acaia



Acaia Orbit User Manual

AOT001

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Introduction

Welcome to your new Acaia Orbit.

The Orbit is a 64 mm flat burr grinder built with the latest Acaia technology from the ground up. Designed for home and light commercial spaces, the Orbit is convenient and versatile. It will optimize your workflow and offer a coffee grinding experience like never before.

The stepless grind size adjustment dial is intuitive and precise. With the built-in auto reverse cleaning process and a knocker, grind retention for single dosing is kept at a minimum.

The companion Orbit app gives you full control of the Orbit. You can personalize the button behavior, experiment with RPM profiling, or even control the RPM manually through the app.

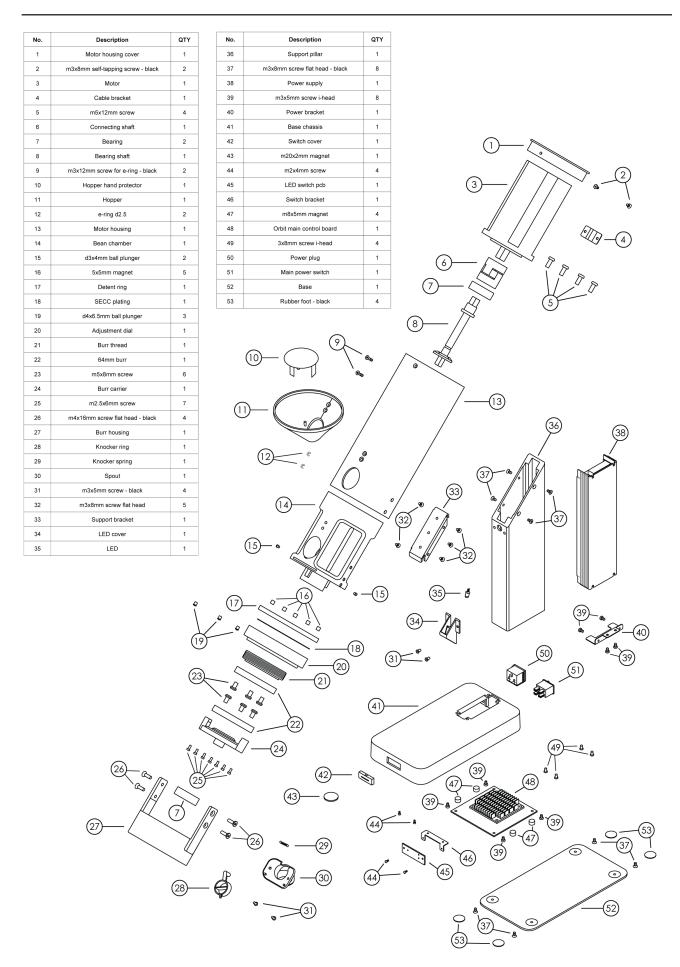
Grind precisely the right amount every time with Acaia Sense Technology. The Orbit can connect with the Lunar and become one of the most precise grind-by-weight grinder in the industry.

With the Orbit, a new coffee grinding experience awaits. Follow this guide to explore all that it has to offer.

Read the information below very carefully before using your Orbit. It contains important safety information for this appliance. Incorrect handling of this product could result in personal injury or physical damage. Please keep these instructions for future reference.

- ! Before cleaning, servicing, and assembling / disassembling the grinder, unplug the electrical supply and wait for at least 5 minutes.
- ! Use only an AC power source with voltage within the product specification.
- ! Never immerse the grinder in water.
- ! Never place fingers or any objects inside the Orbit Spout.
- ! Never operate the Orbit without the Orbit Spout properly installed.
- ! Never operate the Orbit without the Hopper properly installed.
- ! The Orbit is intended to grind roasted whole coffee beans only.
- ! For EU: This appliance can be used by children aged from 8 years and above, and people with reduced physical, sensory, mental capabilities, or lack of experience and knowledge, if they are under supervision or have been given instructions concerning use of the appliance in a safe way and understand the hazards involved.
- ! For EU: Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- ! For other than EU: The appliance is not to be used by people (including children) with reduced physical, sensory, mental capabilities, or lack of experience and knowledge, unless they are under supervision or have been given instructions.
- ! Instructions include the use of accessories.
- This appliance is intended to be used in household and similar applications such as:
 staff kitchen areas in shops, offices, and other working environments;
 - farm houses;
 - by clients in hotels, motels, and other residential type environments;
 - bed and breakfast type environments.

