

Vertical Smart Transporter

Buffalo Wild Wings

PDR-00320

Preliminary Manual

Manufacturing Number

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Overview

This unit is intended to be used for commercial applications, for example: installed within a restaurant.

Before Use

This manual contains safety, installation, and operating procedures for the unit. Read and understand it completely before installing or operating the unit. Keep this document for reference. If the unit changes ownership, this manual must accompany it.

In Case of Damage

If the unit arrives damaged, file a claim with the carrier immediately. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered under warranty.

Website

www.antunes.com

QR Code

For additional information regarding operation and maintenance of the unit, scan the QR code below.



Service/Technical Assistance

In Case of Damage

If any parts are missing or damaged, problems with the installation or operation of this product contact Antunes Customer Service immediately toll free at +1-877-392-7856.

If there are problems with the installation or operations of this product, contact Antunes Technical Service toll free at +1-877-392-7854.

Fill in the information in the next section and have it ready when calling for assistance. The serial number is on the specification sticker located on the system.

Equipment Information to Save

Purchased from:

Date of purchase:

Model number:

Serial number:

Manufacturing number:

Authorized Service Agency

Name:

Phone No:

Address:

Safety Information

Installation

- Read and understand all instructions before installing or using the unit.
- Install and locate the equipment only for its intended use as described in this manual.



WARNING

ELECTRICAL SHOCK HAZARD.
Failure to follow the instructions in this manual could result in serious injury or death.

Do not modify the power supply. Power is required to be wired in to the disconnect box and UPS by a qualified electrician.

Electrical ground is required on this appliance.

Check with a qualified electrician if you are unsure if the appliance is properly grounded.

Do NOT use an extension cord with this product.

The unit should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.

NEVER unplug the power supply while the unit is running. Use the proper shutdown procedure before unplugging the power cord.

Operation

- The unit is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.
- Do not operate the unit if it has been damaged or dropped, if it has a damaged cord or plug, or if it is not working properly.
- Do not block or cover any openings on the equipment.
- Do not immerse the cord, unit, or plug in water.
- Keep the cord away from heated surfaces.
- Do not allow the cord to hang over the edge of a table or counter.
- This appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction.
- Children being supervised are not to play with the appliance.

Maintenance

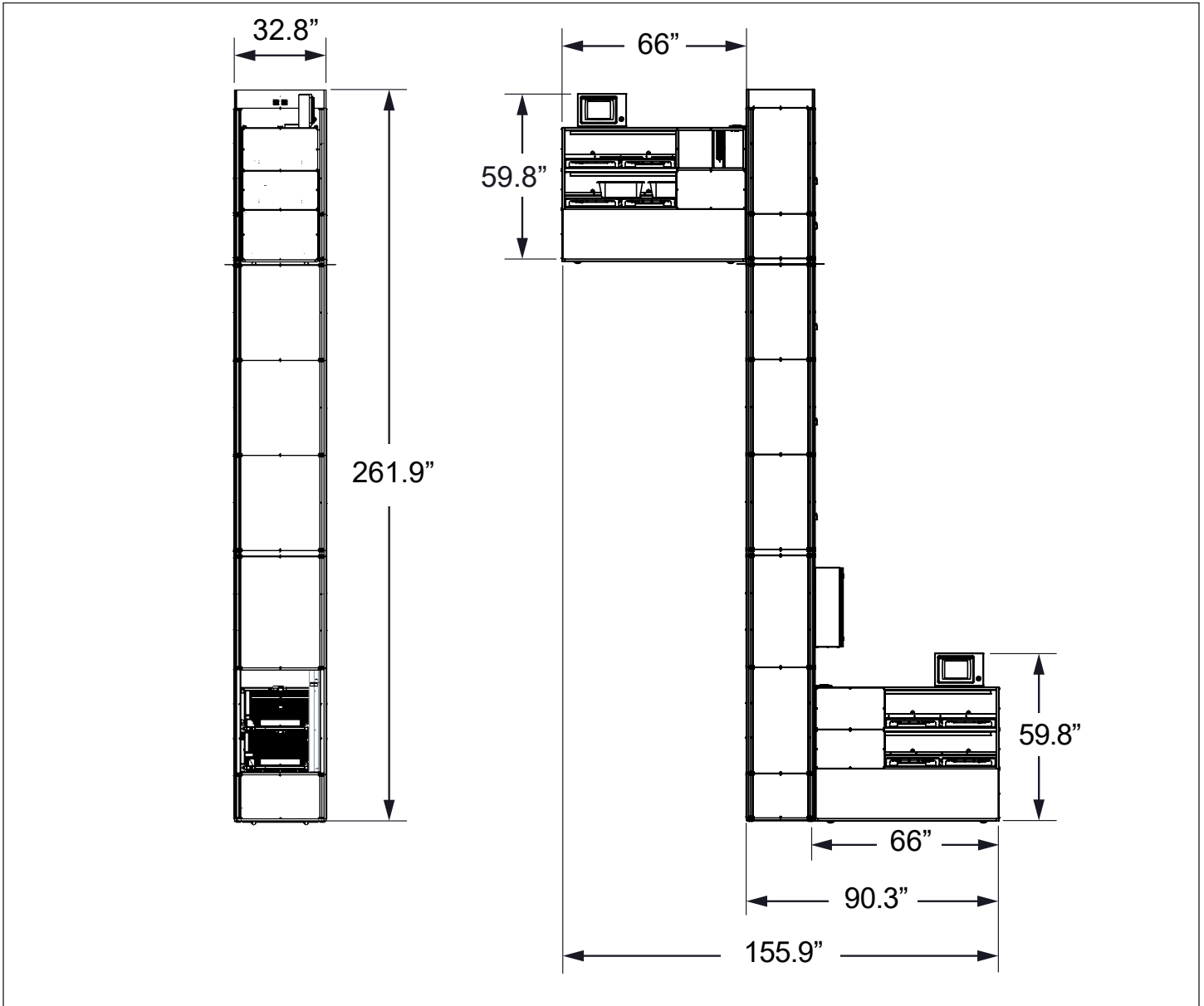
- Do not use abrasive materials; they can damage the unit's stainless steel finish.
- Do not use corrosive chemicals in this equipment.
- Chlorides or phosphates in cleaning agents (e.g., bleach, sanitizers, degreasers, and detergents) can permanently damage stainless steel equipment. The damage is usually in the form of discoloration, dulling of the metal surface finish, pitting, voids, holes, or cracks. This damage is permanent and is not covered by warranty.
- Always use a soft, damp cloth for cleaning. Rinse with clear water and wipe dry. When required, always rub in the direction of metal polish lines.
- Rub off finger marks and smears using soap and water.
- Do not clean unit or components in a dishwasher unless specifically specified in the cleaning instructions.
- Do not clean the unit with a water jet or steam cleaner.

