
Instruction Manual for Automatic Coconut Peeling Machine



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The pictures and specification involved herein this manual has not constraint force to any machine model provided. We reserve the right of revising technical data and any technological developments.

1 Safety



Notice

Please read this chapter carefully before connecting and operating the equipment and the accessories!

1.1 General safety instructions

- As with all technical equipments and therefore also with this equipment, the best possible operating safety can be guaranteed only if the general safety precautions as well as the special safety instructions in these operating instructions are followed during operating and servicing the equipment.
- The equipment and its accessories comply with the relevant safety regulations. Repair work may be performed by authorized and experienced staff of the manufacturer only. Improper repair work could result in considerable danger to the user and the equipment.
- Avoid operating the equipment in unfavourable ambient conditions. This could result in damage to the equipment or the accessories, hence endanger the user.
- If the equipment is damaged/defective: To prevent any harm from the user and to prevent greater equipment damage: Do not use the equipment any further, contact the service. Never open the equipment cover.

Unfavourable conditions include:

- Humidity.
- Extreme ambient temperatures.
- Strong electromagnetic (motors or transformers) or electrostatic fields(charges).
- Strong vibration and impacts.

1.2 Safety signs and implication

Please pay attention to the following instructions for safe and successful operation!



Caution! Pinch point. Keep hands and fingers clear.



Danger! Blade Hazard. Keep hands clear while operating. Lock out power before servicing.



Warning! Electric shock hazard. This equipment is to be serviced by trained personnel only.

1.3 Safety precautions on electricity

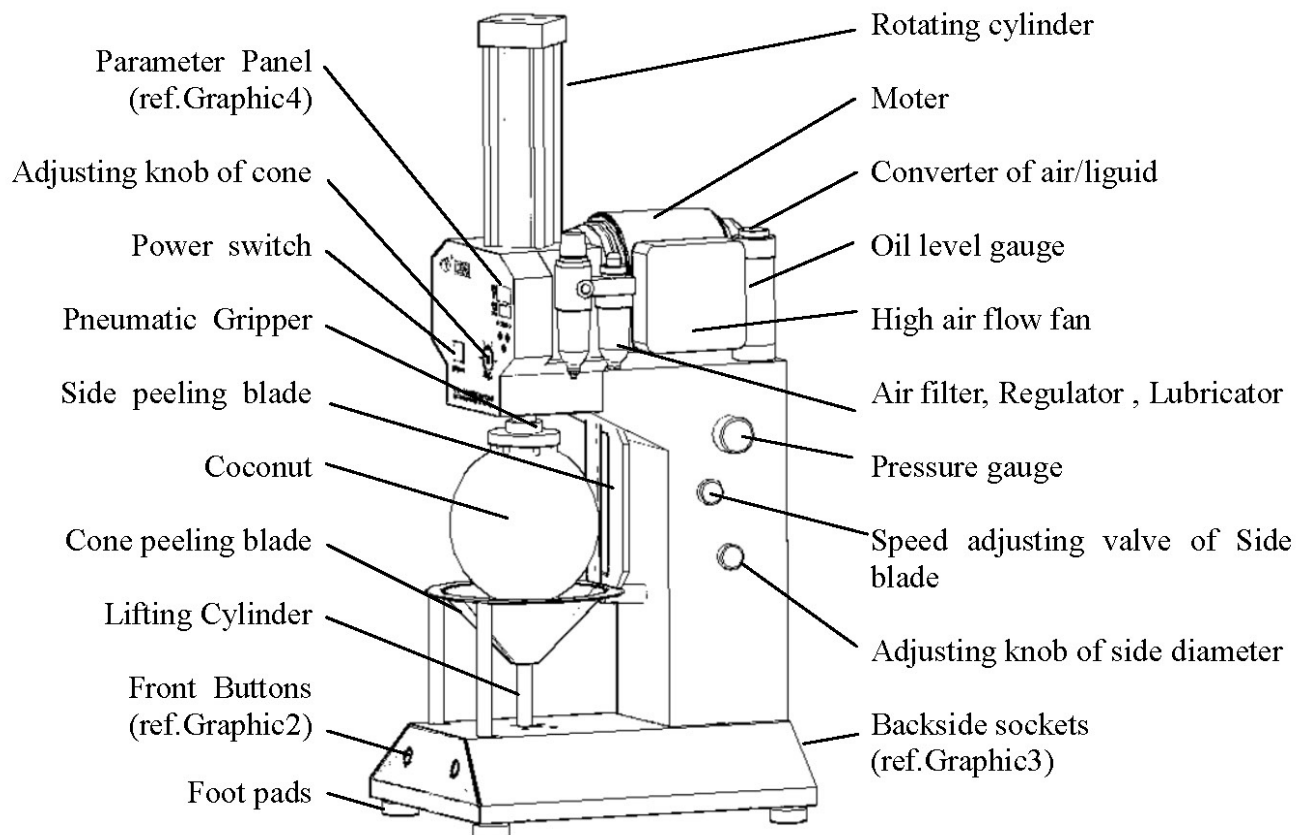
- Power supply must be ground connected.
- When machine is connected with power or in operation, do not open the cover and enclosure of each electric element, it may lead to electric shock.
- Overhauling and regular maintenance should be carried out by qualified personnel. Turn off the power supply, wait for a while, make sure no residual voltage, do overhaul and maintenance.
- Damage, strain or overweight to the cable and wire may lead to electric shock.
- Do not flush machine by high pressure water.
- Do not hit button with sharp point.
- Wipe the leaked coconut water while peeling or the water would leads to short circuit.

