

varía[®]

BREW DIFFERENT



EVVO

HYBRID GRINDER USER MANUAL

variabrewing.com

Introduction

Introducing the Varia EVO Hybrid Grinder, the world's first true hybrid hand grinder that revolutionizes traditional grinding methods.

Our groundbreaking approach combines the power of USB-C technology with the reliability of our hand grinder, resulting in a compact, lightweight, and exceptionally powerful device.



1. Safety & Precautions

DO NOT rotate or try to move the middle band on the grinder body (with the adjustment markings) - this will cause serious damage to your grinder.

DOING so will void your Varia EVO Hybrid Grinder Limited Warranty.

- Always use a charger that is compatible with your device and the USB-C port. Using an incorrect charger may damage your device or pose safety risks.
- Ensure that the USB-C cable you are using is in good condition, without frayed wires or visible damage. A damaged cable can cause charging issues or even pose a fire hazard.
- Keep your device and charging equipment away from water and moisture to prevent electrical shorts or damage to the battery.
- Do not expose your device to extreme temperatures, both high and low, during charging. Charging in extreme conditions can negatively impact battery life and safety.
- Allow for proper ventilation during charging. Avoid covering the device or charger with items that could trap heat.
- Do not leave your device unattended while it is charging, especially overnight or for extended periods. Regularly check the charging progress.
- Follow the manufacturer's instructions and recommendations for charging your specific device. They often provide guidance on optimal charging practices.
- Whenever possible, use the charger that came with your device or a charger recommended by the manufacturer.
- Place your device on a stable and flat surface while charging to prevent accidental falls or damage.
- Insert the USB-C cable securely into both the device's port and the charger's port to ensure a stable connection.
- Keep an eye on your device while it's charging. Check for any signs of overheating, unusual noises, or other abnormalities. If you notice anything unusual, stop charging immediately.
- Once your device reaches a full charge, unplug it promptly. Overcharging can degrade the battery's lifespan.
- Charge your device in an area where it can safely dissipate heat and away from flammable materials.
- Unplug the charger from the power source when it's not in use to prevent energy consumption and reduce the risk of electrical issues.
- To maintain battery health, avoid frequently draining the battery to very low levels. It's generally recommended to keep the battery level between 20% and 80% for optimal longevity.
- If you're in extremely hot or cold environments, consider turning off your device while charging to minimize temperature-related stress on the battery.

- If you notice any damage to the charging cable, charger, or your device's USB-C port, replace the affected components promptly to avoid potential hazards.
- Please be aware that the machine will automatically stop when it detects idle operation.
- After grinding, the machine will stop automatically following approximately 10 seconds of idle time or 10 seconds after starting with no coffee inside.
- In the event of extended operation, the machine will shut off power if the thermal protector detects overheating.
- Refrain from shaking or striking the machine while it is in operation to prevent damage to the motor.
- Do not touch the burr set or moving parts with your fingers while operational to prevent potential injury. Be careful not to allow loose clothing or hair near the burr housing or motor head.
- During the grinding process, avoid separating the body and the grounds canister to prevent scattering of the ground coffee.
- The grounds canister has a maximum capacity of 30-35 grams. Please refrain from continuing to grind once the grounds canister is full.
- This product is not recommended for washing with water. Please use a brush to clean the body on a daily basis. It is strictly prohibited to immerse the body in water.
- Do not attempt to disassemble or repair the motor head on your own. In the event of power cord damage, it must be replaced by a qualified professional to avoid hazards.
- This product utilizes a Type-C charging interface. Please use a 5V / 1A charger that is compatible with this interface.
- Keep this product out of the reach of children. Children should always be supervised to ensure they do not interact with the machine.
- Store this product in a dry and shaded environment to maintain its condition.
- Also be careful when gripping the body of the grinder while wearing jewellery as they may cause scratches to the surface.
- This device is designed for use in various settings, including homes, offices, farmhouses, hotels, motels, bed and breakfast establishments, residential or working environments and outdoor settings.
- Please adhere to the instructions provided in this manual when using the product to prevent misuse and potential harm to users.



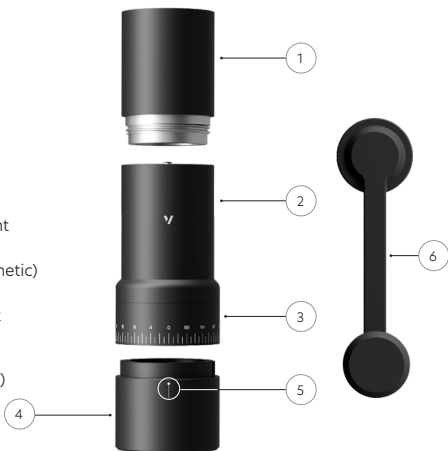
DO NOT under any circumstances attempt to ROTATE or DISASSEMBLE the lower burr housing collar by unscrewing from the body - DOING so will void your Varia EVO Hybrid Grinder product warranty.



