

User Manual
Self-Serve Pineapple Coring Machine



PLEASE READ THIS USER MANUAL CAREFULLY AND FOLLOW INSTRUCTIONS BEFORE USE.

Performing activities on the Piñabar is allowed only by personnel who is:

1. Authorized based on education or experience.
2. Capable of performing the activity independently and safely.
3. Under the supervision of someone who is familiar with the activities and who has provided instructions.

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This User Manual has been prepared in accordance with legislation, as established in the machine guideline 2006/42/CE. This User Manual describes the operation and maintenance of the Piñabar. Regarding subjects not addressed in this manual or subjects that are not clear, please contact Juicernet directly. This User Manual should be stored in an accessible location for all who work with the Piñabar.

DISCLAIMER: The data and recommendations in this User Manual are based on the latest information before print. Information in this User Manual is subject to change without notice and does not represent a commitment on the part of the manufacturer or Juicernet.

Juicernet has made every effort to ensure that this User Manual is accurate; Juicernet disclaims liability for any inaccuracies or omissions that may have occurred. If you find information in this manual that is incorrect, misleading, or incomplete, we would appreciate your comments and suggestions. Juicernet disclaims liability for damage that has occurred due to the use of this manual and/or the use of the Piñabar.

PIÑABAR OPERATION

The Piñabar is a machine for coring and spearing pineapples. A fully functional system for automatic peeling of a pineapple within a timeframe of 20 seconds. The feed and output of the pineapple is done manually, while the remaining operations are completely automatic.

START-UP

The main power switches are located in the back behind machine.

- ▶ Turn on the breaker switch by flipping up. **Do not** change after first installed.
- ▶ Turn on machine by turning dial clockwise to the "1" position.

NOTE: Once servicing is completed, close the door and lock it.



STARTING POINT

Always HOME the machine. When you turn the machine on you must press the start button and let it run one full cycle without a pineapple. If the machine is not at its starting point the normal functions will not work properly; the operation system needs to know where the pineapple clamps are before a function can be selected.

Put the machine at the starting point:

- ▶ Press the start button. The start button will flash green.
- ▶ After the machine is at the starting point, "Place Pineapple" will flash indicating machine is ready for use.

First the vertical axis (pressing-axis) is put in starting position. If, when pressing the start button, the press is not at the top the motor is started and will move the press up. Is the press already at the top then the turning axis will be put in the right position.

The turning axis makes a maximum of one turn, even if the switch on the In/Output is already operated. This is done to make sure the machine always gets the exact same position: the clamps are in the front.

PINEAPPLE CYCLE

When all the conditions are met (starting position, empty waste bin, no running pineapple cycle) the lights flash "Place Pineapple" to indicate that a pineapple can be placed. "Place Bucket" will follow indicating a bucket needs to be placed at the bottom of the machine.

- ▶ Place pineapple and close the door
"Place Pineapple" light burns continuously

- ▶ Place bucket
"Place Bucket" light burns continuously

- ▶ Press the start button. (*Pineapple door is locked and machine starts operation.*)
Pineapple door is locked and machine begins operation. "Start" light burns continuously

- ▶ End of cycle as pineapple drops into the bucket
"Take Bucket" light flashes repeatedly

- ▶ Machine ready for next cycle
"Place Pineapple" light flashes repeatedly

When the pineapple and bucket are in place (the lights burn continuously). The start button will begin to flash green. If the bucket is removed before pressing the start button, the "Place Bucket" light will flash again. Place the bucket again.

Make sure the sliding door is closed properly and then press the start button. The sliding door will be locked and the cycle will start, the start button light now burns continuously.

If, after pressing the start button, the bucket is removed the light will burn continuously, the program will run until the moment the fruit is above the output valve. Place a bucket.

The pineapple turns through the machine. As soon as the pineapple sensor doesn't see the pineapple (in the beginning of the movement) the "Place Pineapple" light is turned off.

During the rotation to the press position, the top and bottom of the pineapple is cut, resulting in a pineapple with the proper height.

The turning axis stops at the "pressing axis" in the back of the machine. Now the presser moves down and the pineapple is pushed through the rosette blade. The skin of the pineapple is cut loose and falls into the waste bin. The core is also cut and pushed out.

If no bucket is present at the output station, the program stops. Place a bucket, the machine will continue and the "Place Bucket" light flashes continuously.