Parts Identification

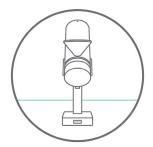


In The Box



Burr Carrier Screws

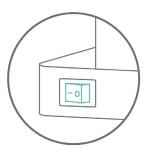
*Alternative M4 screws for different burrs.



Place the Orbit on a flat, stable surface.



Plug into a 100V~240V AC power source.



Turn on the main power switch at the back.



Attach the spout extender to the Orbit spout.



Apply the Dosing Cup Magnetic Pad under the 58 mm dosing cup and place the cup on the base of the Orbit.

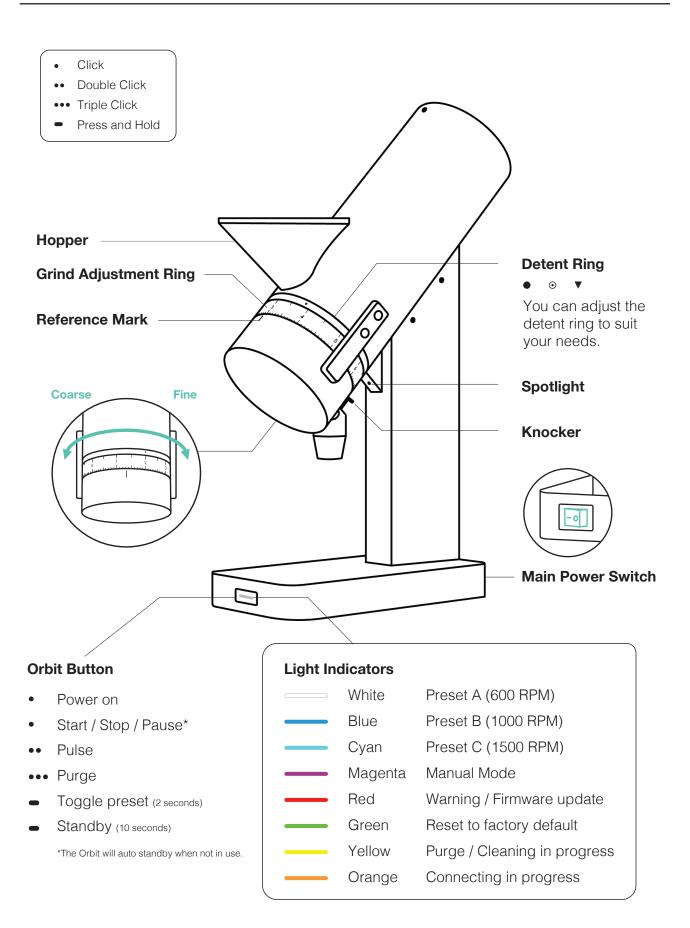


Click the Orbit button in the front. When the button light is on, you are ready to go.

Note:

- Acaia tests every unit with coffee beans during the quality control process. Some ground coffee may remain in the grinder or the packaging.
- Please avoid setting the dial beyond the burr touching point.

Orbit Overview



Orbit Grinding

The Orbit comes with unique features to meet your coffee brewing needs. The grinder is single-dosing friendly with features such as automatic cleaning purge that helps to reduce retention when grinding. You can also activate Orbit's grind-by-weight function by pairing with the latest Acaia Lunar and enjoy an effortless dosing experience.

Built and designed with Acaia's proprietary technology from the motor driver to the companion app, Orbit offers advanced control of RPM and overall energy savings. See the information below to explore the features of Orbit.

Start / Stop Grinding

Click the Orbit button to easily start / stop a grinding session.

Adjust Grinding Speed

Press and hold the Orbit button to switch between 3 default RPM profiles. The 3 presets are each represented by a different color light. You can access the RPM profiling feature through the Orbit app.

