

INSTRUCTIONS

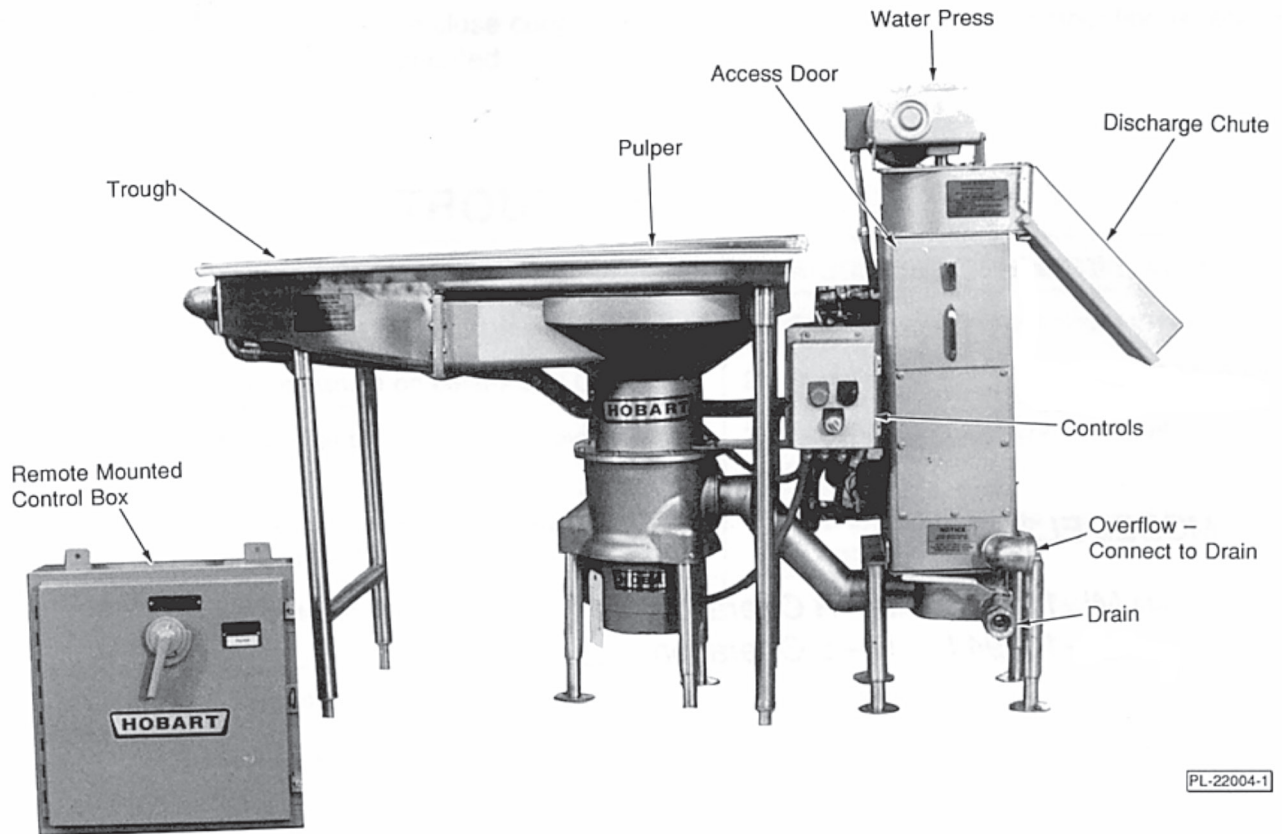
MINIPULPER

MODEL EL3

ML-103943 L – R Operation
ML-103944 R – L Operation



EXECUTIVE OFFICES
TROY, OHIO 45374



Model EL3 MiniPulper

Installation, Operation and Care of MODEL EL3 MINIPULPER

SAVE THESE INSTRUCTIONS

GENERAL

The Model EL3 MiniPulper is a waste pulping system that shreds grindable waste, then squeezes the moisture out and compacts it into semi-dry pulp — reducing the original volume significantly. The pulper has a 5 horsepower Hobart built motor with Ni-resist and stainless steel components designed to cut and shred. Water mixes with the waste during the pulping process. The slurry of water and waste moves to the water press where a stainless steel screw squeezes out the water while it raises the semi-dry pulp to the discharge chute. The process water is recycled to the pulper. The optional trough/table, if furnished by Hobart, is pre-plumbed, pre-cut and requires only one connection.

MiniPulper processes up to 275 pounds per hour of mixed waste or up to 475 pounds per hour of food waste. The water press tank has 3 gallon capacity.

OPTIONAL ACCESSORIES

	Field Installable	Factory Installed Only
Table with Trough	✓	
Automatic Shutdown Timer		✓
Waterpress Screen Flush (Requires Automatic Shutdown Timer)		✓
Hinged Cover on Pulper Cone		✓
Remote Start/Stop Pushbutton Station	✓	

INSTALLATION

UNPACKING

Immediately after unpacking, check for possible shipping damage. If the MiniPulper is found to be damaged after unpacking, save the packaging material and contact the carrier within 15 days of delivery.

