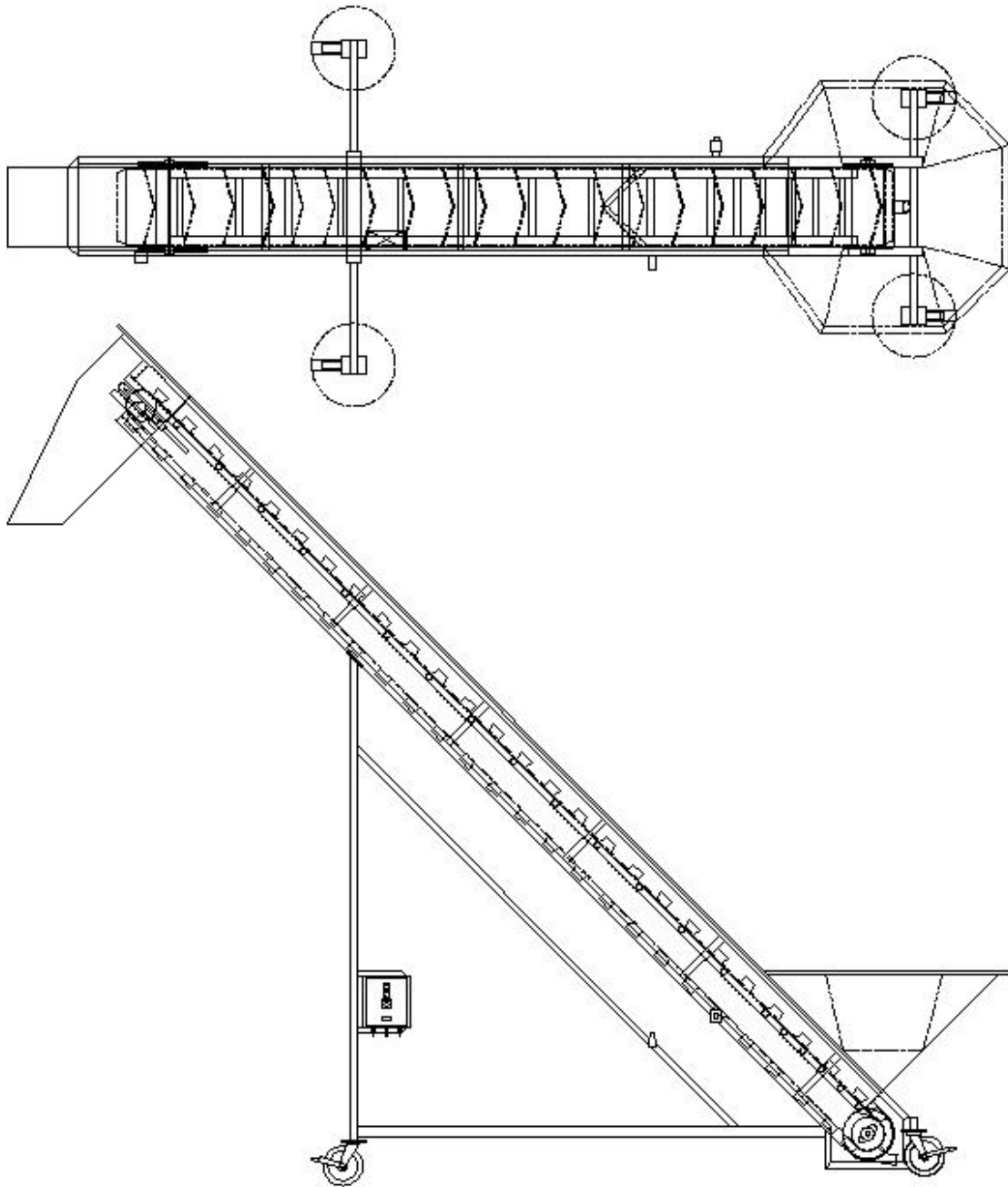




# ***P&L SPECIALTIES***

*MANUFACTURING THE FINEST STAINLESS STEEL EQUIPMENT*



## **CLEATED INCLINE CONVEYOR** **OPERATION MANUAL**

SERIAL NO. \_\_\_\_\_ DATE OF MANUFACTURE \_\_\_\_\_

## **EQUIPMENT DESCRIPTION**

### **CLEATED INCLINE CONVEYOR**

The Cleated Incline Conveyor is a portable belted feed device. It is designed to deliver product from the feed hopper to a press, destemmer, crusher roller, holding tank or fermenter.

