

Can End Manufacturing Automatic Tray Load/Unload Storage System



Pictured is an ATLUSS II

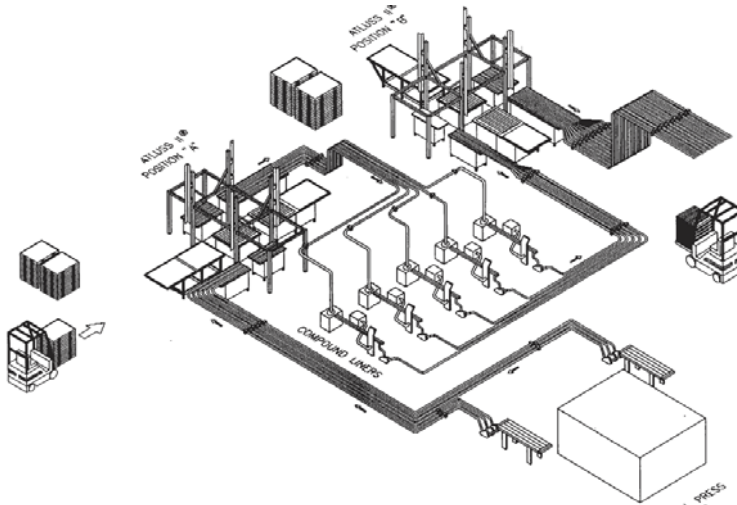
Features:

- Infeed and discharge operate independently
- Dedicated operator interface stations at infeed and discharge
- Latest electronic and microprocessor capabilities
- Innovative high speed gantry robot
- 200 to 206 lid sizes with minimal change parts
- Patented air hold-up provides maximum lid control
- On going customer service, technical service, engineering support, spare parts and training

Barry-Wehmiller

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The ATLUSS II® “A” unit is arranged in a straight-through configuration between the shell press and the liners with the trackwork at the discharge raised to allow fork lift access to tray transfer conveyor. The “B” unit is configured in a reverse-style between the liners and the overload conveyors going to the conversion presses.



Automatic Buffering Between Can End Production Processes

Nested can ends flow in the infeed lanes where they are separated into fixed-length sticks. A robotic head lifts the sticks from the lanes and smoothly transfers them, simultaneously, into a molded plastic tray. This “working” tray is located between the infeed and discharge sections. An identical robotic head lifts the sticks from the working tray and transfers them into discharge lanes. There they are combined into a continuous flow and conveyed to a downstream process.

End Flow Automatically Directed to or from Off-Line Storage During Extended Downtime

If a downstream process stops, even for a short time, the discharge robot is disabled and the filled tray is moved out of the working position, immediately replaced by an empty tray. As subsequent trays are filled in the working position, they are moved away and stacked ready for movement to off-line storage, sustaining an uninterrupted flow of ends into the ATLUSS.

Similarly, if an upstream process is suddenly shut down, the ATLUSS II will immediately begin to feed out from the stacks of previously filled trays, stocked in off-line storage and brought to the tray conveyor of the ATLUSS. A single filled tray is taken from the bottom of the stack and conveyed to the working position. When the tray is emptied, the ATLUSS transfers the next full tray from the stack to the working position, continuing until the stacks of filled trays are depleted. In this way, the ATLUSS easily sustains downstream operation during press changeovers or while maintenance is being performed.

Modular Design Permits a Wide Variety of Configurations

The ATLUSS II is composed of Infeed, Infeed Robot, Tray Transfer, Discharge Robot, and Discharge sections with optional Tray Staging Conveyor and Conveyor Turntables. They may be configured for the most effective line layout, that is, using a minimum of floor space and associated track work.

Conveyor System Manages Multiple Stacks

As each tray is filled, it is placed in a rigid, nested stack by the ATLUSS Tray Transfer Conveyor, at the same time drawing an empty tray from a stack of 20 empties positioned by a fork lift. Conveniently removed or positioned by a fork lift, these stacks of 20 filled or empty trays can be automatically moved in and out of the ATLUSS with the optional Tray Staging Conveyor System. In addition, with the optional Conveyor Turntable, the orientation of the ends can be changed 180 degrees.

System Specifications:

- Throughput, with four pocket heads: 4,200 ends/min.
- Throughput, with six pocket heads: 11,000 ends/min. (consult factory for other rates)
- Discharge lanes: 16 max.
- Infeed lanes: 16 max.
- Tray stack: 20 max.
- On-board storage capacity approx. 340,000 ends (with staging conveyor)

Dimensions:

Length: 30' (9144mm)
Width: 20' (6096 mm)

Power Requirements

480/240 volt, 3-phase
39.4 full load amps
17.5 total motor HP

Air Requirements

90 psi min. 10 cfm
71.22 scfm @ 90 psi

Tray Specifications:

Length: 56" (1422 mm)
Width: 44" (1118 mm)
Capacity: 8,500 ends
Empty Weight: 53 lbs.

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