

IN-LINE

Packaging Equipment, Inc.

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Half-Stack Semi-Automatic Depalletizer

Operational Summary:

Half-stack pallets are placed into the depalletizer frame using a forklift or pallet jack. Once inside the frame, the operator will cut and remove the shrink wrap, exposing the top layer of bottles. An operator interface will allow the user to start the process, and the pallet will be raised to the correct level so that the base of the top layer is level with the feed table. A motorized pusher bar will engage and push bottles out onto the feed table, starting and stopping as bottles are needed. Bottles will transfer out onto the feed table, and from there be fed onto the right-angle conveyor. The table, conveyor and pusher belt turn on and off automatically based on a downstream photoeye indicating the need for bottles. If the line is full the system waits until bottles are needed and then restarts.

Once the layer on the feed table depletes, the pusher bar will retract back to the home position, and wait for the operator to take the divider between layers off. When the operator presses the resume button, the platform unit will raise to the next level and resume feeding bottles. After the final layer is depleted, the platform will lower back to the ground and the empty pallet be removed and a new pallet positioned. A standard layer contains 440 bottles for the normal 12 ounce (330 ml) size. Run time for each layer is between 10 and 15 minutes. Unloading time for each layer (average time to raise the pallet, push the layer) is less than 1 minute, so the operator should be available for other tasks.

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Features

- Includes decline conveyor to adjust from 46" conveyor table height down to 32" at lowest. Height is infinitely adjustable.
- Includes 4' x 5' feed table and pusher belt to prevent bottle jams.
- Table and pusher bar start and stop automatically based on photoeyes to detect amount of bottles.
- 3-color stack light alerts personnel when level is complete or pallet is complete with solid or flashing conditions.



Options

- 48" long Rinser tunnel is mounted in place of the decline section of the conveyor to invert, rinse, blowout, and re-invert the bottles.



Specifications

- Production rates up to 100bpm based on standard 12 ounce bottles.
- Uses 220-230 VAC single-phase electricity, 10 amps
- No compressed air is required unless tunnel rinser option is included.