If the pineapple holder is at the output position, the pineapple will fall into the bucket and the cycle is finished.

The light "Take Bucket" will start flashing to indicate that the bucket can be removed. If this is completed the "Take Bucket" and "Start" lights are turned off. The "Place Pineapple" light will start flashing indicating the machine is ready for the next cycle.

WASTE BIN

After every cycle, the cut pineapple is registered by adding 1 to the counter. This is also the indicator for the number of skins in the waste bin (not visible in the display). If the maximum number of skins has been reached (standard set to 20) the orange light will start to flash. No pineapple can be cut at this time. The waste bin needs to be emptied. By opening the door, the count is automatically reset.



- ▶ Waste bin full. Start button light flashes red.
- ▶ Open the machine door.
- ▶ Remove and empty the waste bin.
- ▶ Place the waste bin back into the machine.
- ▶ Close the machine door.
- ▶ Press the start button. The machine will perform a test run. Do not place a pineapple at this time!
- ▶ The machine is ready for use.

ATTENTION: THE WASTE BIN IS NOT CHECKED ON CONTENTS. IN CASE OF OPENING THE DOOR BUT NOT EMPTYING THE WASTE BIN, THE WASTE BIN COULD BECOME TOO FULL.

CLEANING INSTRUCTIONS

A trained operator is able to clean the Piñabar in approximately 15 minutes. Because of food safety and functional reasons, we recommend cleaning the machine once per day, at the end of each operational day.

- ▶ Turn off the main switch on the backside of machine and unplug.
- ▶ Open the front door.
- ▶ Carefully remove the following parts (steps 1–7) slowly and treat the blades with care as to not damage the sharp edges.

1. Grab the blade from the back and pull the top blade counter-clockwise to remove.

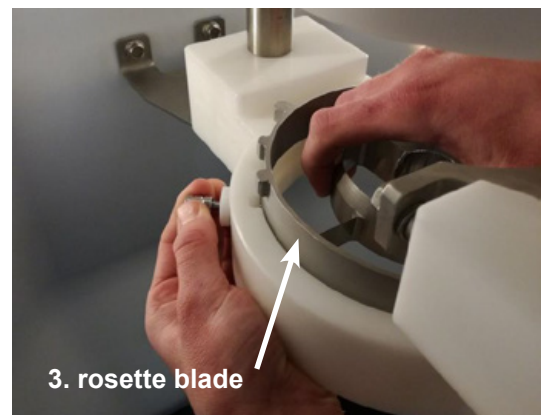
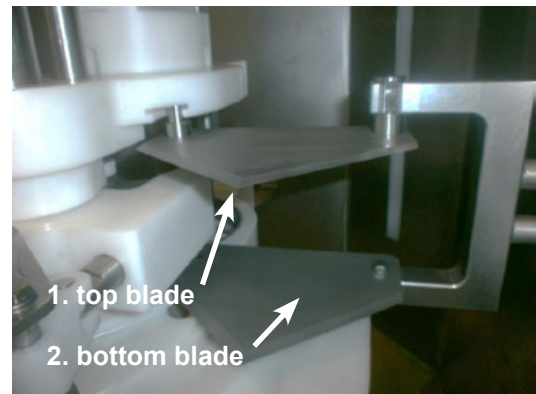
**CAUTION: VERY SHARP BLADES!
CUT-SAFE GLOVES RECOMMENDED.**

2. Turn the bottom blade counter-clockwise to remove.

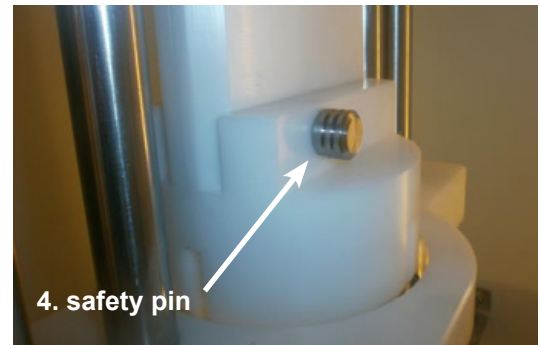
**CAUTION: VERY SHARP BLADES!
CUT-SAFE GLOVES RECOMMENDED.**

3. Remove the rosette blade from the cutout in the connecting unit. Pay attention to positioning and sharp side up. Be sure to lift blade up, by pressing it from the bottom. Then remove it.