Service

- Inspection, testing, and repair of electrical equipment must be performed only by qualified service personnel.
- To avoid possible personal injury and/or damage to the unit, all inspections, tests, and repair of electrical equipment should be performed by qualified personnel ONLY. Contact Antunes Technical Service for adjustment or repair.
- Turn the power off, unplug the power cord, and allow unit to cool to room temperature before performing any service or maintenance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person in order to avoid an electrical hazard.
- Cleaning and user maintenance shall not be made by children without supervision.

Specifications

Dimensions



Electrical Ratings

Model & Mfg. No.	Volts	Watts	Amp	Hertz
Vertical Smart Conveyor PDR-00320	208-240		30-40	

Estimated weight:

- 4000-4500 lbs.

Mounting of vertical tower:

- Upwards of 2500 lbs.

Electrical Cord & Plug Configuration

Model & Mfg. No.	Description	Configuration
Vertical Smart Conveyor PDR-00320		

Installation

Unpacking

The Vertical Smart Transporter is a fully enclosed system that is designed to be self-supporting and requires a suitable foundation, and anchors for lateral stabilization were passing through floors. The Transport system is to be installed by an approved Customer contractor. Antunes will provide installation instructions and be on-site to support the installation.

Conveyor system will arrive on site by truck in 3 separate crates. Crate will contain the following:

- 1x Vertical Tower Conveyor
- 2x Buffer Conveyors (each in their own crate)
- 1x Parts Box with two styles of mounting flanges

Setup

Equipment will be bolted to studs in the restaurant floor. Different styles of flanges are supplied to accommodate most installation types. Vertical Tower must be suitably away from adjacent walls and equipment so as to facilitate cleaning of the equipment and surrounding surfaces as well as to provide applicable space from heat sources and latent vapors.

Installation in interior of building must allow for interaction with equipment while providing space to safely maneuver product in and out of unit openings with ease. Access to the transport system requires one side and buffer face for service and cleaning. At least 3 feet (915mm) of space between the equipment and adjacent equipment to allow for ease of inspection and cleaning.

Equipment allows for MAXIMUM 1'5" (approximately 432mm) from bottom of unit access area to floor. Equipment requires a minimum of 8'1" (approximately 2464mm) to top of access area to floor. Vertical Tower will be mounted in place with no readily movable casters or legs. Top Buffer level is designed for 1520CT Trays. Bottom Buffer Level is designed for bus tubs.

NOTE: Check with the local fire department for further information on required clearances.

