LUCCA

ATOM 75

User Guide

PRECAUTIONS AND SAFETY FEATURES

Machine design has taken into account all reasonable user safety precautions; nevertheless, particular conditions of installation and/or handling may create unforeseen situations beyond the installer's control which will require case-by-case evaluation of residual risks.

We recommend keeping the following in mind:

- Always handle the machine with care to avoid the danger of its falling.
- The packing materials (carton, cellophane, staples, polystyrene, etc.) can cut, wound or create hazards if used improperly or handled carelessly. Store such materials out of reach of children and irresponsible persons.
- This symbol on the appliance or package means that the appliance must not be considered as normal household refuse but that it must instead be delivered to an appropriate collection centre for the recycling of electric and electronic appliances. Make sure that this appliance is disposed of correctly and you too will be making your contribution to the prevention of negative effects on health and the environment, which could otherwise be caused by inadequate disposal. Recycling materials helps to preserve our natural resources. For more information about how to recycle this product, you can contact your local council office, local refuse disposal service, or the retailer from whom you purchased the appliance.
- Before carrying out any installation or adjustment process, be sure to have read and thoroughly understood the warnings in this manual.
- The company cannot be held liable for any damage to people or property resulting from failure to respect the instructions concerning safety, installation and maintenance contained in this manual.
- The power cord of this appliance must never be replaced by the user. In case of damage, switch the appliance off and contact only the manufacturer or related after-sales service, otherwise a skilled personnel for replacement.
- Should you decide to no longer use this type of appliance, we recommend that you make it inoperative: unplug the appliance from the mains socket and cut off the power cord.
- All defects and/or anomalous machine behaviour should be reported immediately to authorized installation and/or maintenance personnel.
- Before connecting the machine, check that electrical power supply corresponds to the specifications on the data plate.
- In case of incompatibility between the plug and the socket, have the plug replaced with a suitable type by the manufacturer, his after-sales service, or by skilled personnel, who should also check that the section of the plug wires is suitable for the power absorbed by the appliance.
- Avoid use of multiple-plug adapters and extension cords.

- The ground wire must be connected; the electrical system must meet the standards set by local safety laws and regulations.
- The machine must be installed only by authorized, qualified personnel.
- Check that the machine components have suffered no damage during shipping; in the case defects or anomalies are found, interrupt installation and request replacement.

APPLICATIONS AND USE

- This grinder dispenser has been devised for professional use by trained personnel.
- The grinder/dispenser must be used only for the application for which it was designed; that is, grinding roasted coffee beans. Any other use must be considered improper and therefore dangerous.
- The manufacturer shall not be held responsible for damages deriving from improper, erroneous or unreasonable use of the machine.
- The appliance must not be used by children or people with reduced, physical, sensorial or mental abilities. It must also never be used by people without the necessary skills and experience unless under supervision or during training.
- Do not allow children to play with this equipment at any time.
- The machine is not designed for use in extreme environmental conditions and in any case at temperatures outside the -5°C to +30°C range.
- The user must respect the general safety regulations in force in the country in which the machine is installed as well as the rules of common sense, and shall be responsible for ensuring that periodic machine maintenance is correctly performed.
- The persons installing and using the machine and performing machine maintenance shall inform the manufacturer of any defects or damages due to wear that might jeopardize the original safety features of the machine.
- The installer shall be responsible for checking that the machine is installed in tolerable environmental conditions such as to not to create health or safety hazards for those using the machine.
- Any responsibility deriving from components manufactured and installed on the machine shall be assumed by the respective manufacturers; responsibility attributable to the persons authorized to use the machine shall be assumed by the customer.
- The device can be used 24 hours a 24 with intermittent service as listed on the nameplate values Ton and Toff. The machine components are designed and built to ensure at least 1000 hours' operation.
- Good cleaning and maintenance also contribute to determining long machine life.

BASIC SAFETY PRECAUTIONS

- Never touch the machine with damp or wet hands.

