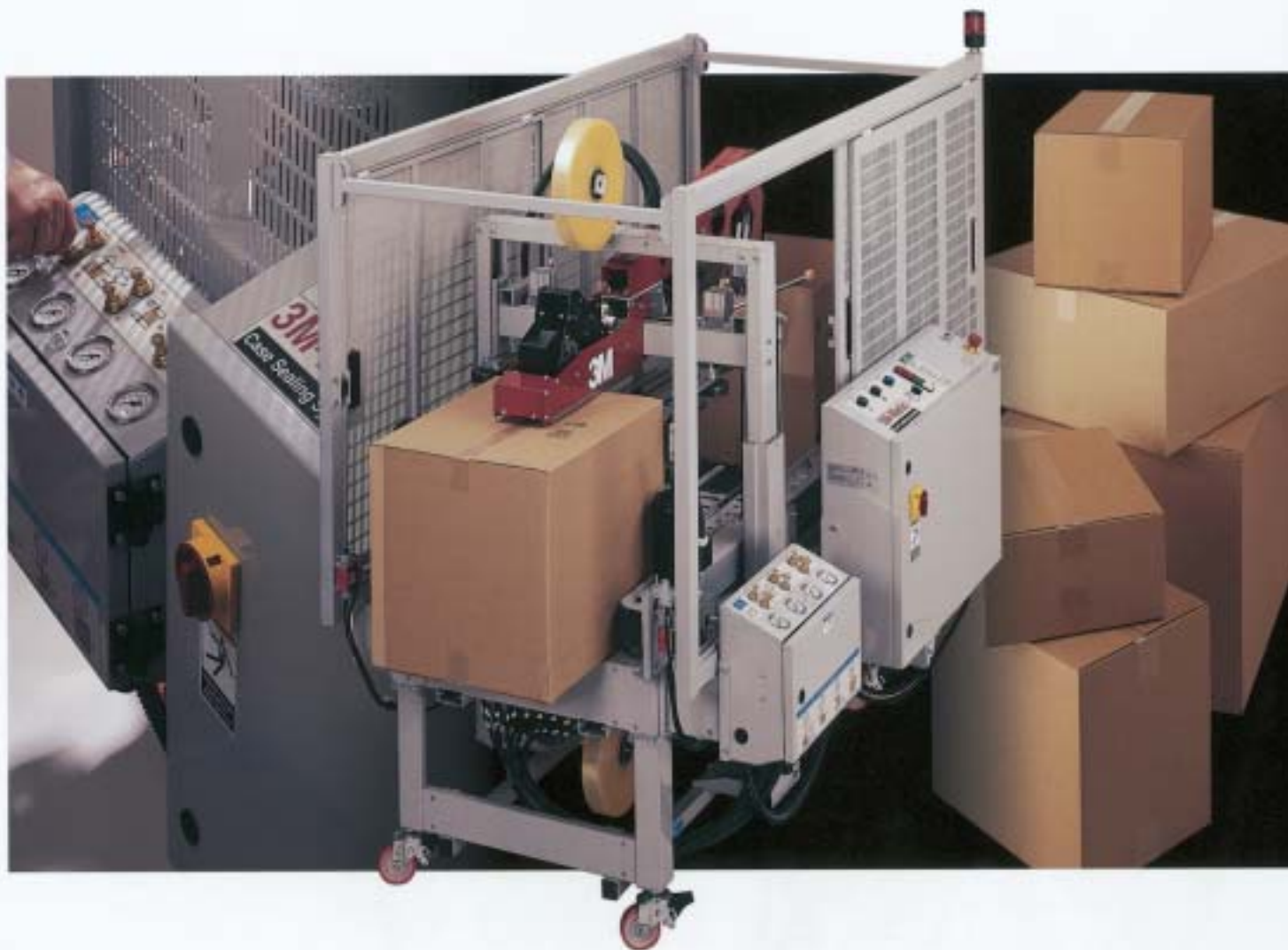




# 3M-Matic™

## Fully Automatic Random Case Sealer 800rf

*Accurately indexes and seals random size cases.*



# 3M-Matic™ Fully Automatic Random Case Sealer 800rf for consistent flow and sealing without an operator.

The 3M-Matic™ Fully Automatic Random Case Sealer 800rf has sensors to provide input to a PLC (Programmable Logic Controller) that automatically adjusts the machine for various case sizes. The 800rf separates cases from a flooded line, folds the upper flaps, and seals the cases while the operator is free to work elsewhere. Sizes can be random within the following ranges:

