



GLOBAL INDUSTRIAL 238507 Stretch Pallet Wrapper with Scale Instruction Manual

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GLOBAL INDUSTRIAL 238507 Stretch Pallet Wrapper with Scale



Product Information

Model	238507
Machine Dimension	Length: 96.5 inches Width: 59 inches Height: 89.4 inches Turntable Diameter: 59 inches Turntable Height from Floor: 5.12 inches Wrapping Height: 83 inches Operation Space: 97 x 60 x 90 inches Maximum Load Size: 47 x 31 x 82 inches
Electrical Specification	Power Supply: 120V 60HZ Single-Phase Power Consumption: 1000W
Turntable System	Maximum Speed: 13 RPM Maximum Load Capacity: 4400 lbs Rounds per Minute: 1-13 Rotating Direction: Clockwise
Film Delivery System	Tension Adjustment: Infinite/Manual Roll Capacity: 10 inches Diameter Inner Film Roll Diameter: 3 inches Roll Width Capacity: 20 inches
Machine Features	PLC User Interface Modes: 5 automatic modes + 1 manual mode Close Loop Self-Adjusting Film Carriage Allowable Package Weight: 22 lbs – 4400 lbs Safety Features: Emergency Stop Button, Sensor for Detecting Obstacles Scale and Printer for Weighing and Printing Weight Label Interval between Wrapping Operations: More than 3 minutes

Product Usage Instructions

CAUTION!

- When servicing drive and controllers, take extreme care to protect against shock.
- Conform to all applicable code requirements regarding grounding.
- Do NOT use extension cords to operate the equipment.
- Disconnect AC input power when the machine is not in use and before checking components, performing maintenance, cleaning up, and connecting/disconnecting wires and connectors.
- Always plug into a grounded outlet with the rated voltage.
- Avoid wearing loose clothing and stay clear of moving parts while the machine is running.
- This product is for industrial and indoor use only. Do not immerse in water.
- Disconnect from power supply before servicing and opening. Only connect to properly grounded outlets. Any servicing should be performed by an authorized service representative as the product has no user serviceable parts.
- The door lock can only be opened by authorized service personnel.

System Set-up

Machine Set-up:

1. Raise the tower upright safely with two people.
2. Put the table base on the floor and calibrate the bolts for the 4 gravity sensors.
3. Tighten the screws between the tower and the turntable base.
4. Screw the film carriage into the post.
5. Connect to the power supply and perform a ground test before using the machine.

Note: Installation requires two people. Be careful when standing on the turntable during installation, as it may turn when rotational force is applied.

Machine Dimension

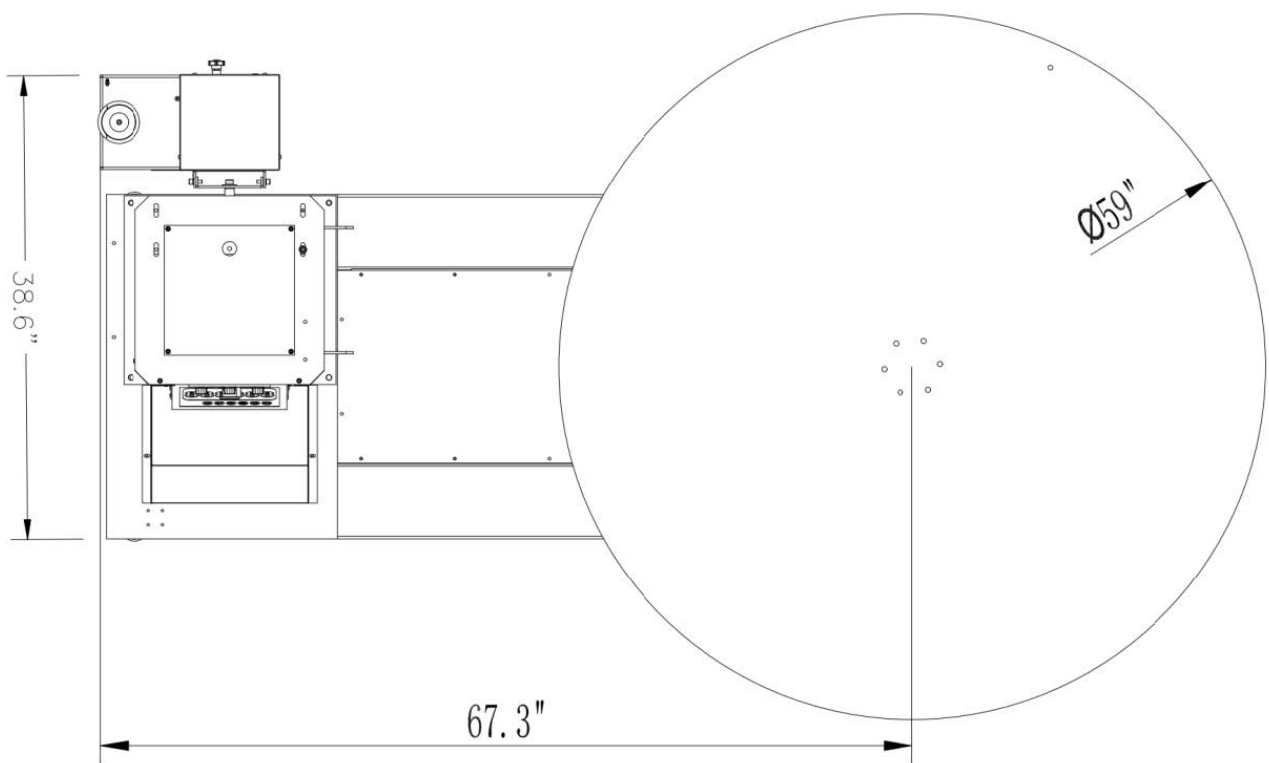
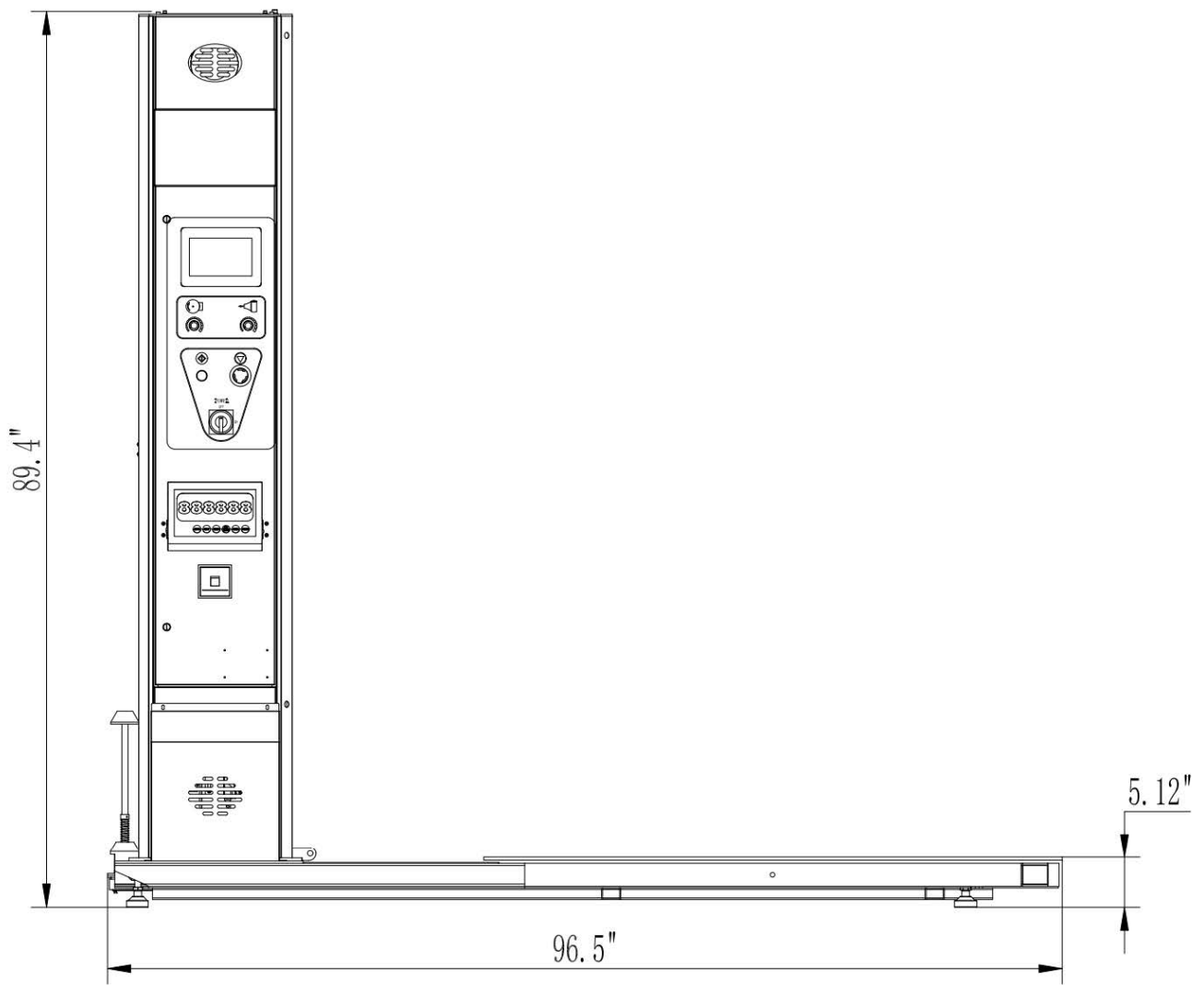


fig 1

System Specification

Machine Dimension (See Figure 1)

