

# XODUS LOW LEVEL BULK CONTAINER DEPALLETER



**Maximize your manufacturing output productivity  
with the Xodus Low Level Bulk Depalletizer.**



The Xodus Low Level Bulk Depalletizer from Priority One, a division of Busse/SJI, is a high efficiency system designed to remove layers of containers from a pallet and transport the containers to an accumulation table or infeed conveyor. The system can operate automatically with options to remove tier sheets, picture frames, inverted trays and pallets.

# XODUS LOW LEVEL BULK CONTAINER DEPALLEZIZER



The Xodus operates on-demand, performing all functions simultaneously, resulting in output speeds of up to 4 layers per minute including pallet change. Minimal operator attention is required and changeovers for different size containers can be made in five minutes by a single operator.

The unique design and workflow easily adapts to variations between layers and pallet loads. Photo eyes a proximity sensors monitor load level and load height, providing the system flexibility to operate effectively even when pallet loads are not completely perpendicular. Minimal pallet load movement takes place during product transfer.

Quality, heavy-duty construction provides smooth, vibration-free operation. Lift and carriage motors are driven through variable frequency AC controllers, and the unique design of transfer mechanisms reduces electro-mechanical wear.

The design and manufacturing standards employed by Busse/SJI enable this system to deliver years of low maintenance, trouble-free performance, while providing the flexibility to adapt to changing load configuration demands.

## CONTINUOUS OPERATION FOR MAXIMUM PRODUCTIVITY

All individual operations from product capture, sweeping, product discharge, etc. operate simultaneously, this significantly reduces idle time, maximizing depalletizer efficiency.

The automatic cycling features are interrupted when material flow is disrupted or a downstream problem occurs. The system automatically restarts when the disturbance has been corrected. In this regard the Xodus Low Level Bulk Depalletizer is truly an on-demand system, automatically compensating for any interruption in supply or discharge availability.



*Priority One® uses timing belts to reduce wear, back lash and tensioning found with comparable chain drive systems.*



*Priority One® consolidates and integrates all facets of the production line into one comprehensive control operating system.*



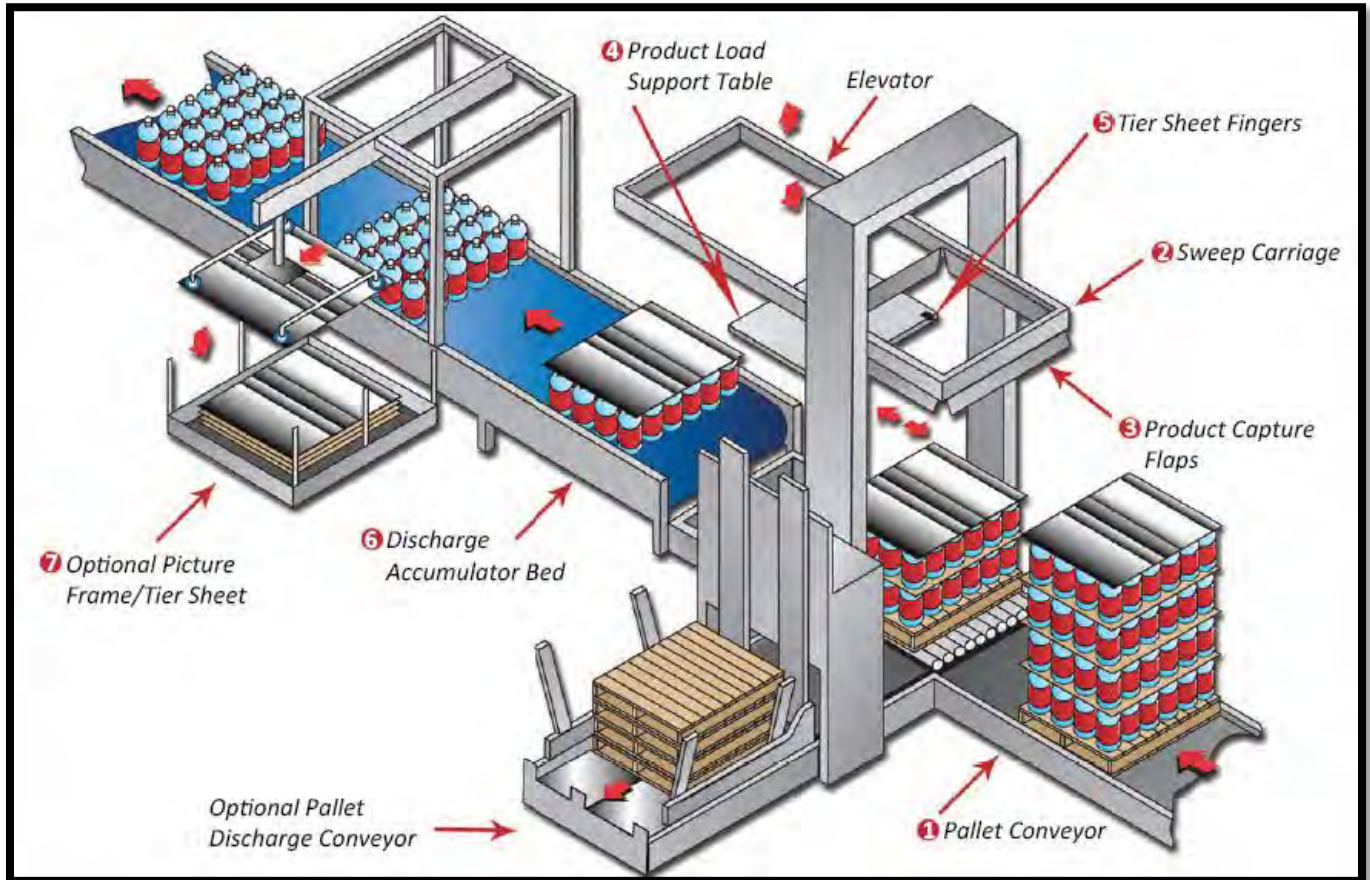
*Our optional automatic pallet stacker enables the bulk container depalletizer to operate with minimal operator attention.*



