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RICE MILL

LUMA

B7 maxi

INSTRUCTION MANUAL

Revision 01

LUMA
Implementos Agrícolas

Dear Customer,

Thank you for your preference, and we congratulate you on choosing the **LUMA B7 Maxi Rice Mill**. This product is manufactured with advanced technology, constructed from high-quality materials, and tested under stringent working conditions.

This manual will guide you through operational procedures, safety, and maintenance. Please keep it readily accessible to your operators and supervisors.

Below, please record the serial number engraved on the identification plate fixed to the machine's chassis. This number will be useful when requesting parts or assistance.

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LUMA
Implementos Agrícolas

Modelo/Model	
Número de Série *Número de Serie* *Serial Number*	

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All images used in this manual are for illustrative purposes only. For better understanding of the instructions, some images may show the machine without certain parts or safety guards. Never operate the machine without the safety guards or if any components are missing.

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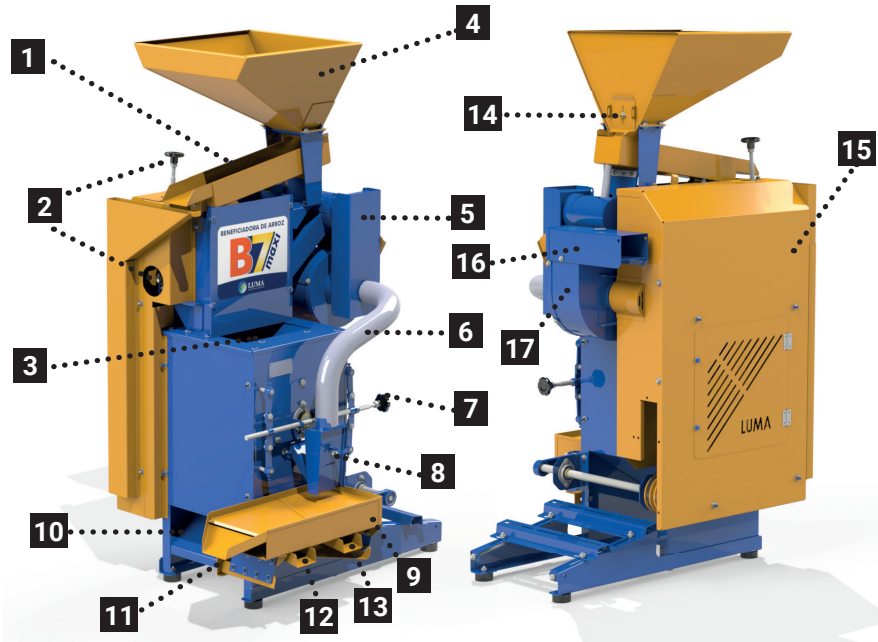


SAFETY

Under no circumstances should the original configuration of the** LUMA B7 Maxi Rice Mill **be modified without the manufacturer's express authorization. Unauthorized modifications and/or accessories may result in serious injury or life-threatening danger to the operator.

Learn to understand your equipment, its risks, and its limitations. This chapter contains general safety recommendations. Each chapter of the instruction manual also contains specific safety recommendations. Safety recommendations must be observed:

- For your own safety;
- For the safety of others;
- For the safety of the machine.

When working with agricultural machinery, improper handling can lead to a range of hazards. Therefore, all work should be performed with great care and attention. Improper use of this equipment can result in serious or fatal accidents.

Before starting the equipment, read the instructions in this manual carefully. Ensure that the person responsible for operating the equipment is properly instructed on its correct and safe use. Keep a first aid kit in an easily accessible location and know how to use it.

This manual and the stickers affixed to the machine contain safety warnings and specific instructions intended to ensure the safety of the operator and others. Read all instructions and stay alert during operation. If in doubt, consult your **LUMA** dealer or contact the factory.

Safety Warnings

DANGER: The warning word **DANGER** indicates an imminent risk situation that, if not prevented, will result in severe injury or death.

CAUTION: The warning word **CAUTION** indicates a potentially hazardous situation that, if not avoided, may result in serious injury or death.