Length	96.5"
Width	59"
Height	89.4"
Turntable Diameter	59"
Turntable Height from Floor	5.12"
Wrapping Height	83"
Operation Space	97" x 60" x 90"
Maximum Load Size	47" x 31" x 82"

Electrical Specification

- 120V 60HZ Single-Phase
- Power Supply: 1000W

Turntable System

- 13RPM turntable maximum speed
- 4400 lbs turntable maximum load capacity
- 1-13 rounds/minute
- Clockwise rotating turntable direction

Film Delivery System

- Infinite/Manual Tension Adjustment
- 10" Diameter Roll Capacity
- 3" inner film roll diameter
- 20" Roll width Capacity

Machine Features

- Programmable logic controller (PLC) user interface
- 6 Modes: that's 5 automatic modes+1 manual mode
- The film carriage adopts close loop self-adjusting technology, to ensure each package is evenly wrapped
- Allowable package weight (22lbs-4400lbs)
- SAFETY: The machine has an emergency stop button & sensor underneath the film carriage. Once an object is detected underneath the moving film carriage, the machine will stop.
- The machine is equipped with scale to weigh pallet weight and printer to print weight label.
- The interval between 2 wrapping operations is required to more than 3 minutes.

CAUTION!

- When servicing drive and controllers, they may be exposed components with housing or protrusions at or above the 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 requirements. Do NOT use extension cords to operate the equipment.
- Disconnect AC input power when the machine is not in use and before checking components, performing maintenance, cleaning up and. Do NOT connect or disconnect wires and connectors while power is applied to the circuit.



Always plug into a grounded outlet with the rated voltage.



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

- For industrial and indoor use only.
- Do not immerse in water.
- To Reduce the Risk of Electric Shock and Injury to Persons, Disconnect from Power Supply Before Servicing and Opening.
- To provide continued protection against risk of electric shock, connect to properly grounded outlets only.
- Any servicing should be performed by an authorized service representative AND that the product has no user serviceable parts.
- The door lock can only be opened by authorized service personnel.

System Set-up

Machine Placement

Place the semi-automatic Stretch Wrap Machine close to an area where you will be wrapping your pallet loads. Refer to figure 2 to insure the machine meets the minimum clearance space requirements. 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 120 VAC, 9.1-AMP outlet. (see Figure 2)

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
- operation. If the truck will operate on the same weight bearing area, add the weight of the trucks to the weight bearing stress tolerance requirement.

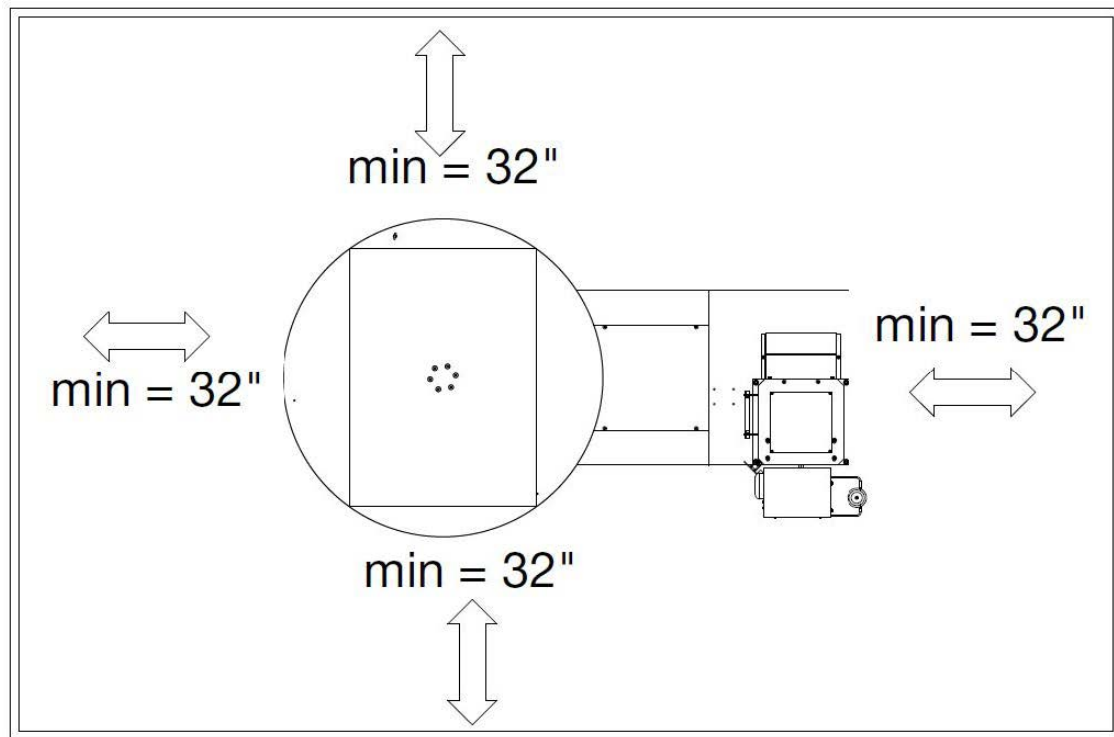
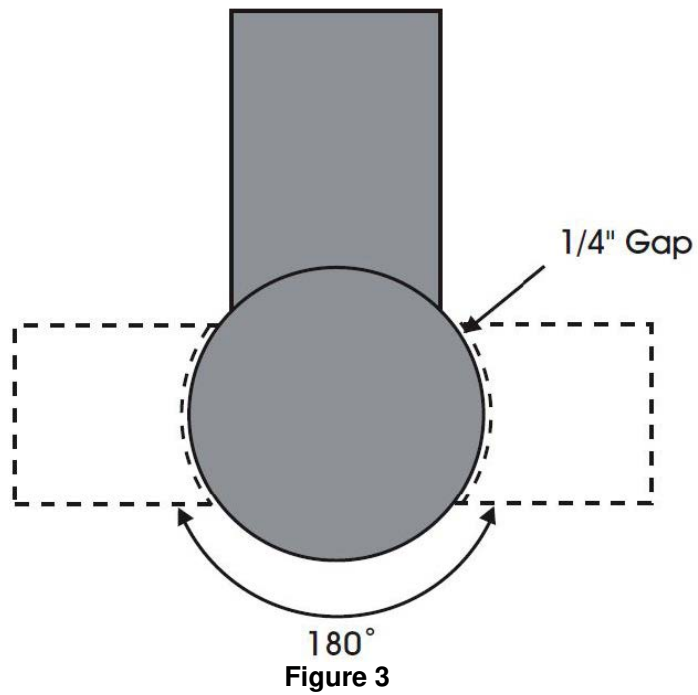



Figure 2

Machine Set-up

1. Place the crated machine close to the designated wrap area. Remove all shipping fasteners holding the machine to the pallet. The machine may be crated with the tower tilted down the motor cover front carriage roller removed for shipping purpose.
2. Place forks of the forklift through the tubes provided at the rear base of the module, remove the machine from crate and place it at the designated wrap area.
3. Check all internal connections to ensure there is no loose/disconnected electrical wiring.
4. Connect the motor wiring and sensor leads according to the corresponding wire numbers.
5. If the OPTIONAL ramp (Model NO: 241020) is purchased: Select a ramp position illustrated below. The ramp can be positioned anywhere in a 180 rotation around the front of the turntable. There should be a 1/4" gap between the turntable and the ramp. The ramp should be fully supported by the floor. (See Figure 3)



Installation

NOTE: Installation requires two people 

caution

Be careful when standing on the turntable during the installation, as it may turn when rotational force is applied.