The Cleated Incline Conveyor features include: all stainless steel construction for ease of cleaning, a programmable VFD (Variable Frequency Drive) for a complete range of speed control, food-grade internally-driven pulley and an integrated juice sump for liquid collection.





## **INSTALLATION AND INITIAL START UP**

### **WARNING**

Prior to start up, disconnect the power to the unit and inspect the inside of the control panel for accumulated water or moisture. Ensure that the desiccant packs are dry and that all components are free from electrical short circuit. **NEVER** open the panel with the unit connected to power.

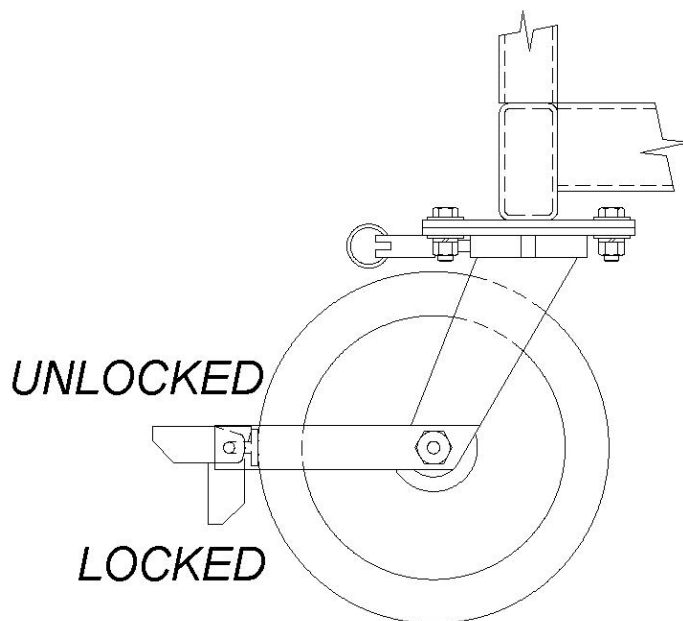
1. Visually inspect the unit for any signs of damage, cracks, fatigue or loose components. Any damaged components should be repaired or replaced immediately. See P&L Specialties' contact information on the last page of this manual.
2. Visually inspect the internal area of the unit for any foreign objects that may have accumulated on the belt surface during shipping. To do so

remove the side access panels by lifting up and pulling out. After inspection, replace side covers.

**WARNING**

Never operate unit unless ALL side covers and guards are in place and ALL wheels are in the locked position.

3. Position the unit to ensure safe and stable operation. Make certain that the caster wheels are all facing the same direction and that the brake mechanisms are all in the locked position.



4. Wet the inside surface of the belt with water to lubricate the belt wipers.

**WARNING**

Prior to start up, disconnect the power to the unit and inspect the inside of the control panel for accumulated water or moisture. Ensure that the Desiccant packs are dry and that all components are free from electrical short circuit. NEVER open the panel with the unit connected to power.

5. Connect the unit to the appropriate power source (voltage/phase).
6. Position the speed control on a low setting of 1 or 2.
7. Ensure that the Emergency Stop Button is pulled out.

8. Press the BELT ON button and then slowly increase the belt speed while observing that the belt is tracking true to the center of the unit (not walking up one side wall or the other).
9. If necessary, adjust the belt tracking (see Belt Adjustment and Tracking section).
10. Allow unit to run freely for 1-5 minutes before loading any product.

**WARNING**

Never operate unit unless ALL side covers and guards are in place and ALL wheels are in the locked position.

**OPERATION****WARNING**

Always ensure that ALL personnel are free and clear of the equipment prior to and during operation. Always power down and let the unit come to full and complete stop then disconnect the power prior to performing and service or maintenance to the unit.

Adjust the speed control as needed to increase or decrease the flow of berries.

Ensure that the sump connection at the base of the unit is connected to the appropriate discharge system.

**SERVICE AND MAINTENANCE****WARNING**

Always ensure that ALL personnel are free and clear of the equipment prior to and during operation. Always power down and let the unit come to full and complete stop then disconnect the power prior to performing and service or maintenance to the unit.