THIS MANUAL MUST BE KEPT IN AN EASILY ACCESSIBLE LOCATION AND WITHIN REACH OF THE MACHINE OPERATORS.

SAFETY

When operated correctly, the machine is very simple to use. However, it is essential that all operators understand its operation and the risks associated with incorrect use. By following the safety instructions outlined in this manual, you will avoid risk situations for the operator, third parties, and surrounding property.

Unauthorized personnel or those who have not received training should not use this equipment. Read the Instruction Manual before starting the equipment. Stay alert and adhere to all usage and safety recommendations during operation. Communicate the information to all users.

All equipment should be used solely for its intended purposes, according to the specifications in the manual. Using the equipment for applications not mentioned in this manual is considered misuse and is not authorized by the manufacturer.

Any arbitrary modification made to the machine or its components will exempt the manufacturer from responsibility for any damage or injuries resulting from such modifications.

Maintenance, lubrication, repair, adjustment, or cleaning should not be performed while the machine is running. Keep unnecessary persons away from the machine to avoid dangerous situations. There is a risk of serious personal injury when untrained individuals approach the machine while it is in operation. Exercise special caution with children. Never allow children to play on or near the machine.

Before using the equipment, inspect the surrounding area. This helps prevent exposing people or animals to risks near the machine. Lack of attention can result in severe injuries to people or animals.

- Before starting the machine, inspect the area around you and carefully check for any people or animals nearby. Pay special attention to children.
- Keep people and animals at least 3 meters and 10 meters away, respectively, from the operating area of the Beneficiator.
- Never use the implement without the safety guards in place.

Never operate the implement without the original safety guards in place. Never transport the implement with the power take-off engaged.

If there are tools, objects, or foreign bodies inside the feed hopper, feeder spout, polishing stone compartment, or on the machine, remove them immediately.

Check that nuts and bolts, belt tensioners, belts, pulleys, and other components are properly tightened and adjusted. Also, ensure that lubrication at all specified points on the equipment has been properly performed.

Equipment operators should wear appropriate clothing. It should not be loose or baggy. Exercise extreme caution with your feet and hands, keeping them away from any moving parts of the machine, such as pulleys and belts.

Never work with the implement without the original safety guards. People who are not operating the equipment should keep a safe distance of approximately three meters. The same applies to animals, with an ideal distance of ten meters.

Never allow untrained individuals to perform maintenance on the equipment. Never attempt to make adjustments or perform maintenance with the equipment running.

If there are operational problems, the machine must be turned off immediately. Operational issues can pose a danger to people or animals near the equipment. Only restart the machine after resolving the issue. The use of PPE (Personal Protective Equipment) is mandatory during the operation and maintenance of the machine.

Moving components, due to inertia, continue to move for some time after the equipment is turned off. Before touching any part of the machine, turn off the power source and check visually and audibly for any signs of movement.

The correct use of your **B7 Maxi** is undoubtedly the most important factor in preventing accidents.

INTRODUCTION

The **LUMA B7 Maxi Rice Mill** has been specially designed and developed for small and medium-sized producers. It features a compact unit that performs all rice milling operations in a single machine: sorting, peeling, polishing, and grading.

USAGE

The **LUMA B7 Maxi Rice Mill** can be powered by electric motors or internal combustion engines (gasoline or diesel). The implement does not require any infrastructure such as concrete bases or anchoring bolts, as it is mounted on its own steel base along with the motor.

In addition to polished rice - classified rice - the **LUMA B7 Maxi** also has an outlet for by-products like rice bran, a valuable component for animal feed. New technologies incorporated include:

- Redesigned suction and cleaning box;
- Peeling head with greater height and more efficient transmission (driven by a 'V' belt);
- Production of up to 270 kg of processed rice per hour;
- Ideal for producers who need speed, quality, and durability;
- Better cost/benefit ratio and productivity.

CAUTION

Other applications are not compatible with the intended purpose of the machine. The manufacturer is not responsible for damage caused by improper use of the equipment. In such cases, the risks must be borne exclusively by the user of the machine.