- Length 8-24" (203-610mm)
- Width 5.5-20" (140-508mm)
- Height 6-20" (152-508mm)

Case rate is up to 8/minute.

## Other features of the 800rf include:

- Pneumatic rear flap folder and two rods for major flap folding provide smooth positive flap folding and assembly.
- Machine can be ordered with control cabinets on the left or right side.
- Automatic shut-down if a jam occurs.



*Perforated sheet metal shields allow visibility during operation and slide open for access. For safety, the 800rf will not operate with the shields open.*

## Three operating modes

With the manual selector switch, an operator can choose one of the following:

1. Random – Considered the standard mode, the case sealer automatically adjusts for case size, sealing top and bottom.
2. Fixed – Case sealer runs multiple cases of the same size, sealing top and bottom.
3. Bypass – Random size boxes are conveyed through the case sealer with tape applied only to the bottom flaps. Top flaps are not folded or sealed.

## 3M™ AccuGlide™ II Curvilinear Tape Head

- Tape is applied with a low impact controlled sweeping motion to help protect cases and maximize system life. Cases are securely and precisely sealed.



- Conforming buffing roller and brush compensate for case variation.
- Friction brake drum and constant tape tension roller help assure consistent tape cutting and application.



*Self-centering laced side belts grip cases for positive drive and consistent tape application.*



**Frame-mounted top tape roll**

- Adjustable friction brake drum.
- 15.5" [390mm] tape roll diameter capacity.

**Patented 3M™ AccuGlide II Taping Heads**

- Easily installed and removed for cleaning and maintenance.
- Provides positive tape starting and precise tape application.
- Built-in blade oiler helps prevent adhesive buildup.
- 3-year head warranty and 90-day warranty on knife blades, springs, and rollers.

**Top flap compression rollers for tighter seal**

**Side-drive belt assemblies convey the box through the case sealer**

- Belt speed 90 feet per minute (.45 m/s).

**Functional industrial design**

- 16 gauge (1.5mm) formed steel frame, robotically welded.
- Tough epoxy paint.

**Graduated inner legs for convenient, precise bed height adjustment**

**Bottom tape roll**

- Adjustable friction brake drum.
- 15.5" [390mm] tape roll diameter capacity.