- Never use the machine when barefoot.
- Never attempt to unplug the machine by pulling the power cord or the machine itself.
- Do not expose the machine to atmospheric agents (sun, rain, etc..).
- Never allow the machine to be used by children or by irresponsible persons.
- Always use the appliance on a flat, steady surface that is able to support its weight.
- Always unplug the machine from the power supply before performing any cleaning or maintenance operations.
- Do not use water jets or detergents for cleaning the appliance.
- In the case of machine breakdown or malfunction switch the machine off and do not tamper with it.
- For repairs contact only an authorized service center and request use of original spare parts.
- Non-observance of the above precautions may make the machine unsafe for future use.
- Do not leave the machine switched on when not in use. Unplug the machine when not in use.
- Do not obstruct the ventilation and/or heat dissipation openings and/or slits nor introduce water or any other liquids into same.
- Should the wire be damaged, have it immediately repaired by the manufacturer, his authorized after-sales service, or skilled personnel.
- Never insert spoons, forks or other utensils into the coffee bean container to make withdrawals or interventions.
- Always switch off the appliance before removing blockages from the coffee bean container.
- Never place the appliance in water or other liquids.
- Should a foreign body stop the motor, switch the machine off immediately and contact an authorized service center
- Do not use grinder if touch display cover glass is damaged, cracked or broken.
- If touch display cover glass is damaged, dispose of any nearby coffee or food which may be contaminated with broken glass. Failure to do so may result in severe injury.
- If touch display cover glass is damaged, the grinder must be taken to an authorized service provider for repair. Only those properly trained by the manufacturer and wearing personal protective equipment should attempt repair.

⚠WARNING

Those machines bearing the "EL. MOTOR WITH THERMAL PROTECTION" indication are equipped with a device which protects the motor from overheating. When this device is engaged, do not attempt to operate the machine: isolate the machine from the power supply and eliminate the cause of the trouble before re-starting.

1. GENERAL INFORMATION

MANUFACTURER:
CONTI VALERIO - Via Luigi Longo 39/41 - Sesto Fiorentino, Firenze, Italy

ELECTRONICS & SOFTWARE DESIGN:
LUCCA - 801 SE Hawthorne Boulevard, Portland, OR 97214, USA

COFFEE GRINDER MODEL (OFFICIAL NAME):
LUCCA Atom 75

2. TECHNICAL DATA

DESCRIPTION	LUCCA ATOM 75
Voltage (V)	110/120
Frequency (Hz)	60
Power consumption (W)	900
Current (A)	10
Motor power (W) *	250
RPM *	1700
Hopper capacity (g)	500
Productivity (g/s)	4,5 / 5,5
Empty Weight	9,5
Height (mm)	570
Width (mm)	180
Depth (mm)	227

(*) The value given is for the actual revolution of the burrs.

Activation times (duty cycle):
- T-on: 120 seconds
- T-off: 900 seconds

3.   IMPORTANT INFORMATION

This manual is designed for use by the user of the machine and/or by those performing maintenance on the machine and must be considered an integral part of the machine itself. This manual provides information concerning correct use and appropriate maintenance of the machine, as well as useful indications for ensuring user safety. This manual must be preserved for the entire working life of the machine and must be transferred, together with the machine, to future users or owners. The information contained in this manual must not be construed as substituting the safety prescriptions and the technical data regarding installation and operation carried on the machine itself and on the packing materials. This manual reflects the current state of machine technology and shall not be considered obsolete solely because updated at a later date on the basis of acquired experience. The manufacturer reserves the right to make modifications to this manual with no obligation to update previous versions except in exceptional cases. Improper use of the machine or use in manners other than those described in this manual shall invalidate the guarantee conditions and shall release the manufacturer from all responsibility, the machine must be used only by adult, responsible persons. This manual must be preserved with care: the manufacturer declines all responsibility for damages to persons or things or to the machine itself deriving from improper use or use in manners other than those described herein or in the case the maintenance and safety precautions described herein are not respected.

3.1   PRESERVATION OF THE MANUAL

This manual must at all times be available to the machine user and/or the persons performing maintenance on the machine, who must be provided with full information regarding correct machine use and residual risks.
This manual must be preserved in a clean, dry place away from sources of heat. This manual must be used in a manner such as not to damage any part of its contents.
Do not remove, tear out or re-write any part of this manual for any reason. In case of loss of this manual or for further information, please contact your area retailer or the manufacturer.