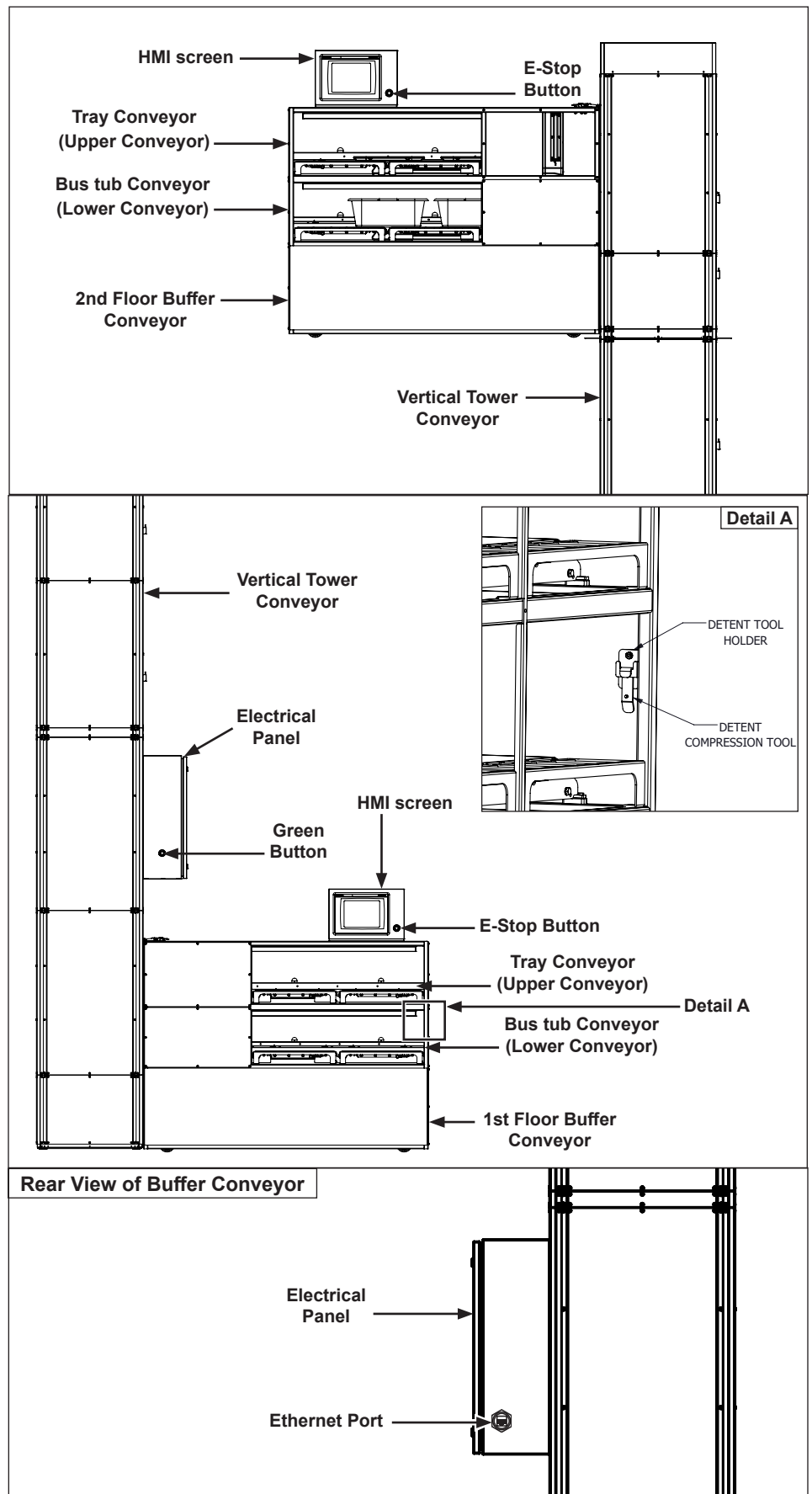


Figure 1. Vertical Conveyor Components

Operating Instructions

Buffer Conveyors

The Buffer Conveyors are located on the first and second floor with the Vertical Tower Conveyor connecting the two. There are two levels of conveyors within each Buffer Conveyor. The top Conveyors are for trays and food orders only, while the bottom Conveyors are for bus tubs only.

NOTE: Items on trays should not extend beyond edges of tray. Failure to ensure all items stay within the confines of the tray may result in blockages within the unit.

WARNING

Dishes and items in bus tubs should not extend beyond edges of bus tub or above lip of bus tub. Failure to ensure all items stay within the confines of the bus tub may result in blockages within the unit.

IMPORTANT

The upper Conveyors should not exceed 20 pounds per tray. The lower Conveyors should not exceed 40 pounds per bus tub. Overloading the Conveyors may result in damage to the unit and serious bodily injury.

Vertical Tower Conveyor

The Vertical Tower Conveyor connects the two Buffer Conveyors and allows for tray and bus tub delivery between the two floors.

HMI Operations

The HMI (Human Machine Interface) screen is located on each Buffer Conveyor (Figure 1). The screens display the current status of the unit and current location of trays and bus tubs within the unit

Button	Description
Manual	Allows access to manually rotate conveyors.
Cleaning	Allows for cleaning of components within the unit.
Extended Data	View unit faults, order, and system data.
Return Trays	Return the direction of upper conveyor belts.
Return Bus Tubs	Return direction of lower conveyor belts.
Reset Warnings	Reset warning messages and errors within the system.
Status	Displays current status, errors, and warnings of unit.
Login	Allows access to Cleaning and Manual features.
Logout	Prevents access to Cleaning and Manual features.

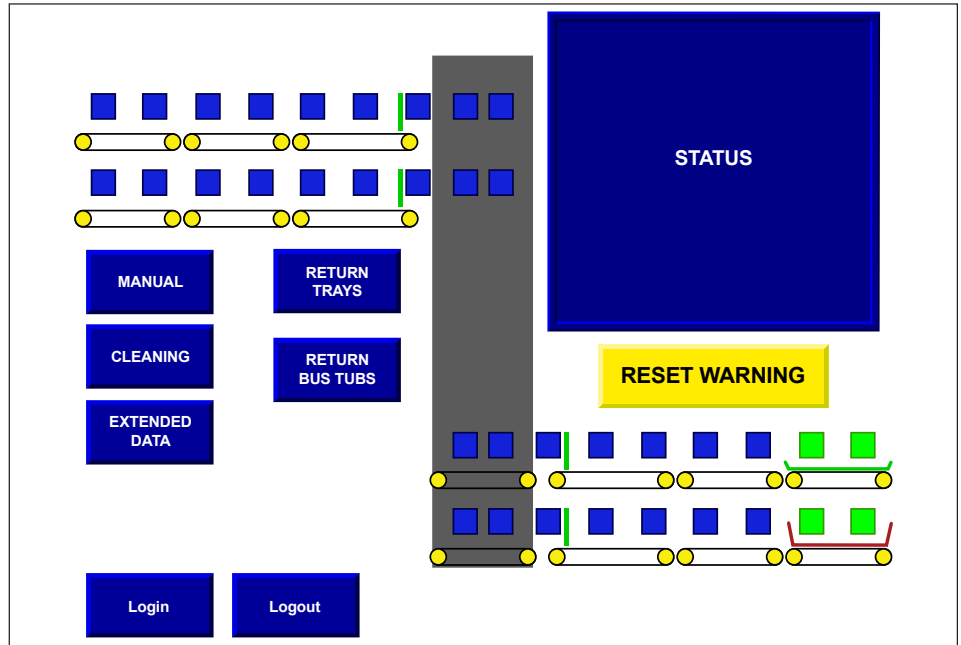
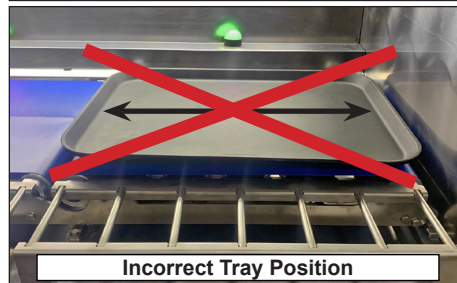
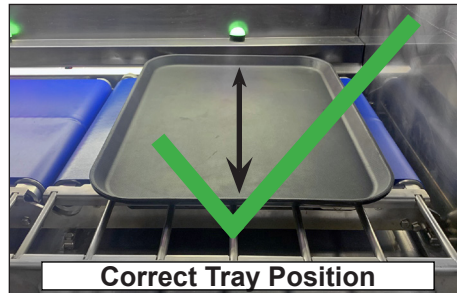


Figure 2. HMI Home Screen

Send Trays from 1st Floor

1. Assemble order and place order on the tray. Place tray on upper Conveyor (See figure below for correct position). Push tray directly back inside the Conveyor to activate the sensors.



WARNING

Trays should ONLY be placed on upper Conveyor Belts. Ensure no items extend past the edges of the tray or above 10" in height. Failure to do so may result in blockage or damage to the unit.

NOTE: The tray end inserted into the Conveyor must be pushed in fully to touch the back of the upper Conveyor. If the tray is not placed correctly, the Conveyor will not be able to detect presence of the tray.

2. The HMI screen will show the corresponding squares change color to indicate a tray is detected.
3. The unit will automatically center the tray on the upper Conveyor Belt. Once centered, the tray will be transferred to the Vertical Tower Conveyor Belts. The HMI screen will display the tray as it moves throughout the unit.