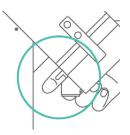
LED Indicator Color	Preset Name (In App)	Preset RPM
White	Preset A	600 RPM
Blue —	Preset B	1000 RPM
Cyan 🗕 🗕	Preset C	1500 RPM

Hot Start / Cold Start

You can either start grinding by adding beans into the Orbit while the grinder is started (hot start) or before it is started (cold start). Note that the particle distribution of the ground coffee may slightly change depending on the way you start grinding.

Knocker

The knocker is just behind the Orbit spout. Use the knocker 2 to 3 times to knock out as much retention as possible. You can change the direction of the knocker for left handed or right handed users. Please refer to our Orbit videos list on how to change the orientation of the knocker.



Burr Zero Point

The point where the burrs can no longer be adjusted finer. When turning the adjustment dial finer, it will encounter total resistance and will not be able to turn.

DO NOT attempt to turn on the grinder when burrs are at zero as damage may occur. Note that the "0" on the grind adjustment ring does not equal the Burr Zero Point for your Orbit.

Burr Touch Point

The point where the burrs make initial contact with each other, and make an audible sound of metal-on-metal scraping. This is the finest possible grind setting. If performing a burr alignment or installing new burrs, the burr touch point may change position. Orbit users are advised that attempting to grind finer than the burr touch point may result in damage to the burrs or motor.

Stepless Adjustment

Orbit's setting dial has a 0.75 mm thread pitch that allows smooth and continuous adjustment from espresso to filter coffee in just one rotation. That gives plenty of room to fine-tune your shots, as well as swap from small pour over brews to large batches whenever you need to.

Auto-stop

The Orbit will automatically stop grinding once the bean chamber is empty after 3 seconds. If the Orbit is turned on without any beans in it, the grinder will automatically stop after 15 seconds.

You can adjust the auto-stop setting through the Orbit App for continuous grinding. Once the auto-stop setting is turned off, the grinder will continue grinding until it is manually stopped by the Orbit button.

UTO SETTINGS	AUTO SETTINGS
Auto Start Grinding	Auto Start Grinding
Only applicable when connected with Lunar	Only applicable when connected with Lunar
Auto Stop Grinding	Auto Stop Grinding
Only applicable in single dose workflow	Only applicable in single dose workflow
Auto Purge	Auto Purge
Only applicable in single dose workflow	Only applicable in single dose workflow
Auto Off	Auto Off
Standby after 15 minutes when not in use	Standby after 15 minutes when not in use

Auto-purge

Orbit will automatically purge after each grind to reduce the retention. The Orbit will show a yellow light when in purging with a fast reverse spin, then a forward spin. You can manually trigger the purging sequence by triple clicking the Orbit button.

This setting can be turned off through the Orbit App. Once turned off, the Orbit will not auto-purge after each grind.

UTO SETTINGS		AUTO SETTINGS
Auto Start Grinding Only applicable when connected with Lunar	0	Auto Start Grinding Only applicable when connected with Lunar
Auto Stop Grinding Only applicable in single dose workflow	0	Auto Stop Grinding Only applicable in single dose workflow
Auto Purge Only applicable in single dose workflow	()	Auto Purge Only applicable in single dose workflow
Auto Off Standby after 15 minutes when not in use	Ŏ	Auto Off Standby after 15 minutes when not in use

Stall Prevention

When grinding, if the Orbit burrs stall and stop grinding, it will automatically stop the motor. The button will flash red to notify the user that a stall has occurred, and the Orbit will then restart the motor to try to grind again.

In many cases, the momentary pause and restart will correct the stall and grinding will continue successfully.

After stalling 5 times, the Orbit will stop the motor and will not attempt to restart again. In this case, you may need to adjust the grind coarser and try again, open the grinder to clear a piece of debris (such as a piece of concrete or wood that was mixed in with the beans), or contact customer service for support.

If the Orbit encounters extremely hard beans or rocks and any other foreign objects, it may shut down automatically without warning immediately to protect the system from overloading. If this issue occurs, please follow our deep cleaning instructions and remove any beans or foreign objects.