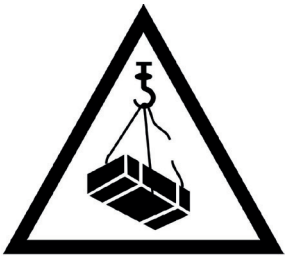
LOADING AND TRANSPORT

When loading or unloading the equipment with a hoist, always use the appropriate lifting points. Be mindful of the power supply during loading and unloading.

Remember that when the machine is suspended, it is subject to intentional or unintentional lateral movements. Exercise caution when lifting it and do not allow people to be in the vicinity of the equipment.

CAUTION

The movement of the suspended machine can strike people and cause a serious accident.



Never stand under a load being hoisted by a crane. Breakage of ropes and slings can lead to severe accidents.

Transportation of the **LUMA B7 Maxi Rice Mill** over long distances should be done using a truck, trailer, etc. Use cables, tie-downs, ropes, etc., in sufficient quantity to secure and stabilize the load on the truck or trailer. Be mindful of the total height of the load, especially under power lines, bridges, etc. Periodically check the condition of the load (loose cables, etc.) during transit. Always follow current traffic regulations.

ENVIRONMENT CARE

Spilling oil, fuels, filters, batteries, greases, detergents, and other substances on the ground directly affects the ecology, potentially contaminating underground layers. Learn the proper way to dispose of these pollutants to ensure they are recycled or reused. Follow current laws regarding the disposal of such products.

ASSEMBLY

The **B7 Maxi** is delivered with the Feeder Spout, Separation Screen Support, and Engine Base disassembled.

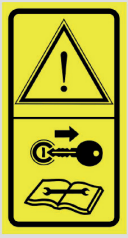
INCLUDED WITH YOUR B7 MAXI

1. Instruction Manual (1 unit)
2. Feeder Spout (1 unit)
3. Separation Screen Support (1 unit)
4. Engine Base (1 unit)

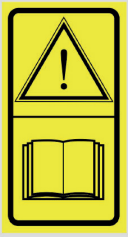
SAFETY STICKERS

The implement contains stickers designed to ensure the safety of operators and others involved in its operation. These stickers should not be removed. If necessary, new stickers can be requested and affixed to the respective locations.

MEANING OF THE SAFETY STICKERS



Turn off the implement before starting repairs, cleaning, lubrication, or maintenance work.



Read and follow the recommendations in the Instruction Manual. ***Attention!!!*** *Read and thoroughly understand the content of the instruction manual before using the machine.*

When operating the machine, use PPE (Personal Protective Equipment).

MEANING OF THE SAFETY STICKERS

Keep a safe distance from the machine.No one should be near the machine while it is operating.

Do not operate the machine without the belt guard. Contact with the moving belt can cause serious injuries.

Never place hands or feet underneath the running machine. Contact with the rapidly spinning rotor blades can cause severe injuries.

INITIAL ADJUSTMENTS

Before installing the **LUMA B7 Maxi Rice Mill**, refer to the instructions on Coupling for Motors (**Page 18**) and the Technical Specifications table (**Page 21**).

CAUTION

The adjustments described below should always be performed with the machine turned off.

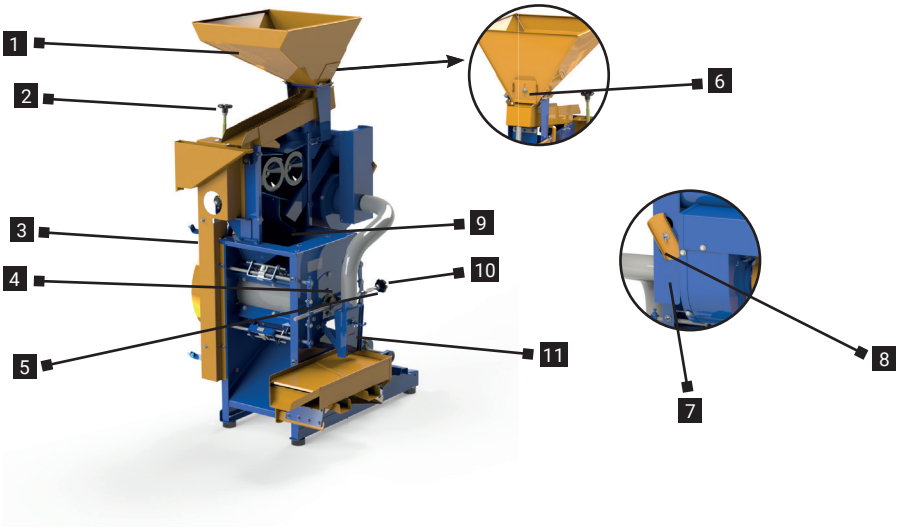
Step 1. Close the Rice Discharge Gate of the Hopper (6).