4. DESCRIPTION

1. Coffee hopper
2. Hopper gate
3. Hopper locking screw
4. Grind adjustment knob
5. Touch display
6. Dispensing spout
7. Pushbutton switch
8. Portafilter resting fork
9. Main power switch

5.   ASSEMBLY AND SETUP

5.1   INSTALLING THE COFFEE HOPPER

Before operating the appliance, fit the coffee hopper into the grinder body.

- Insert the coffee hopper into its seat, positioning it so that the indentation lines up with the hopper locking screw on the back of the appliance.
- Tighten the hopper locking screw, taking care not to over tighten it.

5.2   ADJUSTING THE PORTAFILTER RESTING FORK

Use a 2.5mm allen key to loosen the set screw on the portafilter resting fork. Slide the fork up or down to accommodate your machine's portafilter.

6.   INSTRUCTIONS FOR USE

6.1   INTRODUCTION

The LUCCA Atom 75 is a WiFi-enabled coffee grinder with a precise digital grind position sensor. The mechanical portions of the Atom 75 are based on Eureka's proven Atom platform, manufactured by Conti Valerio, Srl. in Florence, Italy, which has been building excellent coffee grinders since 1920. The electronic components and software were developed by LUCCA, a coffee technology brand in Portland, Oregon, USA which has been bringing innovative coffee products to market since 2011.
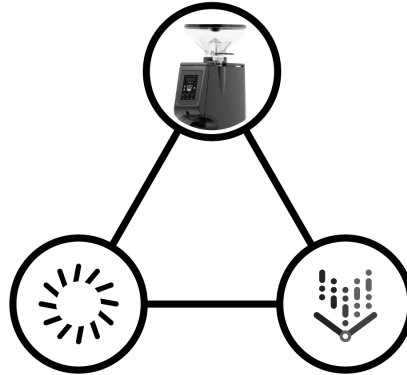
6.1.1   WHAT IS TrueGrind?

TrueGrind is an "Internet of Things" (IoT) system developed at LUCCA to help home and professional baristas find the best grind setting for their espresso quickly and easily. Whether you're new to the game or a World Barista Champion, figuring out your grind setting (also known as "dialing in") is a challenging experience. Until now, the best any of us could do was pull a bunch of shots and guess-and-check our way to the right setting with some handy but imprecise heuristics (bucket of sand, anyone?).

Despite over a century of advances in espresso technology, this is still the same, sad state of the art. We aim to change that.

6.1.2 THE TrueGrind SYSTEM

TrueGrind is a system of three parts which all work together to help you dial in your espresso.

The Grinder: LUCCA Atom 75

The LUCCA Atom 75 has been specially designed to work with TrueGrind. It is equipped with custom, pre-seasoned and cryogenically hardened burrs for extreme grind stability, an ultra precise digital burr position sensor which can detect grind changes as small as 5 microns, a touchscreen display, and internet connectivity to allow you to load, edit and reference your favorite coffees, recipes, and TrueGrind AI grind predictions.

