

LM6000

IN LINE LAMINATING SYSTEM

FEATURES AND BENEFITS

Precision & Accuracy

- Sensor and guides accurately align material during lamination

Flexibility

- Various numbers and types of materials can be used

User-friendly

- Microprocessor control with the ease of keypad entry

PERFORMANCE

Linear Web Speed

- Up to 4 in/sec (100 mm/sec);
Typical 25 mm/sec

Lamination Roller Pressure

- 0 - 40 PSIG

Lamination Tolerance

- $< \pm 0.01$ in (0.25 mm)

Linear Take-up Reel

- Max OD 8.0 in (200 mm)



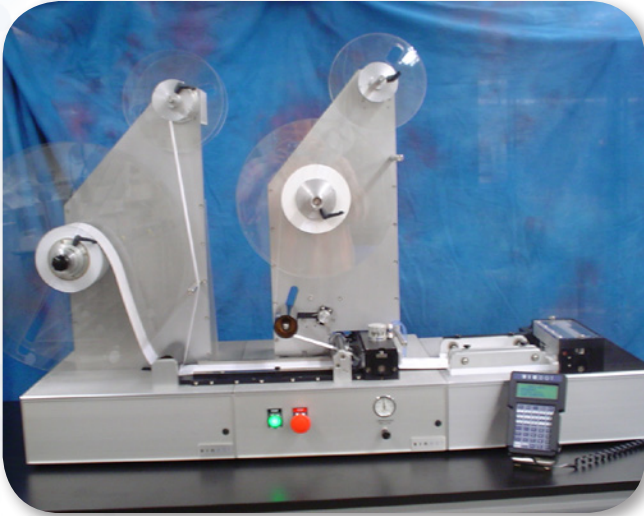
The LM6000 provides continuous lamination of materials onto a plastic support backing with adhesive. Typical applications would be lamination of rapid diagnostic test strips or urine dip sticks.

The Automated Laminating system is a modular design to accommodate various numbers and types of materials. Each material is fed from adjustable spindles through guides and under a pressure roller to assure complete adhesion to the plastic support backing. The system provides the ability to individually remove kiss cut adhesive liners for individual laminate materials. For fragile materials like nitrocellulose, alignment is controlled through automated tracking. After lamination the materials can either be cut and stacked in a collection chute or rewound onto a take-up reel.

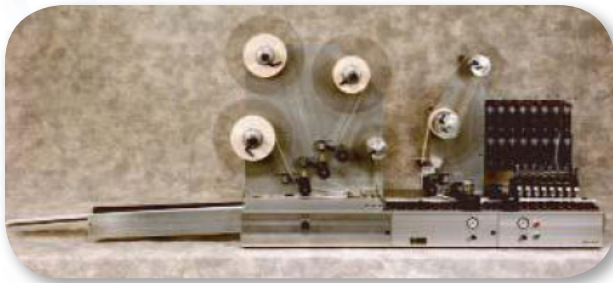
Other process steps such as dispensing, slitting, punching and inspection can also be integrated into the system. For materials that are not available or cannot be processed in roll formats, a magazine feeding system has been designed.

Magazines for feeding the plastic support backing as well as more fragile materials are available. The system can also be partially or completely enclosed for control of the manufacturing environment.

LM6000 IN LINE LAMINATING SYSTEM



Laminating System configured with a Guillotine Module.



Laminating System configured with a Dispensing Module.

OPTIONS

- Dispense Modes
 - Front Line Quanti
 - AirJet Quanti
 - BioJet Quanti
- Cutting Modules
- Slitting Modules
- Inspection Stations
- Punching Modules
- Environmental Enclosures

SPECIFICATIONS

Dimensions (L x W x H)

- 9 in x 22 in x 40in (configuration dependent)

Weight

- ~ 1047 lb (476 kg) (configuration dependent)

Power Requirement

- 110/220 VAC; 50/60 Hz (for all models)

Air Requirement

- Air Supply: 0 - 90 psi
(when AirJets & Capstan are configured)

DISPENSING SPECIFICATIONS

Dispensers

- Up to 8 in any combination

Membrane Width

- **Minimum:** 0.20 in (5 mm)*
- **Maximum:** 3.85 in (98 mm)

**Material dependent.*

Linear Web Speed

- Up to 4 in/sec (100 mm/sec);
Typical 25 mm/sec)

Web Tracking

- SD of ± 0.25 mm on dispense tracking;
Typical SD ≤ 0.1 mm

MATERIAL SPECIFICATIONS

Plastic Backing

- Width up to 100 mm
- Reel Core 3.0 in (35 mm), 6.0 in
- Reel OD 18.0 in (460 mm) max

Lamination Webs: 13 - 100 mm width

- **Reel Core:** 3.0 in (75 mm)
- **Reel OD:** 12 in or 16 in max