Step 2. Adjustment of the Peeling Rollers:

- Loosen the lower knob (3) by approximately two turns;
- Turn the upper knob (2) clockwise (+) until the rollers touch, then turn two turns counterclockwise (-) to separate them;
- Tighten the lower knob (3) to secure it.

Step 3. Adjustment of the Polishing Stone Brakes:

- Loosen the locknut (5);
- Turn the knob (10) clockwise (+) until you feel resistance, then turn it one and a half turns counterclockwise (-) to move the brakes away from the polishing stones;
- Tighten the locknut (5).



MILLING

With the machine running:

Step 1. Place the rice into the Feed Hopper (1).

Step 2. Open the Rice Discharge Gate (6).

Step 3. Adjust the Peeling Rollers:
■ Reach into the Polishing Stone Compartment (9) and remove some already peeled rice;
■ Check if peeling has occurred on at least 90% of the grains. If not, follow these procedures:
✔ Loosen the lower knob (3);
✔ Turn the upper knob (2) either clockwise (+) or counterclockwise (-);
✔ Tighten the lower knob (3);
✔ Fully open the shutter (4) by pulling it.

Step 4. Adjust the Straw Suction Box (7):
■ Check if rice is coming out with the straw. If this is happening, follow these procedures:
✔ Loosen the wing nut of the suction cup (8);
✔ Adjust the suction by turning and opening the suction cup (8) to allow more air to enter through the holes;
✔ Tighten the wing nut of the suction cup (8).

Step 5. Adjust the Polishing Stone Brakes:
■ If the rice is too shiny or breaking, proceed as follows:
✔ Loosen the locknut (5):
✔ Turn the knob (10) counterclockwise (-);
✔ Tighten the locknut (5).

■ If the rice is not shiny enough, proceed as follows:
✔ Loosen the locknut (5);
✔ Turn the knob (10) clockwise (+);
✔ Tighten the locknut (5).

IMPORTANT! For the adjustments in Step 5, wait 30 seconds to 1 minute to notice the difference in the rice.

Step 6. Adjust the Suction System of the Aspirator:
■ If the polished rice has impurities (bran and straw), proceed as follows:
✔ Loosen the wing nut (11);
✔ Adjust the gate forward (by pulling it) to increase suction;
✔ Tighten the wing nut (11).

REPLACING THE POLISHING STONE

Step 1. Remove the left side panel of the machine.

Step 2. Remove the six screws (1) and the two fixing bars of the screen (2).

Step 3. Remove the polishing screen (3).

Step 4. Loosen the four screws (4) that secure the brakes. Two are on the left side (**Figure 1**) and the other two are on the right side (not visible in the figure).

Step 5. Pull out the polishing brake assembly (5) – **Figure 2.**

Step 6. Loosen the two screws (6) that secure the brake housing.

Step 7. Remove the brake housing (7).

Step 8. Internally, loosen the two through bolts (8) by approximately 2 centimeters – **Figure 3.**

Step 9. Move the auxiliary guard (9) aside and loosen the two halves of the stone.

Step 10. Remove the worn stones (10) and install the new stones, ensuring they fit perfectly. Tighten the through bolts (8).

Step 11. Reinstall the brake housing (7), the polishing brake assembly (5), the screen (3), the fixing bars (2), and the left side panel of the machine.

Step 12. Adjust the brakes as described in Step 3 on **page 12.**

The approximate lifespan of the polishing stone is between 280 to 320 bags of polished rice, although this may vary depending on the type of product, grain moisture, level of impurities, and machine adjustment.

REPLACING THE POLISHING BRAKES

Step 1. Remove both the left and right side panels of the machine.