1. Raise the tower upright safely with two people.
2. Put table base on the floor, calibrate the bolts for 4 gravity sensors. (See Figure 3-1)
3. Tighten the screws between the tower and the turntable base (See Figure 4)
4. Screw the film carriage into the post (See Figure 5)
5. Connect to the power supply and perform a ground test before using the machine.

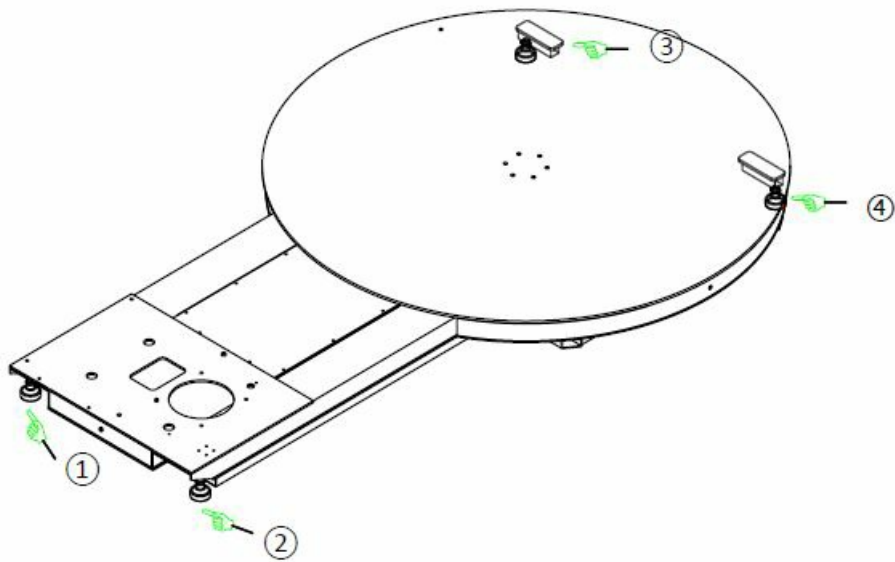


Figure 3-1

- Screw the set of (4) screws, washers, and lock washers through the tower and into the turntable base securely. (M10 x 20 screw)
- Screw the set of (2) screws connecting the tower and turntable (M8 x 10 screw)

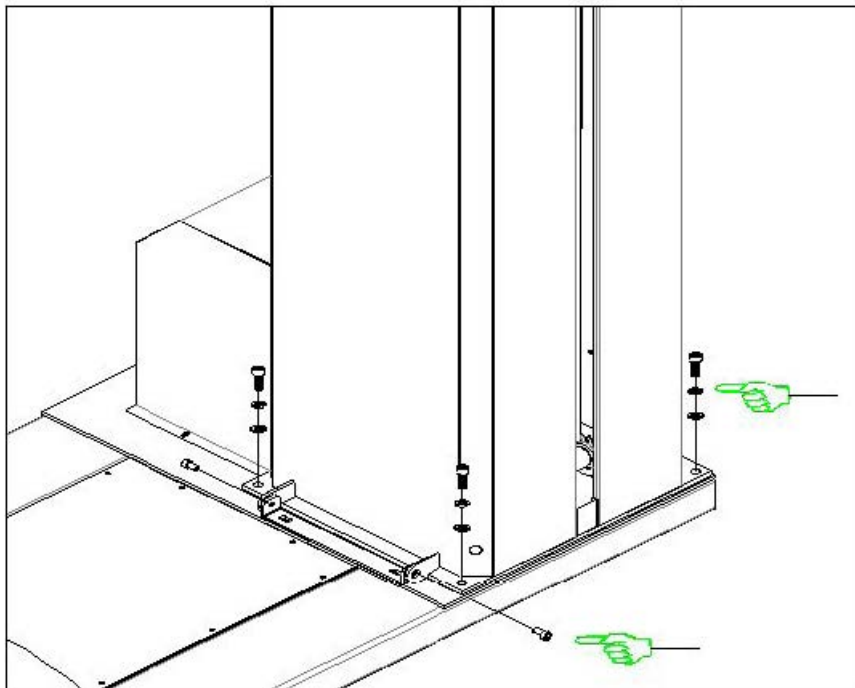


Figure 4

- Mount the film carriage onto the post by fastening a set of (2) screws. (M8 x 20 screw)

Mount the film carriage onto the post by fastening a set of (2) screws.
(M8 x 20 screw)

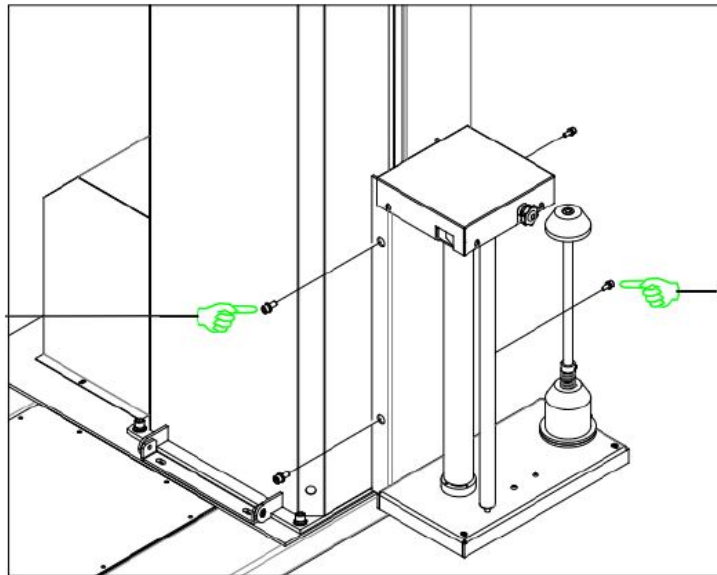
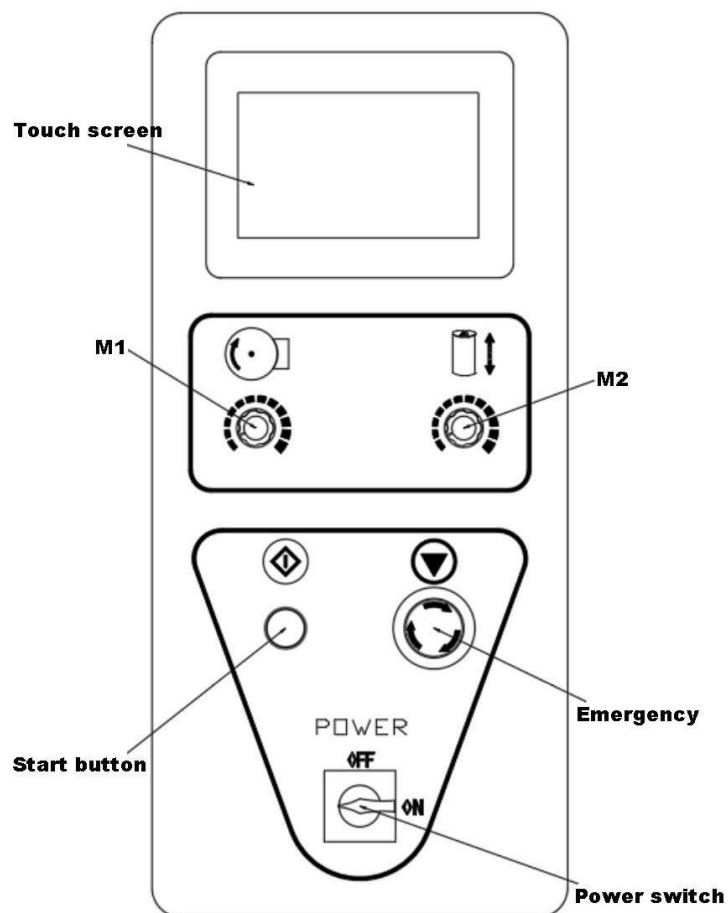


Figure 5

Control Panel Buttons



Speed Controller by M1, M2 knob

- M1: Control the speed of the turntable motor. The speed range 1-10 rpm.
- M2: Control the lifting motor speed

Start Button has three functions

- The start of the automatic mode starts
- Resume after emergency stop
- Use/Cancel the central reinforcement

Emergency Stop Button

- Press the emergency stop button to stop the machine immediately.
- Press the button when any emergency occurred during the packaging process.
- Turn the emergency stop button clockwise to reset the emergency stop button.