**CAUTION: VERY SHARP BLADES!
CUT-SAFE GLOVES RECOMMENDED.**



4. Remove the safety pin.



5. Remove the presser/masher.



6. Lift-up and remove pineapple cup/holder.



7. Lift-up and remove safety valves.



11. Empty the waste bin.
12. Clean machine, removeable parts and blades by hand using warm water, soap and then towel dry. Do not use hot water to avoid blade corrosion or wash parts using a dishwasher. Ecolab cleaning products are recommended for cleaning all machine parts by applying:
 - a. Optional for heavy cleaning: PanTastic Detergent #6113003 and rinse.
 - b. Quik Fill Disinfectant Cleaner #6100836, rinse and air dry.
 - c. Quik Fill Glass Cleaner #6100832 to outside and wipe dry.
14. Place the parts back into the machine in reverse order:
 - a. Place part 7, the safety valves back.
 - b. Place part 5, the presser/masher back and attach with the safety pin (part 4) to the press unit.
 - c. Place part 3, the rosette blade into the cutout of the connecting beam. Pay close attention to positioning and sharp side-up.
 - d. Place part 2, the bottom blade back. Place it in the cutout of the connecting beam. When placed, press the blade to lock it in correctly.
 - c. Place part 1, the top blade back. Place it in the cutout of the connecting beam. When placed, press the blade to lock it in correctly. The top blade is marked with an inscription "mes boven."
15. Plug the machine in and turn on the main switch in the back. Close the door and position the machine back to its starting position.
16. Press flashing red button to "home" the machine allowing it to perform one full cycle and prepare it for use.

SOLVING ERRORS

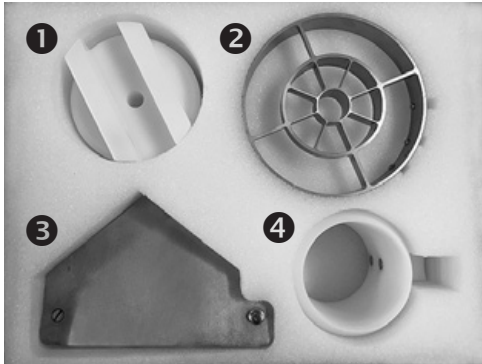
In case of an error, the red lights will flash, indicating machine is not in the starting position.

- ▶ Open the door.
- ▶ Remove pineapple from machine.
- ▶ Turn main switch to "OFF" and wait a minimum of 10 seconds.
- ▶ Turn main switch to "ON".
- ▶ The machine is reset and will return to the starting position.

STEPS FOR CHANGING BLADES

BLADE KIT:

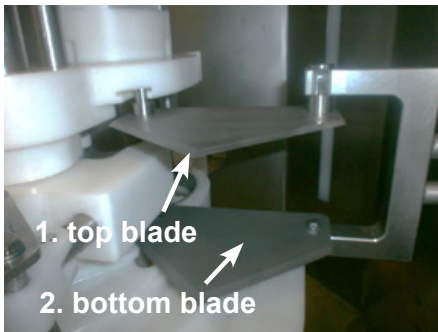
- | | |
|-------------------|---------------|
| 1. presser/masher | 3. top blade |
| 2. rosette blade | 4. cup/holder |



1. Remove top blade by turning counter-clockwise.

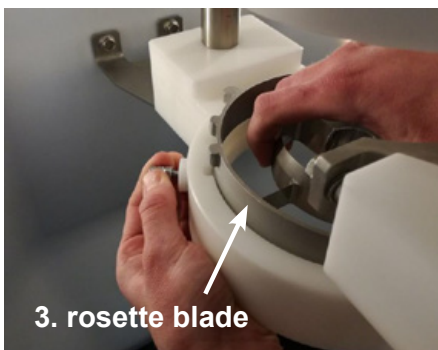
**CAUTION: VERY SHARP BLADES!
CUT-SAFE GLOVES RECOMMENDED.**

2. Do not remove bottom blade.

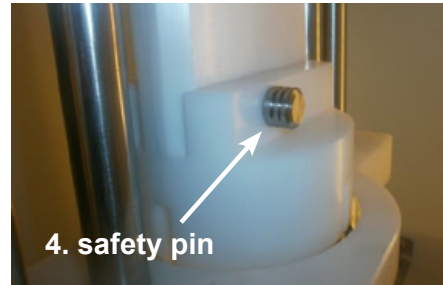


3. Remove the Rosette Blade from the cutout in the connecting unit. Pay attention to positioning and sharp side up. Be sure to lift blade up, by pressing it from the bottom. Then remove it.