Step 2. Loosen the locknut (11).

Step 3. Turn the knob (12) counterclockwise (-) until you feel resistance.

Step 4. Loosen the four screws (4) that secure the brakes. Two are on the left side (**Figure 1**) and the other two are on the right side – not visible in the figure.

Step 5. Pull out the four brake assemblies (5) – **Figure 2.**

Step 6. Remove the slotted screws (13). There are two screws for each assembly – **Figure 2.**

Step 7. Install the new brakes into the housings (7).

Step 8. Position the brake assembly (5) and tighten the slotted screws (13).

Step 9. Keep the brake in contact with the polishing stone.

Step 10. Tighten the screws (4).

Step 11. Adjust the brakes as described in Step 6 on **page 13.**

The approximate lifespan of the polishing brakes is between 100 and 120 bags of polished rice, though this can vary depending on the type of product, grain moisture, level of impurities, and machine adjustment.

FIGURE 1

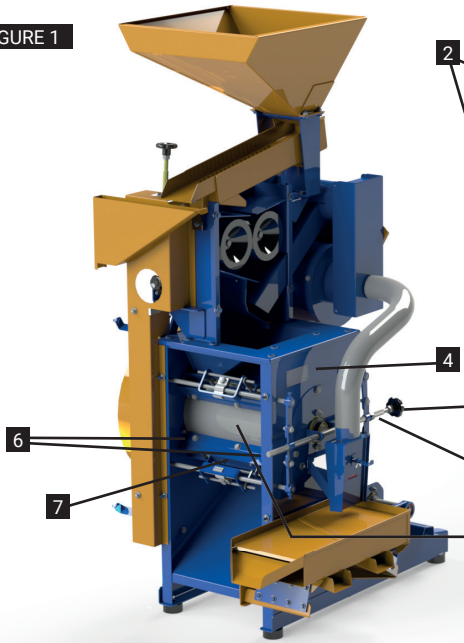


FIGURE 2

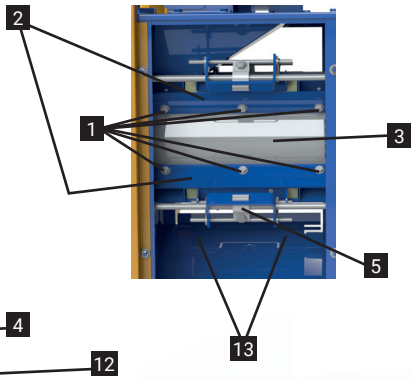
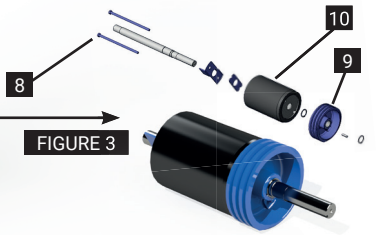


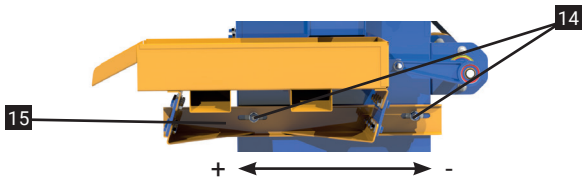
FIGURE 3



ADJUSTING THE HOPPER GAP

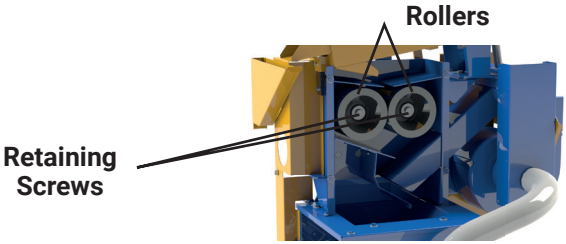
When rice falls onto the screen, it should be properly dispatched to the hoppers. If this is not happening, adjust as follows:

- Loosen the nuts;
- Move the bracket (15) to adjust the hopper gap in the (+) or (-) direction;
- Tighten the nuts (14).



REPLACEMENT OF THE PEELING ROLLERS

- Remove the cover of the housing by loosening the four screws that hold it in place;
- Remove the retaining screws;
- Using your hands, remove the rollers and either swap them (with each other) or replace them (with new ones).



