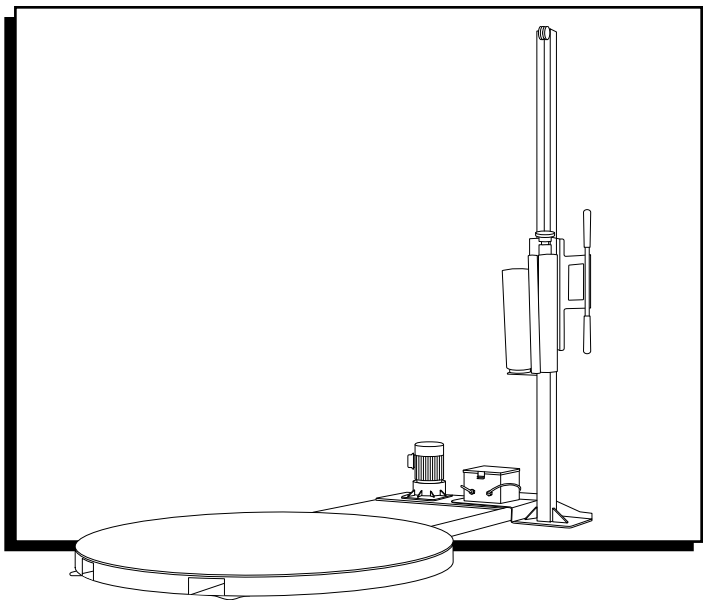
ULINE H-2304
MANUAL STRETCH WRAP MACHINE

1-800-295-5510
uline.com



SYSTEM SPECIFICATIONS

IMPORTANT!

Read this manual thoroughly and familiarize yourself with ALL controls and operating features. Keep this manual for future reference and maintenance.

Unpacking: Check the machine for damage. If damage is found, return to Uline.

TECHNICAL DATA

- Length: 95"
- Width: 60"
- Turntable Height from Floor: 3¼"
- Operation Space: 105" L x 75" W
- Maximum Pallet Size: 52" x 52"
- Shipping Weight: 1000 lbs

ELECTRICAL SPECIFICATIONS

- 120VAC, 60 Hz, Single-phase, 15AMP

TURNTABLE SPECIFICATIONS

- ½ HP 3-phase AC motor
- ½ HP AC frequency drive with acceleration and deceleration control
- 12 RPM turntable maximum speed
- 4,000 lbs turntable maximum load capacity

FILM ROLL CAPACITY

- 12"-18" width hand wrap film with 3" inner diameter core
- 1000'- 2000' length depending on film gauge and film manufacturer

CAUTION! Motor control equipment and electronic controllers are connected to hazardous line voltages. When servicing drive and controllers, there may be exposed components with housings or protrusions at or above line potential. Extreme care should be taken to protect against shock.

The user is responsible for conforming to all applicable code requirements with respect to grounding all requirements. Do NOT use extension cords to operate the equipment.