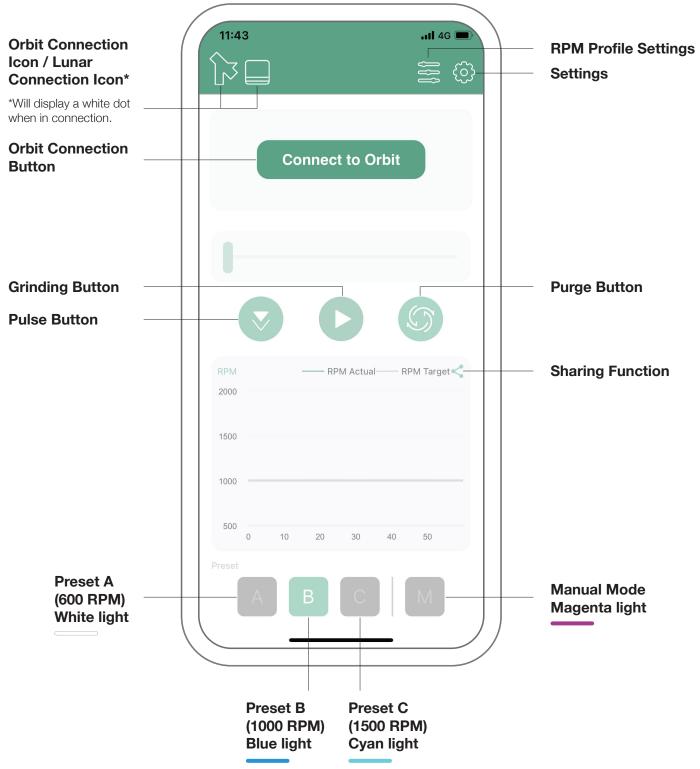
Note:

- To see our single-dose grinding workflow, go to the Orbit videos list on the Acaia YouTube Channel.
- The auto-stop and auto-purge function are both ON by default. The auto-purge sequence will only be initiated when the auto-stop function is on.
- The Orbit should only be used to grind roasted coffee beans. Attempting to grind other materials or products may result in damage or malfunction of the grinder.

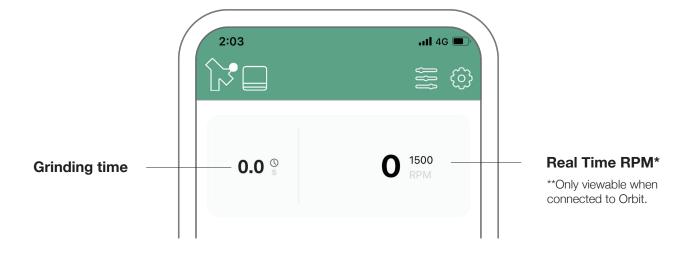
Advanced Control with the Orbit App

The companion Orbit App gives you advanced control over the Orbit. You can fully customize your Orbit by adjusting button actions, RPM profiles, and other settings.

App Overview



When Connected to the Orbit



When Connected with Orbit and Lunar



RPM Profile Overview

The Orbit features Acaia's first-in-class RPM profiling, which allows you to explore new particle size distributions created by shifting the RPM of the grinder. When grinding coffee, the rotation speed of the burrs (RPM) has an effect on the uniformity of the grinds created. With the Orbit, you can design your own RPM profile to experiment with how shifting RPM affects the uniformity and flavor of your brews.

To access the RPM profiling feature, first connect the Orbit app to your Orbit grinder. For each profile (A, B, and C) you can set a 2-stage RPM profile. The stages can be set between 600-1500 RPM, and also include a timer to set how long each stage should run. RPM profiling is only available while the Orbit is connected to the Orbit app. The modified settings from the app will be saved to the Orbit, and first stage settings will be saved into the App preset.



1 To adjust this setting, first make sure you are connected to Orbit through the app.

	Pres	et C	Save
PM			RPM Target
100			
500			
0	10	20	30
	t Weight		10.0
Srind b connec	y Weight is supported v ted with Lunar	when	18.0 g
			_
	e RPM Profiling ofiling is supported in C	Drbit Mode	
Initial	phase RPM 1500	RPM	
600			1500
	phase time in sec	onds 30.0 s	1800
5.0			60.0
Endin	g phase RPM 0 RI	РМ	
600			1500
Endin	g phase time in se	conds 0.0 s	
0.0			60.0

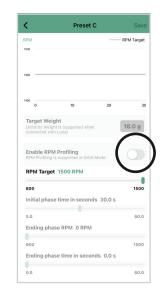
4 When RPM profiling is enabled, the adjustable options will turn active.