NOTE: When multiple trays are present on the Conveyor, the trays will be queued within the system. Each tray will be transported one at a time from one Buffer Conveyor to the other.

4. The Vertical Tower Conveyor will ascend from the first floor to the second floor. The system will transfer the tray from the Vertical Tower Conveyor onto the second floor Buffer Conveyor.

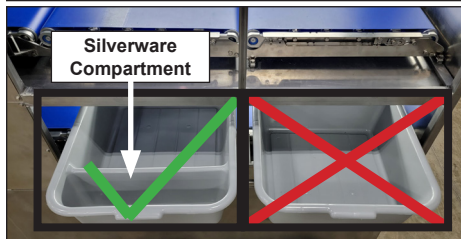
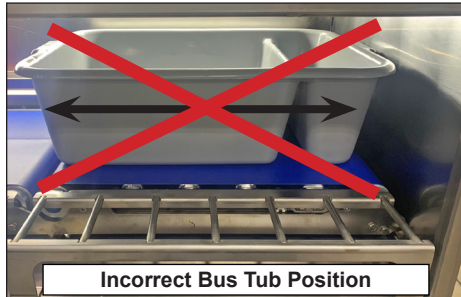
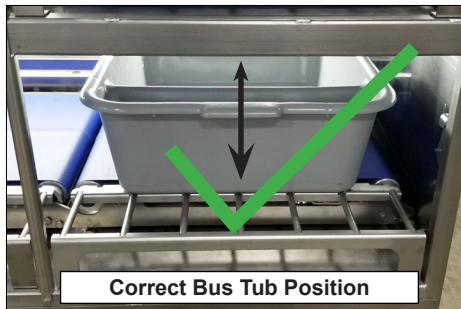
NOTE: If additional trays are within the second floor Buffer Conveyor, the most recent tray will be queued behind existing trays. When trays are removed, all queued trays following will automatically be moved forward.

- Remove the tray from the second floor Buffer Conveyor Belt. If additional trays are present, those trays will automatically be moved forward.

NOTE: When either Buffer Conveyor is full, the system will display “Buffer Full, Remove Trays or Bus Tubs”

Send Bus tubs from 2nd Floor

- Place bus tubs to return to the first floor on the lower Conveyor. Push the bus tub directly back inside the Conveyor to activate the sensors.



WARNING

Bus tubs should ONLY be placed on lower Conveyor Belts. Do not overfill bus tubs. Do not allow items to hang over edges of bus tubs. Failure to do so may result in blockage or damage to the unit.

NOTE: The bus tub end inserted into the Conveyor must be pushed in fully to touch the back of the lower Conveyor. If the bus tub is not placed correctly, the Conveyor will not be able to detect presence of the bus tub.

- The HMI screen will show the corresponding squares change color to indicate a bus tub is detected.
- The unit will automatically center the bus tub on the lower Conveyor Belt. Once centered, the bus tub will be transferred onto the Vertical Tower Conveyor Belts. The HMI screen will display the bus tub as it moves throughout the unit.

NOTE: When multiple bus tubs are present on the Conveyor, the bus tubs will be queued within the system. Each bus tub will be transported one at a time from one Buffer Conveyor to the other.

- The Vertical Tower Conveyor will descend from the second floor to the first floor. The system will transfer the bus tub from the Vertical Tower Conveyor onto the first floor Buffer Conveyor Belt.

NOTE: If additional bus tubs are within the first floor Buffer Conveyor, the most recent bus tub will be queued behind existing bus tubs. When bus tubs are removed, all queued bus tubs following will automatically be moved forward.

- Remove the bus tub from the first floor Buffer Conveyor Belt.

NOTE: Use proper bending techniques when removing bus tubs from lower Conveyors, as bus tubs may be heavy. Failure to do so may result in bodily injury.

Return Trays or Bus Tubs

To return trays or bus tubs, the unit must be emptied of any current or prior orders.

NOTE: When in return mode, trays will change from green to black and bus tubs will change from red to black.

- To return trays, place the tray to be returned on the second floor upper Buffer Conveyor .

To return bus tubs, place the bus tub to be returned on the second floor lower Buffer Conveyor.

- The unit will automatically center the tray/bus tub on the Buffer Conveyor Belt.

- To return trays, select “Return Trays” on the HMI home screen.

To return bus tubs, select “Return Bus Tubs” on the HMI home screen.

This allows the unit to transport a tray or bus tub on the appropriate Conveyors from the second floor back to the first floor. Once selected, the button will turn green and say “End Return”.

- To resume normal operations, select “End Return”. The unit will return to standard functions.

Extended Data

The Extended Data screen provides details of the unit such as faults, current status of components within the unit, as well as daily, aveclothe, and total operations data.

LED Light Status

The unit has two types of indicator lights. Each color of the lights indicate the current status of the unit. The first set of indicator lights are located inside the buffer unit directly behind the conveyor belts. Light colors are:

Light Color	Description
Green	Unit is operational and ready to have tray/tub placed or removed.
Yellow	Unit is operational and currently moving.
Red	Unit is not operational due to error or other stoppage (such as E-stop being engaged).

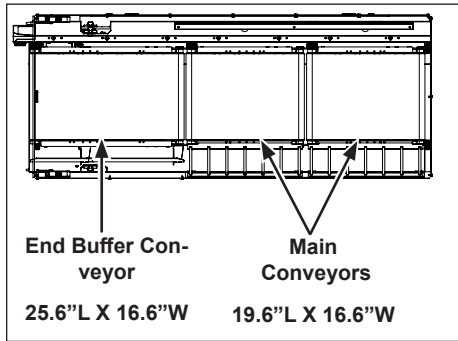
The second set of indicator lights are the remote indicators away from the unit over the bar. Light colors are:

Light Color	Description
Green	Unit is operational, upper buffer conveyors are empty.
Yellow	Unit is operational with tray(s) of food waiting to be removed from upper buffer.
Yellow Blinking	Unit is operational but upper buffer is full. Remove trays to clear.
Red	Unit is not operational due to error or other stoppage (such as E-stop being engaged).