The App: LUCCA TrueGrind for iOS & Android

The LUCCA TrueGrind mobile app lets you browse hundreds of coffee bags to purchase from MistoBox, create recipes, get grind setting predictions, and sync them to the grinder.
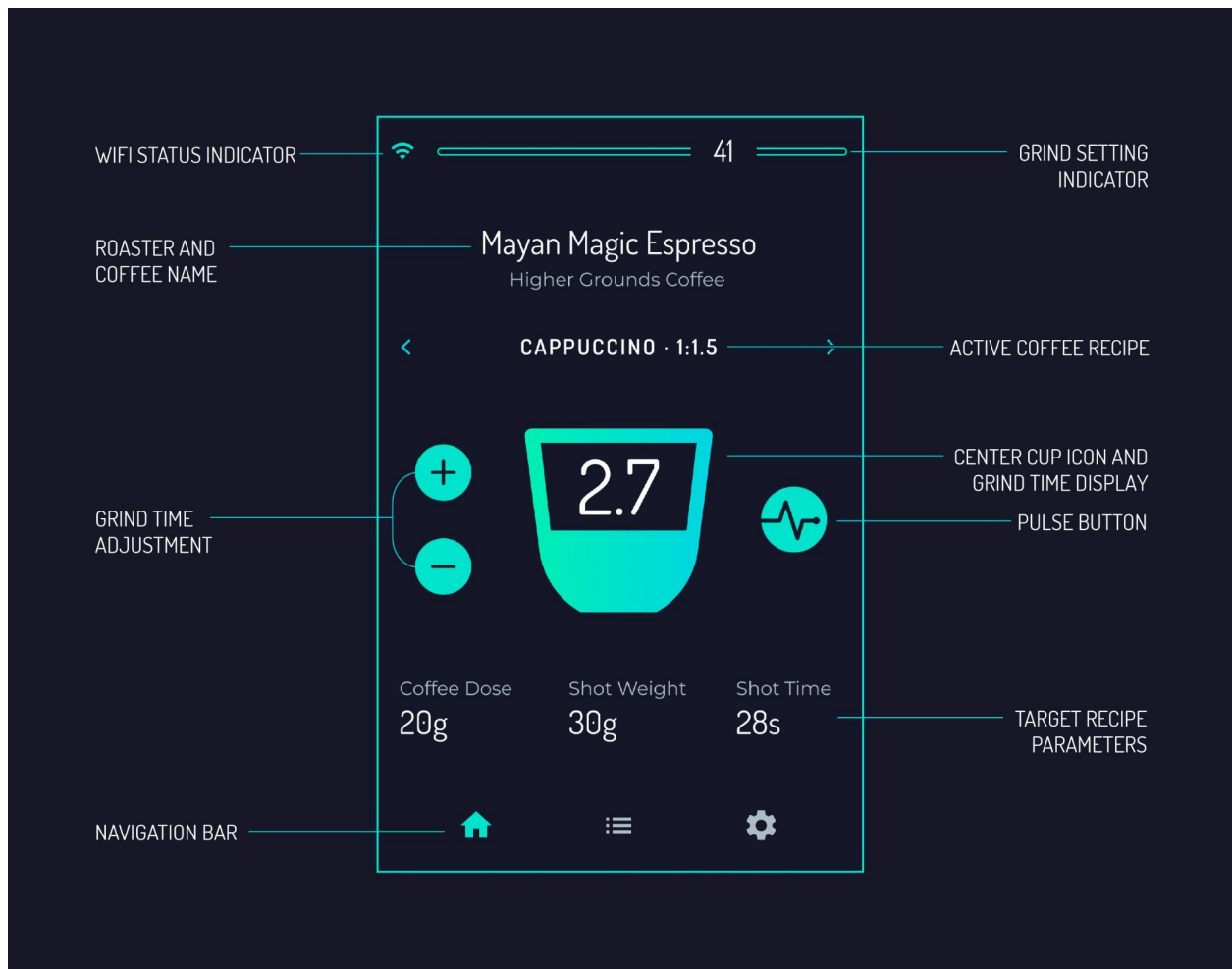

The Brain: TrueGrind AI

TrueGrind AI is a Cloud-based artificial intelligence that thinks it's a barista--if a barista could solve partial differential equations in milliseconds. Tell TrueGrind AI about your espresso machine, coffee beans, and the kind of shot you want, and it will predict the best grind setting to achieve it. Not quite there on the first try? Use the Dial-In Assistant and TrueGrind AI will instantly learn and correct its grind predictions based on your feedback.

6.2   USER CONTROLS

The LUCCA Atom 75 is controlled by interacting with the touchscreen, pushbutton switch and grind adjustment knob.

6.2.1 TOUCHSCREEN

Using the touchscreen, you can navigate between different pages, view the current digital grind setting, adjust grind time, connect the grinder to a local WiFi network, select the grinding mode, stop and start grinding, receive and edit coffee recipes, view system information, and edit or reset system settings.

6.2.2 PUSHBUTTON SWITCH

You can use the pushbutton switch below the grind dispensing chute to start or stop grinding without having to use the touchscreen.

6.2.3 GRIND ADJUSTMENT KNOB

The grind adjustment knob is used to adjust the grind setting. The grind setting determines the relative position of the grinding burrs. The farther apart the burrs are, the coarser the coffee particles, and the larger the number displayed at the top of the touchscreen; the closer the burrs are, the finer the coffee particles, and the smaller the number displayed at the top of the touchscreen. Turning the grind adjustment knob anticlockwise results in a coarser grind, and turning it clockwise results in a finer grind. To prevent jams, it is advised to not adjust the grind farther than +/-10 digital grind settings at a time, and to run the grinder motor between each adjustment to purge the grinder of old coffee.