Prior to installation, check the electrical service to make sure it agrees with the specifications on the data plates which are located on the outside of the push button station on the water press and on the inside bottom of the control panel box.

LOCATION

Locate the MiniPulper near a floor drain; floor should be pitched a minimum of 1/4" per foot to the floor drain. A suitable amount of space should be provided for machine operation, cleaning and service.

LEVELING

Vibration isolation pads (provided) must be installed under each leg of the MiniPulper. Level the MiniPulper by threading the adjustable feet up or down as necessary. After leveling, anchor the flange feet to the floor (anchoring hardware by others).

TABLE

IF THE TABLE IS SUPPLIED BY OTHERS, the installation drawing provides details for modifying the table for use with the MiniPulper. A hole must be cut in the table; the transition ring must be welded in place; and a trough must be provided — all according to the installation drawing. After table fabrication, mount the nozzle and throttle valve, provided, to the table and connect the recirculating pump to the trough (piping not provided).

IF THE OPTIONAL TABLE IS PROVIDED BY HOBART, connect the recirculating pump to the piping going to the trough. The nozzle and throttle valve are mounted to the table/trough at the factory and the pulper is assembled to the table.

PLUMBING CONNECTIONS

WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

Connect cold water supply to the ¾" FPT fill connection at the rear of the water press. Recommended flowing pressure to fill connection is 20 – 45 psig. If higher pressures than 45 psig are present, a pressure regulating valve must be supplied (by others). A shutoff valve (not supplied) should be installed in the fresh water supply line; make connection with a union (not supplied) at the rear of the water press. Separate hot and cold water supply lines should be provided at a convenient location near the machine for use during cleaning; each should be equipped with a gate-type valve, terminate at a hose bib, have a heavy duty hose and a lever operated nozzle.

Drain Connections

Connect ¾" FPT backflow preventer vent to the drain. Connect the 1½" FPT drain valve at the front of the water press to an open drain. Connect the 2" FPT overflow at the front of the water press to an open drain. These three drains discharge to an open floor drain with 3" minimum drain line (by others).

Adjust Throttle Valve

Adjust the throttle valve so the water flows freely down the trough to the pulper without backing up.

ELECTRICAL CONNECTIONS

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE DISCONNECT SWITCH AND PLACE A TAG AT THE SWITCH TO INDICATE YOU ARE WORKING ON THE CIRCUIT.

ELECTRICAL DATA

Model	Volts	Hertz	Phase	CIRCUIT SIZE * Amps
EL3	200 – 208	60	3	35
	220 – 240	60	3	35
	440 – 480	60	3	15

* Maximum Circuit Breaker Size / Minimum Circuit Amperage compiled in accordance with the National Electrical Code, 1990 edition.

Refer to the wiring diagram located inside the Remote Control Box.

Remote Mounted Control Box

To facilitate field wiring, terminal blocks are provided in both the Remote Mounted Control Box (NEMA 12) and the Junction Box located between the Pulper and Water Press. Conduit and wiring (by others) should be installed according to the electrical diagram.

Remote Start/Stop Push-Button Junction Box (optional)

A Remote junction box with Start and Stop push-button switches is optionally available and can be installed in a suitable, convenient location per local codes and the electrical diagram.

Motor Rotation

The Pulper motor reverses with each cycle and can run in either direction.

The Water Press motor and the Pump motor must be checked for correct rotation. Motor rotation can only be checked after the machine has filled. An arrow on the water press and another on the recirculating pump indicate the correct directions of motor rotation. Motor shafts are visible to detect motor rotation.

To check direction of rotation, turn power ON. With cover plate in place and discharge chute lowered, push the START button; then push the STOP button. **DISCONNECT ELECTRICAL POWER SUPPLY.**

If incorrect motor rotation is found, interchange any two power supply leads at the power disconnect switch inside the main control box. Close door on main control box. Reconnect electric power. Turn machine on momentarily to verify correct motor rotation.

OPERATION

CONTROLS (Fig. 1)

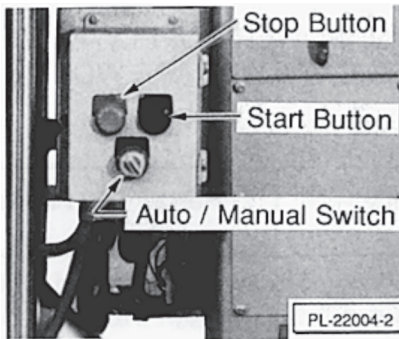


Fig. 1

WARNING: THE PULPER COVER AND THE DISCHARGE CHUTE ARE EQUIPPED WITH INTERLOCK DEVICES. THE COVER MUST BE IN PLACE AND THE DISCHARGE CHUTE MUST BE LOWERED BEFORE THE MACHINE IS USED.

Power Disconnect Switch — Controls power to the motor circuits and latches the main control box door.

START Button — Turns system ON: Water supply; Pulper motor; Water press; and Recirculating pump.