Power Switch

- OFF, Power off the machine
- ON, Power on the machine

Operator Controls

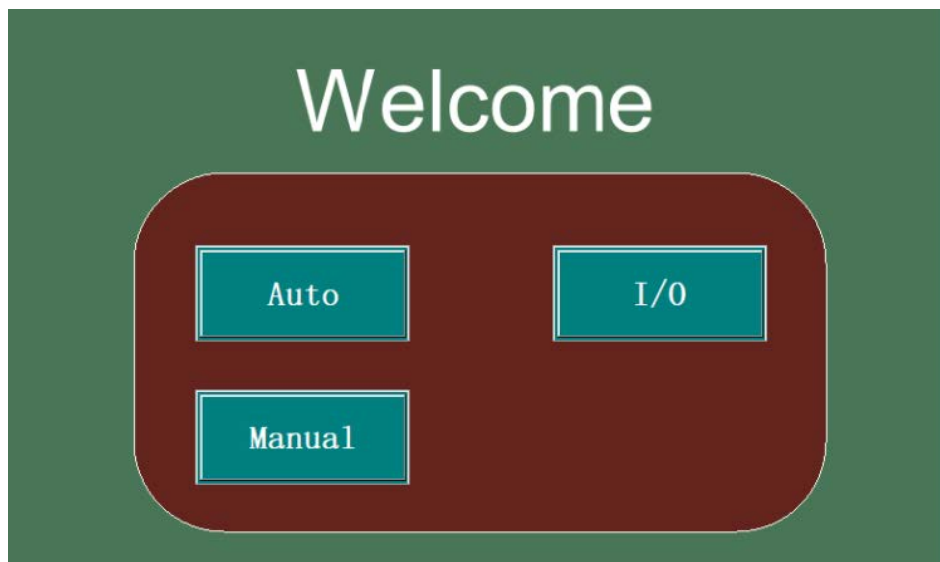


Figure 7 Main Menu Display

Manual

Press the manual interface button in the main menu to display the manual operation. (See Figure 8)

Carriage up/Carriage down

Manually operate the carriage to move up or down. When this function is pushed, the button will turn green. To pause the operation, simply push the button again. This button may be used in conjunction with the turntable start button.

Turntable Start

The turntable Start button allows you to manually operate the turntable. When this button is pushed, the button will turn green. Pushing the button again will stop the turntable. The button may be used in conjunction with Carriage up/down button.

Reset

Push the Reset button to reset the system operation. The Turntable will return to its home position and the carriage will lower to the initial position.

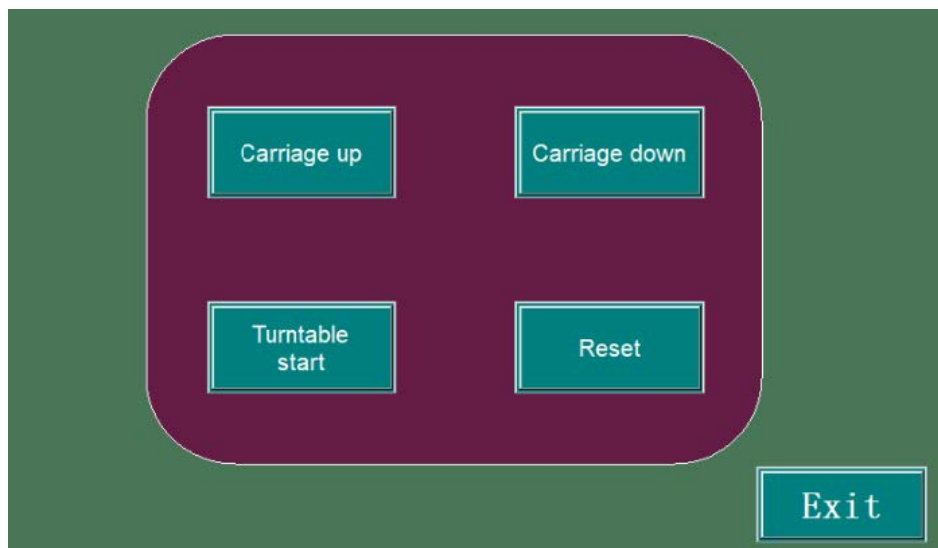


Figure 8 Manual Display

Auto

- Press the AUTO button in the main menu to set parameters through the interface shown in figure 9.
- The parameters can be set according to the following packaging requirements: Bottom laps, Top laps, lifting time, strengthening laps, film cutting time and electric eye delay. Press the white box to set each parameter through the pop-up numerical keyboard followed by pressing the Enter button.
- Once the parameters are set, click the “Save” button on the screen to store the parameters for assigned group number. A total of five sets of parameters can be stored. To use any of the saved parameters, select the group number. (See Figure 9)
- **NOTE:** The parameters and function settings cannot be changed when the machine is running.

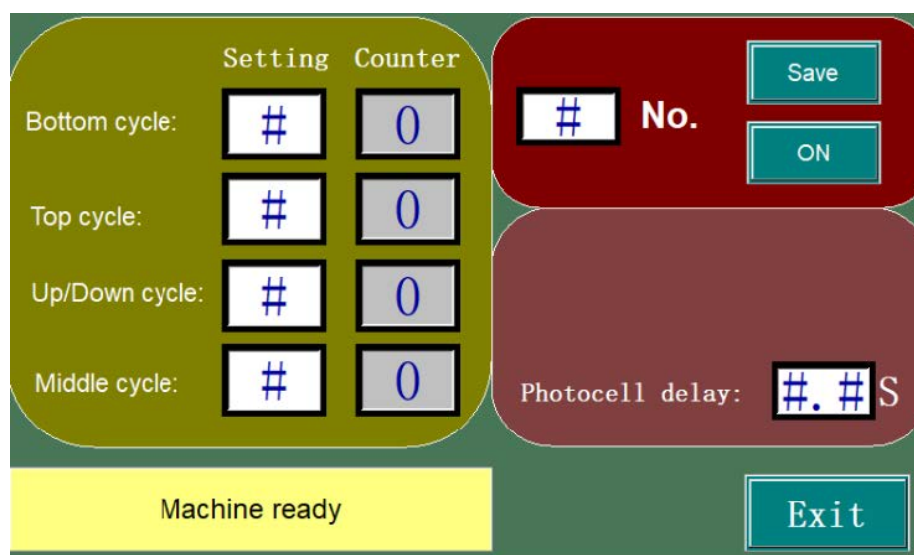


Figure 9 Auto Display

Input & Output (I/O)

- You can check the status of all sensors and switches on the I/O interface shown in Figure 10. This display can be used for routine maintenance on the machine. (See Figure 10))

- To return to the main menu, press the EXIT button.

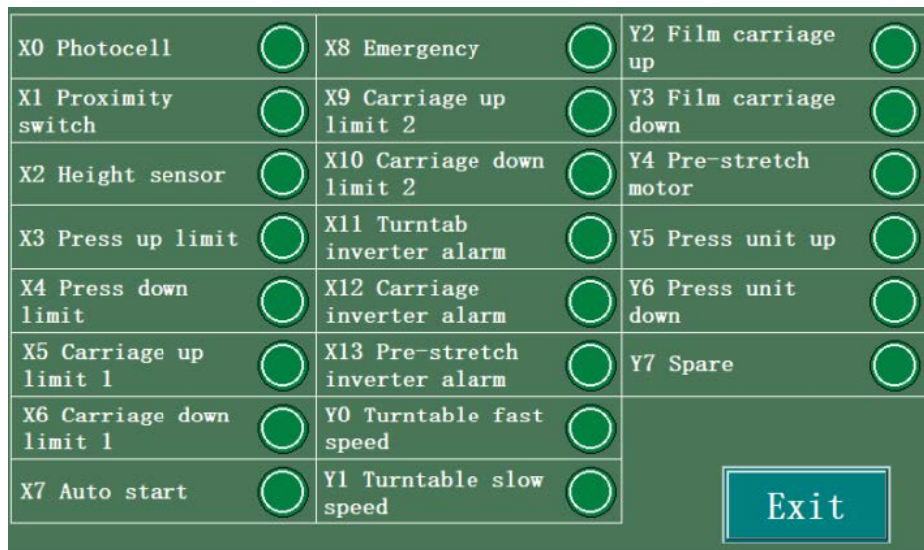


Figure 10 I/O display

Film Loading

caution: Be sure EMERGENCY STOP is pushed in before threading the film and pulled out when the film is threaded.

1. Load the film roll in the film carriage (See Figure 12)
2. Follow the film feed diagram and thread the film all the way through the rollers (See Figure 13)
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.
4. Turn the emergency stop switch clockwise and turn the power on.