6.3 FIRST POWER ON

Before powering on the grinder, first ensure it is plugged into a grounded 120v outlet. Then, flip the main power switch on the lower rear right side of the grinder body.

6.3.1 CONNECTING TO WiFi

After a welcome message, a list of available WiFi network SSIDs will be displayed. After selecting one, you will be prompted to enter the password for that WiFi network.

If you do not see your home or business WiFi network SSID displayed on the list:
- The list of networks detected is long and cannot all be displayed at once. Tap and drag your finger on the touchscreen to scroll through the list.
- Your WiFi access point (sometimes built into, and referred to as a "router") is too far from the grinder, and it has poor signal. You may need to reposition your access point or grinder, or you may need to install a range extender or second access point closer to the grinder.
- Your WiFi network operates on the 5GHz band. The LUCCA Atom 75 can only connect to access points operating on the 2.4GHz band. Most WiFi access points capable of operating at 5GHz also make a network available at 2.4GHz, but the network name and password may be different. Consult the label or documentation of your WiFi access point to find your default 2.4GHz network name and password.

If you see your network's SSID displayed multiple times on the list, select the topmost one; your network may have multiple access points in your home or business, and the grinder displays them in order of signal strength.

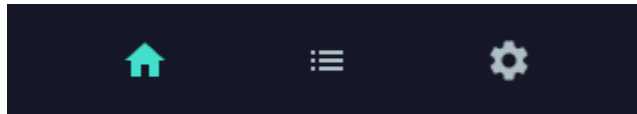### 6.3.2 REGISTERING A GRINDER TO YOUR TrueGrind ACCOUNT

After connecting to WiFi, you will be prompted to install the TrueGrind AI mobile app, create a user account, and then register your grinder to your account by entering the unique Grinder ID into the TrueGrind AI mobile app.

Registering your grinder is free and allows you to access all of the features of the LUCCA Atom 75, such as browsing & ordering TrueGrind Ready MistoBox coffees, creating & uploading coffee recipes to your grinder, and accessing TrueGrind AI grind setting predictions.

6.4 NAVIGATING THE PAGES

You can navigate through the pages and menus of the LUCCA Atom 75 by tapping icons on the touch screen.

From the Navigation Bar at the bottom of the screen, you can quickly access the three main pages: Home, Select, and Settings.

6.4.1 HOME 🏠

The Home page provides a dashboard where you can view relevant information for whichever Grind Mode is active, and operate the grinder.

6.4.2 SELECT ☰

The active Grind Mode is selected from the Select page. Tapping on a coffee listed under "My Coffees" will enable TrueGrind Recipe Mode. Tapping the "Timed" or "Continuous" buttons will enable Timed Grind or Continuous Grind mode, respectively.

6.4.3 SETTINGS ⚙

You can adjust the configuration of the grinder from the Settings menu.
- Pulse Time: Adjust the time the grinder runs when the Pulse button is pressed.
- About: Access additional information about the grinder.
    - Model: This is the model ID of your grinder.
    - Grinder ID: This is your grinder's unique IoT identifier.
    - Firmware: Check the firmware version and update if available.
    - Reset All Settings: Deregisters the grinder from your TrueGrind AI account, permanently deletes locally stored user data, and returns the device to its factory default settings.
    - FCC Compliance: Find the disclosures required by the FCC.
- WiFi: Search and connect to a local WiFi network.
- Calibrate Grind Position: Set the zero point of the grind setting indicator.