2 Product features

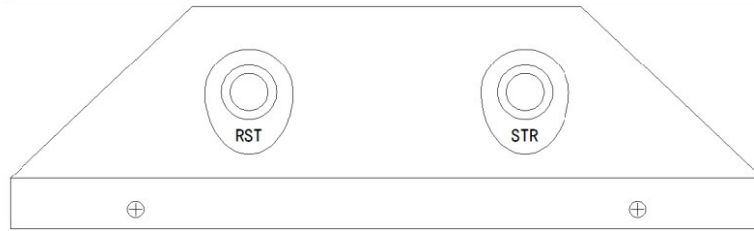
2.1 Introduction

Coconut trimming machine is designed for trim the green tender coconut into diamond shape. It features high efficiency, desktop volume, easy to handle, hygienic and low noise. The material of contacting parts is stainless steel. It fits the standard of food processing machine. There are 2 blades for trim top and body separately, so you can choose how to trim and how to trim for your various purposes.

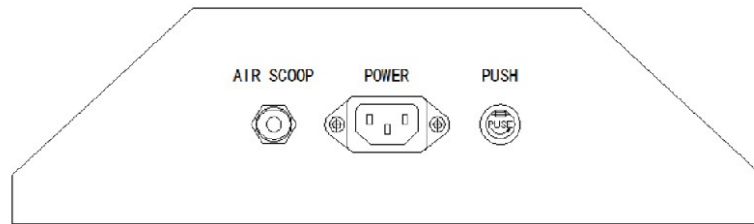
2.2 Structure and working process



Graphic 1



Graphic2 Front buttons



Graphic3 Backside sockets



- ↓ — Indicator light of gripping coconut
- ↔ — Indicator light of side peeling
- ↓ — Indicator light of top peeling
- ↑ — Indicator light of lifting
- ⊙ — Indicator light of AC motor
- ⊙ — Parameter setting key
- ⊙ — Cursor move key
- ⊙ — Number up key

Graphic4(Parameter panel)

3 Technical features

- Power supply: AC110V/50Hz AC110V/60Hz AC120V/60Hz AC127V/60Hz
AC220V/50Hz AC220V/60Hz AC230V/50Hz AC240V/50Hz
- Rated revolution: 181 ± 10rpm 217 ± 10rpm
- Rated power: 0.8kW
- Rated torque: 35N · m
- Range of use: 120~230mm
- Peeling range: 100~160mm
- Operating fluid: Through 40μm filtered compressed air
- Operating pressure: 70-100psi(5-7bar)
- Gas consumption: 0.05-0.06m³/min
- Cutter material: 440C/W12
- Working temperature: 5℃~40℃
- Working relative humidity: ≤80%
- Noise: ≤50dB(A)
- Overall size(W×D×H): 300mm×420mm×880mm

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- Net weight: 48.5Kg

4 Steps installation

- Put the machine on a flat place; adjust the 4pcs food pad to make sure it in horizontal position.
- Turn on the black button of air source processing part, add lubricating oil to oil level, and then fasten the black button.
- Pull out the tube of pipe joint in convertor of air/liquid on the top of the machine, and then insert the unconnected tube into this pipe joint. Then check the oil level is in the middle position or not.
- Insert one side of tube into pipe joints, the other side connects to air compressor.
- Plug in power wire, turn on power.

5 Parameters setting

Press “**SET**” , then press **cursor move key** to wanted position, press **number setting key** to set number value. When all indicators light is not flicker, the system would save the set values. Specific operation is as below:

- Press “**SET**”, when speed screen display A, set the gripping time of coconut, 1-2 seconds would be appropriate.
- Press “**SET**”, when speed screen display Sb, set the diameter of side peeling, 100-160mm seconds would be appropriate, default is 100mm.
- Each button must be done in two seconds, Otherwise the machine will automatically save the current settings.

6 Adjustment and operation

6.1 Adjustment of diameter and speed

- Adjust the side scale to wanted diameter, the diameter range is 100-160mm; refer to “Parameter setting”.
- Press “Start”, the machine is peeling automatically.
- Rotate clockwise, the speed decreases; rotate anticlockwise, the speed increases.
- Repeat the step2, until peeling finished; the number value would be 10-18mm/s in the speed screen.

6.2 Peeling operation

- Put coconut on the cone shape plate, press” start” button, peeling starts. If the pneumatic gripper is not on the head, press “ **Reset**” button.
- When the pneumatic gripper reaches the peak, finish peeling, take out coconut, then put another one.
- If want to cancel the peeling operation, press” reset”, the machine is automatically reset.

7 Daily Check

- Regular check the oil level tube of convertor of air/liquid, the oil level should not be lower than 1/2 while side blade returns to original position.
- Regular check air source processing parts, If without lubricating oil, should add it
- Regular check if there are air leakage or oil leak in transmission part.
- Regular check if blades become loose.
- Check the machine periodically; make sure the circuit, air path, fastens parts in good condition.

8 Error analysis and troubleshooting

Error	System crashes
Remedy	Turn off power, restart
Error	Indicator light of power is off
Remedy	Check fuses burn out or not
Error	The speed of side blade is non-uniform velocity or stop
Remedy	Check whether there are particles or air pockets in the oil level tube of the gas-liquid convertor, if so, Stopped working for a moment, or change oil
Error	There were any leaks of air or oil
Remedy	Change sealing elements or fasten pipe joint
Error	The Grippers can't hold or damaged the coconut
Remedy	Check the set of is appropriate
Error	Edge out coconut while side peeling
Remedy	Adjust the speed adjusting knob, make sure the speed is 10-16mm/s
Error	The peeling surface is rough
Remedy	Check the blade is dull or not
Error	Diameter of side peeling is uncontrollable
Remedy	Check whether there are magnets, high voltage wires and other electromagnetic equipment nearby
Error	Blade is not sharp
Remedy	Firstly sharpen blade by sharpening stone or sanding, the polish blade by fine sand paper