Local and nationwide service available

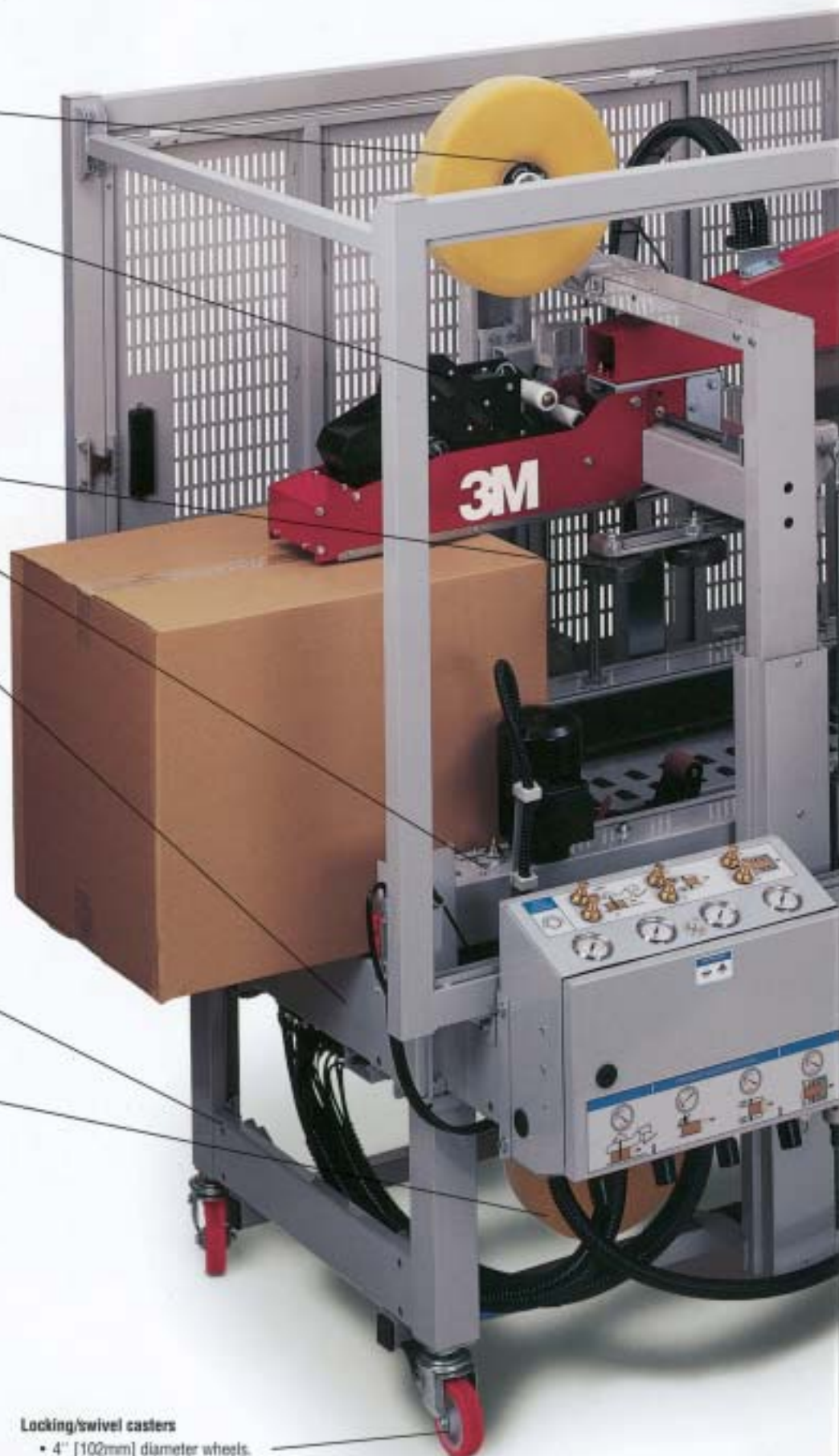
Operators manual and tool kit included