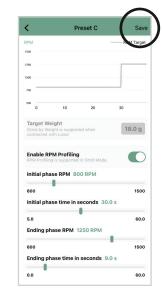
2 Choose either Preset A, B, or C. Enter the RPM profile settings.

<		Pr	eset C		Sav
RPM					1 Targe
1500					
250					
1000				-	
750					
500					
	0	10	20	30	
		PM Profiling			C
RPI	V Profilin		in Orbit Mode		С
RPI	M Profilin	g is supported	in Orbit Mode	(1500
RP)	M Profilin tial pha	g is supported	in Orbit Mode		1500
RP)	M Profilin tial pha 0 tial pha	ig is supported ase RPM 80	in Orbit Mode		1500
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RP)	M Profilin tial pha 0 tial pha	ig is supported ase RPM 80	in Orbit Mode O RPM econds 30		
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RPP Ini 600 Ini 5.0 En 600	M Profilin tial pha tial pha tial pha ding pl	ig is supported ase RPM 80 ase time in s	in Orbit Mode O RPM econds 30 250 RPM).0 s	60.0
RPP Ini 600 Ini 5.0 En 600	M Profilin tial pha o tial pha ding pl ding pl	ng is supported asse RPM 80 asse time in s hasse RPM 1	in Orbit Mode O RPM econds 30 250 RPM).0 s	60.0

5 You can adjust the RPM profile settings as desired.



3 Enable the RPM profiling option. You are unable to use this option if not connected to Orbit.



>

6 Save the settings through the upper-right corner. The modified settings will be saved into the Orbit.

Time-based Grinding

The Orbit has a time-based grinding function that is only accessible through the Orbit App. You can set the desired grinding time length for each grinding session. The grinder will automatically stop when the target time is reached.

	Preset C	Save
м		RPM Target
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0		
0	10 :	80 30
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onnected wi		18.0 g
Enable RPI	M Profiling	
RPM Profiling	is supported in Orbit Mode	
RPM Profiling	M Profiling is supported in Orbit Mode RPM 1500 RPM	
NPM Profiling	is supported in Orbit Mode	1500
NPM Profiling	is supported in Orbit Mode	
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RPM Profiling nitial phas 300 nitial phas 5.0	is supported in Orbit Mode	0 s
RPM Profiling Initial phas 600 Initial phas 5.0	is supported in Orbit Mode as RPM 1500 RPM as time in seconds 30.	0 s
RPM Profiling Initial phas BOO Initial phas 5.0 Ending pha	is supported in Orbit Mode as RPM 1500 RPM as time in seconds 30.	0 s
RPM Profiling Initial phas 5.0 Ending pha 500	is supported in Orbit Mode as RPM 1500 RPM as time in seconds 30.	0 s 60.0 1500

1 With RPM profiling enabled, change the initial and ending phase time to limit the grinding length of one session.

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000					- RP	- Sature
800						
eco —						
400	10	20	30	40	50	60
Targe	t Weight	t				
Grind b	y Weight is	s support	ted when		18	8.0 g
	e RPM P				1	
	e RPM P ofiling is s			Mode	(C
RPM Pr		upported	in Orbit		1	C
RPM Pr Initial	ofiling is s	upported	in Orbit			150
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RPM Pr Initial 600 Initial 5.0	ofiling is s phase F	apported RPM 60	i in Orbit	s 15.0	s	
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RPM Pr Initial 600 Initial 5.0 Endin 600	ofiling is s phase F phase t	RPM 60 RPM 60 RPM 8	i in Orbit DO RPM second 350 RP	s 15.0 M		

2 Save the settings through the upper-right corner.



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3 Once the settings are saved, the Orbit will stop grinding when the ending phase time is reached.

Manual Grinding

Orbit's manual grinding mode enables you to control the RPM freely in real time. During a single grinding session, you can change the speed of the grinder by simply dragging the RPM slider in the Orbit App. You can see the real time RPM graphed in the chart on the App main page.

