

PRO-PAL MULTIPAL PALLETIZING SYSTEMS



Fully automated systems for palletizing up to eight production lines using a single palletizer



Priority One's Rotary Multi-Line systems require only 1.5 layers of case accumulation per production line. This dramatically reduces case conveyor requirements, as well as, the associated capital and maintenance costs.

The "low-level" palletizer design allows the pallets to remain at floor level while the palletizer loads products on the pallets layer by layer. By positioning multiple pallets on the rotary system, a single palletizer can palletize the output of multiple production lines. This allows packagers to realize maximum productivity from a minimal floor space investment.

Priority One's Rotary Palletizing Systems consume less floor space, are more flexible, and require less maintenance than any other multi-line system available to the packaging industry today.

The Priority One Rotary Multi-Line palletizing system is designed to palletize products from 4 to 8 production lines simultaneously using a single palletizer. The palletizer handles a wide range of products. The products to be palletized can be packed in different size cases, can be formed into different layer patterns and can be palletized onto **different** size and style pallets. The system operates on demand and essentially unattended.



Low Level Rotary Multi-Line Palletizing System with tow pallet magazines, automatic slip sheet inserter, triple level infeed, and five station rotary.

PRO-PAL MULTIPAL PALLETIZING SYSTEMS



Providing years of performance and increased productivity

Priority One's Shuttle Car Multi-Line systems require only 1.5 layers of case accumulation per production line. The Shuttle Car system, can handle the output of up to five production lines. The products to be palletized can be packed in different layer patterns and can be palletized onto different size and style pallets.



The Shuttle Car system consists of a heavy duty, welded steel track positioned in front of the palletizer mainframe, on which two to five shuttle cars can be mounted. The shuttle cars are driven by a variable frequency drive to provide smooth and rapid motion and insure maximum pallet load stability as the shuttle cars glide back and forth during the loading process. Empty pallets are automatically loaded onto the shuttle cars from single or multiple pallet magazines.



Shuttle Car Features

- Heavy duty welded steel shuttle cars capable of 2 to 5 pallet positions, depending on requirements.
- Shuttle cars mounted on a heavy-duty rail system.
- VFD controlled bi-directional motions provide stable product movement and accurate shuttle car indexing.
- Can run unit loads.
- Completely modular in construction.
- Case conveyor requirements are reduced due to single layer placement.
- Pallets load from a single pallet loading position.
- Additional pallet magazines can be added if more than one pallet size or style is to be handled.
- Can be equipped with up to four case infeed sections (at four different elevations).
- Multiple case infeeds enable the entire system to run at a higher case rate, while actually slowing the speed at which the individual cases are handled in the layer forming process, significantly reducing risk of case damage.

PRO-PAL MULTIPAL PALLETIZING SYSTEMS



Priority One® Multi-Line Palletizing Systems offer a full range of benefits

- Can handle a variety of different products including display packs, shrink wrap trays and bundles.
- Flexibility to palletize multiple lines on a single palletizer.
- Efficient design enables packagers to centralize the palletizing function while consuming a minimum amount of floor space.
- Systems require only enough case conveyor accumulation for 1.5 layers of product form each line.
- Since all operations (i.e. metering, row forming, layer forming, pallet positioning, etc.) are performed simultaneously, idle time is reduced.
- Only lifting one layer at a time not the entire load.
- Servo driven lift and carriage available.
- Bottom layer support, no vacuum needed.
- Mixed loads capability.
- All systems operate on demand, requiring only casual operator attention.
- Suited for applications where individual palletizers cannot be justified at the end of each production line because of low volumes or low labor costs.
- Spreads the system cost over multiple lines, and enables the use of a single pallet dispenser, slip-sheet inserter, tier sheet inserter, etc. to reduce palletizing cost per line.
- System discharges at one point, allowing use of a single stretch-wrapper, automatic pallet tagging, and reduced lift/clamp truck travel.