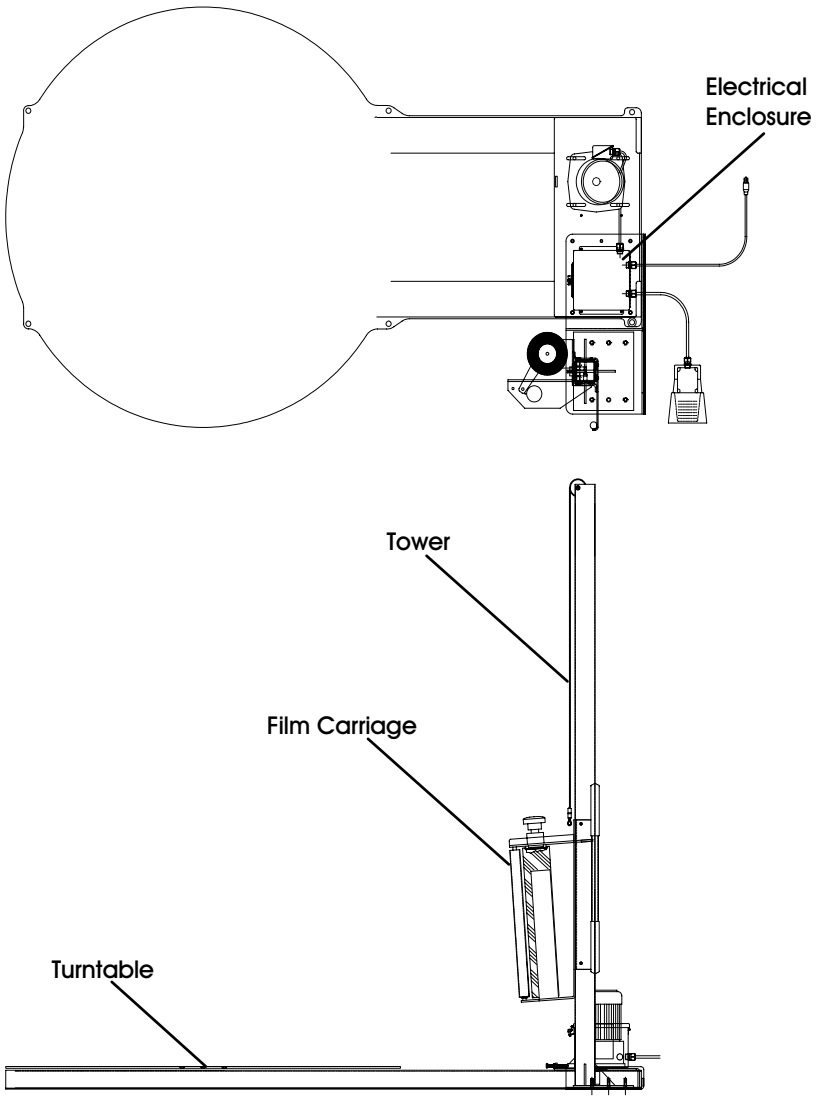
Disconnect AC input power before checking components, performing maintenance, cleaning up, and when the machine is not in use. Do NOT connect or disconnect wires and connectors while power is applied to circuit.

Wiring work should be carried out only by qualified personnel. There is a danger of electric shock or fire.

WARNING! Loose clothing must NOT be worn while the machine is in operation. Stay clear of moving parts while the machine is running.

SYSTEM DESCRIPTION

Figure 1



SYSTEM SET-UP

MACHINE PLACEMENT

Place the automatic stretch wrap machine close to an area where you will be wrapping your pallet loads. Make sure that there is sufficient room to load/unload the machine and that you do not stretch the wiring cable. Remember, you will need to provide electrical service to a 120 VAC, 15-AMP outlet.

FLOOR WEIGHT BEARING TOLERANCE

The floor must be able to bear the weight of the machine, the weight of the maximum load, plus a safety factor. The floor must also be able to tolerate the stress of the machine's operation. If the fork trucks will operate on the same weight bearing area, add the weight of the trucks to the weight bearing stress tolerance requirements.

MACHINE SET-UP

NOTE: To minimize damage during shipping, tower is unhooked from the frame and is laying down. To stand the tower up, 2 people and 9/16" wrench will be needed.

1. Remove the 5 nuts and washers located on the tower end of the frame using a 9/16" wrench. (See Figure 2) The extra hole is to be used to lag the machine to the floor.
2. 2 people may now stand the tower up. Position the tower so the film carriage faces the turntable. Align the holes in the base of the tower with the 5 threaded studs in the frame. (See Figure 3)
3. Tighten the 5 bolts using the 9/16" wrench.
4. Unwrap the machine and refer to the operations manual to use it.
5. Place forks of the forklift through the tubes provided at the rear base of the module, remove the machine from these skids, and place it at the designated wrap area.
6. If the OPTIONAL ramp (H-1071) is purchased: Select a ramp position. The ramp can be positioned anywhere in a 180° rotation around the front of the turntable. There should be a ¼" gap between the turntable and the ramp. The ramp should be fully supported by the floor. Both the ramp and the machine should be lagged to the floor.

OPERATION

FILM LOADING

1. Place the film on the film mandrel.
2. Follow the film feed diagram and thread the 6 foot film tail all the way through the rollers. (See Figure 4)
3. Attach the film securely to the pallet. Tying the end of the film in a knot often helps secure the film to the pallet.

OPERATING

Simply step on the foot pedal to start the turntable drive motor. The foot pedal is a maintained switch. Pressing the pedal again turns the turntable motor off. Apply film as desired by raising and lowering the carriage.

