

# OPERATING MANUAL

LSG 33

Coffee Lab Grinder



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## Warnings and Handling

1. This Grinder is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the Grinder by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the Grinder.
3. Care is needed when handling cutting blades during cleaning.
4. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## **Correct Disposal of this product**

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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## **Preface**

Congratulations for purchasing the LSG33 Coffee Lab Grinder! The LSG33 is a commercial Grinder to be used by professional users at coffee labs, groceries, coffee shops, coffee roasters, espresso bars, hotels and restaurants. The LSG 33 Coffee Lab Grinder grinds whole bean coffee into a container (not provided) with variable step less grind setting dial, from super fine to course coffee powder.

Read this manual from cover to cover before using the Grinder as it contains important safety, operation, and maintenance instructions for the proper use of the Grinder. Keep the manual in a safe place for future use and reference.

The manufacturer reserves the right to modify the grinder and the manual accordingly.

For any questions please refer to your dealer.

## **LSG33 Coffee Lab Grinder**

### **Technical Specifications**

#### Dimensions:

Height: 660mm, Width: 180mm, depth: 425mm

Weight: 26Kg

Disks diameter: 84mm

Bean hopper capacity: 2.0Kg Coffee beans

#### Electrical Specifications (single phase):

220V/50Hz Maximum current 4.5 Ampere

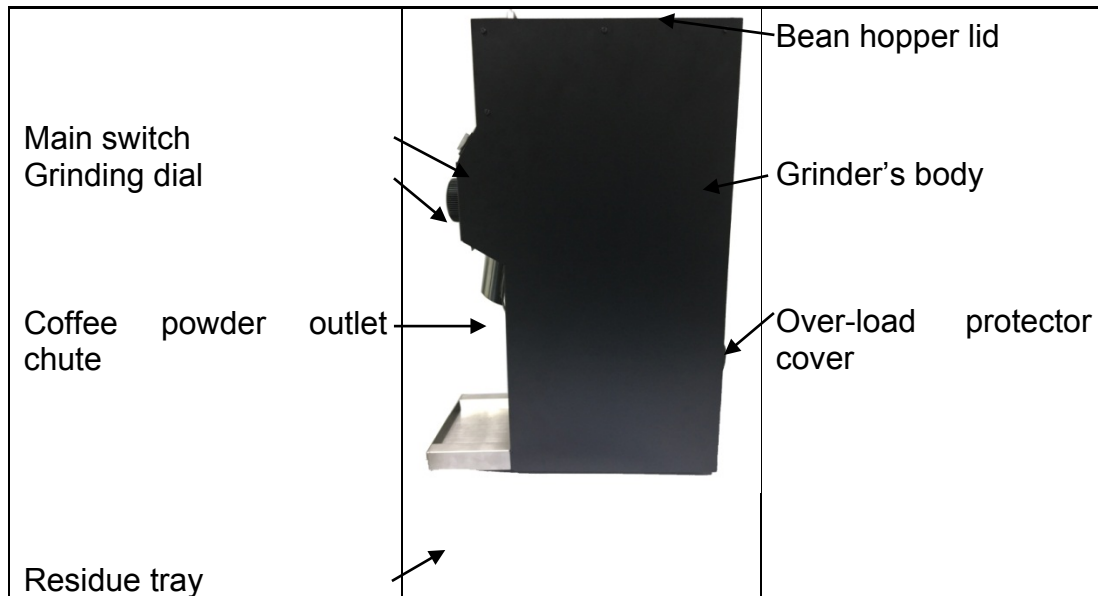
(220V/60Hz Maximum current 5 Ampere)

#### Grinding capacities:

>450gr/min. @ #3 setting (espresso)

Powder size range: 100micron-1000micron

## General Description



## Unpacking and Installation

**Warning:** All technical handling operations such as installation, maintenance, or service should be performed by certified personnel