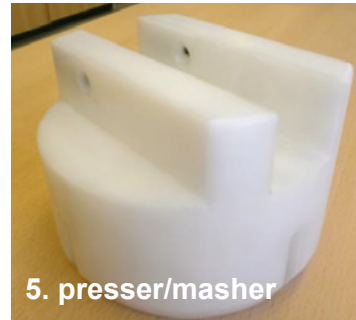
**CAUTION: VERY SHARP BLADES!
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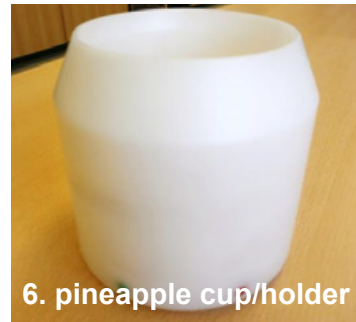
4. Remove the safety pin.



5. Remove the presser/masher from the machine.

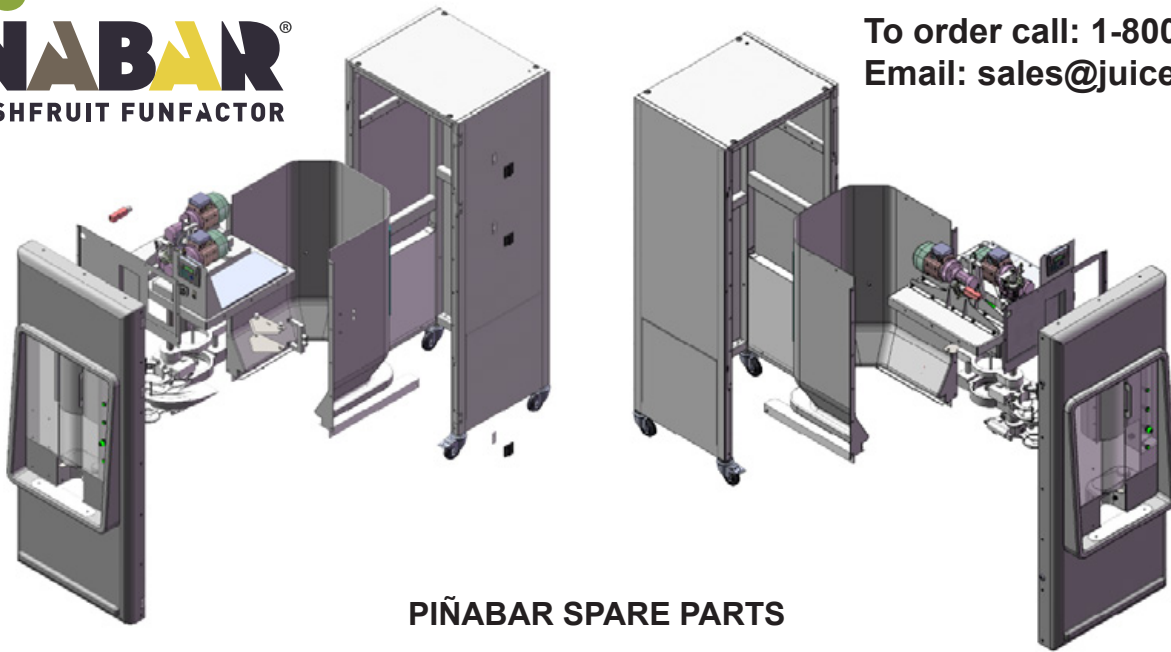


6. Twist the pineapple cup/holder from the valve.



7. Place the parts back into the machine in reverse order:
 - a. Place part 6, the cup holder, into the machine.
 - b. Place part 5, the presser/masher, into the machine and fix it with the safety pin (number 4) to the press unit.
 - c. Place part 3, the rosette blade into the cutout of the connecting beam. Pay attention to positioning and sharp side up.
 - d. Place part 1, the top blade into the machine. Place it in the cutout of the connecting beam. When placed, press the blade to lock it in correctly. The top blade is marked with the size on the end of the knob.

Close and lock the door. Press flashing red button to “home” the machine allowing it to perform one full cycle and prepare it for use. Put other size blades back into container.