Figure 2

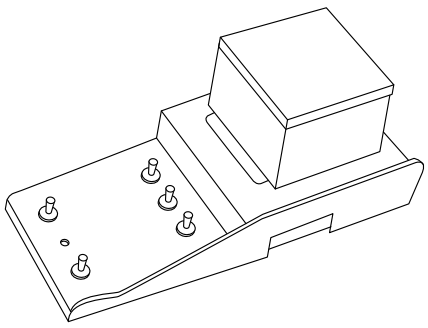
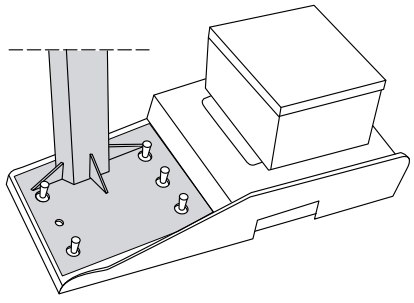


Figure 3



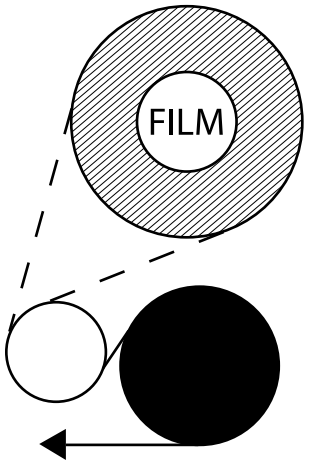
FILM FORCE

Film force is controlled by the knob on top of the large black mandrel. Turning the knob clockwise increases the Force-to-Load. This in turn increases the post-stretch of the film.

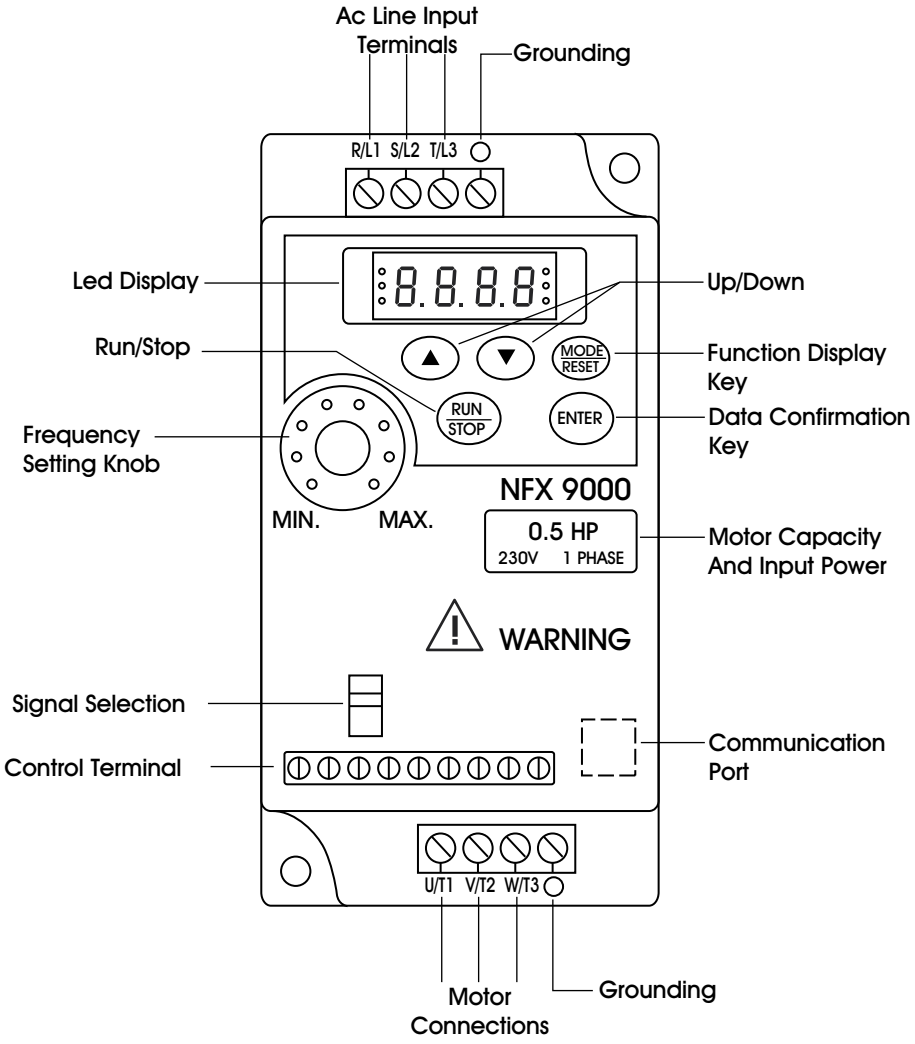
TURNTABLE SPEED ADJUSTMENT

The turntable speed is adjusted by a built-in potentiometer dial on the AC frequency drive. Turn clockwise to increase, counter-clockwise to decrease. The maximum turntable speed is 12 RPM.