**WARNING**

Never power wash the Control Panel or Emergency Stop Button Station.

Visually inspect the unit for any signs of damage, cracks, fatigue or loose components. Any damaged components should be repaired or replaced immediately. See P&L Specialties' contact information on the last page of this manual.

Daily remove any accumulated or loose material from the unit.

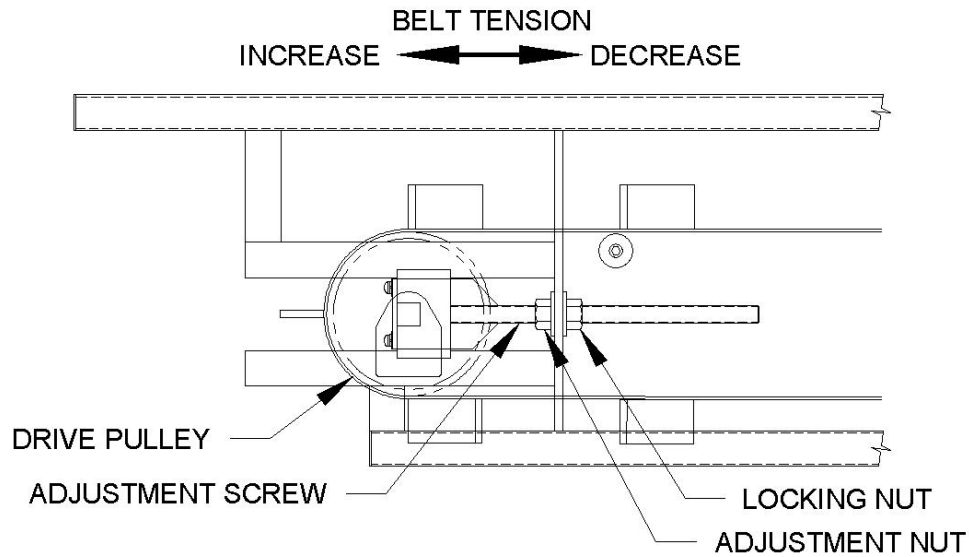
Weekly clean the belt surfaces as well as all of the rollers and pulleys. Inspect the belt for any damage or loose lacings. Check the tension of the belt (see Belt Adjustment and Tracking section).

The Motorized Drive Pulley and Tail Pulley are sealed units and require no service or maintenance.

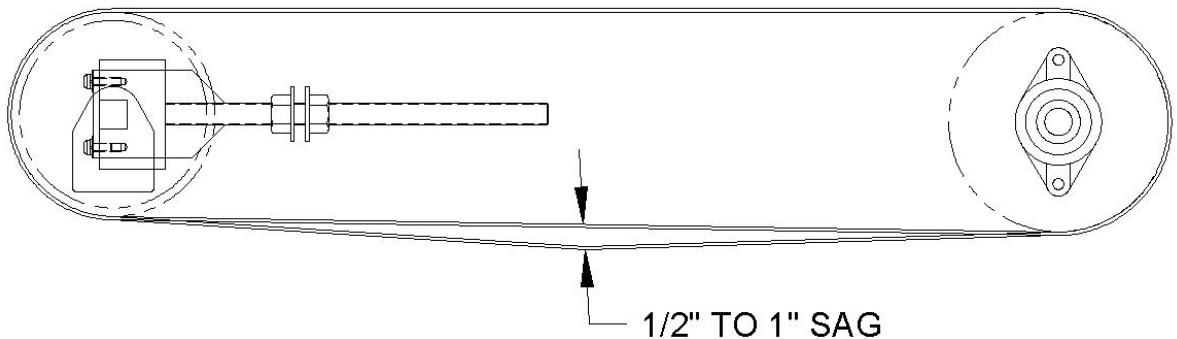
Monthly and at the end of the season it is recommended that the belt tension be released. Also the unit should be covered with a UV-protection drop cloth in order to prolong the life of the belt.