Maintenance

Conveyors

Each Buffer Conveyor contains six sets of conveyor belts, three on top and three on bottom. The two conveyors accessible through the Buffer Conveyor entrance are the “Main Conveyors” of the Buffer Conveyor. The third conveyor located directly next to the Vertical Conveyors is the “End Buffer Conveyor” (See figure below). All four “Main Conveyors” within the Buffer Conveyor are interchangeable with only each other.



⚠ IMPORTANT

When a conveyor is removed, it is critical to make note where each conveyor came from, as conveyors are not interchangeable between floors. Conveyors located on the first floor must be replaced back into the first floor Buffer Conveyor. Conveyors located on the second floor must be replaced back into the second floor Buffer Conveyor.

The Vertical Conveyor contains two 19.5" L X 18.2" W conveyors which are **NOT** interchangeable. These conveyors must be returned to their original position from which they were removed.

Daily Cleaning

All Conveyor Belts should be visually inspected daily for damage. If excessive wear or damage is found, belts should be replaced. It is recommended to clean and sanitize all conveyor belts weekly using an approved all-in-one sanitizer-cleaner.

Clean Exterior and HMI screen

1. Use a clean cloth and an approved all-in-one sanitizer-cleaner to wipe down the exterior of unit buffer.
2. Prepare a clean cloth sprayed with approved all-in-one sanitizer-cleaner. Select “Screen Clean” button to clean the HMI screen. This button switches the screen to a screen with no buttons for 30 seconds. After 30 seconds, the screen returns to the home screen. press “Screen Clean”, and wipe down HMI screen.