Multiple Infeed Advantages

- Form up to four different patterns simultaneously, while reducing the speed at which the process occurs, enabling pattern formation to be done at production line speeds.
- System throughput is quadrupled without increasing the rate at which the individual cases are handled.
- Handle up to four production lines with a dedicated layer forming table for each line, requiring no case accumulation upstream.
- Stacking the layer forming tables vertically eliminates the need for accumulation conveyors and conserves valuable floor space.
- Reduced wear and tear on the equipment, reduces preventative maintenance requirements and ensures that no case damage occurs as the individual layers are formed.
- Minimized project cost and reduced future maintenance requirements.



Additional pallet magazines can be added if more than one pallet size or style is to be handled.



The optional automatic slip sheet inserter can be added at any time.

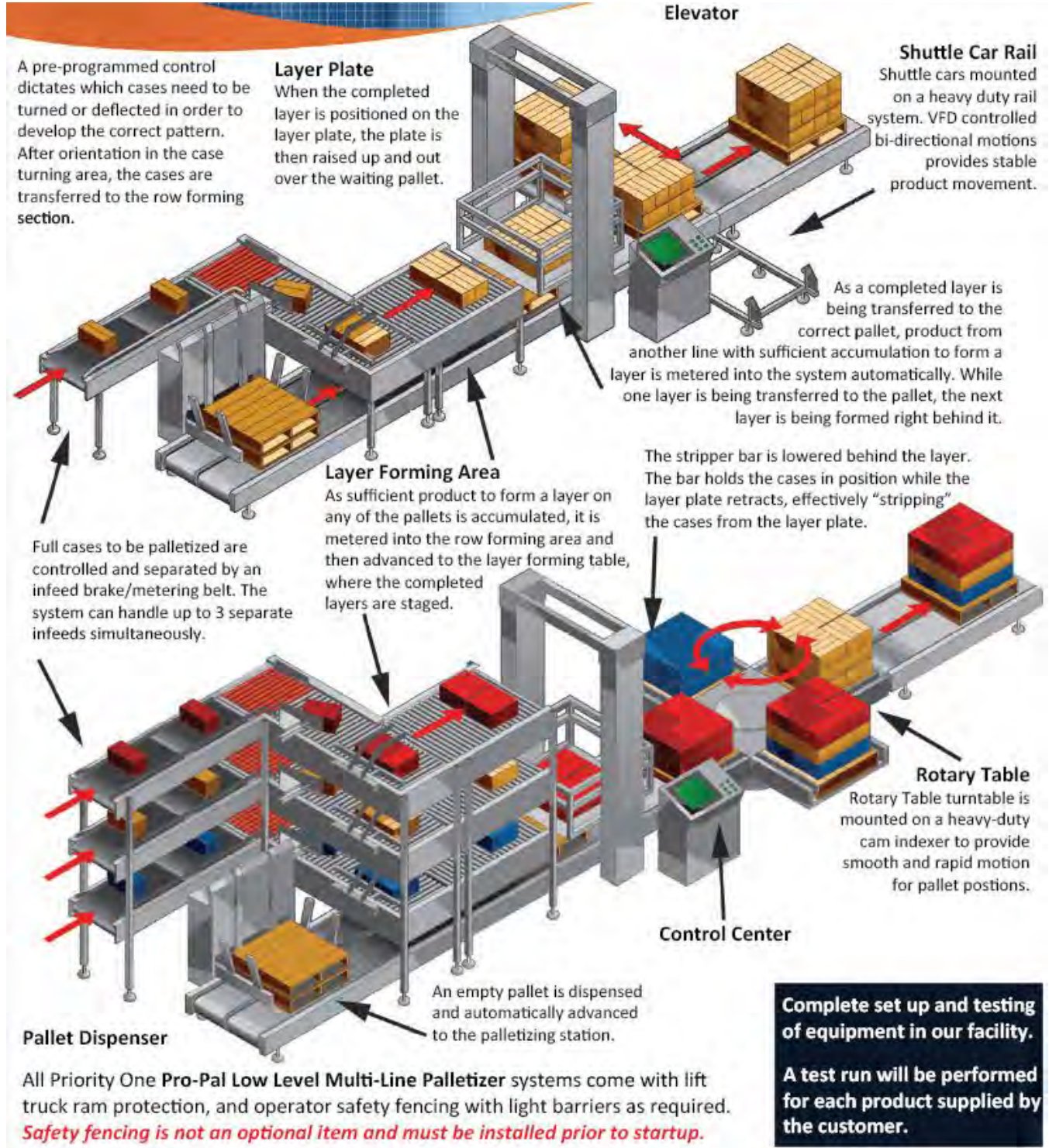


Rotary turntable is mounted on a heavy-duty cam indexer to provide smooth and rapid motion for 4, 5, 6 or 8 pallet positions.