1. After opening Grinder's package, make sure that the grinder is intact and that there is no visible damage. If there is any doubt, DO NOT continue the installation procedure and contact your local dealer for further assistance.
2. Unpack the product carefully. For your convenience we suggest storing all packaging materials where they can be used in the future, whenever the Grinder's transportation is necessary.
3. Place the grinder on a stable flat counter in a dry area away from water or water splashes.
4. Open hopper's beans lid and visually inspect that there are no foreign objects of any kind remove any foreign object accordingly.
5. Install the hopper lid's handle with the provided screws and screwdriver. Make sure to tight the screws so they cannot fall into the grinding chamber.
6. Install the grinder's powder residue tray.
7. Before plugging in the electrical cord, make sure:
  - a) The Grinder voltage and frequency rating is the same as the supply mains.
  - b) The wall socket is fitted with an efficient ground contact.
  - c) DO NOT plug the Grinder into the supply mains if a ground system is not available in mains socket, socket should in compliance with national/local electrical codes.
  - d) IT IS COMPULSORY TO GROUND THE GRINDER. The manufacturer cannot be held responsible if this obligatory requirement was not complied.

- f) The power consumption of the Grinder is consistent with the relevant wall socket capacity.
  - g) The wall socket is protected against short-outs and power surges.
  - h) Do not: use extension cables, plug adapters for multiple sockets, or make shift connections.
8. Plug in the Grinder.

## Operation

### Operation controls



Fig 5-1

Main Switch is a 3-way switch with Off, ON and Run positions (Fig 5-1). The positionless grind setting knob shows the current grinding setting. Turn the grind setting knob clockwise to achieve a finer grinding, or counter clockwise for coarser grinding. (fig 5-1).

#### First time operation (to perform once after unpacking):

Plug-in the power cable into wall socket.

Set the grind setting knob on coarsest position (#9).

**DO NOT PLACE COFFEE BEANS INTO THE BEANS HOPPER YET.**

Start the grinder by switching the main switch to 'RUN' let the grinder run for a while then while still running gradually change the grind setting from #9 all the way to #1. And then return to #9. Repeat this cycle few times while the grinder is running and listen for any abnormal noise coming from the grinder throughout the process.

For any abnormal or excessive noise refer to your local dealer.

#### Grinding coffee:

After the completion of 'first time operation' the grinder is ready to be used.

Fill the hopper with coffee beans and place an empty container or bag under the powder's chute. Set the desired coarseness and turn the main switch to RUN.

Ensure using a container (or bag), which is in higher volume than the desired grinding volume.

While grinding observe the powder's flow into the container.

Make sure that the powder is not overflowing the container and or blocking the powder's chute.

Stop the grinding by turning the main switch to 'OFF' position, before removing completely the container use the container clipper to shake and remove the final powder from the chute into the container (fig 5-2)



Fig 5-2

Remark about operation intervals:

It is a normal occurrence that during long grinding periods the grinding chamber will warm up. In order to achieve best grinding results, it is recommended to grind coffee in short intervals of no longer than 15 minutes grinding per period of 20 minutes.

## **Safety Devices**

Overload protection:

The grinder's motor is equipped with a semi-automatic overload protection device which cut-off the motor's power automatically at over current condition. The overload protector is located on the back of the grinder behind the round lid.

In the event that the overload protection was tripped as a result of technical problem (e.g.: jammed blades, worn out bearings, foreign object in grinding chamber, etc.) the grinder's main switch should be turned off and the main power plug must be disconnected. Allow the grinder to cool down before any further maintenance. For further handling of the device contact your local service provider.

In the event that the overload protection was tripped as a result of a long continuous operation allow the grinder to cool down. Reset the semi-automatic protector by pressing the protector's button (uncover the lid first).

On the first operation after resetting a tripped over-current protector observe the grinding quality and noise level, and if there are any irregularities shut

down the grinder and call a certified technician for a complete analysis of the Grinder.

Beans conveyor and grinding chamber safety cover:

The grinding chamber can be a hazardous area if the proper precautions aren't observed.

The beans hopper is equipped with hands and fingers safety protector.

Never remove the safety protector while the grinder is plugged in.

Never use a grinder that is not equipped with protector or if the protector is broken

## **Safety Instructions**

NEVER OPERATE THE GRINDER IF THE BEAN HOPPER IS NOT FULLY SECURED TO THE GRINDER'S BODY. BEFORE REMOVING THE HOPPER FOR ANY REASON MAKE SURE TO DISCONNECT THE POWER SUPPLY.