## **BELT ADJUSTMENT AND TRACKING**

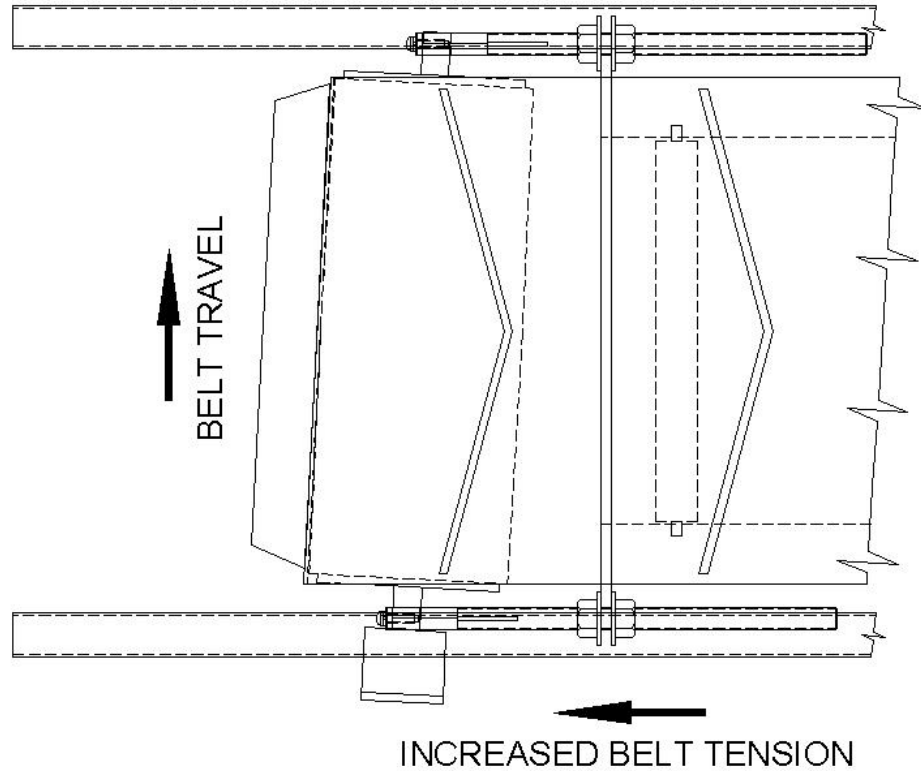
1. The belt adjustment and take-up is accomplished through the use of two (2) adjustment screws at the front of the unit attached to the drive pulley. Belt adjustment should be made by moving the drive pulley shaft towards the front of the conveyor, increasing the belt tension and take-up.



2. With the side covers removed, adjust the belt tension first by tightening the adjuster screws equally until the lower portion of the belt has between  $\frac{1}{2}$ " and 1" of sag. At no time is belt sag to be such that the belt comes in contact with any fixed metal surface.