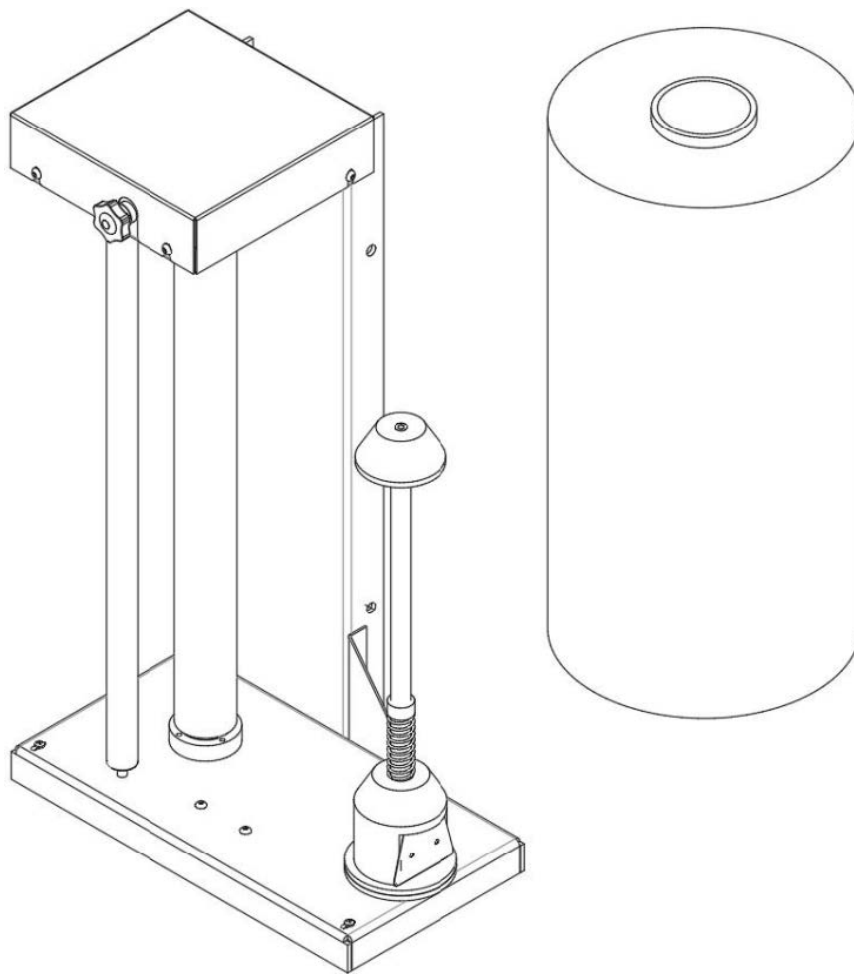


Figure 12

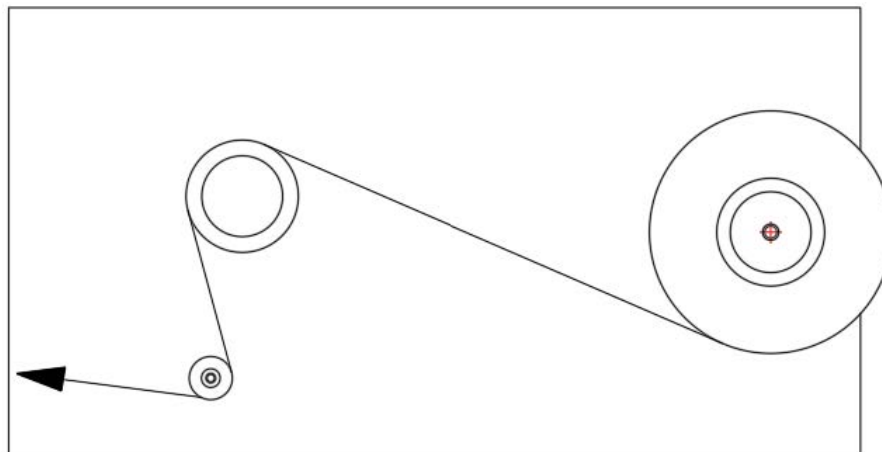


Figure 13

Machine Operation

Trial run-Normal System Start-Up:

1. Place the Packaged pallet on the machine turntable until touch the positioning stopping plate.
2. Thread the film as instructed and attach it to the product.
3. Turn the power on.
4. Adjust the sensitivity of the photo switch. The machine is adjusted to the factory setting before delivery.
5. Select either Manual or Auto mode to achieve the user's packaging requirement.
6. Press the START button to initiate cycle.

NOTE: It is recommended to perform a trial run in order to become familiar with the various parameters, adjustments, and speed controls.

Emergency Stop Condition.

1. In the event of an emergency, press the STOP button. This cancels the current wrapping cycle and immediately stops the system. Figure 15 will display on the screen.
2. Correct the problem.
3. Turn the STOP button clockwise to reset the stop button and perform the normal system start-up procedure.

NOTE: If the weight of the package exceeds 1,100lbs, turn the turntable adjustment knob M1 counterclockwise prior to pressing the emergency stop button.

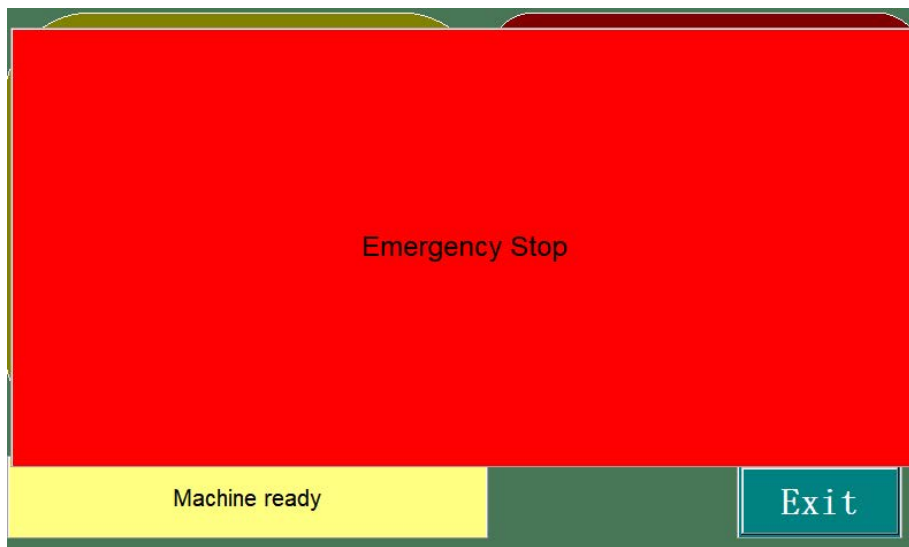
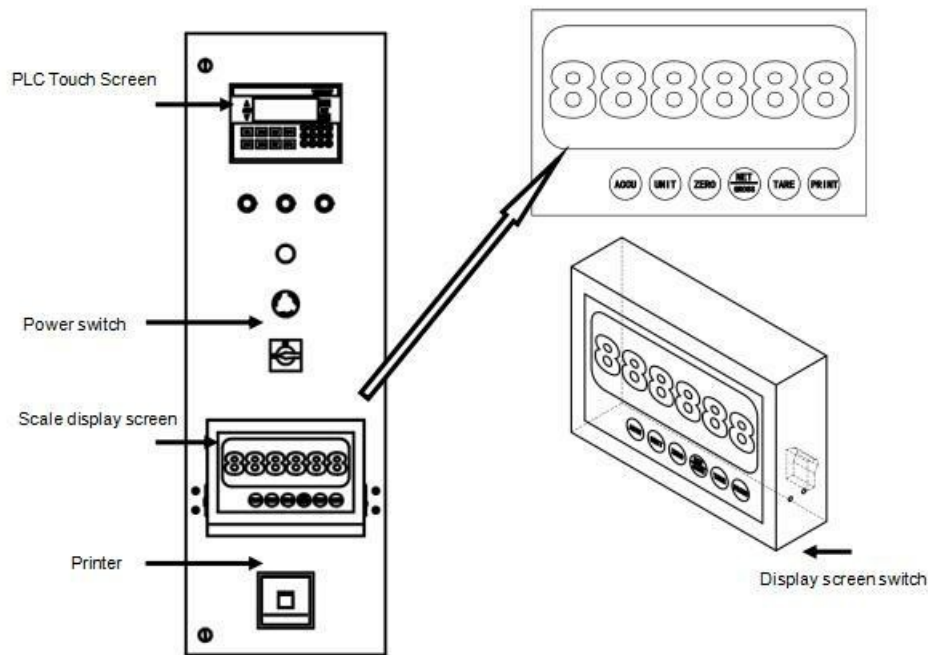


Figure 15

Operation

1. Load the film roll in the film carriage and thread the film according to Figure 13
2. Turn the power on.
3. Adjust the sensitivity of the photo switch. The machine is adjusted to the factory setting before delivery.
4. Adjust the parameter according to the packing requirements.
5. Trial run: Place the packaged pallet, used for a trial run, on the machine turntable. Adjust M1 & M2 speed-controlled knobs to the desired speed. Packaging operation can be
6. adjusted by the multiple parameters to achieve the user's packaging requirement. Once the user is familiar with the various parameters and adjustments, the user is ready to
7. operate the machine.

