

PRO-PAL[®] MINI

LOW LEVEL PALLETIZING SYSTEM

Priority One



PRO-PAL[®] MINI Low Level Palletizer

Compact and full featured for maximum productivity

The **Pro-Pal[®] Mini** from Priority One is a compact, full-featured, low level palletizing system designed to palletize products efficiently with minimal operator attention. Operating on-demand, the **Pro-Pal[®] Mini** orients products into pre-programmed layer patterns and builds loads at speeds up to three layers per minute. **Pro-Pal[®] Mini** systems are modular allowing for multiple system configurations.

The unique, compact design of the **Pro-Pal[®] Mini** allows packagers to maximize productivity using minimal floor space. In a typical U-Shaped configuration, the entire **Pro-Pal[®] Mini** system occupies a mere 176 sq. ft. from infeed belt to discharge station. The system is especially well suited to multi-shift operations where manual palletizing is done, or where “robot” palletizing is being considered.

The **Pro-Pal[®] Mini** has been specially designed to provide years of trouble-free service, requiring minimal maintenance. The heavy duty construction

and advanced features make the system ideally suited to continuous production environments. The single tower which supports and transports the layer plate is constructed of heavy duty 3/8” structural steel; it never lifts more than the weight of one layer at a time. Hollow bore drive units reduce unnecessary wear of critical bearings and guides by eliminating drive train backlash on stop/starts and forward/reverse movements.

The control devices throughout the machine incorporate the latest non-contact sensors and hardware. The programmable controller facilitates on-demand operation by monitoring the presence/absence of products and pallets with proximity switches and photo-eyes.

Built in Canada, with keen attention to quality throughout, the **Pro-Pal[®] Mini** has been designed to deliver years of low maintenance, trouble free operation.



The pallet dispenser feeds empty pallets to the system automatically.



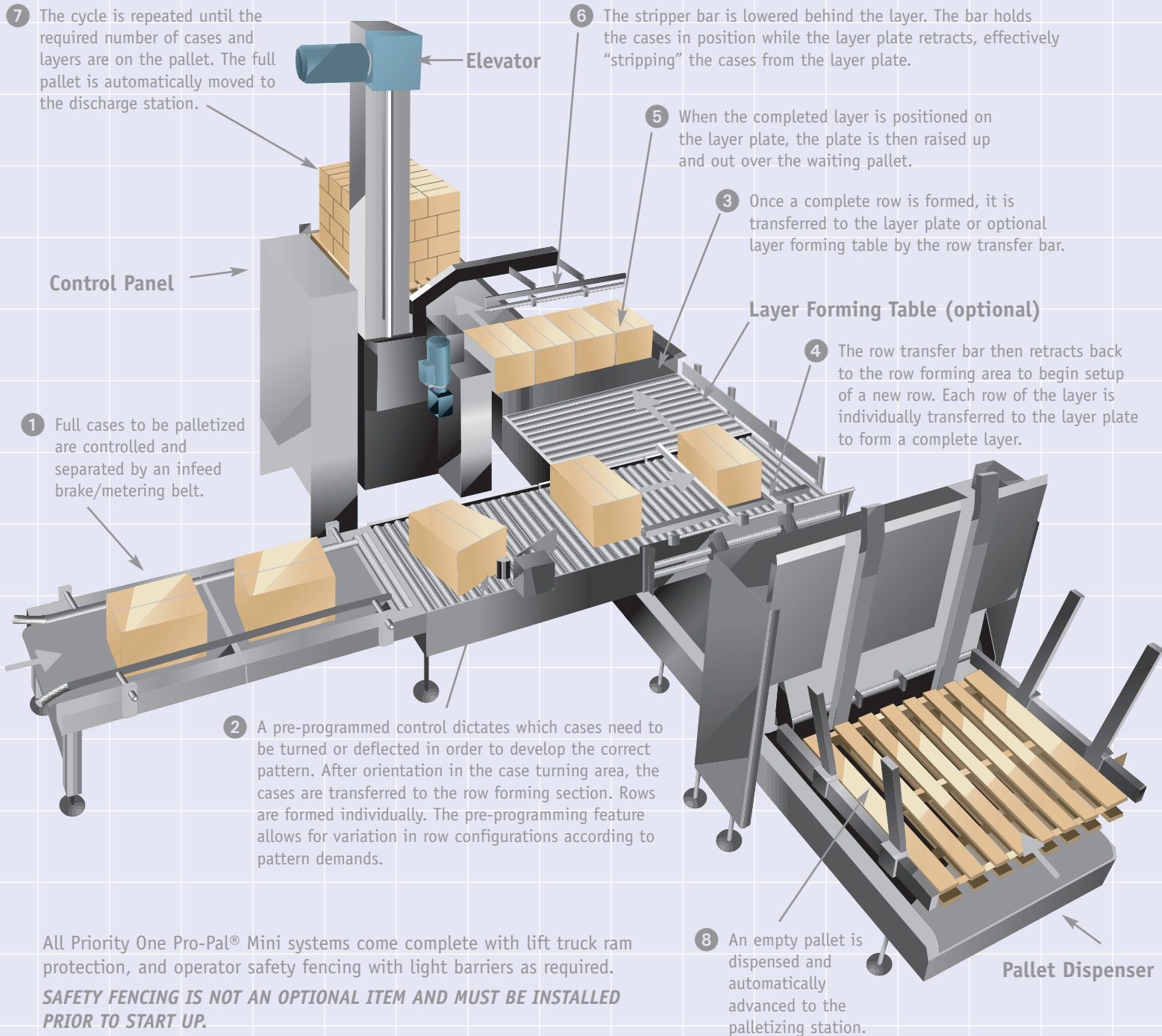
A pre-programmed control determines which cases need to be turned or deflected for pattern formation.