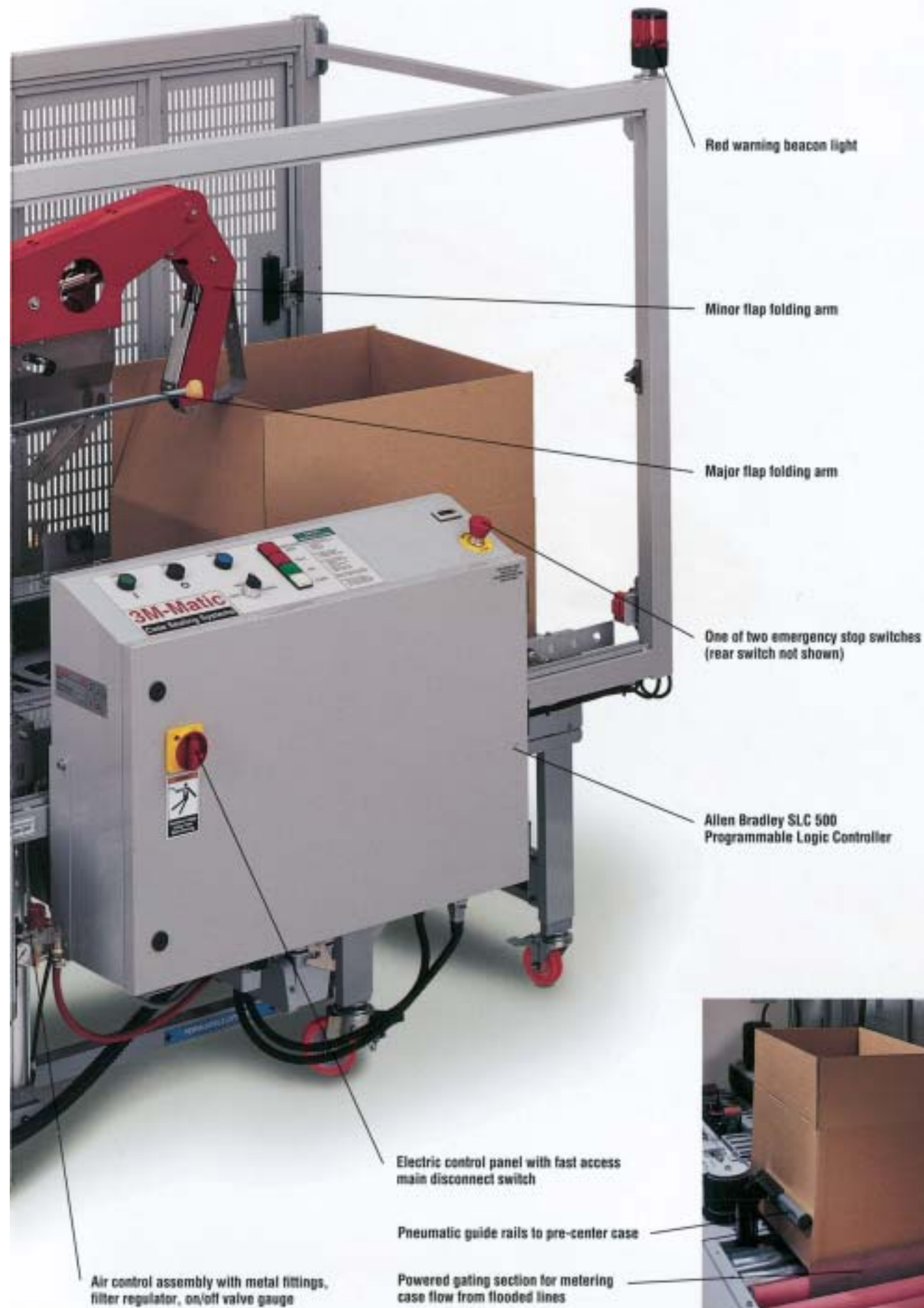
Instructional and safety labeling

*NOTE: Unit at right shown with doors removed for