Scale Operation



There are 4 gravity sensors for the scale which are installed at the 4 corners of turntable. It adopts digital display screen and weighing accuracy is $\pm 0.05\text{Kg}$. A built-in printer is installed at the bottom of display screen which uses 55*35mm label printing paper.

1. The ground for installation place must be flat which will enable those 4 sensors to touch ground completely and keep stable. Then tighten nuts.
2. Turn on the machine power switch and scale display screen switch.
3. Clear turntable and make sure the display is 0.00. Any other numbers which are approaching to 0 will require further calibration. Please press ZERO key to calibrate until it shows 0.00.
4. Put the pallet on the turntable, when the displayed weight is confirmed (default unit is kg), press "PRINT" on the screen to print a sticker.
5. Tare weighing method: Put pallet without cargo on turntable, when the number is not flashing any more then press "TARE" key to make screen display number to 0.0. Then put pallet with cargo on turntable. Press "PRINT" key to print a sticker when displayed 1314 weight is confirmed.

Notes: There are 2 modes Gross weight and Net weight. Press key to exchange.

6. Cancel tare weighing method: Take away the pallet from turntable, press "TARE" key to make screen display 0.00.
7. Weighing unit selection: Press "UNIT" key to change weighing unit. Options are kg / lb / oz

Maintenance & Troubleshooting

CAUTION!

All machine maintenance work must be performed with the power supply disconnected.

1. Keep the machine clean. Use a dry cloth and cleaning agent to clean the machine. Do not use solvent water to clean the machine to prevent rusting.
2. Regularly perform maintenance on the machine every 3-6 months; Frequency varies with the machine usage. Check for internal dust build up. Check the tightness of the chain and lubricate the chain in routine maintenance inspections.

**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 serving the frequency drive controllers.

OPERATING ISSUES	CAUSES	RECOMMENDATIONS
The machine is not powering on	Main power is turned off	<ul style="list-style-type: none">• Check the power going into the machine.• Verify that switch is turned on.
	Wrong parameter setting	Reset parameter
	PLC Failure	Replace PLC
	No display on PLC screen	
	Breaker Failure	Replace Breaker
Turntable does not run	Pallet overweight	Reduce the pallet weight
	Chain falls off	Check the chain transmission mechanism (loosen the chassis screws, remove the turntable cover and check whether the chain and tension are abnormal.
	Loose Chain	
	Inverter failure or damage	The output protection of the inverter will flash the fault code on the inverter. Look up the corresponding fault code and troubleshoot method. Replace inverter if damaged.
Film Carriage malfunction	Limit switch failure or damage	Overhaul or replace the limit switch
	Photocell failure or damage	Overhaul or replace the photocell
	Loose chain or interference	Overhaul the vertical lifting chain system
	PLC Failure	Replace the PLC
	Carriage Up/Down button is unresponsive	
	Inverter failure or damage	Troubleshoot and replace inverter if damaged
	Motor Failure	Overhaul the lifting motor
	The bottom safety plate is stuck	Overhaul if the safety plate is stuck or the safety switch is damaged

Components & Parts

Turntable

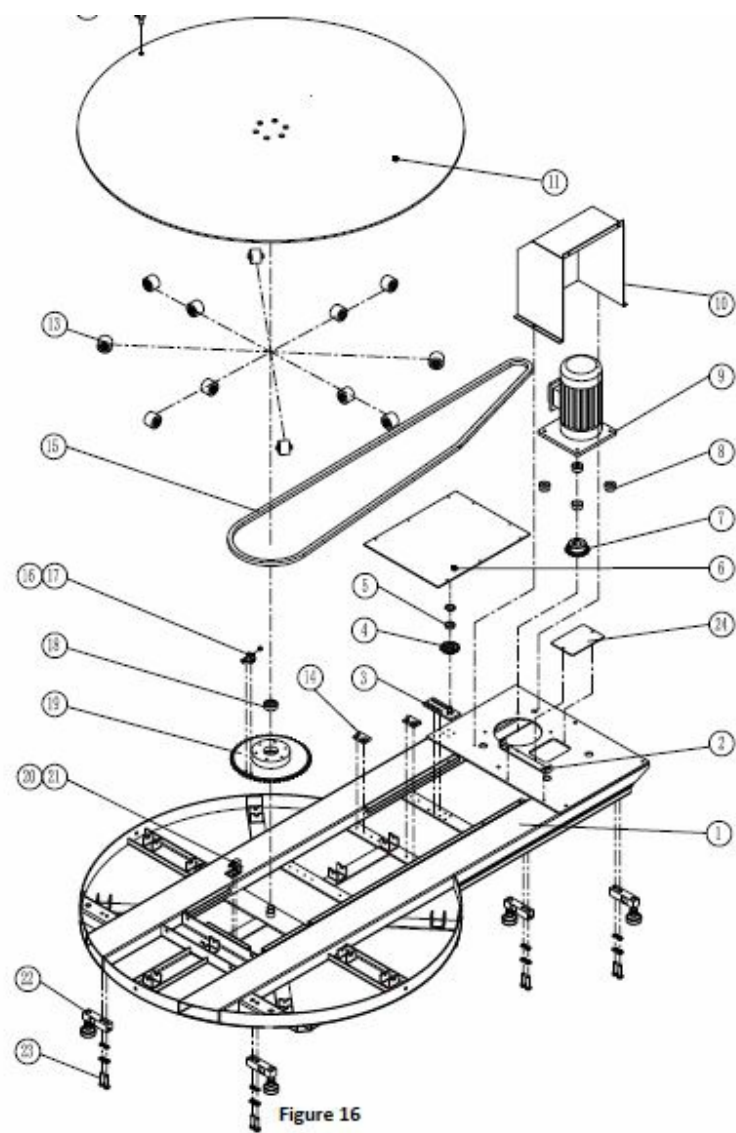
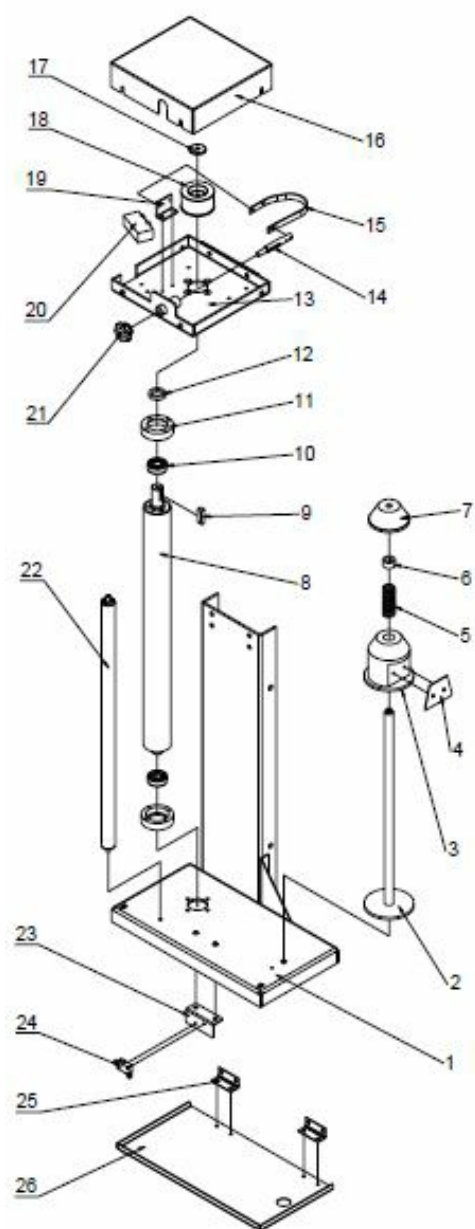


Figure 16

Turntable			
No	Part No	Description	QTY
1	XT4505CY-01-00	Scale turntable Base	1
2	XT45N-0101-1-V1	Hinge fixing base	1
3	10000000697	Tension pulley bracket	1
4	XT4505-0129-V1	Tension pulley:12B-Z11	1
5	XT8020-0614	Plastic Spacer15*5	1
6	XT4505-0126-V2	Protection Cover	1
7	10000000486G	Motor chain pulley : 12B, 14 teeth	1
8	XT8020-0506	Plain roller	4
9	30 CV-32-750-30	Vertical Gear motor 0.75KW	1
10	XT4505-0102-V1	Motor cover	1
11	10000000510-V2	Disc	1
12	GB/T825-1988	Ring Screw M10	1
13	10010000617	Turntable roller	12
14	10000000548	Chain noise reducer	3
15	GB/T1243	Chain 12B-190 keys with joint	1
16	10000000688	Contacting plate holder	1
17	GB/T5783-2000	Hex bolt M8*60	1
18	GB/T276-1994	Bearing 6205-2RS	1
19	10000000693-V1	Center turntable pulley:12B-Z50	1
20	PL-05N NPN Type	Approximate Switch	1
21	XT45N-0110	Approximate Switch Holder	1
22		Gravity Sensor	4
23	GB/T5783-2000	Hex bolt M12*50	8
24	XT4505-0138	Motor bottom cover	4