6.5   OPERATING THE GRINDER

The LUCCA Atom 75 can be operated in three different modes. Two manual modes--Continuous and Timed Grind--provide a familiar workflow to experienced baristas.
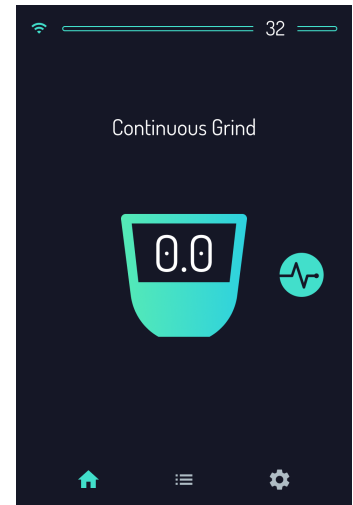
The third, TrueGrind Recipe Mode, is unique to the LUCCA Atom 75. TrueGrind Recipe Mode allows you to load a coffee bag, edit recipes, view the TrueGrind AI predicted grind setting or save your own.

There are several features common to all modes:
1. Grind setting indicator: The grind setting indicator displays the distance between the grinding burrs. Each increment of the grind setting indicator is factory calibrated to correspond to a change of 0.005mm distance between the burrs.
2. Pulse button: The pulse button allows you to grind a small amount of coffee in a short burst of time. You can adjust the pulse time from the Settings menu.
3. WiFi status indicator: Indicates the state of the WiFi connection.
4. Cup icon: The cup icon can be tapped to start or stop the grinder.
5. Grind timer: The timer displays either the last run time of the grinder or the preset grind time, depending on the current grinding mode.
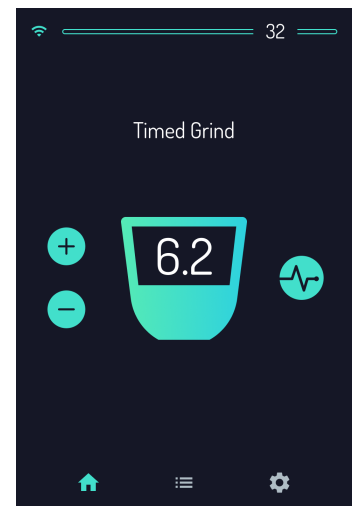
6.5.1 CONTINUOUS GRIND MODE

In Continuous Grind mode, the grinder motor is engaged by pressing and holding either the pushbutton switch or the cup icon in the center of the touchscreen. The timer counts up from zero for as long as the pushbutton switch or cup icon is held.

6.5.2 TIMED GRIND MODE

In Timed Grind mode, the grinder motor is engaged by tapping either the pushbutton switch or the cup icon in the center of the touchscreen. The motor will run until the timer counts down from its preset time to zero, or the pushbutton switch or cup icon is tapped again.

The user can adjust the preset grind time up or down by pressing the (+) and (-) buttons beside the cup icon.
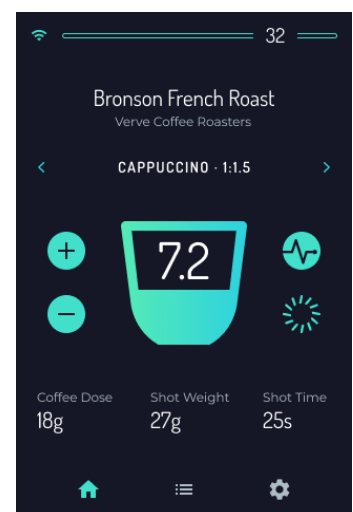
6.5.3 TrueGrind RECIPE MODE

TrueGrind Recipe Mode provides a dashboard to access, edit, and display your stored coffee recipes. TrueGrind Recipe Mode will also indicate the direction to turn the dial to reach the saved grind setting for the active recipe.

To access TrueGrind Recipe Mode, first enable one of the coffees in your personal collection in the TrueGrind app by tapping the toggle beside coffee name. The coffee will then appear on the Select page. Tap the coffee on the grinder's touchscreen to enter TrueGrind Recipe Mode.
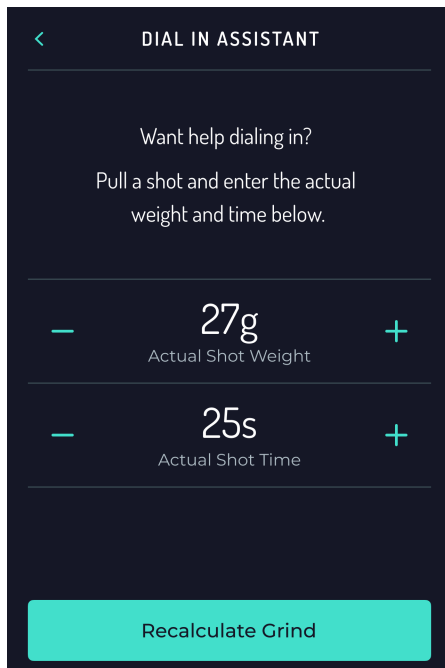
The cup icon and pushbutton switch work the same in TrueGrind Recipe Mode as in Timed Grind mode. Edits made to the grind time are saved to each recipe.