PIÑABAR SPARE PARTS

DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
Castor Wheel (front)	PBSPN-101	Castor Wheel (rear)	PBSPN-102
Concrete Counterweight	PBSPN-103	Compression Spring Core Ejector	PBSPN-104
Compression Spring Gripping Unit	PBSPN-105	Compression Spring Rosette Spring Plunger	PBSPN-106
Compression Spring Pineapple Dropper Unit	PBSPN-107	Front Door Lock	PBSPN-108
Door Hinge	PBSPN-109	Ground Cable	PBSPN-110
Safety Door Hinge	PBSPN-111	Waste Bin	PBSPN-112
Plastic Bags for Waste Bin	PBSPN-113	Safety Gloves	PBSPN-114
Spare Knife Set Box	PBSPN-115	Spare Foam for Knife Set Box	PBSPN-116
C14 Screw-on Mounting Inlet	PBSPN-201	Circuit Breaker	PBSPN-202
On/Off Switch 0-1 90°	PBSPN-203	Built in Module Harmony RJ45	PBSPN-204
PLC Controller	PBSPN-205	Variable Speed Drive (100-120V)	PBSPN-206
Variable Speed Drive (200-220V)	PBSPN-207	Power Supply 24V	PBSPN-208
Emergency Stop 24V	PBSPN-209	Relay Socket	PBSPN-210
Relay	PBSPN-211	Plastic Maintaining Clamp	PBSPN-212
Contactors	PBSPN-213	Fuse 24V 2A	PBSPN-214
Load Monitor 24V	PBSPN-215	Wi-fi Router	PBSPN-216
		Ground Bar	PBSPN-217
		Stacked Rail 2.5mm ² Ns35	PBSPN-218
		Stacked Rail 4mm ² Ns35	PBSPN-219
		End Plate 2.2x90mm	PBSPN-220
		End Plate 2.2x90mm	PBSPN-221
		Support Bracket	PBSPN-222
		Connecting Bridge	PBSPN-223
		Mounting Rail 35x7.5mm	PBSPN-224
		Mount Rail 35x15mm	PBSPN-225
		Mounting Rail 3x10mm	PBSPN-226
		Stainless Clamp 3-14mm	PBSPN-227
		Motor Horizontal Rotation	PBSPN-228
		Motor Pusher	PBSPN-229
		Led Strip Type 1	PBSPN-230
		Led Strip Type 2	PBSPN-231
		Magnetic Switch Front Door	PBSPN-232
		Safety Switch Revolving Door	PBSPN-233
		Key for Safety Switch Revolving Door	PBSPN-234
		M12 Connector Cable 5m	PBSPN-235
		Flush Nut for Pineapple Sensor	PBSPN-236
		Cup Sensor	PBSPN-237
		Pineapple Sensor	PBSPN-238
		M12 Connector Cable 2m	PBSPN-239
		Motor Positioning Sensor	PBSPN-240
		Front Push Button	PBSPN-241
		Front Green Signal Lamp	PBSPN-242
		Front Red Signal Lamp	PBSPN-243
		Cable Conduit	PBSPN-244
		Cable Conduit Fitting	PBSPN-245

TECHNICAL DATA

PRODUCT SPECIFICATIONS:

Dimensions: 76"H x 29"W x 32"D

Weight: 725 lbs.

Color: Fully customizable

Blades: Available for pineapple types 5-9; always use the correct blade set for each size.

Waste container capacity: 40 lbs. of peel (25 pineapples)

Capacity: 5/min

Cleaning: We recommend cleaning once per day, at the end of each operational day.

Waste container and user manual included with each machine.

ELECTRICAL SPECIFICATIONS:

120V, 60Hz single phase 20 AMP

Service on a dedicated circuit.

Power: 350 watts

Sound level: < 70 dB

SHIPPING SPECIFICATIONS:

Height: 85 in.

Width: 48 in.

Depth: 48 in.

Weight: 750 lbs.

PINEAPPLE CONTAINER SPECIFICATIONS:

Diameter top: 4.6 in.

Diameter bottom: 3.6 in.

Height: 4.9 in.

Pineapple sizes 5 and 6 = 1000 ml container

Pineapple sizes 7 and 8 = 850/870 ml container

WARRANTY:

1 year parts and 90 days labor

CERTIFICATIONS:



REVISED 1/1/20