Film Carriage



Film Carriage			
No	Part No	Description	QTY
1	XT45Z-02-V2	Bottom fixed plate assembly	1
2	XT45M-19	Film roll: Welding assembly	1
3	10000000033	Film roll: bottom seat	1
4	10000000035-V1	Spring Plate	1
5	10000000030	Spring	1
6	20545000404-V1	Lock Ring	1
7	10000000034	Film roll: Top seat	1
8	XT45Z-06-V1	Rubber roller unit	1
9	GB/T1096	Plain key 6*6*25	1
10	GB/T276	Deep groove bearing	2
11	XT45M-12-V3	Rubber roller bearing seat	2
12	XT4508A-0205	Lock Sleeve	1
13	XT45Z-01-V2	Film carriage top plate	1
14	XT45Z-11-V1	Brake shaft	1
15	XT45Z-11-1	Rubber belt L218*W12*T2mm	1
16	XT45Z-03-V1	Top film carriage cover	1
17	XT45Z-09	Shaft lock ring	1
18	10000000046	Tension friction wheel	1
19	XT45Z-10-V1	Belt Holder	1
20	FR-2MX	Photocell	1
21	M8*20	Star knob	1
22	XT45M-14	Guide roller	2
23	XT45Z-16	Switch install plate	1
24	KW3-0Z-2	Micro switch with Wheel	1
25	QB/T3876	Hinge:50*38	2
26	XT45Z-15-V3	Safety plate	1

Tower and Lift

Tower and Lift

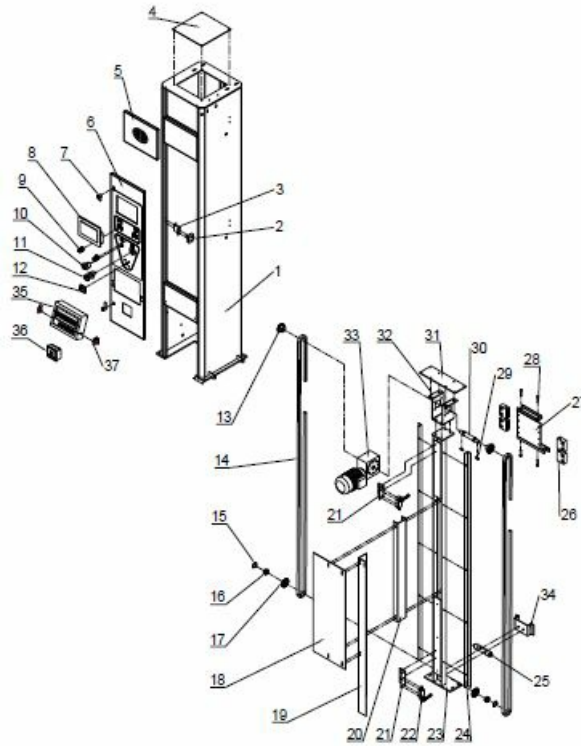


Figure 19

Tower and lift Assembly			
No	Part No	Description	QTY
1	XT45O5-0201-V2	Tower body	1
2	Z15G 1703 15A	Door safety switch	1
3	XT45O5-0206	Z type holder	1
4	XT4505-0204	Tower body top cover	1
5	XT45O5-0203	Tower body top protection plate	1
6	XT4515-02-002	Door	1
7		Latch	2
8	DOP-107BV	Delta Touch Screen	1
9	NRV228P-B472-4.7K + MF-A03	Potentiometer + Knob	3
10	HBDS1-AWY-11	Start Button	1
11	K22-81R	Emergency stop switch	1
12	ULW26GS-20/04-1	Power switch	1
13	10000000549	Lifting motor chain wheel:08B 14 teeth	2
14	08B P12.7	Chain 08B(P12.7),314 joints	2
15	GB/T893.1 D35	Locking ring 35	2
16	GB/T276	Bearing:6202-ZZ	2
17	XT4505S-0113	Chain wheel:08B 14 teeth	2

18	XT4505S-0110-V2	Electrical housing	1
19	XT4505S-0115-V2	L Channel bracket	1
20	XT4505S-0105	Electrical component storage	1
21	XT4505-0119-CN82	Bottom limit switch seat	2
22	XCM2145L1	Limit switch	2
23	XT4505S-010702-V4	Inner tower assembly	1
24	XT4505S-0104	Guide rail	2
25	XT4505S-0103G	Sliding block	4
26	XT4505S-0102-V1	Driven shaft	1
27	XT4505S-0109-V1	Connection board assembly	1
28	XT4505S-0111	Screw	4
29	GB/T1095	Key 6*6*25	2
30	XT4505S-0101	Driving shaft	1
31	XT4505S-0108	Top lifting board	1
32	XT4505S-010701	Motor Seat	1
33	NMRV050-60-T712-4 B14	Lifting reduction motor	1
34	XT4505S-01-20	Lifting pulley cover	1
35	PS—FSK-TN-UL—01	Scale Displayer	1
36	PS—FSK-TN-UL—02	Printer	1
37	XT4505CY-02-01	Scale displayer frame	1