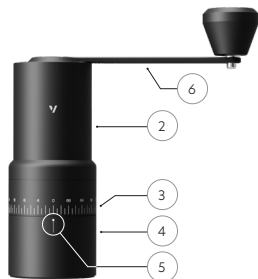
2. Product overview

2.1: EVO HYBRID

- ① Motor head
- ② Grinder body
- ③ Grind adjustment scale
- ④ Grounds canister
- ⑤ Grind adjustment set point
- ⑥ Hand crank handle (magnetic)
- ⑦ USB Type C charging port
- ⑧ Light indicator (refer to instructions pg.11)
- ⑨ Power button



2.2: EVO HAND GRINDER



2.3: MOTOR TOPSIDE



3. Charging and use of motor (Warnings)

To charge the motor battery, please connect the USB-C cable to the corresponding ports on both the product and the wall adapter or USB socket.

Please ensure to use a certified USB charger or a USB wall adapter with a maximum recommended output of 5V / 1A.



Please do not connect this motor to an adapter with a power output exceeding 5V / 1A. The product warranty will be void if the battery or circuitry is damaged due to this misuse.

4. Operating Instructions

4.1 Connecting the motor head

The EVO Motor head uses a reverse thread to connect, in order to attach and secure the motor to the body, please gently align the threads and start gently screwing the motor head in an **anti-clockwise direction**. (If you feel the threads are very hard to screw, stop, and start again - do not force the threads or you will cross thread the threads and potentially damage your EVO.

Once the threads are smoothly turning, ensure to tighten to the end of the thread (anti-clockwise) and do not over tighten, just until the thread stops.

To remove the motor head, screw the motor head in a clockwise direction to loosen the thread and continue until you feel the thread release.

DO NOT grind for more than 140 seconds in a single grinding cycle, ensure a minimum of 90 seconds rest between two grinding cycles.

DO NOT operate for more than 6 minutes within a 30 minute period.



4.2 How to start and stop the motor

To start the motor - ensure that the motor head is connected to the EVO Hybrid Grinder body and press the power button once to start. To stop the motor, press the button once also.

The motor has an automatic shut-off sensor, after (**10 seconds**) of running without sensing coffee being ground the motor will automatically shut-off to conserve battery power.



4.3 Connecting the hand crank handle

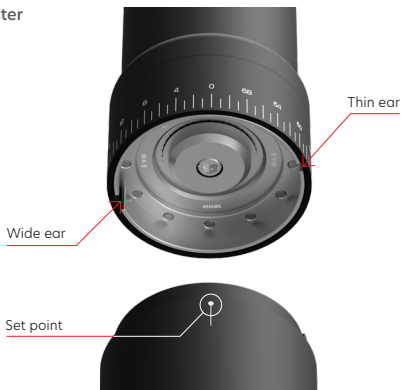
To connect the hand crank, simply place the handle with the corresponding hex (female) chuck onto the top of the EVO Hybrid Grinder body drive-shaft. The handle will drop down and you should feel/hear a small click as the magnetic interface connect.



4.4 Connecting the grounds canister

There are two locking ears on the canister that correspond to the underside of the grinder body (as pictured).

There is 1 x wide ear and 1 x thin ear, these two ears must correspond in order to connect that canister. The grind adjustment reference (set point) marking is located in line with the (thin) ear - this will be your reference point when setting the particle size.

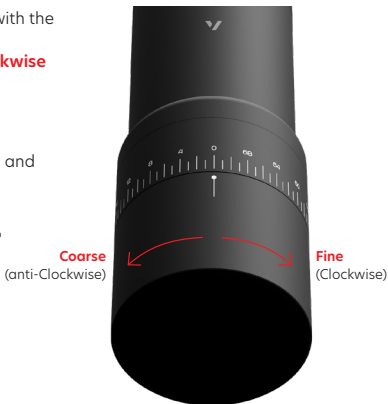


5. Grind Adjustment

The adjustment of the particle size with the Varia EVO Hybrid Grinder is done by moving the grounds canister **clockwise (finer) or anti-clockwise (coarser)**.

When the canister is removed the particle size settings become locked and cannot be changed by accident.

DO NOT grind using a setting less than '4' - this will cause the burrs to touch and wear at a faster rate.



6. Grind Settings Chart



7. Regular cleaning and maintenance

To clean your EVO Hybrid Grinder please use the brush provided to remove any loose particles of coffee grounds on the inside of the body and also on the underside of the grinder body. Also ensure to use the brush provided to clean the grounds canister. You may also use a blower (bellows) to blow the grinder clean of coffee particles.

8. Deep clean & burr change

To disassemble the grinder first remove the canister and then set it to the side.