NEVER CLEAR FOREIGN OBJECTS FROM THE BEANS CONVEYOR OR BEANS HOPPER WHEN THE GRINDER IS PLUGGED INTO A POWER SOCKET.

BEFORE ANY MAINTENANCE, EVEN FOR CLEANING, ALWAYS DISCONNECT THE POWER SUPPLY.

Never attempt to insert your fingers or any foreign objects into the grinding chamber or blades.

Be aware that grinding blades continue rotating for a short while after switching OFF the Grinder and the grinding operation has ended.

In the event that the Grinder has a malfunction or the blades need to be replaced, do not attempt to service the Grinder by yourself.

Do not change or tamper with the Grinder.

Do not use the Grinder barefoot or if your hands or feet are damp.

Do not use the cable wire to pull and disconnect the power plug.

Always keep the Grinder dry (internally and externally).



Do not regrind coffee powder

Do not attempt to use the grinder grinding anything else other than roasted coffee beans.

## **Maintenance and Service**

Warning: All technical handling operations, such as installation, maintenance, or service should be performed by certified personnel or by your local dealer.

Following this rule will ensure long-lasting and reliable performance of your Grinder.

Check the state of the grinding blades periodically (approximately every 100kg of grinded coffee). Good condition blades will result in a high quality grind and prevent the Grinder's over-heating. Replace grinding blades every 1,000kg of grinded coffee (with normal hardness blades).

The noise level of a grinder is a good indicator of its general condition. Be aware of the Grinder's noise level. In case the noise level is higher than normal or irregular noises are coming from within the Grinder, get certified personnel to perform an overall check of the Grinder.

**BEFORE ANY MAINTENANCE OR DISASSEMBLY PROCEDURE MAKE SURE THE GRINDER IS EMPTY OF COFFEE BEANS AND CLEAN OF POWDER**

Removing the grind setting knob:

Turn the grind knob to finest grinding position. (fig 8-1)

Use a flat screwdriver (provided with the grinder) to remove the knob's main center screw

Pull out the knob (fig 8-2)

After removing the grind setting knob, please note the silicone sliding positionless cushion relative position of the marks on the grinding body and on the internal dial knob, if no further setting is required refrain from changing the position of the internal knob (fig 8-3)



Fig 8-1



Fig 8-2



Fig 8-3

Finest position      loosen the securing screws      silicone and body markers

### Readjustment of grind setting

The grinder was factory set for different types of coffee powders, from finest Turkish coffee to coarsest hand filter coffee. However, in course of time or after thorough cleaning procedures or disks replacement, some changes in setting may be required. If you feel your grinder is out of tune (either a squeaking noise or grind powder is too coarse at the finest setting) please run through the following procedure.

Release and pull the main grinding knob out.

The steel internal knob is exposed out now.

Note the current steel knob position (the relative position between the marker on the knob to the marker on the main body)

Use a flat screw driver to slightly turn the steel knob clockwise in order to make the pre-setting finer or counter clockwise in order to readjust the grinder coarser.

Test the new setting, by running the grinder without coffee beans first. Then if no an noise from on the new setting position use some coffee beans to test the new position. Readjust accordingly.

Turn OFF the grinder, re-assemble the knob on Turkish coffee position, tighten the screw and place the Logo cover back into its position.

Check the grinder by grinding coffee beans to various types of coffee powder and repeat the entire process if necessary.

## **CLEANING**

BEFORE ANY CLEANING ROUTINE GRIND AND MAKE SURE NO BEANS OR POWDER ARE IN THE GRINDER.

DISCONNECT THE GRINDER POWER SUPPLY.

NEVER USE RUNNING WATER FOR THE CLEANING PROCEDURE.

USE ONLY PERFECTLY CLEAN CLOTHS OR BRUSHES TO CLEAN THE GRINDER.

DO NOT USE ABRASIVE CLEANING PRODUCTS AS THEY MAY SCRATCH GRINDER'S FINISHING.

### Cleaning the bean hopper

Release the top cover screws (4 screws on each top right and left side of the grinder)

Release the 2 beans hopper screws (located on its back side)

Pull out the beans hopper and rinse it thoroughly with water and soap.

As the beans hopper is made of ABS, use only liquid detergent (free of abrasive components) and soft sponge.