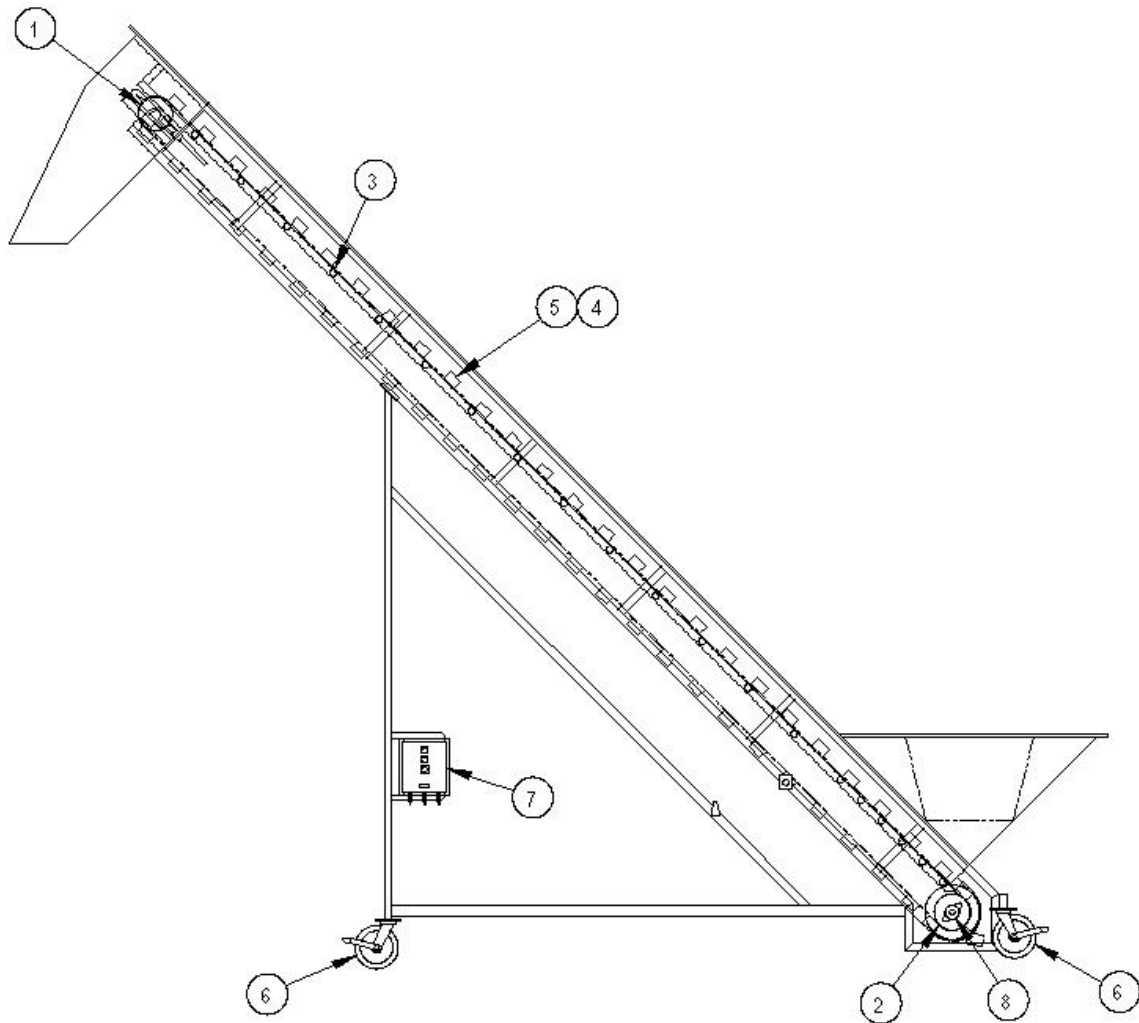
3. Once the proper tension has been achieved, turn the unit on slowly and adjust the tracking as required.
4. The belt tracking adjustments should be made by pulling one side of the pulley shaft towards the front of the conveyor, leaving the other side as is. The belt will move away from the side being pulled. The more the one side of pulley shaft is pulled towards the front the more the belt will move toward the other side.



5. Adjustments should be made in  $\frac{1}{4}$  turn increments at a time. Never over tension the belt. Over tensioning will drastically reduce the life of both bearings and belting.
6. Once all adjustments have been achieved, tighten all of the locking nuts. Replace all side covers.

**WARNING**

Never operate unit unless ALL side covers and guards are in place and ALL wheels are in the locked position.



## **SPARE PARTS LIST**

### ITEM 1

Drive Pulley – 4 HP - 144 FPM – dual voltage – 8.46” diameter - 23.62” face - 3 Phase 60 Hz - 3/8” White Nitrile Lagging – FDA mild steel drum – Stainless Steel shaft

### ITEM 2

Idler Pulley – 10” diameter – 24” face – Stainless Steel construction

### ITEM 3

Roller - 1.9” diameter – white high impact resistant PVC – 17-13/16” inside frame – 7/16” Stainless Steel shaft

## ITEM 4

Belt – 2 ½” curved cleat on 12” centers – 30 degree cup – 20 degree taper – high friction back – 3 ply – 23-3/8” wide x 58’-0” long

## ITEM 5

Belt lacing with pin – 23-3/8” wide

## ITEM 6

Swivel Caster with brake – 12” diameter x 2-1/2” wide tread – aluminum core with ball bearings – tread lock brake with 4 position swivel lock

## ITEM 7

VFD Control Panel with Emergency Stop Button and 50’-0” cable  
NEMA 4X

## ITEM 8

Flange Bearing – 2 bolt – 1-½” bore – stainless steel housing



***P&L SPECIALTIES***

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Mailing Address - 1650 Almar Parkway, Santa Rosa, CA 95403

Phone - (707) 573-3141

Fax - (707) 573-3140

Toll Free - (888) 313-7947

E-mail - [sales@pnlspecialties.com](mailto:sales@pnlspecialties.com)