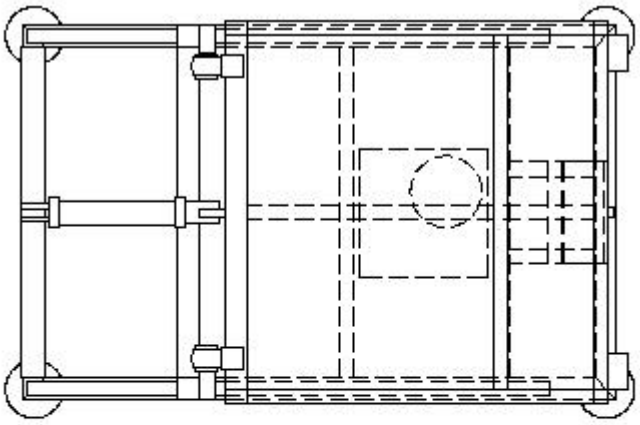
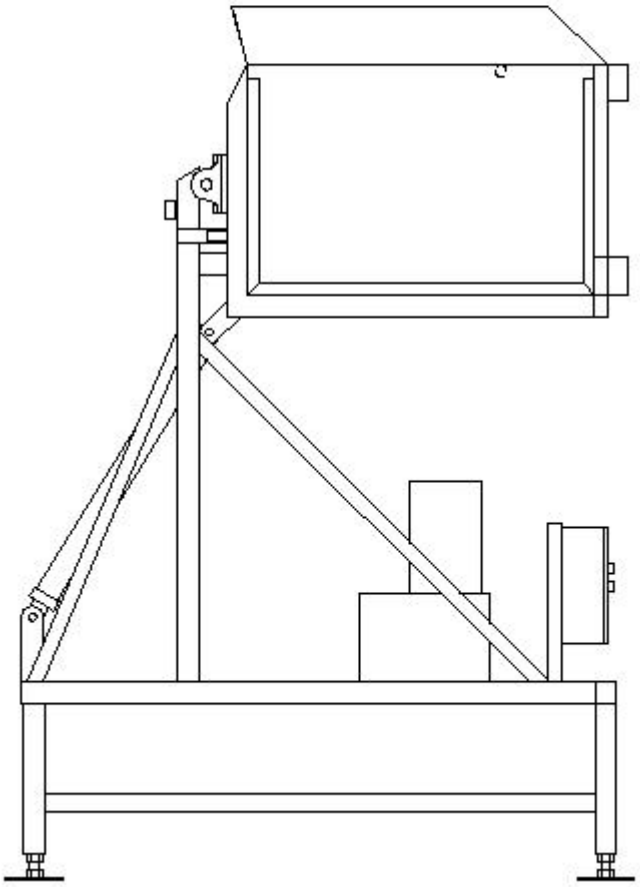
P&L SPECIALTIES

MANUFACTURING THE FINEST STAINLESS STEEL EQUIPMENT





1/2 TON BIN DUMPER OPERATION MANUAL

SERIAL NO._____ DATE OF MANUFACTURE_____

EQUIPMENT DESCRIPTION

1/2 TON BIN DUMPER

The ½ Ton Bin Dumper is a hydraulic transition device. It is designed to make the transition from forklift-delivered ½ ton bins to the processing equipment as smooth as possible. It allows an operator to effortlessly moderate the amount of product being delivered to the other processing equipment. The forklift operator's focus is solely on loading and unloading bins making the process more efficient.

This device can be integrated into the beginning of the sorting system.

The ½ Ton Bin Dumper features include: all stainless steel construction for ease of cleaning, a heavy duty hydraulic system and dual foot-actuated controls on a 25 foot tether.

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. Position and level the unit to ensure safe and stable operation.

3. Check the hydraulic fluid level at the hydraulic power pack sight glass. Tank fluid levels are acceptable if the fluid appears anywhere in the range of the sight glass indicator. Fill to acceptable level if necessary prior to start up.

WARNING
This unit is polarity sensitive. The plug wiring will cause the motor to rotate in either direction.

4. Perform the initial plug wiring.

5. Connect the unit to the appropriate power source (voltage/phase).

6. Engage the main power button.

7. Carefully turn on the pump motor and observe the turning direction of the motor fan blades. They should turn in the correct direction as indicated by the arrow. If not, disengage the pump motor and disconnect the main power and unplug the unit. Correct the direction of the pump motor by then swapping two of the power leads in the plug.

