9000-certified production process.

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The WM 500 is available with optional printer, allowing you to document adhesive application quality easily.



The detection system requires no special adhesive additive. It can monitor adhesive deposition through the substrate.



The integrated WM 500 Liquid Adhesive Detection System and WM 408 Pattern Controller create a single adhesive application control center.

Features and Benefits

- The WM 500 integrates easily into your production line.
- The system detects individual product or continuous-web applications, providing you flexibility.
- The operator can calibrate the system easily with the push of one button.
- The detection system monitors the beginning, end and volume of applied adhesive, saving time and money while improving product quality.
- Optional printer reports accepted and rejected products for ISO 9000-documented shipments.
- Alarm interface for lamp, horn, kick-out devices, marking system or RS 232 connection can conveniently alert the operator when adhesive application deviates from tolerance bands.
- Sensing devices tolerate moderate dust build up, reducing maintenance.

Specifications

Maximum Test Capacity:

Resolution	1 mm (0.04 in.) ¹ 2 mm (0.08 in.) ²
1 sensor	1000 m/min (3333 ft/min) ¹ 2000 m/min (6666 ft/min) ²
2 sensors	500 m/min (1667 ft/min) ¹ 1000 m/min (3333 ft/min) ²
3-4 sensors	300 m/min (1000 ft/min) ¹ 600 m/min (2000 ft/min) ²

Shortest Measurable Bead Length:

Paper or folding carton	20 mm (0.79 in.)
Corrugated board	25 mm (0.98 in.)

Widest Measurable Glue Area:

Envelope, folding carton sensor	10 mm (0.4 in.)
Corrugated board sensor	25 mm (0.98 in.)
Bag and sack sensor	20 mm (0.8 in.)

Minimum Distance Between Measured Glue Application On Different Substrates:

	15 mm (0.6 in.)
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Number of Sensor Inputs:

4 (for single piece, intermittent and continuous substrates)

Other Inputs:

Encoder	15 VDC 1 impulse/mm resolution NPN output
Photocell	15 VDC NPN output
Machine contact	15 VDC NPN output

Outputs:

Alarm	1 output (for single error) 1 output (for series error) 1 output with 24 VDC, 1 A supplied power (for marking gun) 1 output (for marking non-powered)
RS 232	1 output

Notes:

1. Denotes 1 mm resolution
2. Denotes 2 mm resolution

Dimensions

Width:	343 mm (13.5 in.)
Depth:	290 mm (11.4 in.), 333 mm (13.1 in.) with handles
Height:	132 mm (5.2 in.), 148 mm (5.8 in.) with feet



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