MAINTENANCE OF THE PEELING ROLLERS

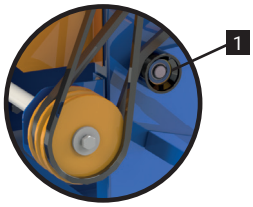
The peeling rollers rotate at different speeds; one rotates faster than the other. Consequently, one will wear out more quickly. Therefore, they should be swapped in position around every 80 to 100 bags of polished rice.

The approximate lifespan of the rollers is between 400 and 500 bags of polished rice, though this can vary depending on the product type, grain moisture, level of impurities, and machine adjustment.

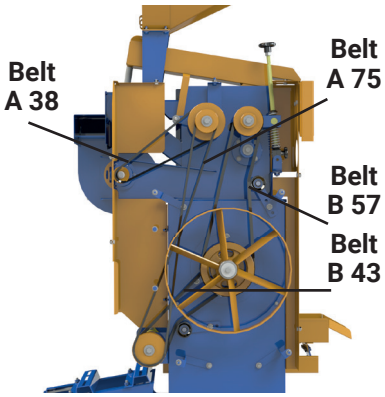
IMPORTANT! During every replacement or swapping of the rollers, clean the shafts and lubricate them with graphite grease.

INSTRUCTIONS FOR TIGHTENING THE BELTS

A) Belt B 43 – Feeding Spout Drive:
■ Loosen the tensioner nuts (1) and proceed with tightening.



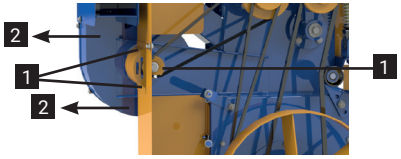
B) Belt B 57 – Hulling Rollers Drive (movable bearing):
■ If the rice hulling is below 90%, even after adjusting the hulling rollers as described in Step 2 on **page 12**, and following the instructions for replacement and maintenance of the rollers on **page 16**, tighten the B 57 belts.



C) Belt A 75 – Hulling Rollers Drive (fixed bearing):
■ Loosen the tensioner nuts (1) from the bearing support (2);
■ Lower the shaft while keeping the level of the bearing supports until the belt is tightened;
■ Re-tighten the bearing nuts (2) on the tensioner (1), keeping the belt tightened.

IMPORTANT! For optimal performance of the **B7 Maxi**, keep this belt always tightened, especially when it is new.

D) Belt A 38 – Fan Drive:
If you notice chaff coming out with the hulled rice, tighten the belt as follows:
■ Loosen the three nuts (1). Only two nuts are visible in the figure;
■ Pull the fan housing (2) to the left, tightening the belt;
■ Re-tighten the three nuts (1), keeping the belts tight.



COUPLING FOR DIESEL OR GASOLINE ENGINES

A) Diesel Engine – 1.800 rpm
Use 2 (two) B 105 belts and 1 (one) Ø 200 2 VB pulley.

B) Gasoline Engine – 3.600 rpm
Use 2 (two) B 105 belts and 1 (one) Ø 100 2 VB pulley.

COUPLING FOR LOW AND HIGH SPEED ELECTRIC MOTORS

A) Low Speed – 1.750 rpm
Use 2 (two) B 85 belts and 1 (one) Ø 200 VB pulley.

B) High Speed – 3.500 rpm
Use 2 (two) B 81 belts and 1 (one) Ø 100 2 VB pulley.

NOTE:
1) For single-phase motors, use the iron base recommended for diesel/gasoline engines;
2) Before performing electrical installation, check that the cable gauge is compatible with the distance between the machine and the transformer;
3) It is recommended to hire a professional for motor installation.

CAUTION

For electrical installations of the implement, the manufacturer recommends hiring a specialized professional.