8. With no bin or load actuate the bin dumper up and down for approximately 5 cycles.

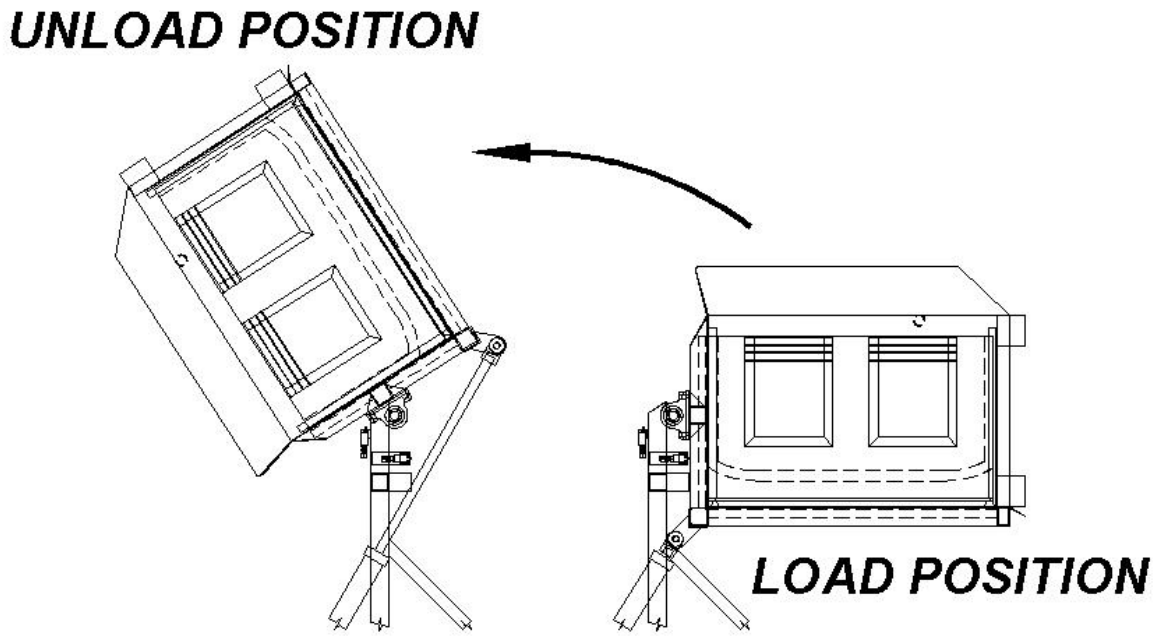
The speed at which the unit actuates is controlled through the use of flow valves located on the power pack. They have been adjusted and preset by factory test runs and should not need adjustment (refer to the power pack manual).

OPERATION

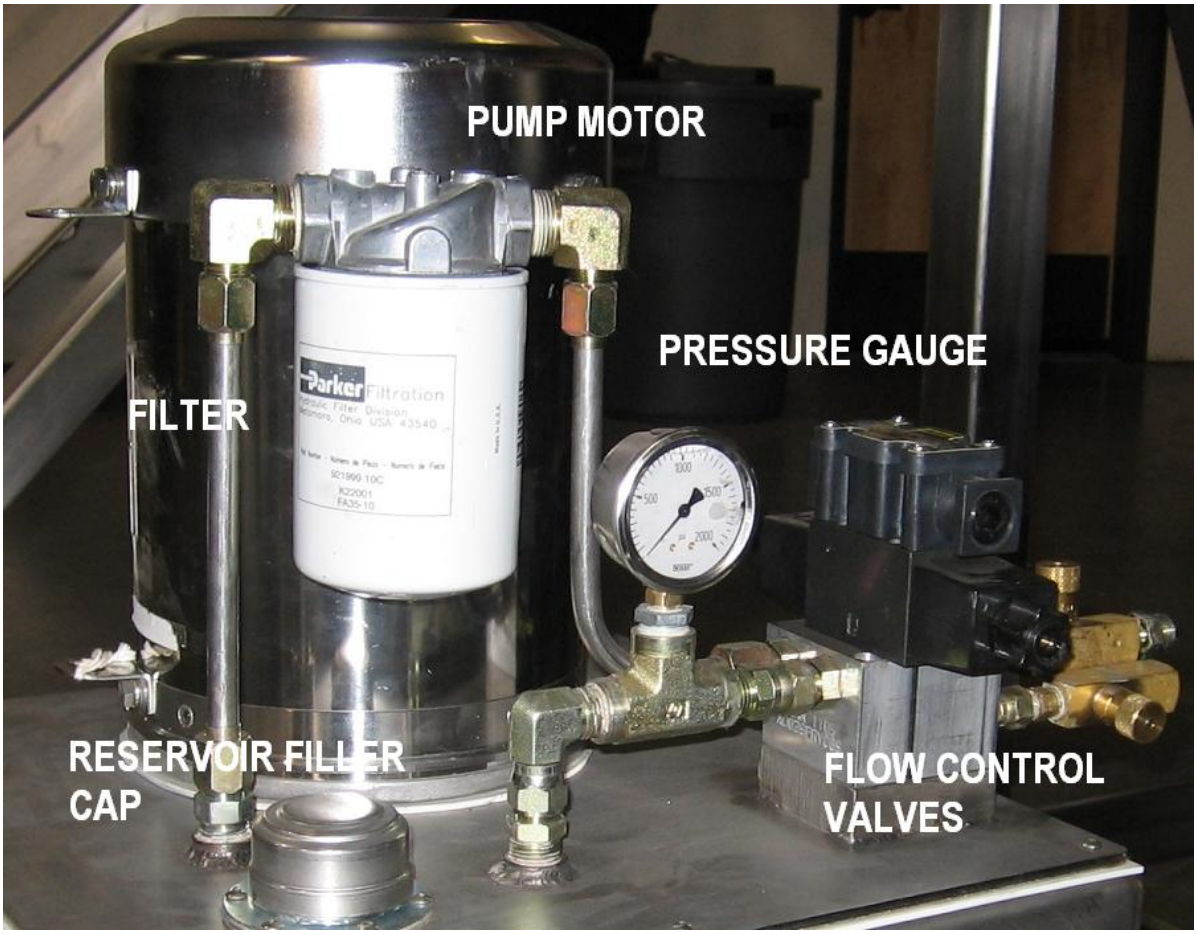
WARNING
Always ensure that ALL personnel are free and clear of the equipment prior to and during operation. Always power down and let the unit come to full and complete stop then disconnect the power prior to performing and service or maintenance to the unit.