Figure 4



OPERATOR CONTROLS



PROGRAMMABLE FUNCTIONS

NOTE: Refer to the manufacturer's operation manual or website for complete lists and explanations.

- 1-00 – Maximum Output Frequency
  This parameter determines the AC drive's Maximum Output Frequency. All the AC drive accelerations and decelerations are scaled to correspond to this maximum output frequency.
- 1-05 – Minimum Output Frequency
  This parameter sets the Minimum Output Frequency of the AC drive. This parameter must be equal to or less than the Mid-Point Frequency (50.7).
- 1-09 – Acceleration Time
  This is used to set the acceleration time. The acceleration time is based on the time it takes for the drive output to reach 60 Hz.
- 1-10 – Deceleration Time
  This is used to set the deceleration time. The deceleration time is based on the time it takes for the drive output to reach zero speed (from 60 Hz) after a stop or zero command is given.
- 2-00 – Source of Frequency Command
  This is used to set the drive for either keypad control or external signal input control.
- 2-01 – Source of Operation Command
  This is used to set the drive to determine operating commands from the Digital Keypad or external signal inputs.
- 7-00 – Motor Rated Current
  The value must be between 30 to 120% of the drives rated output current. This parameter sets the drive's output current limit.
- 8-00 – DC Brake Voltage Level
  This parameter determines the amount of DC Braking voltage applied to the motor during start-up and stopping. This value must be between 0% and 30%.
- 8-02 – DC Braking Time upon a Stop
  This parameter determines the duration of time that the DC braking voltage will be applied to the motor upon a stop command of the AC drive.
- 8-14 - Auto Restart After Fault
  After a fault occurs, the AC drive can be reset/re-started automatically up to 10 times. Setting this parameter to 0 will disable the reset/restart operation after any fault has occurred.

FAULT DETECTION

FAULT NAME	FAULT DESCRIPTION	CORRECTIVE ACTIONS
oc	The AC drive detects an abnormal increase in current.	Check the wiring connections between the AC drive and motor for possible short circuits. Increase the acceleration time. Check for excessive loading conditions at the motor.
oH	The AC drive temperature sensor detects excessive heat.	Make sure the ambient temperature falls within the specified temperature range. Remove any foreign objects from the heat-sink, and check for possible dirty heat-sink fins.
oL	The AC drive detects excessive drive output current.	Check if the motor is overloaded.
oL1	Internal electronic overload trip.	Check for possible motor overload. Check electronic thermal overload setting.
oL2	Motor overload.	Reduce the motor load.

TROUBLESHOOTING GUIDE

WARNING! Make sure that only qualified personnel perform inspection, troubleshooting and part replacement.

CAUTION! Disconnect all power including external control power that may be present before servicing the frequency drive controllers. WAIT for three (3) minutes for the DC bus capacitors to discharge. The frequency drive controller' display and/or LED's are not accurate indicators of the absence of DC bus voltage.

OPERATING ISSUE	CAUSES	RECOMMENDATIONS
Machine not powering on.	The system is not plugged into a 120VAC outlet.	Plug machine into a 120VAC outlet.
	Does not have continuity.	Use a voltmeter to test continuity of the power cord. Replace the power cord to the machine. Replace the main circuit breaker.
	The frequency drive circuit breaker is not on.	Switch the main circuit breaker on.
	Use a voltmeter to test continuity across the circuit breaker. Does it have continuity?	Replace the main circuit breaker.
	It is not receiving the charge.	Use a voltmeter to read input voltage to the frequency drive. Tighten or replace wiring to the frequency drive(s).
Turntable is malfunctioning.	It is not set high enough.	Locate the turntable speed potentiometer dial on the AC frequency drive. Adjust potentiometer towards 100% to set speed.
	It is not functioning properly.	Step on the foot switch, and use a voltmeter to test for continuity of the foot switch. Tighten wiring, replace the foot switch if necessary.
	The frequency drive is not functioning (i.e. no faults displayed).	Remove power to the drive. Wait sixty seconds, and supply power back. Refer to frequency drive manufacturer's manual for specific fault.
	The frequency drive is not connected properly to the motor.	Locate the turntable motor, and use a voltmeter to check continuity of all motor wires. Tighten or replace wiring as necessary. Replace the turntable frequency drive.