*The tier sheet remover enables the Xodus™ system to remove tier sheets, inverted trays and picture frames automatically.*



# XODUS LOW LEVEL BULK CONTAINER DEPALLETER



## Xodus Configuration and Options

- 1 A full load is placed on the pallet conveyor with two straps and all wrapping removed.
- 2 The pallet moves on-demand into the depalletizing station, where the sweep carriage, governed by an encoder, lowers over the top layer.
- 3 Four flaps close around the layer to capture the products.
- 4 Guided by photo eyes, the product load support table moves in toward the lower leading edge of the product layer.
- 5 When the load table is in position, the product side of the table lowers slightly to engage a pair of tier sheet fingers. These finger prevent the tier sheet on top of the lower layer from moving when the layer transfers to the load table.
- 6 The carriage sweeps the product layer from the pallet onto the load table. With the load still secured by the flaps, and covered by a tier separator, the load table moves to the discharge/accumulator bed. The table adjusts to the precise height and position of the bed. The carriage sweeps products from the product load table to the discharge/accumulation conveyor. When the products are positioned on the conveyor, the forward product flap opens 90 degrees and the other three flaps relax. The sweep carriage is then lifted out and up to avoid disrupting the load.
- 7 The conveyor moves the products into position for picture frame/tier sheet removal. The optional automatic unit lifts tier sheets and picture frames with vacuum pickup cups, and discharges them into an accumulation bin. During operation of the tier sheet unit, the depalletizer is sweeping another layer onto the load table. However, the next layer will not advance until the preceding one clears a photo eye at the tier removal station.

# XODUS LOW LEVEL BULK CONTAINER DEPALLETER



## STANDARD FEATURES

- Heavy duty elevator system
- Sweep Carriage
- Positioner frame
- 14' accumulation bed with Intralox Series 1100 belting or equivalent dependent on product sensitivity

## CAPACITY

- 4 layers per minute, including pallet change

## POWER

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

## AIR

- 1 m3/hour @80PSI

## DRIVE MOTOR

- 7½ HP Eurodrive gear motor

## MATERIAL AND FINISHES

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

## MACHINE DIMENSIONS

- Machine dimensions depend on configuration. (Refer to diagrams for sample layouts.)

## WEIGHT

- Approximately 6,00 lbs. (2,700kg)

## OPTIONAL EQUIPMENT

- Separated dunnage
- Lift truck ram protection
- Remote operator console
- Automatic pallet magazine
- Last sheet off pallet removal
- Additional options available on request