The unit is operated through the use of a remote tether-mounted foot-actuated control. Once a full bin has been delivered into the bin carrier frame the **UP** foot control pedal is engaged, rotating the bin and dumping the load. Once the bin has been emptied, the **DOWN** foot control pedal is engaged returning the bin carrier frame to the load position and allowing the empty bin to then be removed.

The position of the bin can also be metered by using the foot actuated controls. This allows for the partial dumping of product in order to control the flow into the next stage of the process.



The speed at which the bin dumper actuates is factory set. This speed may be increased or decreased by adjusting the flow control valves located atop the hydraulic power pack (see picture below).



SERVICE AND MAINTENANCE

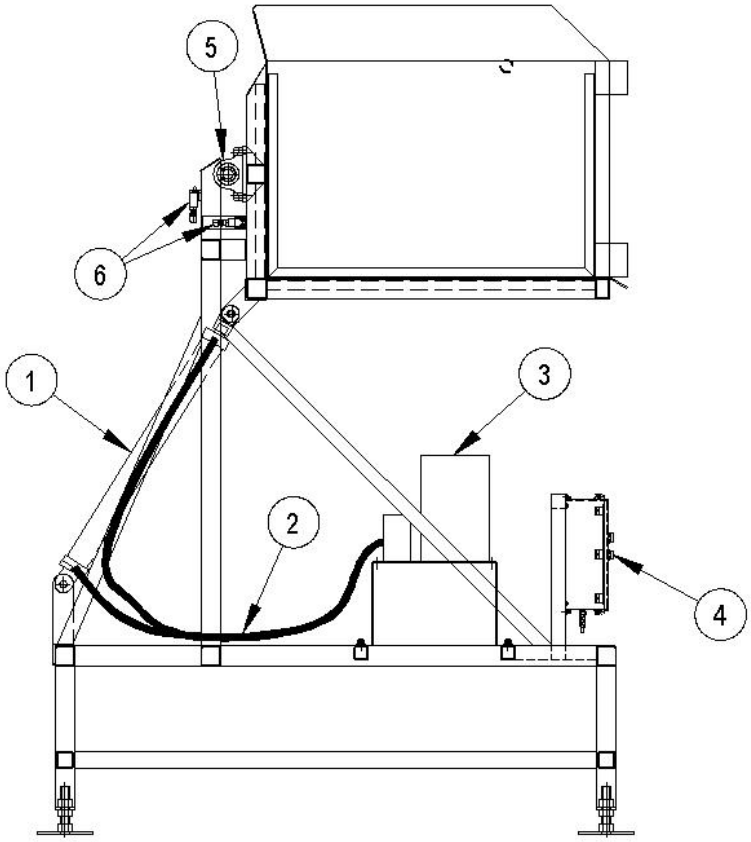
WARNING
Always ensure that ALL personnel are free and clear of the equipment prior to and during operation. Always power down and let the unit come to full and complete stop then disconnect the power prior to performing and service or maintenance to the unit.

WARNING
Never power wash the control panel, hydraulic power pack or foot control valves.

Visually inspect the unit daily 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. Check the hydraulic fluid level. Check the condition of the hydraulic fluid. Fluid should be clear and free from contaminates. Replace any dirty or milky colored fluid. Check all hydraulic hoses and fittings for signs of damage or leaks. Replace any damaged or leaky hoses immediately.

Monthly and at the end of the season it is recommended that the unit be thoroughly cleaned. Lubricate the bearings using NLGI #2 type EP grease. Check and fill the hydraulic reservoir to the proper level. Check the bearing hold down bolts for tightness. Also the unit should be covered with a UV-protection drop cloth in order to prolong the life of the hydraulic power pack and hoses.



SPARE PARTS LIST

ITEM 1
Hydraulic Cylinder – 3” diameter bore x 36” stroke

ITEM 2
Hydraulic Hose

ITEM 3
Hydraulic Power Pack Assembly

ITEM 4
Control Panel with Dual Foot Controls

ITEM 5
Pillow Block Bearing – 2 bolt – 1-½” bore – Type E

ITEM 6
Limit Switch Assembly

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