illustration purposes only.*

**Locking/swivel casters**

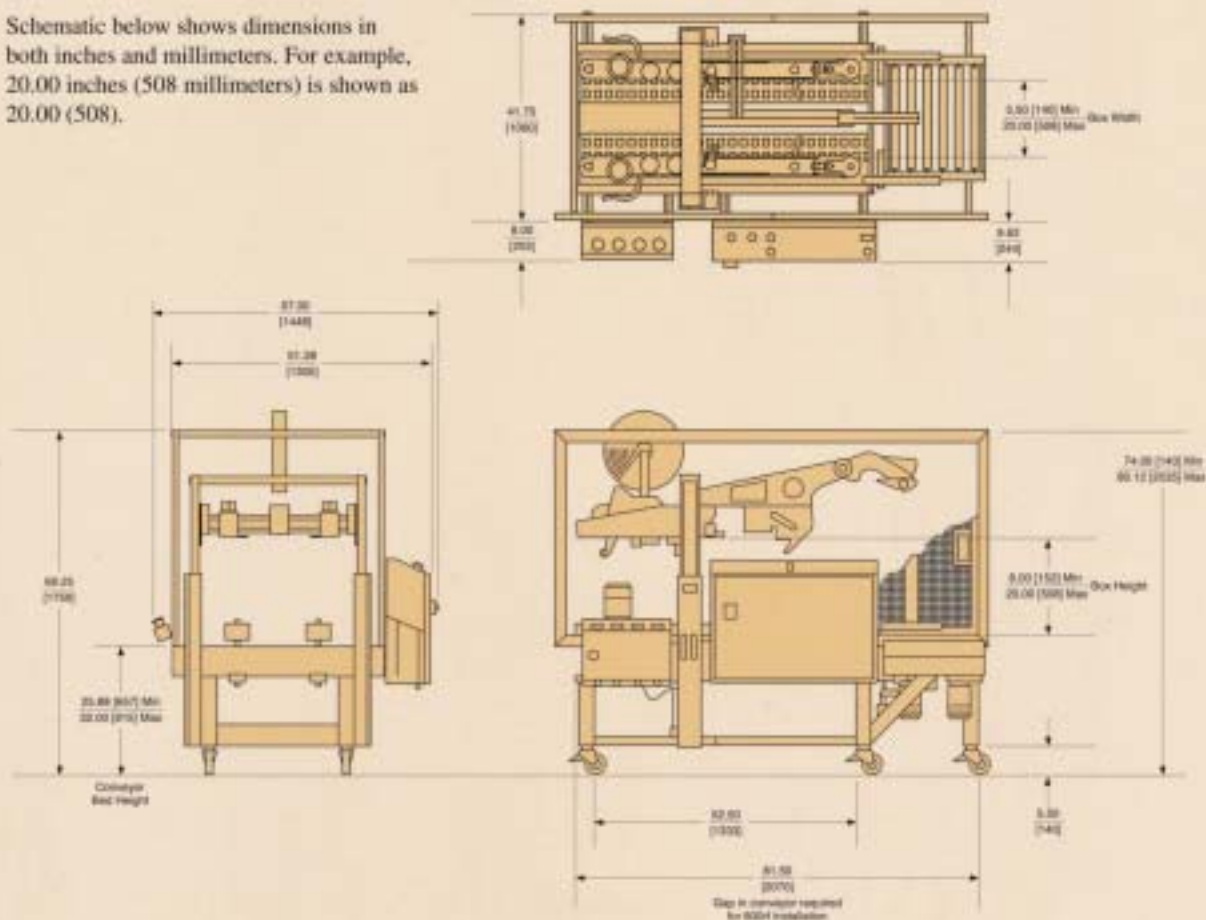
- 4" [102mm] diameter wheels.