Priority One's Pro-Pal[®] Mini stripper bar with landing gear, for handling small cases and shrink wrapped trays.



Layers are transferred to the load one at a time... minimizing wear and tear on the system.



Engineered For Continuous *Hands-Free* Operation

All individual operations – case infeed, case turning, row forming and pallet advancement – run simultaneously. This feature significantly reduces idle time, thereby achieving maximum palletizing capacity.

The automatic cycling events are interrupted when material flow is disrupted. These instances may include absence of a case,

absence of an empty pallet, or full pallet back up at the discharge of the machine. The machine automatically resumes operation as soon as the obstruction to material flow is corrected.

In this regard, the **Pro-Pal® Mini** is truly an on-demand system, automatically compensating for interruptions in case supply or full pallet pick up.

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PRODUCT SPECIFICATIONS

STANDARD FEATURES

- Single tower with cantilevered layer plate
- Infeed brake/meter belt
- Automatic case turning and row forming stations
- Pre-wired panel
- Operator interface
- Variable frequency drives on lift and carriage motors
- Safety fencing

CAPACITY

- 3 layers per minute, including pallet change
- 450 lbs. per layer @ full speed

POWER

- 230/460/575 volt electrics
- 120 volt 1-phase 60 Hz control circuitry

AIR

- 1 cfm @ 80 PSI (depending on application)

DRIVE MOTOR

- Eurodrive gear motors

MATERIAL AND FINISHES

- Heavy-duty steel plate construction
- "Steel-it" enamel paint finish construction

MACHINE DIMENSIONS

- Pro-Pal[®] Mini systems have been engineered to be configured to most any individual specification.

WEIGHT

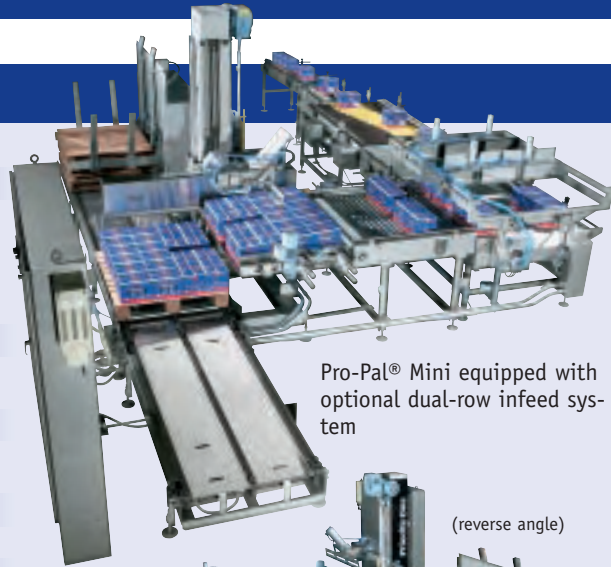
- Approximately 6,200 lbs. (2,800 kg)

CHANGEOVER TIME

- Five minutes for a single operator

OPTIONAL EQUIPMENT

- Automatic pallet magazine
- Driven pallet conveyor section
- Gravity roller discharge
- Automatic rotary tier sheet inserter
- Automatic slip sheet insertion
- Layer plate load squaring
- Remote operator console
- Open flap detection
- Lift truck ram protection
- 90° case infeed
- Floor palletizing
- Additional options available on request

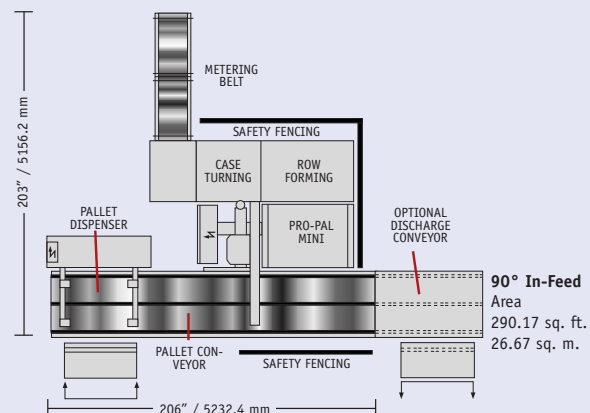
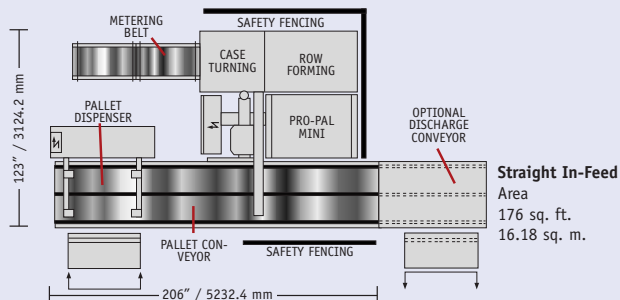


Pro-Pal[®] Mini equipped with optional dual-row infeed system



(reverse angle)

COMPLETE SET UP AND TESTING OF EQUIPMENT IN PRIORITY ONE'S FACILITY. A TEST RUN WILL BE PERFORMED FOR EACH PRODUCT SUPPLIED BY THE CUSTOMER.



Priority One

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