The Orbit will display a Magenta light when in manual mode. Please note that RPM profiling is not enabled in manual mode.

O 1500 0.0 [©]

- Connect to Orbit 1 through the Orbit App and choose Preset M (Manual Mode.)
- 0 900 RPM 0.0 [©] ł \square RPM Target < The RPM slider will 2
- turn active when switched to Manual Mode.



Drag the RPM slider 3 to change the speed of the grinder. The real time RPM will be reflected through the gray line in the graph below.



Settings Menu

Tap the settings icon on the upper right corner of the Orbit App main page to enter Orbit App settings. The overall settings are listed below:

Orbit Button Actions

You can also design your own workflow by customizing the Orbit button actions through the App. There are three button actions customizable: Double Click, Triple Click, Press and Hold for 10 seconds. The customizable options are Pulse, Purge, and Power Off.

Please note that the action [Click] is set to power on, start, and stop. This action is not customizable.



1 Connect your Orbit to the Orbit App. Enter the Settings Menu through the icon in the upper right corner.

C Orbit Button Acti	
CLICK	
Power On Start Stop	
DOUBLE CLICK	
Pulse	\sim
TRIPLE CLICK	
Purge	\sim
PRESS AND HOLD FOR 10 SECONDS	
Power Off	~

GRINDER STATUS	
Orbit Button Action	>
Total Motor Running Time	7 HOURS
Power for Last Grind Session	107 W
Device Serial Number	
Device Firmware Version	1.0.0
UTO SETTINGS	
Auto Start Grinding Only applicable when connected with Lunar	
Auto Stop Grinding Only applicable in single dose workflow	
Auto Purge Only applicable in single dose workflow	
Auto Off Standby after 15 minutes when not in use	

2 Tap [Orbit Button Action] at the top of the setting page.

ADVANCED SETTINGS

 Cribit Button Action

 Image: Comparison of the settings

 Button Action settings

 Dutten Action settings

 CLICK

 Power On | Start | Stop

 Dutten CLICK

 Pulse

 TRIPLE CLICK

 Purge

 Press AND HOLD FOR 10 SECONDS

 Power Off

3 You can customize the 3 button actions as desired.

4 Leave the settings page to save.

Auto Start Grinding

- 1. The default setting is OFF.
- 2. On: Auto Start enabled; Orbit automatically starts grinding once a cup or container weighing more than 5 grams is placed on Lunar.
- 3. Off: Auto Start disabled; start grinding by clicking the Orbit button.
- 4. Auto Start is only supported in grind-by-weight mode.

Auto Stop Grinding

- 1. The default setting is ON.
- 2. On: Auto Stop enabled; grinder will automatically stop grinding when
 - 3 seconds after grinding session ends;
 - No coffee beans are detected for around 15-17 seconds after a grinding session is started.
- 3. Off: Auto Stop disabled. Auto Purge will also be disabled.
- 4. Auto Stop is only supported in single dose grinding.

Auto Purge

- 1. The default setting is ON. Auto Purge Setting can only be turned on when Auto Stop Setting is on.
- 2. On: Auto Purge enabled.
- 3. Off: Auto Purge disabled.
- 4. Auto Purge is only supported in single dose grinding.

Auto Off

- 1. The default setting is ON.
- 2. On: Auto Off enabled; Orbit automatically enters standby mode after 15 minutes.
- 3. Off: Auto Off disabled.

Clear Paired Acaia Scale

Tap [Clear] to clear paired Acaia Scale. Each Orbit can only pair with one Lunar at the same time. If you want to pair with another Lunar, please reset the pairing here from the App, or reset the Orbit to factory default.

Reset to Default

Tap [Reset] to reset Orbit to factory default. All settings including RPM profiles, button actions, and pairing will be reset to factory default.

Enable / Disable Acaia Scale Connection

- 1. The default setting is ON.
- 2. On: Connection to Acaia Scale enabled; Lunar will automatically pair / connect to Orbit when placed on the grinder.
- 3. Off: Connection to Acaia Scale is disabled; Lunar will **NOT** automatically pair / connect to Orbit when placed on the grinder.

Mode Introduction

The Orbit comes with a grind-by-weight mode that can be activated through a paired Acaia Lunar. In grind-by-weight mode, you can set the target weight and desired RPM for your grinding session. The grinder will automatically stop grinding once the target weight is reached.