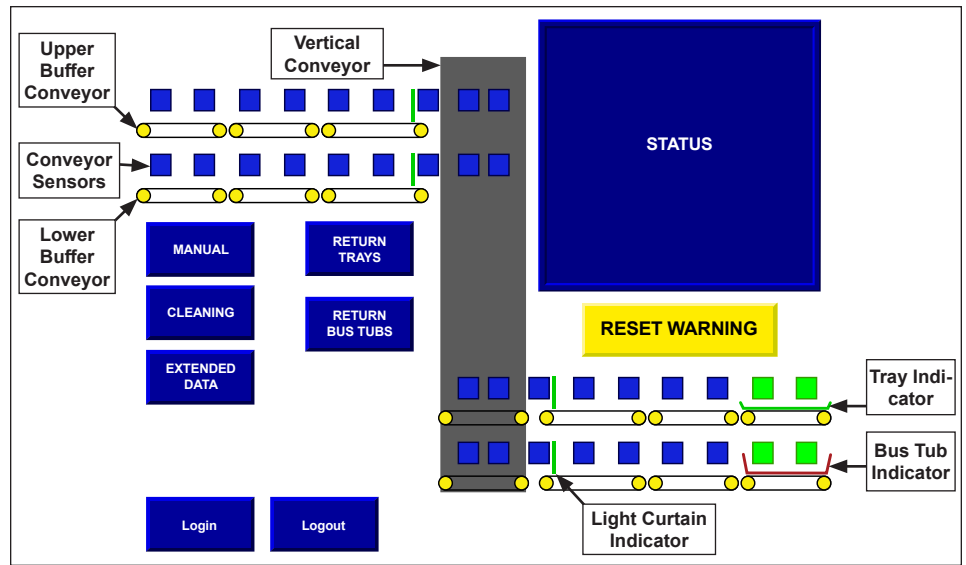


Figure 3. HMI Home Screen

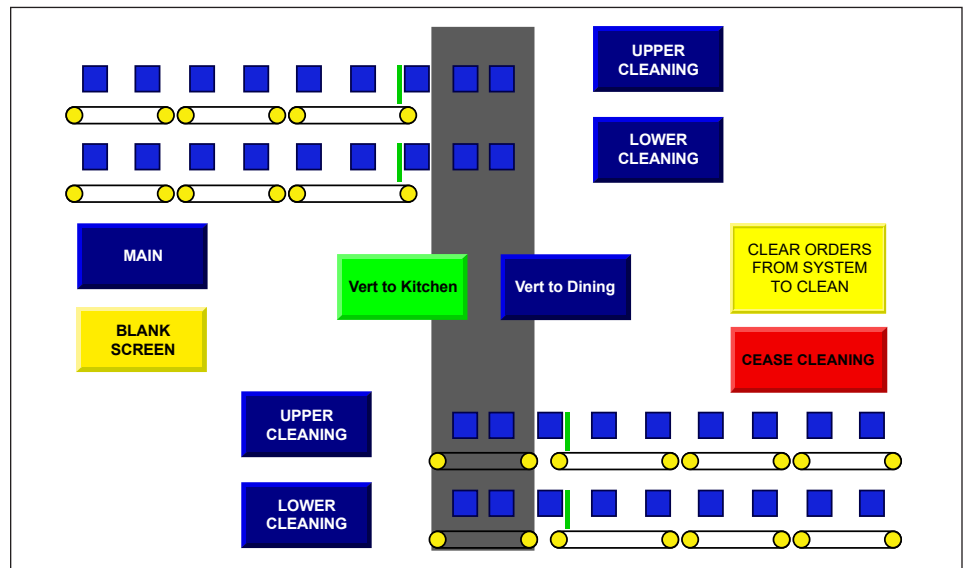


Figure 4. HMI Cleaning Screen

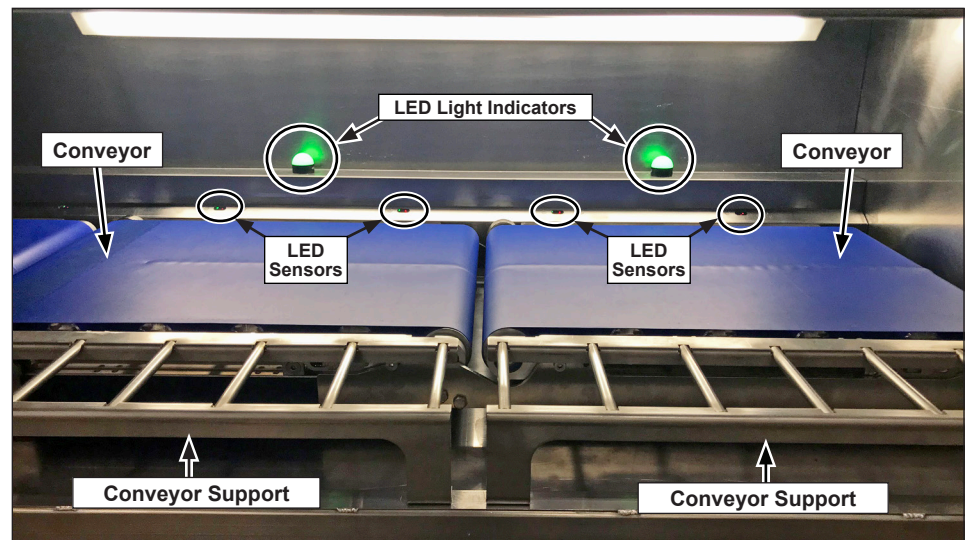


Figure 5. Inner Buffer Conveyor Components

Weekly Cleaning

Clean Conveyor Belts

Access to the “Cleaning” screen requires user to log in. To log in, select “Log In” button on the home screen. Enter default password provided by Antunes.

NOTE: If user is not logged in to the system, the Cleaning button is not accessible.

Cleaning of Conveyor Belts should be performed weekly during closing or immediately following a spill within the unit.

1. Remove all trays and tubs from unit.
2. From the home screen on the HMI, select “Log In” and enter the default credentials provided by Antunes. Select the “Cleaning” button (Figure 1).
3. Select “Clear Orders From System To Clean” to clear the system and allow for cleaning (Figure 4).
4. To clean the Upper Buffer Conveyor belts, select the “Upper Cleaning” button. The belts will begin to rotate.

NOTE: If cleaning the 2nd floor Buffer Conveyor Belts, use the top right set of buttons.

If cleaning the 1st floor Buffer Conveyor, use the bottom left set of buttons.

5. Apply an approved sanitizer cleaner on a dry, clean towel and wipe down all four belts as they rotate for multiple revolutions.
6. Press the “Upper Cleaning” button to stop the conveyors rotating.
7. To clean the bottom Buffer Conveyor belts, select “Lower Cleaning” button from the HMI home screen. The belts will begin to rotate.
8. Apply an approved sanitizer cleaner to a dry, clean towel. Wipe all four belts down fully.
9. Use an extension brush as shown below to clean Vertical Tower Conveyors.



10. Press the “Lower Cleaning” button to stop the conveyors rotating.
11. Allow belts to air dry.
12. When cleaning is finished, select “Cease Cleaning”. The screen returns to “Home Screen”.

Clean Buffer Conveyor Sensor Covers

The sensors located at the back of the Buffer Conveyors are protected with a transparent sensor cover.

1. Locate the conveyor sensors inside the Buffer Conveyor. These sensors are below the LED Light Indicator lights on either side.

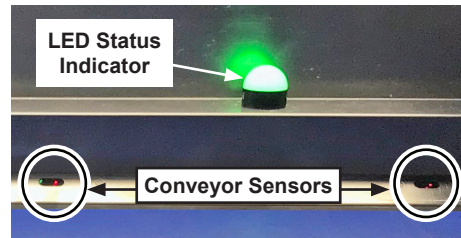


Figure 6. Conveyor Sensors

2. Spray a clean cloth with approved all-in-one sanitizer-cleaner solution. Wipe down each sensor cover and allow to air dry.

Clean Conveyor Supports

1. Locate the conveyor supports (Figure 5). Grab the outer cross bars, lift up and tilt the support towards you to detach it from the conveyor. Set on clean work surface.
2. Spray a clean cloth with approved all-in-one sanitizer-cleaner solution. Wipe down all surfaces of grate(s). Allow to air dry.
3. Wipe down metal shelf beneath conveyors.

NOTE: In case of soup or liquid spill, remove conveyors to clean beneath.

4. Reinstall grate(s) into Buffer Conveyor.
5. Return to normal operations.

Every 6 Months

Clean Vertical Conveyor Shaft

Inspect the Vertical Conveyor Shaft for crumbs, spills, or dirt. Ensure to inspect the space below the Vertical Conveyor Shaft by sending the Vertical Conveyor to the top.

Remove Buffer Conveyors for Belt Replacement

Conveyor Belts should be replaced as needed. Inspect all belts for tears or damage before continuing.

1. Remove all trays and tubs from unit.
2. Power down the unit on the HMI screen or press the E-Stop to stop the system.
3. Locate the conveyor supports (Figure 7). Grab the outer cross bars, lift up and tilt the support towards you to detach it from the conveyor. Remove and set aside.

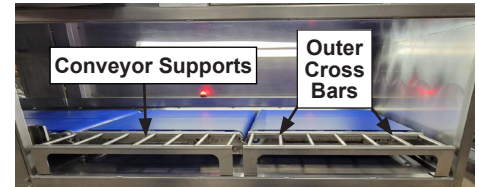


Figure 7. Conveyor Supports

4. Locate the detent pin (Figure 8) on the Conveyor Belt. Use a small screwdriver to press in and hold the pin.

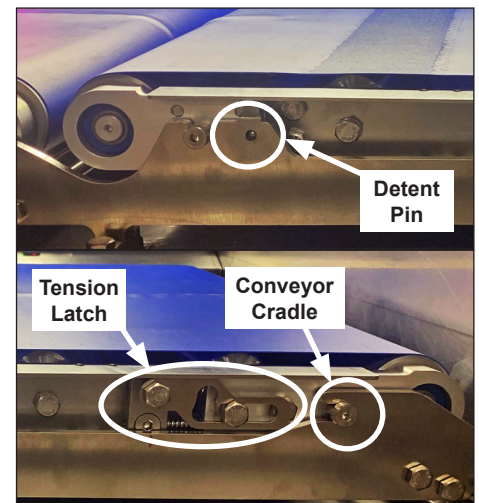


Figure 8. Conveyor Components

5. Gently lift up on the front of the Conveyor Belt and slide forward out of the cradle (Figure 9).

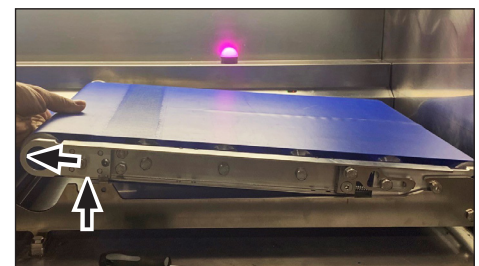


Figure 9. Lift and remove Conveyor

NOTE: Do not lift Conveyor Belt higher than an approximate 15-25 degree angle. Doing so will result in the Conveyor Belt to pinch on itself and become unable to be removed.

