



USER MANUAL

TableTop Vacuum Skin Packaging Machine

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<https://landercn.com>

This user manual applies to full series of our tabletop vacuum skin packaging machine, including LSP250, LSP350 and LSP380, and also other similar customized models, if available.

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I. General Introduction

Tabletop vacuum skin packaging machine, also known as desktop vacuum skin packaging machine, is a semi-automatic small scale skin packaging machine that you can literally put it on top of a table/desk to work.

This series of skin pack machine is compact designed for minimum area cover to save space, ideal for small food shops and supermarkets that have the needs of vacuum skin packaging for their fresh food products – Seafood, meat, cheese, etc.



II . Machine features

1. The tabletop vacuum skin pack machines are made of food-grade SUS304 stainless steel, no rust, no deformation, in accordance with food-hygiene regulations
2. Robust machine structure guarantees the longest service life
3. Easy to operate. Using position-switch. The machine starts to work once the chamber lid is covered
4. Tabletop vacuum skin packaging machine can handle both skin pack trays and cardboards
5. Wide application range: Tabletop vacuum skin packaging machine is perfect for vacuum skin packaging of high-value meat products, beef, pork, fish and seafood products, lobsters, salmon fillets, durian pulps, cheese portions, etc
6. Powerful vacuum pump guarantees best skin pack quality
7. Moving wheels for easy machine move to anywhere
8. Compact designed, small size, save space
9. Household electricity applied, no need industrial power supply
10. Vacuum chamber is made of top-quality aluminum alloy, ensures zero air leakage, which leads to best skin pack quality.
11. The heating plate is sprayed with imported Teflon, non-stick film, wear-resistant, easy to clean, and ensures evenly-heating to the skin pack films
12. Adjustable vacuum time and heating temperature, fits skin pack film of various thickness

III. Specifications

Mode No.	LSP250	LSP350	LSP380
Total power	1.5 KW	2.5 KW	2.5 KW
Power supply	Household power supply, single phase		
Skin pack film width	250 mm	360 mm	380 mm
Film roll diameter Max.	220 mm		
Vacuum chamber space(mm)	298*203*45	425*330*60	460*330*60
Package maximum size (mm)	280*190	410*320	450*320
Product max. height (mm)	45	60	60
Machine dimension (mm)	500*370*500	700*480*560	720*500*685
Machine weight (KGs)	50	85	95

IV. Components



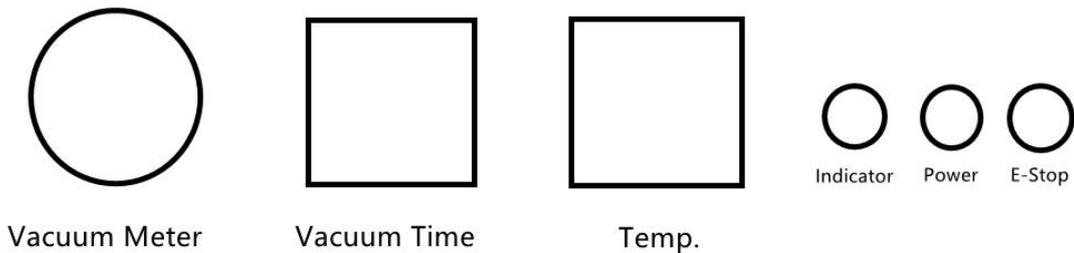
Tabletop vacuum skin packaging machine is mainly composed of vacuum chamber, heating plate, SUS304 machine frame, vacuum system, electric control system.

V. Installation and use

1. Installation

- a) Put the machine on a flat and stable table, open and press the chamber cover to see if it moves smoothly
- b) Connect the machine to single phase, household power plug, NOT 3 PHASE POWER.
- c) Check vacuum pump oil, fill in oil to the required level if necessary
- d) Grounding connection is required
- e) Turn “Power” switch right to start the machine, press the chamber cover to check if vacuum pump rotates in the right direction
- f) Install the skin pack film roll to the roller.

2. Setup



- a) Set up vacuum time by the time relay, time range 0-99.9 seconds.
- b) Set up objective temperature by “Temp.”, which is Temperature Controller. The temperature is set according to skin film material, thickness and product to pack, time range 90-135 °C

3. Operation

- a) Open up the chamber cover, turn on the “Power” switch, the heating plate temperature starts to rise. Under room temperature of around 20 °C, it takes about 15 minutes for the heating plate temperature rises to 100 °C. (Green number in the temperature controller is pre-set temperature, red number is current temperature)
- b) After the heating plate temperature reaches the pre-set value, put the products on trays/cardboards into the mold in the vacuum chamber
- c) Carefully stretch the skin pack film from the roller to cover the products, smooth and flat
- d) Press the vacuum chamber cover and hold for 1-2 seconds, to make sure the top and bottom part fully closed. The machine will complete the vacuum skin pack process automatically
- e) Meanwhile, cut the skin pack film from outside of the chamber
- f) Open the chamber cover after the packaging process is completed (air deflated), cut off the completed packages from the mold, or take the mold out of the chamber and cut the packages.
- g) Turn off the “Power” switch of the machine before cut off the power supply

VI. Maintenance

Proper maintenance is a key factor in extending the service life of your machine.