Electrical Components

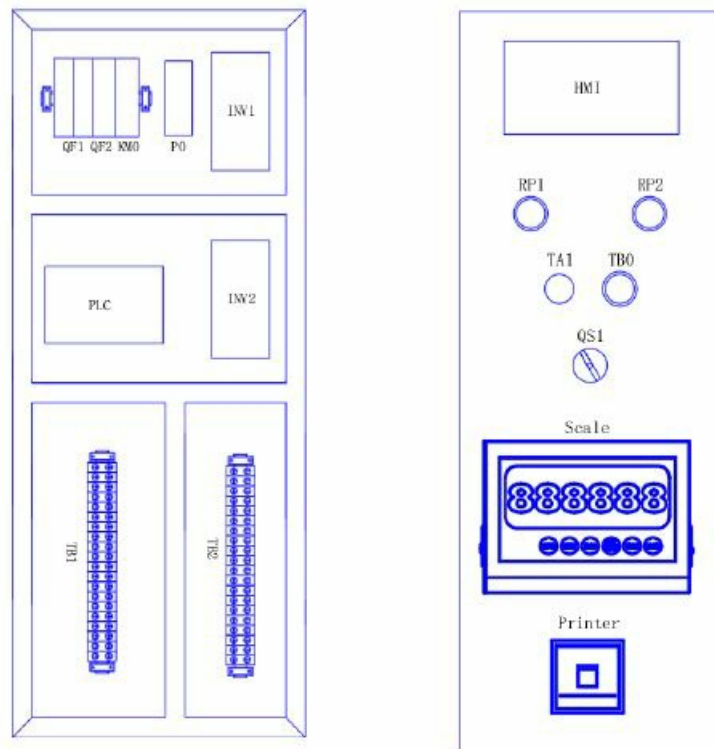
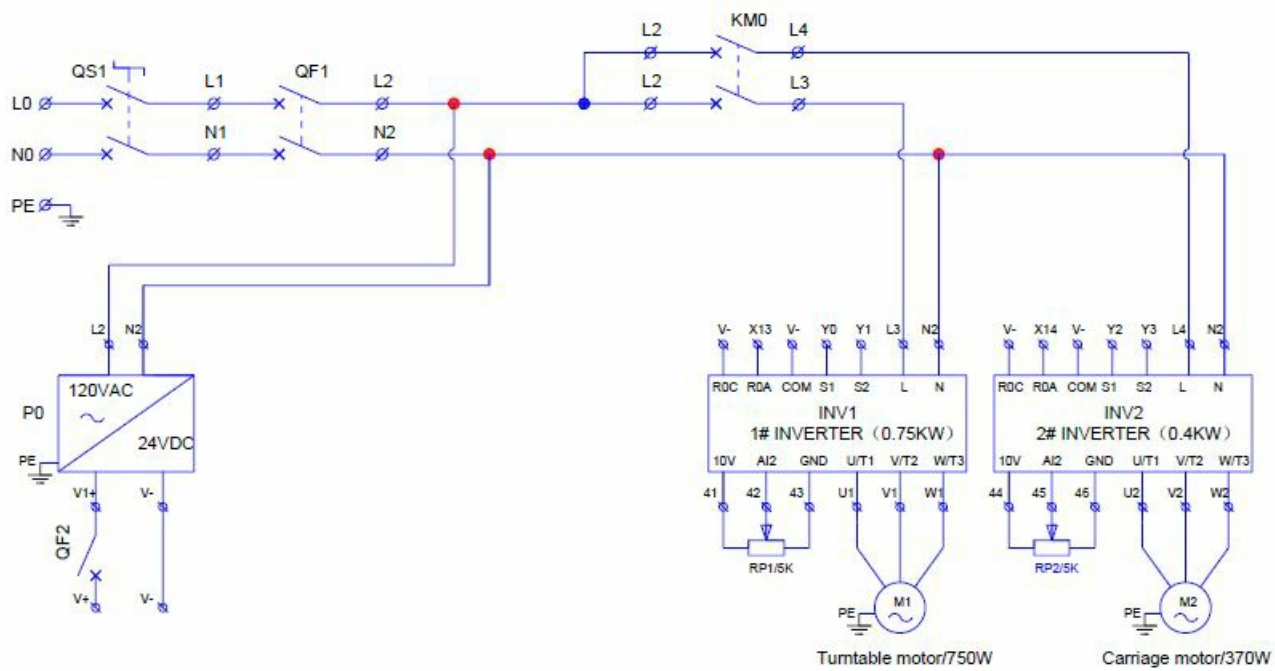
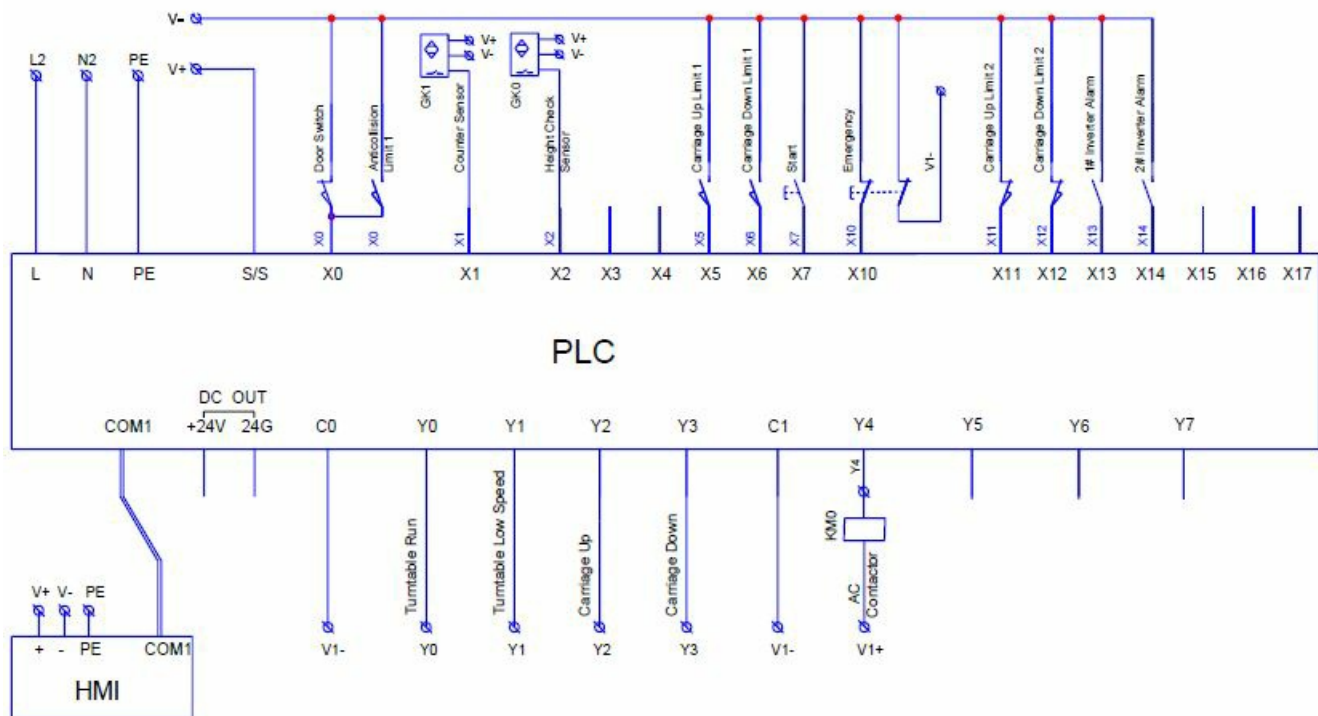
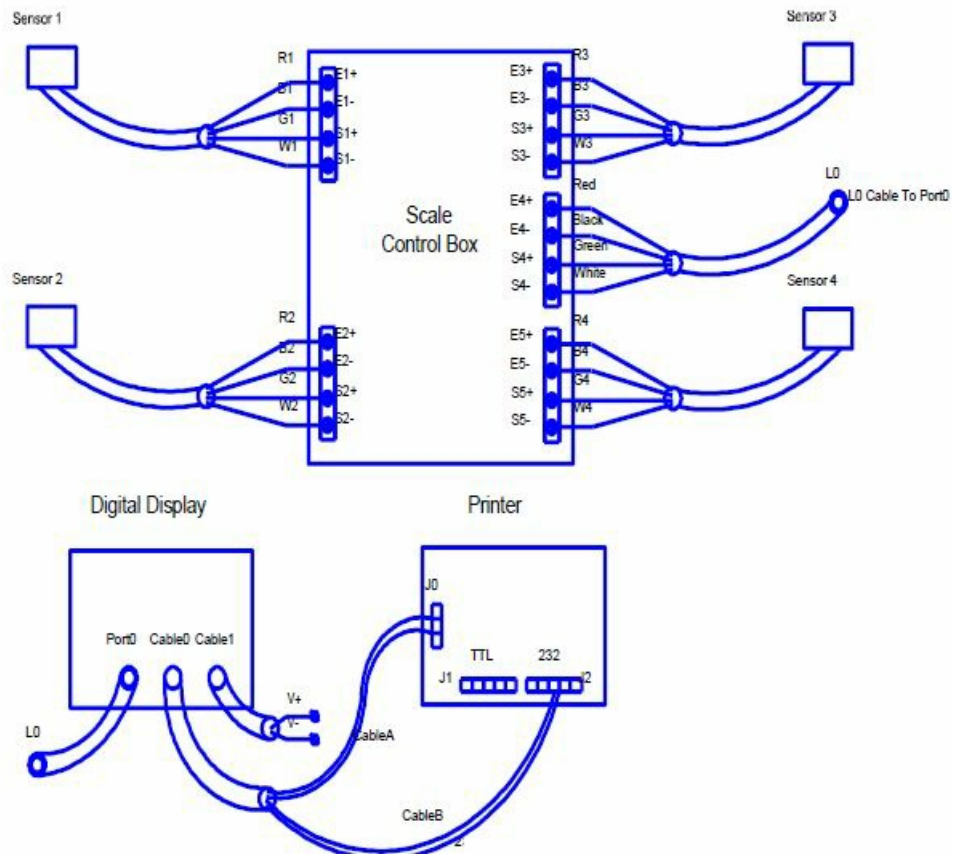


Figure 20

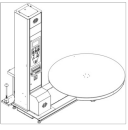
No	Part No	Description	QTY
QF1	Circuit Breaker	NB1-63 2P C16A6KA R	1
QF2	Circuit Breaker	NB1-63 1P C2A6KA R	1
KMO	Contactor	LC1D18BD 18A 24VDC	1
PO	Power Switch	LRS-50-24	1
INV1	Turntable inverter	GD20-0R7G-S12-UL	1
INV2	Lift inverter	GD20-0R4G-S12-UL	1
PLC	Delta PLC	DVP24ES200R	1
TB1	Connector	TD1520	1
TB2	Connector	TD1520	1
HMI	Touch screen	DOP-107BV	1
RP1	Potentiometer	NRV228P-B472-4.7K	1
RP2	Potentiometer	NRV228P-B472-4.7K	1
TA1	Start Button	HBDS1-AWY-11	1
TB0	Emergency button	K22-81R	1
QS1	Power isolation switch	ULW26GS-20/04-1	1

Electrical Diagram





Documents / Resources

 <p>Stretch Pallet Wrapper with Scale</p>	<p>GLOBAL INDUSTRIAL 238507 Stretch Pallet Wrapper with Scale [pdf] Instruction Manual 238507 Stretch Pallet Wrapper with Scale, 238507 x, 238507 Stretch Pallet Wrapper with Scale, Pallet Wrapper with Scale, Wrapper with Scale</p>
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