Acaia Sense Technology

When the target weight is reached, the Orbit will automatically stop the motor and complete the grinding session. With the machine learning Acaia Sense technology built in, the predictive offset will be dynamically adjusted each time to ensure the most accuracy and repeatability of the dose in grind-by-weight.

Acaia Lunar on Orbit

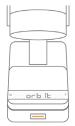
You can enable the grind-by-weight mode by connecting the Orbit to the Lunar. With the Lunar connected, the Orbit supports 3 customizable presets for weight-based grinding, also including an auto-start grinding function to give you a hands-free operating experience.

See the instructions in the next section on how to pair your Lunar to Orbit and how the Lunar functions when connected to the grinder.

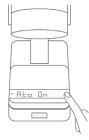
Auto-Grinding for Hands-free Operation

The Orbit bears an auto-start function that supports an auto-grinding workflow. With the auto-start and auto-stop setting both enabled, you can grind easily by just placing your cup on the paired Acaia Lunar. The Orbit will start grinding once a cup weighing more than 5 grams is placed on the Lunar, and stop when the target weight is reached.

You can enable the auto-start setting via the Orbit App, or through the paired Acaia Lunar.



1 To turn on auto-start through the Lunar, first make sure the Lunar is paired to the Orbit.



2 Press and hold T on the scale until the Lunar displays [Ato On].



To disable it, press and hold T once again until [Ato OFF] appears.

Grind-by-Weight Workflow with the Acaia Lunar

Follow the steps below to set up the grind-by-weight function with the Acaia Lunar.

Apply Lunar Magnetic Strips



1 Remove the Lunar magnetic strips application tool along the dotted line.



2 Fold the flaps at the top and bottom of the application tool along the dotted line.



3 Align and insert the application tool flaps into the Lunar base gap.





- **Peel off** the backing paper of the magnetic strips.
- **5 Align** the magnetic strips with the application tool and attach the strips to the Lunar.





Pairing with the Lunar for the First Time



1 Make sure both the Lunar and the Orbit are using the latest firmware via the Acaia Updater App.



2 Check if the Lunar has the magnetic strips aligned correctly.



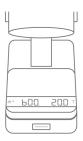
3 When the Lunar is off, **press and hold** the button for 10 seconds until the LED displays 'Pair?'.



Place the Lunar on the Orbit. When the Orbit button turns orange and the Lunar displays 'Confirm?', tap T on the Lunar to confirm pairing.



5 When the Lunar displays 'Orbit', the pairing is complete.

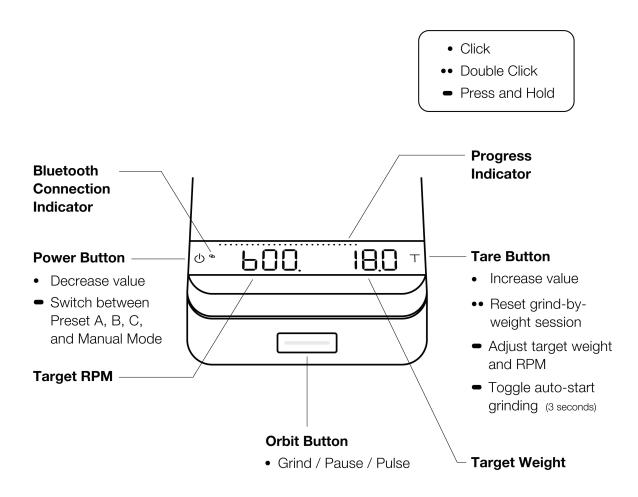


6 You will only need to pair the Lunar once. The Lunar will automatically connect with the Orbit next time it is placed on the Orbit.

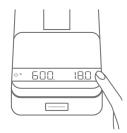
Note:

One Orbit can only pair with one Lunar at the same time. If you want to pair with another Lunar, please reset the pairing in the App, or reset the Orbit to factory default.

Weight-Based Grinding



Adjusting Weight and RPM in Grind-by-weight Mode



To adjust the target weight and RPM, press and hold T until the weight starts blinking.