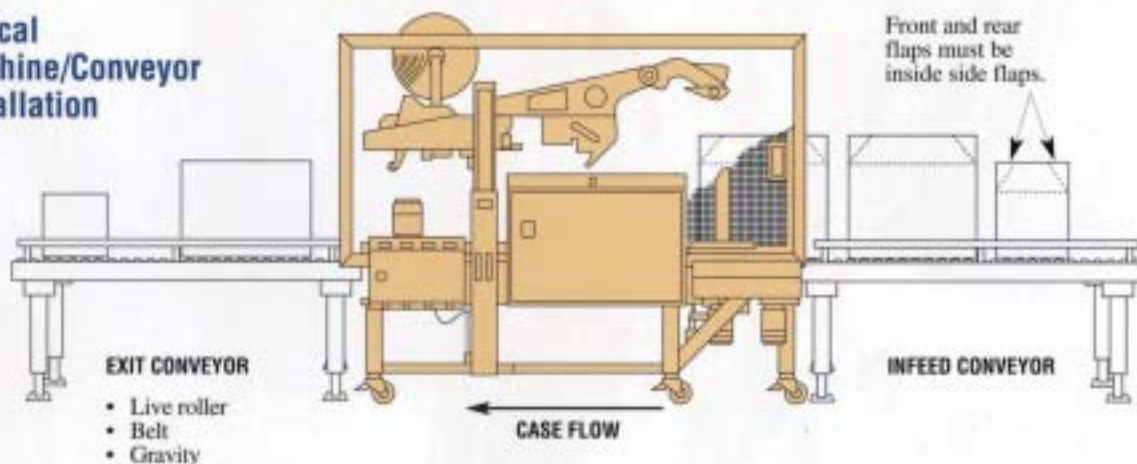


## Machine Dimensions

Schematic below shows dimensions in both inches and millimeters. For example, 20.00 inches (508 millimeters) is shown as 20.00 (508).



## Typical Machine/Conveyor Installation



### Notes:

- Case sealer must be installed level.
- A powered accumulation infeed conveyor brings cases to the sealer at a maximum speed of 60fpm (0.30 m/s).
- Exit conveyor to positively take boxes from end of sealer.
- Infeed/Exit: exit conveyors must provide straight and level case transfer to/from the sealer.



# 3M-Matic™ Fully Automatic Random Case Sealer 800rf

## Specifications

### Box:

Boxes must meet the current FBA/PMMI voluntary standards for RSC (Regular Slotted Containers). All boxes must be test run to insure satisfactory machine performance.

**Burst Test:** 125 to 275 psi, single wall, A, B or C flute.

### Outside Box Dimensions:

**Length:** 8" (203mm) minimum,  
24" (610mm) maximum.  
**Width:** 5.50" (140mm) minimum,  
20" (508mm) maximum.  
**Height:** 6" (152mm) minimum,  
20" (508mm) maximum.

**Note:** The 3M-Matic Fully Automatic Random Case Sealer 800rf can accommodate most boxes within the size range listed above. However, if:

$$\frac{\text{Box Tape Length in Seal Direction}}{\text{Box Height}} \text{ is less than } .6$$

there may be a problem in conveying.

**Box Weight Capacity (filled):** 65 pounds (29 kg) maximum; approximately 5 pounds (3 kg) minimum.

**Packing:** Contents must be heavy enough to hold box flat on conveyor bed with bottom flaps fully closed. Contents must support top flaps and not extend beyond the top flap score line. Foam peanuts or other light weight dunnage may cause problems.

**Sample Testing:** Machine performance is guaranteed only when customer sample cases have been filled and test run prior to order placement.

### Tape:

Scotch® pressure sensitive box sealing tapes.

**Width:** 1.5" (36mm) minimum to 2" (48mm) maximum.

**Roll Diameter:** Up to 15.5" (394mm) maximum on a 3" (76.2mm) diameter core.

Model 800rf-3 Case Sealer offers 3" (72mm) wide upper and lower 3M™ AccuGlide™ taping heads for tape widths from 2" (48mm) to 3" (72mm).

### Machine Specifications:

**Horsepower per motor:** 0.18 hp (.12 kw)

**Electrical:** 208 to 240V AC, 50/60 HZ, 3.6A, 5.5 Amps, 3-phase, 11' (3.3mm) power cord supplied without plug. Customer supplies wiring connections to meet plant/local electrical requirements.

**Pneumatic:** 100 PSIG (6.5 BAR) gauge pressure, 7.0 SCFM (11.89 m<sup>3</sup>/h 21°C, 101 kPa) maximum at maximum cycle rate.

**Weight:** Approximately 1130 lbs (513 kg) uncrated.  
Approximately 1200 lbs (544 kg) crated.

**PLC (Programmable Logic Controller):**  
Allen Bradley SLC 500 (factory programmed.)

### Operating Rate:

Up to 8 cases per minute depending on case size and mix. Belt speed 90 FPM (.45 m/s).

### Operating Conditions:

- A. Use in dry, relatively clean environments.
- B. Temperature: 40° to 120°F (5° to 50°C) with clean, dry boxes.
- C. Machine should not be washed down or subjected to conditions causing moisture condensation on components.