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6.6 TrueGrind DIAL IN ASSISTANT

The Dial In Assistant lets you provide feedback to the TrueGrind prediction AI in order to get more accurate grind setting predictions tailored to your particular technique, brewing environment, equipment, and coffee.

You can access the Dial In Assistant by tapping the ⟳ button while in Recipe Mode.

DIAL IN ASSISTANT

Want help dialing in?
Pull a shot and enter the actual weight and time below.

− **27g** +
Actual Shot Weight

− **25s** +
Actual Shot Time

Recalculate Grind

To use it, first bring up one of your coffee recipes in Recipe Mode. Then, pull a shot, and make note of the shot's actual weight and time. If the actual weight and/or time were not what you were targeting for this recipe, tap the Dial In Assistant button to enter the shot's actual weight and time.

Pro Tip:
You can use any coffee with the Dial In Assistant, including coffees not yet available in the TrueGrind AI mobile app!

TrueGrind will take those feedback values and recalculate the coffee's parameters, providing you with a new, more accurate grind setting prediction. If necessary, repeat this process until the shot you get is as close to the recipe targets as possible.

7.   CLEANING AND MAINTENANCE

⚠ **ATTENTION**

Unplug the appliance before performing any cleaning and maintenance operation.

⚠ **ATTENTION**

Do not pull the power cable or the appliance itself to disconnect the plug from the power supply socket.

7.1   CLEANING

Cleanliness is a basic aspect for the proper functioning of the coffee grinder with a dosing unit. A neglected coffee grinder with dosing unit may have a negative impact on coffee dispensing as well as on the accuracy of dose and grinding. Before cleaning, make sure the appliance is unplugged. At least once a week, clean the Coffee Hopper, removing the oily coat left by coffee beans by means of a clean cloth.

It is furthermore necessary to often clean (several times a day) the dispensing spout through a brush and a vacuum cleaner. In case such operations are not carried out, the aromatic oily part contained in coffee may turn rancid with negative consequences on coffee, furthermore the lack of cleanliness may jeopardize regularity of the dose itself.

Clean the base and exterior of the grinder by means of a damp cloth.

7.2 MAINTENANCE

⚠ **ATTENTION**

Maintenance is to be performed only by skilled personnel authorized by the manufacturer.

⚠ **ATTENTION**

Do not carry out improvised or precarious repairing and do not use non original spare parts.

In order to ensure proper functioning of the appliance, check and eventually replace the burrs every 350kg of ground coffee.

The burrs in the LUCCA Atom 75 have been specially developed for use with the TrueGrind system. Using any other burrs may result in a lower grind quality and consistency, and may prevent the TrueGrind AI grind prediction system from providing accurate predictions.

Contact Clive Coffee or your retailer to purchase new factory-style burrs for the LUCCA Atom 75.

8.   TROUBLESHOOTING

Customers in the USA can contact Clive Coffee for support.

Customers worldwide can contact their local reseller or their coffee technical services provider.

8.   FIRMWARE UPDATES

From time to time, LUCCA may release new versions of the grinder's firmware to fix bugs or add features. Your LUCCA Atom 75 can download and install these firmware updates while connected to a WiFi network.

If a firmware update has been made available to download, a notification will appear on screen when powering up the grinder. You can also check your current firmware version and check for available updates by navigating to Settings>About>Firmware.

9.   LEGAL

9.1   FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
   (1)   This device may not cause harmful interference, and
   (2)   This device must accept any interference received, including interference that may cause undesired operation.

FCC Responsible Party:

     Clive Holdings, LLC
     801 SE Hawthorne Blvd
     Portland, OR 97214
     https://luccaespresso.com/pages/fcc