Shuttle cars mounted on a heavy duty rail system. VFD controlled bi-directional motions provide stable product movement for 2, 3, 4 or 5 pallet positions.

PRO-PAL MULTIPAL PALLETIZING SYSTEMS



All Priority One Pro-Pal Low Level Multi-Line Palletizer systems come with lift truck ram protection, and operator safety fencing with light barriers as required. *Safety fencing is not an optional item and must be installed prior to startup.*

PRO-PAL MULTIPAL PALLETIZING SYSTEMS



STANDARD FEATURES

- Heavy duty construction
- Dual tower design with cam driven layer plate
- Infeed conveyor system
- Automatic row forming stations
- Pre-wired control panel
- Operator interface
- Variable frequency drive on the lift and carriage motors
- Safety fencing

CAPACITY

- Over 100 CPM with multiple infeeds.
- *actual speed dependent on case size, pattern and equipment configuration.*

POWER

- 230/460/575 volt
- 24 VDC control circuitry

AIR

- 3 cfm @ 80 PSI (depending on application)

DRIVE MOTOR

- Eurodrive gear motors

MATERIAL AND FINSHES

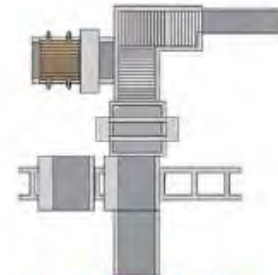
- Heavy-duty steel plate construction
- Steel-it color match

MACHINE DIMENSIONS

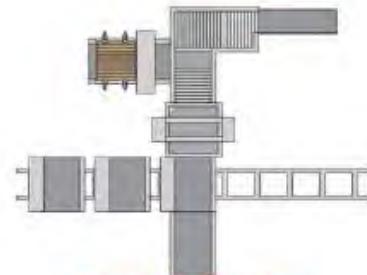
- Multi-Line Palletizer systems have been engineered to be configured to most any individual specification.

OPTIONAL EQUIPMENT

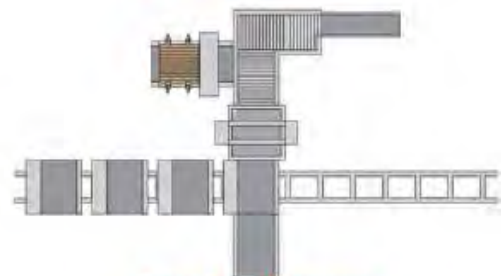
- Multiple level infeeds
- Automatic pallet magazine
- Driven pallet conveyor sections
- 90° empty pallet transfer
- Pallet turntable
- Automatic slip sheet inserter
- Automatic rotary tier sheet inserters
- Stretch wrapper
- Open flap detection
- Special tower height
- 90° case infeed



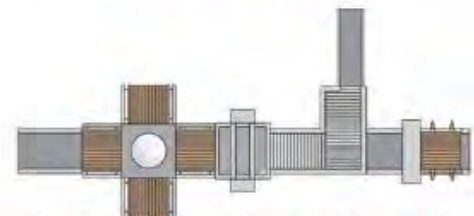
2 Car Shuttle System



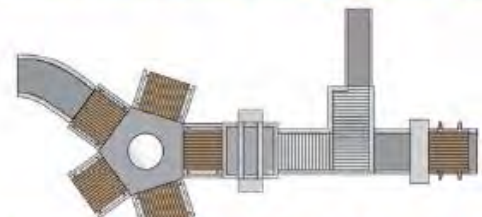
3 Car Shuttle System



4 Car Shuttle System



4 Position Rotary System Turning Diameter 14' 1"



5 Position Rotary System Turning Diameter 16'