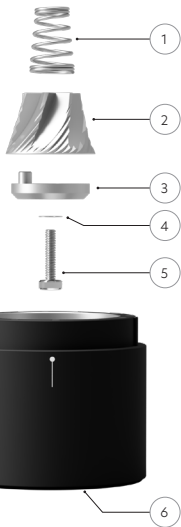
With the hand crank attached and hold this with your hand so that the drive-shaft does not turn, use the Allen key provided to loosen the hex screw on the underside of the grinder body which fixes the inner burr set.

Once loosened, please carefully remove this and be sure to watch out for the small shim (washer) behind the set screw – remove this also.

Next, you can remove the inner burr set and you will find a large spring will drop around the drive-shaft also (please note the orientation of this spring as the larger (wide) end should be at the bottom and the smaller (narrow) end should be at the top).

Now you will see the bottom of the grinder is open except for the drive-shaft and bearings. Using your brush, please brush any coffee particles away and ensure to carefully clean the inner wall of the body from the top side as well.

Clean the canister and base section also and then replace the burr assembly the same way it was removed (as per the diagram).



- | | |
|---------------------|--------------------|
| ① Spring | ④ Washer |
| ② Burr | ⑤ Set screw |
| ③ Burr fixing plate | ⑥ Grounds canister |



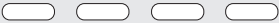
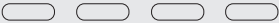
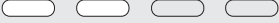
Please be careful with your fingers when you handle the burr edges or assemble/disassemble the burr assembly. The edges of the burr are extremely sharp. You can easily cut and harm yourself if you are not careful.

9. Troubleshooting & FAQ's

Q: My EVO Motor stopped when I was trying to grind and it won't restart - what happened?

A: EVO is programmed with an over torque protection device, the motor will stop if it senses a load on the motor that is potentially harmful to the gearbox and the electrical circuits. If this happens the power button will not function until the circuit breaker resets. To do this, remove the motor unit from the grinder and ensure to plug into the USB-C power supply for 30 seconds.

Light Indicator Instructions:

Status	Action	Display
Motor On	Lights on (also shows power level from 1>4)	
Motor Over Torque Protection	Lights off, unresponsive - (Plug into power if this happens)	
Low Battery	Shows incremental level from 1>4 - Level 2 pictured	
Charging	Flashes from 1-4 depending on battery charge level	

Motor Auto STOP Feature

The Hybrid EVO Motor comes with the Auto-STOP feature enabled by default.

The motor will **automatically stop after ten (10) seconds** of detecting no coffee beans being ground.

To disable this feature:

- While the motor is running, press and hold the power button for five (5) seconds. The indicator lights will flash twice to confirm the feature is turned off.

To re-enable the Auto-STOP feature:

- While the motor is running, press and hold the power button for five (5) seconds. The indicator lights will not flash, indicating the feature is active again. The motor will then stop automatically after 10 seconds of sensing no grinding activity.

10. Features, Specifications and Certifications

FEATURES:

- 38mm stainless steel Hypernova burr set
- 42+/-6RPM brushed motor
- 7.4V 1600mAh Li-Ion battery cell
- Auto stop function + over torque protection
- Hand crank handle with magnet connection
- 144 steps of adjustment - each step 10 microns
- 45W power output
- 25-30g capacity

SPECIFICATIONS:

Materials: Space grade aluminium alloy, stainless steel, silicone

Weight:

- EVO Hybrid - 1.24kg
- EVO Hand Grinder - 1kg

Dimensions:

- EVO Hybrid - Height: 218.7mm, Diameter (max): 64mm
- EVO Hand Grinder - Height: 195mm, Diameter (max): 64mm, Crank length: 174mm

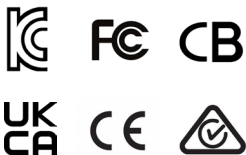
Package includes:

- 1 x Varia EVO Hybrid Grinder + Hand Crank
- 1 x Shockproof EVA Carry Case
- 1 x Cleaning Brush

Power supply:

Recommended USB adapter specification: 5V / 1A

CERTIFICATIONS:



Limited Warranty:

For 12 months after the original date of consumer purchase, Varia Brewing Limited warrants this product against any defects caused by defective material or workmanship.

Only the original user is covered by this warranty when a EVO Hybrid Grinder is purchased from an authorized reseller, and when is fitted with the factory standard parts.

To make a warranty claim, you will need the original sales receipt as proof of purchase.

This warranty does not cover damage to the product caused by the following:

- An accident, misuse, neglect or 'Act of God'.
- Using the incorrect form of current or voltage for charging.
- Using a non specified adapter or non complying USB-C plug.
- Improper maintenance or unauthorised repairs.
- Failure to adhere to all of the precautions in use outlined in this document's operating instructions.

ONLY authorised service agents are permitted to repair Varia EVO. Unauthorised repairs will void the manufacturers warranty. In the event that repairs are necessary please contact your point of sale representative.

Varia Brewing Limited will not be responsible for any material damage or personal injury resulting from failure to adhere to the EVO Hybrid Grinder Safety Operating Instructions detailed in this manual.

Please direct all warranty claims and enquiries to:
support@variabrewing.com

www.variabrewing.com