2 When the weight starts blinking, **tap** ⊤ to increase and **tap** ⊕ to decrease.

ſ		
0.	600,	- 0.05
\Box		

When you reach the desired target weight, wait
5 seconds to move on to the RPM adjustment.



4 When the RPM starts blinking, **tap** ⊤ to increase and **tap** ⊕ to decrease.



5 When you reach the desired RPM, wait 5 seconds to save.



6 When adjusting target weight and RPM, press and hold ⊤/ ⊕ to speed up the adjustment.





To begin the grinding

session, **click** the Orbit

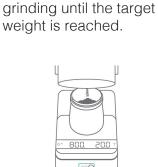
button. The Orbit will start

8

7 Make sure to **remove** the spout extender from the Orbit spout and **place** the dosing cup on the Lunar.



10 At the end of each session, you can click the Orbit button to pulse a small amount of coffee if needed.



11 Remove the dosing cup or **double tap** T to reset the current grind-byweight session.



9 When the target weight is reached, the Orbit will automatically stop the motor.

Product Care Information

Care and Cleaning

Do not immerse the Orbit in water. Use a soft cloth with warm water only to clean the product. Do not use detergent or other chemicals for cleaning as this can damage the product.

To maintain a low retention for the Orbit, we recommend cleaning the spout regularly in the steps below:



- 1. **Remove** the spout extender and **use the knocker** multiple times.
- 2. Using a small cross slot screwdriver, **remove** the two screws from the Orbit spout on the burr housing.



3. Remove the spout. **Clean** the Orbit spout with a brush and activate purge by **triple clicking** the Orbit button.



4. Reassemble the Orbit spout with the burr housing and fasten with two screws. These screws can be replaced with thumb screws for easy assembly.



5. Attach the spout extender.

Do not perform burr cleaning or burr replacement without proper knowledge or technique. Acaia is not responsible for realignment or reassembly of the grinder once it is disassembled.

Appendix

Troubleshooting

The Orbit button will turn **Red** —— and stop grinding when the motor encounters an issue. The following are some instructions for basic troubleshooting:

- 1. Turn off the main power and adjust the dial towards a coarser grind. Try restarting the grinder.
- 2. If step 1 does not fix the issue, please follow our cleaning steps and clean the Orbit thoroughly. Make sure there are no foreign substances in the bean chamber before restarting the grinder.
- 3. If the Red light still persists, please contact our customer support service for further assistance.

Issue	Troubleshooting
Unable to connect to Acaia Lunar	Make sure the Acaia Lunar is using the latest firmware. Follow the instructions in the Grind-by-weight with Acaia Lunar section to re-connect.
Orbit produces no coffee ground when grinding	Follow our cleaning steps and clean the Orbit thoroughly. Restart the grinder.
Burr touch point has moved to a different number after deep cleaning	Clean the grind residue from the end of the drive shaft, and the central hole of the burr carrier after reassembling the burr carrier.
Orbit shut down during grinding without warning	Follow our cleaning steps and clean the Orbit thoroughly. Check if there are any foreign objects in the Orbit.

Troubleshooting Table

Reset to Default

You can also reset the Orbit to factory default with the Orbit APP.

Enter the Orbit Firmware Update Mode

Specifications

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Model	AOT001
Product Weight	5600 g ± 10 g
Product Dimensions	W: 254 mm L: 108 mm H: 394 mm
Rated Voltage	100V-240V
Frequency	50/60Hz
Motor	200W Brushless DC Motor
Material	Aluminum, PC, Stainless Steel
Operating Ambient Temperature	0 - 40c
RPM Profile	600-1500 Adjustable RPM Profile
Duty Cycle	Recommended duty cycle for Orbit is 60s running time with a rest time of 30s
Connectivity	Bluetooth 5.0
Warranty	1 Year
Inside the Package	Acaia Orbit Coffee Grinder - Eclipse x 1 Power Cable x 1 Spout Extender x 1 58 mm Portafilter Dosing Cup (M) x 1 Dosing Cup Magnetic Pad x 1 Hex Wrench x 1 Lunar Magnetic Strip x 2 Lunar Magnetic Strips Application Tool x 1 Thumb Screw x 2 Burr Carrier Screw x 6

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