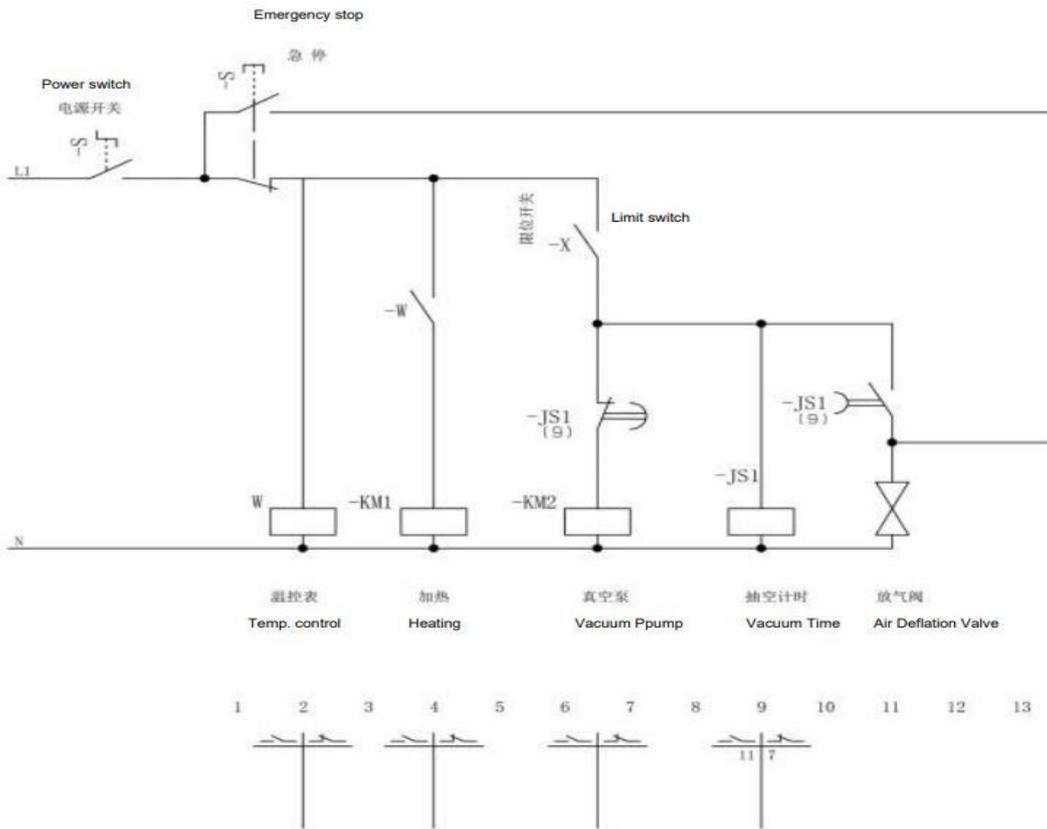
- a) Check the heating plate regularly, make sure the surface of heating plate clean, and do not hit or scratch it with hard objects
- b) Check oil level of vacuum pump regularly, keep the oil level between 1/2 to 3/4 of the oil observation window
- c) It is recommended to replace the vacuum pump oil six months after you receive the new machine. And after that, the vacuum pump oil can be replaced every 10-12 months.
- d) Regularly check the rotating, moving and friction parts to ensure their lubrication
- e) Wipe heating plate, mold, and vacuum chamber with soft dry or damp cloth at the end of each shift.

f) Do not flush the machine with water

VII. Troubleshootings

Fault	Reason	Solution
Not working after chamber cover is closed	1. Micro switch not connecting well	1. Adjust the switch paddles
	2. Power connection not good	2. Adjust power connection wires
	3. Insufficient power voltage	3. Improve voltage to required standard
	4. Vacuum time set to 0 seconds	4. Reset vacuum time
Power “Indicator” light off	1. Power switch bad connection	1. Replace with new power switch
	2. Broken indicator light	2. Replace indicator light
Vacuum pump not working	1. Phase loss	1. Check circuits
	2. Wrong phase sequence	2. Adjust phase sequence
	3. A.C contactor broken or bad connection	3. Replace contactor or check and repair
Air leakage	1. Aged or corroded hoses	1. Replace hoses
	2. Pneumatic fittings leakage	2. Check and repair
	3. Sealing strip breaks	3. Replace
	4. Magnetic valve leakage	4. Repair or replace
	5. Vacuum meter leakage	5. Replace
	6. Vacuum pump leakage	6. Repair or replace
Chamber bottom plate not moving (up and down)	Air cylinder circuit blocked or broken	Repair or replace
Heating not evenly	1. Broken heating tube	1. Replace
	2. Bad vacuum quality	2. Check vacuum pump, place mold in right position
	3. Lower temperature	3. Set higher temperature
	4. Heating time too short	4. Prolong heating time
Heating plate temperature too high	1. Broken temperature controller	1. Replace
	2. Broken temperature relay	2. Replace
	3. Intermediate relay does not return	3. Replace
No deflation	1. Deflation valve not working	1. Repair or replace
	2. Time relay bad connection	2. Repair or replace
	3. Deflation valve circuit broken	3. Repair
Loud noises	1. Magnetic valve loose or valve core contaminated	1. Repair or replace (consider the effect of voltage)
	2. A.C contactor loose	2. Repair or replace (consider the effect of voltage)
	3. Worn vacuum pump coupling	Replace

VIII. Wire diagram



IX. Maintenance of magnetic valves

- a) Take off magnetic valve
- b) Open it and take out valve core, springs
- c) Clean valve core, springs
- d) Reassemble after they dry
- e) Turn on the machine to test. If abnormal shocks or noises appear, please reassemble the magnetic valve

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