6. Follow steps in "Belt Replacement" on page 11 to replace Conveyor Belts. Once belt(s) have been replaced, follow the remaining steps below.
7. Slide the Conveyor Belt back into the cradle of the Buffer Conveyor. Carefully lower the Conveyor Belt back into place, being cautious of magnet couplings connection (Figure 8).
8. Return unit to standard operations.

Remove End Buffer Conveyor for Belt Replacement

1. Locate the latches on the top of either side of the Buffer Conveyor. These hold the Buffer Conveyor to the Vertical Tower Conveyor.

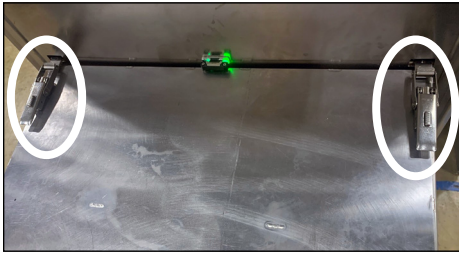


Figure 10. Buffer Conveyor latches

2. One at a time, slide the button on top of each latch and pull latch up towards the Vertical Tower Conveyor. Lift the handle out of the latch catch.

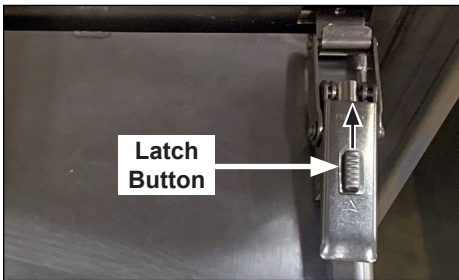


Figure 11. Buffer Conveyor button

3. Move to the end of the Buffer Conveyor. Carefully and slowly pull the Buffer Conveyor away from the Vertical Tower Conveyor. This may require two people to move.

CAUTION

Ensure full clearance beneath and around the Buffer Conveyor before moving. Be cautious of feet near wheels. Failure to do so may result in serious bodily injury.

WARNING

Do not pull Buffer Conveyor out further than approximately 12-24 inches from the Vertical Tower Conveyor. The Buffer Conveyor contains electrical attachments to the Vertical Tower Conveyor that may become damaged if pulled.

4. Move to the end of Buffer Conveyor attached to the Vertical Tower Conveyor. Locate the two electrical connections beneath the Buffer Conveyor.

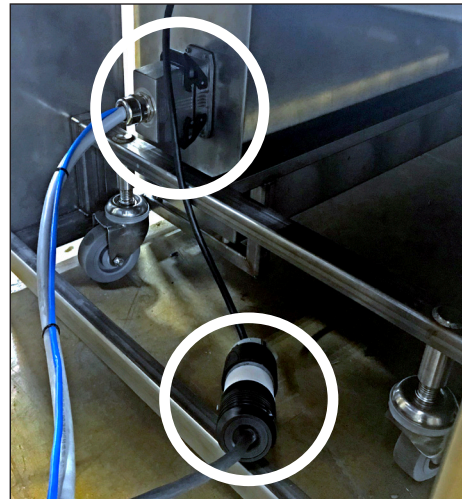


Figure 12. Buffer Conveyor Electrical Connections

5. Disconnect the twist lock connector cord. Set both ends of the cord aside safely.



Figure 13. Twist Lock Connector

6. Carefully reach under the bottom of the Buffer Conveyor. The multi-pin quick disconnect includes two latches to secure the plug into the outlet, one top and one bottom. Press up and back on the top latch to release. Press down and back on the bottom latch to release. Pull the plug out from the outlet.

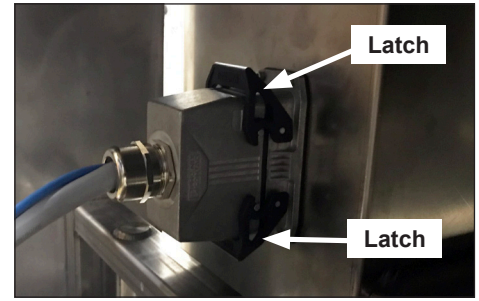


Figure 14. Multi-pin Quick Disconnect

7. Set electrical connection to the side and away from being stepped on.
8. Locate the detent pin (Figure 8) on the Conveyor Belt. Use the attached tool to press in and hold the detent pin in that locks the Conveyor Belt in place.
9. Carefully lift up and pull out on the end of the Conveyor Belt (. More force may be required to disengage the magnetic couplings on the left side in order to remove Conveyor Belt.
10. Follow steps in "Belt Replacement" on page 11 to replace Conveyor Belts. Once belt(s) have been replaced, follow the remaining steps below.
11. Slide the Conveyor Belt back into the cradle of the Buffer Conveyor. Carefully lower the Conveyor Belt back into place, being cautious of magnet couplings connection (Figure 19).
12. Visually inspect the Vertical Shaft and Vertical Conveyor Belts for spills or damage.
13. Reconnect the Twist Lock Connector and Multi-pin Quick Disconnect.
14. Push the Buffer Conveyor back into position. Check the sensor on the Buffer Conveyor is green to indicate connection is properly aligned. Reconnect the latches.

NOTE: If the sensor light is red, release the latches and carefully realign the Buffer.

Belt Replacement

Follow steps of each section to remove corresponding Conveyor(s) depending on belt replacement needs. Then follow the steps below.

1. Place the Conveyor Belt on a sturdy, flat surface. Locate the end of the Conveyor containing the belt tensioner latch (Figure 8). This latch restrains spring pressure, which applies pressure to the belt. Press in firmly on the end and pull the belt up and away from the Conveyor to release tension on the belt (Figure 15).