Before reinstalling the beans hopper, make sure it is thoroughly dried.

### Cleaning the grinding chamber

Before starting the thorough cleaning procedure of the LSG33 coffee grinder, read the complete set of instructions.

Refer to the previous paragraph 8 in order to disassemble the grinding knob

Refer to the below steps 1-8 in order to disassemble the grinding core

Use a cross screwdriver to release the 4 screws that secure powder chute to the front cover.

Use a flat screwdriver to release the 4 screws of front cover and pull it gently out.

Make a note and mark the wiring connection order with the main switch and then release the 4 wires

Use a #3 Allen key to release the main grinding house (4 screws)

Pull out the entire grinding house including the internal grinding knob.

Pull out the bearing holder

Pull out the disk holder with the beans' conveyor. Pay attention to the spring at the end of the beans conveyor, it should be kept for the after cleaning assembly process.

Reaching Step 8 below is the base situation for cleaning and replacing disks.

Use brush and cloths to clean all the parts thoroughly

Do not use sharp objects to scrape coffee residue off of the blades.

Examine both of the blades' condition and replace them as necessary.

The replacement and assembly of a new set of blades is a delicate task. Only skilled technical personnel should be allowed to perform blade removal and assembly.

Always use an original spare parts made by the manufacturer

Clean the exposed grinding area.

Before re-assembling the parts lightly grease the motor shaft with food grade grease.

Make your assembly way back in opposite order (steps 9-5)

Before assembly the main knob check and if necessary recalibrate grinder's tuning (refer to ADJUSTMENTS OF GRINDING OPERATION on paragraph 8)

After all cleaning and replacing tasks are performed make sure to assemble all of the parts and safety screws the same way as they were disconnected. If anything does not fit back together or there are left over parts, do not attempt to operate the Grinder, call for the assistance of your technician. Start working gradually and observe any irregular noise or behavior of the Grinder.

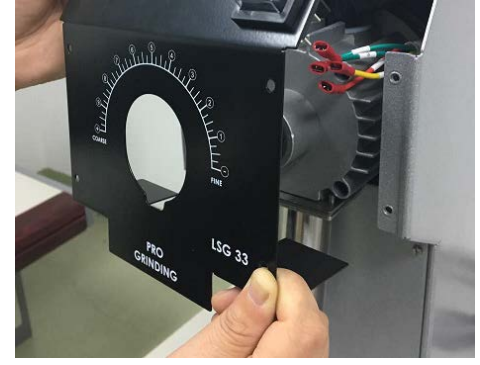
Advise with your local technical support for any irregular noise or grinding problems.



Step 1 -remove chute



Step 2 – remove front cover step



Step 3-mark,  
disconnect wires



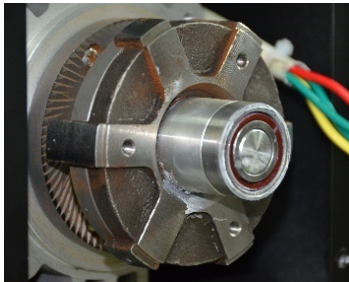
Step 4 note internal knob pos.



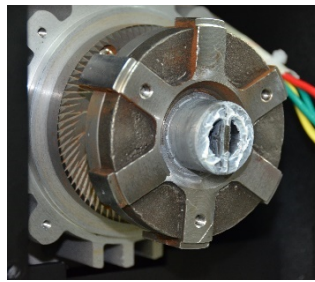
Step 5- release grinding house



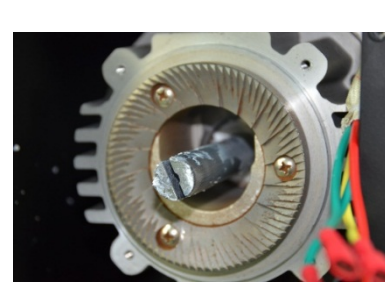
Step 6-  
remove  
grinding house



Step 7- remove the bearing cover



Step 8 -remove the shear key



Step 9-  
remove the disk holder

A “more profound” cleaning procedure should only be performed by a skilled technician.

To ensure long lasting grinder and great fresh taste of coffee, the cleaning procedure as described above should be repeated routinely and at least once per month or as necessary according the grinder’s usage and quality of beans.

End of Manual