STOP Button — Turns system OFF: Water supply; Pulper motor; Water press; and Recirculating pump.

Automatic Shutdown Timer (Optional) —

MANUAL — START turns system on and STOP turns system off.

AUTO — START begins operating the system for a preset period of time after which the MiniPulper automatically stops. The duration of timed operation may be adjusted by qualified service personnel from 0 to 3 minutes. Pressing the STOP button will interrupt the timed cycle and terminate machine operation.

Screen Flush (Optional) (Automatic Shutdown Timer Option Required) —

Rinses the screen in the water press during AUTO shutdown.

USING THE MINIPULPER

1. Be sure Main Power Switch is ON. Close the drain valve.
2. Open the fresh water shutoff valve.
3. Lower the discharge chute.
4. Install the cover plate over the pulper cone. Make sure the pins on the cover plate are seated properly in the slots.
5. Press START. The machine will begin filling with water. Allow the machine to completely fill before feeding waste. When the machine has filled to the proper level, the motors will start automatically. After the initial filling, the motors will start when you push the START button.

Feeding Waste

Waste material should be fed into the pulper no faster than the machine can process. **DO NOT OVERLOAD PULPER.** If waste material backs up in the inlet trough, wait until the machine can process the load before continuing to feed.

Drain and refill the machine daily with clean cold water. If the recirculating water stops flowing, stop the machine and refer to TROUBLESHOOTING.

The discharge receptacle (garbage can) should never be taller than the bottom of the chute. **DO NOT** allow pulp to back up inside the chute. Empty receptacle whenever necessary.

Special Feeding Instructions

Do not feed plastic bags or plastic wrap into pulper. If waste material is delivered in large plastic bags, dump the waste material and dispose of the plastic bags separately. **DO NOT FEED** glass or metal containers. Glass and metal are highly abrasive and accelerate machine wear. Recycle glass and metal containers — a can / bottle crusher can be used. **DO NOT FEED** any rags, mop heads, wooden crates, oyster, clam or muscle shells, or heavy uncooked bones to the pulper.

CLEANING

Clean the MiniPulper daily. Regular cleaning is necessary to keep the area neat and minimize odors. A hose with a good quality, lever-operated nozzle should be available, preferably with hot water, for clean-up of both the machine and the surrounding area.

After the last waste has been fed into the machine, allow the machine to continue running for about three minutes to be sure that all waste has been processed. Press **STOP** and wait for disk to stop rotating.

WARNING: DISCONNECT POWER SUPPLY AT MAIN CONTROL BOX; PLACE A TAG AT THE DISCONNECT SWITCH INDICATING THAT YOU ARE WORKING ON THE CIRCUIT; AND WAIT FOR PULPER DISC TO COME TO A COMPLETE STOP BEFORE PERFORMING ANY CLEANING PROCEDURES.

Remove the cover plate. Open drain valve and drain the machine.

Use hose at high pressure to wash the inside of the pulping tank.

Remove the access door on the water press. Use the high pressure hose to wash down the interior of the water press and the separator screen. Remove any loose pulp remaining in the pulp discharge chute and the pulper cone. Flush lightly with the hose.

It is not necessary to dig out the plug of pulp remaining at the top of the screw. To eliminate concern about leaving this stand overnight, run some clean waste paper products, such as egg cartons, through the machine at the end of the operating period. A plug of paper pulp remaining in the plug area will minimize the possibility of odor developing. After the machine has been cleaned, clean the floor, close the drain valve, and dispose of pulp.

Restore power before next machine operation.

MAINTENANCE

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH TO INDICATE YOU ARE WORKING ON THE CIRCUIT BEFORE BEGINNING ANY MAINTENANCE PROCEDURE.

MOTORS

Keep motors free of dirt and do not restrict ventilation openings.

LUBRICATION

The water press drive consists of a close coupled motor and speed reducer. No lubrication is required. Speed reducer is permanently lubricated.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	SUGGESTED CORRECTIVE ACTION
Machine Will Not Start	1. Circuit breaker tripped at power supply.	1. Replace fuse or reset circuit breaker.
	2. Power handle on control box OFF.	2. Push handle ON.
	3. Discharge chute raised or cover plate removed.	3. Lower discharge chute or install cover plate.
	4. Pulper or water press jammed, causing an overload.	4. Turn machine off and call your local Hobart service office.
	5. No water in machine.	5. See "No Water or No Water Make-up" below.
No Water or No Water Make-up	1. Water supply off.	1. Turn water supply on.
	2. Drain valve open or leaking.	2. Close drain valve. Repair if leaking.
	3. Line strainer plugged.	3. Remove line strainer and clean it.
Pulper Jammed	1. Pulper overloaded.	1. Turn machine off. Clean out and restart.
	2. Pulping disc jammed with scrap metal.	2. Stop machine, then restart it. This automatically reverses the motor. If jam does not clear, call for service.
Water Press Jammed	1. Discharge chute obstructed.	1. Turn machine off. Remove residual pulp.
	2. Hardened plug in water press.	2. Remove hardened waste material.

For any other service problems, contact your local Hobart service office.