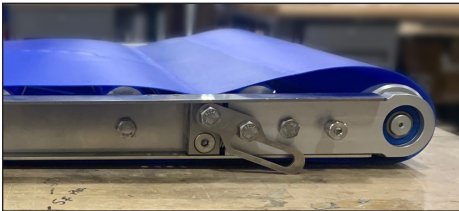


Figure 15. Conveyor tensioner latch released

2. Stand the Conveyor on its side. Manually rotate the belt on the Conveyor until the flat portion of the belt reaches one end of the Conveyor roller (Figure 16).

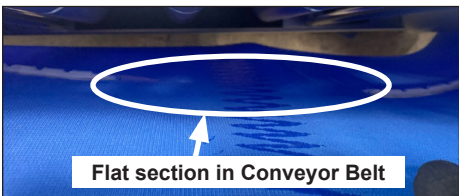


Figure 16. Flat section of belts

3. Once the flat section of the belt has reached the roller, manually rotate the belt and carefully pull upwards to assist removal of the belt. Discard removed belt.
4. With the Conveyor still on its side, place the new belt over top with the flat section of the belt over one end of the roller. Manually rotate the belt on the Conveyor to walk the belt down until the center belt track reaches the V-guide in the center of the conveyor rollers.

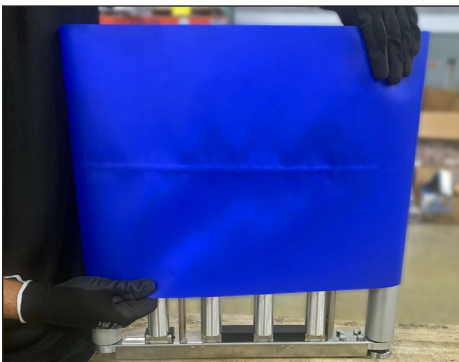


Figure 17. Roller V-Guide for belt

5. Pull up on the tensioner latch on both sides of the Conveyor to return tension to the belt.

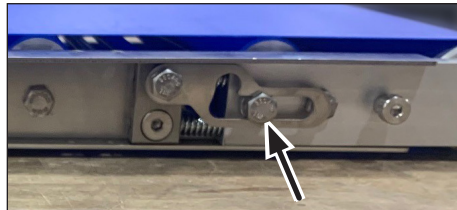


Figure 18. Return tension to Conveyor

6. Slide the Conveyor Belt back into the cradle of the Buffer Conveyor. Press down carefully on the delivery end of the Conveyor Belt to lock in place (Figure 19).

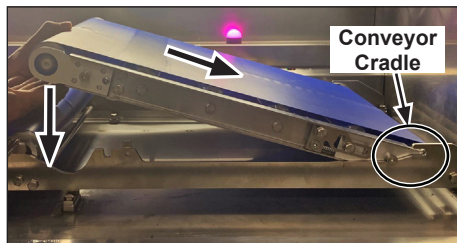


Figure 19. Place Conveyor into cradle

7. Repeat these steps for each Conveyor that requires a new belt.

Incorrectly Tensioned Belt Examples



Safety Features

E-Stop

The unit has two red emergency stop (E-stop) buttons located on the right hand side of the HMI screen. The E-Stop is only necessary when a blockage is located within the Vertical Conveyor. In case of blockage, follow the steps below.

1. Press the red E-STOP button in. The button will light up to indicate the E-Stop is engaged.

2. Clear the blockage from the unit.

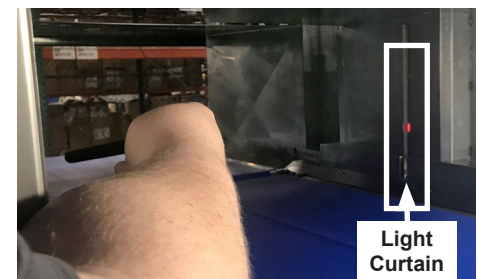
NOTE: Be sure to remove tray/bus tub and contents if order is present within the blockage.

3. Pull the E-Stop button out and press the green button on the first floor. Resume normal operations.

Light Curtains

The End Buffer Conveyors each contain a light curtain at the end closest to the Vertical Conveyor. This safety feature prevents the Vertical Conveyor from moving if a person is reaching into the machine, preventing injuries. Light Curtains should be tested daily to ensure proper functionality. Follow steps below to test.

1. One Conveyor at a time, insert the provided 14mm rod into the Buffer Conveyor as shown below



2. The Light Curtains are properly functioning when they turn red within the Buffer unit.

3. Check the HMI main screen for the indicator that the Light Curtains have been activated. Light Curtains on the HMI screen will flash black and white when the rod is present.

Troubleshooting

Problem	Possible Cause	Corrective Action

Replacement Parts

Exploded Diagram

Limited Warranty

Equipment manufactured by Antunes has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from electrical and mechanical defects for a period of one (1) year from date of purchase under normal use and service, and when installed in accordance with manufacturer's recommendations. To insure continued operation of the units, follow the maintenance procedures outlined in the Owner's Manual. During the first 12 months, electromechanical parts, non-overtime labor, and travel expenses up to 2 hours (100 miles/160 km), round trip from the nearest Authorized Service Center are covered.

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placing of the Equipment. This warranty does not cover any damage to power cords, plugs and/or receptacles. This warranty does not cover overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the equipment. This warranty does not cover consumable/wear items which includes the belt material in the conveyors. This warranty does not cover water contamination problems such as foreign material in water lines or inside solenoid valves. It does not cover water pressure problems or failures resulting from improper/incorrect voltage supply. This warranty does not cover Travel Time & Mileage in excess of 2 hours (100 miles/160 km) round trip from the nearest authorized service agency.
2. Antunes reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.
3. If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives, and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.
4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight and taxes are the responsibility of the purchaser.
5. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL ANTUNES BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.

The warranty does not extend to:

- Damages caused in shipment
- Installation of electrical service
- Installation, calibration, or adjustment
- Damage to Power Cord and/or plug
- Damage to Receptacles and or external water lines
- Normal maintenance outlined in this manual
- Consumable parts such as egg rings, gaskets, rubber feet, labels, O-rings, light bulbs, etc.
- Malfunction resulting from improper service or maintenance
- Damage caused by improper installation, improper use, abuse, or careless handling
- Damage from moisture coming in contact with electrical components
- Damage from tampering with, removal of, or changing preset controls or safety devices
- Damage caused by parts or components not provided by Antunes
- Failure to meet water quality requirements



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