OCCURRENCE CHART

PROBLEM	PROBABLE CAUSE	SOLUTION
More than 10% of bran coming out with the hulled rice	• Rollers too far apart;	• Adjust the rollers. See **INITIAL ADJUSTMENTS,** Step 2 on page 12;
	• Loose belts;	• Tighten the belts. See **INSTRUCTIONS FOR TIGHTENING BELTS**, page 17;
	• Excessive feeding.	• Reduce the feeding.
Rice being mixed with chaff	• Chaff suction system not properly adjusted.	• See **PROCESSING**, Step 4 on page 13.
Chaff being mixed with polished rice	• Suction system of the aspirator not properly adjusted.	• See **PROCESSING**, Step 6 on page 13.
Rice breaking	• Polisher brake system not properly adjusted;	• See **PROCESSING**, Step 5 on page 13;
	• Hulling rollers system not properly adjusted.	• See **INITIAL ADJUSTMENTS**, Step 2 on page 12.
Low production	• Rice with excessive impurities.	Perform a pre-cleaning of the rice.

CAUTION

Never attempt to repair the machine while it is running. Before starting any maintenance work, ensure that the power supply is turned off.

The machine's design minimizes the need for maintenance and ensures optimal operation under various conditions. When replacing bolts and nuts, use only items with the same specifications as the originals. If in doubt, consult the product parts catalog or contact the manufacturer. Using non-original components can compromise the machine's functionality and endanger operators and others.

Check all nuts and bolts on the machine daily. Vibrations and jolts can loosen them. Always be attentive to unusual noises or sounds from the machine. If you notice anything unusual, stop the machine immediately.

Lubrication is essential for good performance and the longevity of the machine's moving parts, contributing to high performance and reduced maintenance costs. Before starting any operation, carefully lubricate all grease fittings with high-quality lubricant. Before beginning lubrication, clean the grease fittings and their surroundings.

CLEANING AND MAINTENANCE

Perform regular cleaning of the equipment, removing debris such as soil and husks. A thorough wash followed by spraying with fine oil or another protective agent ensures a longer service life for the implement. Store the equipment in a dry, covered place protected from sun and rain. When storing the machine for an extended period, place it in a location inaccessible to children. Clean and lubricate the implement as needed. If necessary, apply a coat of paint to parts prone to rust.

Only genuine **LUMA** parts ensure the proper functioning of your implement, as they undergo strict quality control to guarantee perfect compliance. Therefore, using non-original parts can also cause serious damage to your implement.

TECHNICAL SPECIFICATIONS

LUMA B7 Maxi Rice Mill	
Dimensions:	
Length (mm)	1.000
Width (mm)	900
Height (mm)	1.700
Weight (kg)	160
Power Requirements:	
Electric Motor	7.5 hp
Gasoline Engine	8 hp
Diesel Engine	8 hp
Flywheel Speed	760 rpm
Production	
Polished Rice (60 kg bags)	200 to 270 kg/hour*

**Variations may occur depending on the type of product, grain moisture, level of impurities, and machine adjustment.*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THE QUALITY YOU ARE LOOKING FOR IN THE FIELD IS HERE!

WARRANTY CERTIFICATE

LUMA IMPLEMENTOS AGRÍCOLAS guarantees the equipment described herein against manufacturing defects duly proven by the factory under the following conditions:

1. The warranty is valid for 6 (six) months from the date the machine is invoiced to the first user;
2. This warranty consists of **LUMA IMPLEMENTOS AGRÍCOLAS** commitment to repair or provide free of charge, at its facilities, the parts that, in its sole discretion, present manufacturing defects;
3. **LUMA IMPLEMENTOS AGRÍCOLAS** does not guarantee parts damaged by improper use or any wear and tear resulting from normal use;
4. The warranty will be immediately and fully voided in the following cases: a) improper application of the equipment, use of unsuitable lubricants; b) modifications and adaptations, use of non-genuine parts or componentes;
5. Claims for any defects during the warranty period should be presented to **LUMA IMPLEMENTOS AGRÍCOLAS** dealers, who will forward them to the factory along with the defective part, which will be replaced if the defect is recognized;
6. **LUMA IMPLEMENTOS AGRÍCOLAS** reserves the right to make modifications to the equipment whenever necessary, without incurring any obligations of any kind.

Model: _____

Serial Number: _____ Year: _____

Owner: _____

Location: _____

Date: ____/____/____

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Luma Implementos

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