

Meticulous Espresso — User Manual

Draft • Sep 2025

Draft Version History

REV	CHANGELOG	ISSUE DATE
1	First draft	2025.06.09
2	Support email added, explicit grounded cable notes, international voltage spec updated. Added Warnings: warning for use by children and persons with reduced capacities, warnings of potential injuries by misuse, cleaning and immersion, residual heat, household use disclaimer, spillages warnings, etc. Added a warning against switching mains voltage while the machine is on.	2025.06.19
3	Added: + Product model/rating, Frequency draft info on Specifications + FFC Compliance + ISED Compliance + RF Exposure Compliance + Disposal Information Fixed Rated Input voltage and power.	2025.09.01
4	+ Added Meticulous Home info as Manufacturer in Compliance Info section. + Added frequency range provided after testing.	2025.09.03
5	• Fixed RF Frequency Range specs, • waiting for Max Output Power • Removed max water temp • Unified Model Number	2025.09.16
6	• Final product weight • Added BT and WiFi versions • Max Output Power still pending	2025.09.26
7	Added Max Output Power for BT, BLE, 2.4G and 5G WiFi	2025.10.14
8	Remove 802.11ax from specifications section	2025.12.4

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Overview

Meticulous Espresso is a robotic lever machine that marries the flavour nuance of a vintage manual-lever with the repeatability of modern sensors and closed-loop control.

The machine works by movement of a robotic piston that pressurizes water previously heated on its brewing chamber through the coffee grounds, while controlling parameters such as water flow, pressure curves and output weight thanks to the high-precision sensors located inside the unit.

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Safety & Warnings (Read first!)

- Place the machine on a level, dry surface away from children.
- Use only the original 3-wire (grounded) power cord supplied with the machine.
- Connect the power cord to a 3-pin, earthed outlet; never remove or bypass the grounding pin, and do not use 2-pin adapters.
- Do not switch mains voltage while the machine is on. Turn the machine off and unplug it before moving from a 100 V outlet to a 240 V outlet (or vice-versa).
- Hot surfaces – parts around the heating chamber (heated funnel, piston tube, chamber lid, group-head area and portafilter) become extremely hot during operation. Do not touch these parts while the machine is on. Grip the portafilter only by its handle and lock it firmly before brewing.
- Keep face and hands away from the heating chamber area for the entire brew cycle; hot liquid may splash when pressure releases.
- The heating element and surrounding metal surfaces remain hot after use; allow the machine to cool before cleaning or storing.
- Do not open the filling aperture (heating-chamber lid) during brewing.
- Avoid spilling liquid on the power inlet, precision-scale jack, or rear accessory jacks; keep all connectors dry.
- Do not start heating for brewing without water in the heating chamber.
- Ensure the piston path is clear before starting the machine, and never touch the motorised piston once it is moving.
- Do not touch the motorized piston once it starts moving.
- Do not remove the portafilter until the brewing sequence is finished and all pressure has been released from the brewing chamber.
- Disconnect the mains power before cleaning internal parts. Wipe the exterior with a damp cloth only. The appliance must not be immersed in water. Never immerse the machine, scale module or electronics.
- Use filtered water to minimize scale; never add milk or other liquids to the chamber.
- Do not plug—or insert—anything into the precision-scale jack or the rear accessory jacks unless it is an accessory approved for the Meticulous Espresso machine.
- This appliance is for household use only.
- This appliance can be used by children aged 8 years and above and by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, only if they are supervised or instructed in safe use and understand the hazards. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children without supervision.
- Misuse of pressurised hot water can cause burns or other injury; operate the machine only as described in this manual.
- Clean all food-contact surfaces (heating chamber, funnel, portafilter and drip-tray) with warm soapy water, rinse thoroughly and dry after each use.

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Specifications

Product name	Meticulous Espresso
Model	E01G
Accessories included	Portafilter set, AC power cord, Acaia Precision scale
Electrical rating	100 – 240 V~ 50/60 Hz
Power Consumption	400 – 1000W
Operating temperature	5°C to 35°C
Output	DC 5V 2.5A (USB)
Max Rated Pressure	10.5 bar
Dimensions	24 × 24 × 43.25 cm (W × D × H)
Approx. Product Weight	15.5 kg
Water chamber capacity	150 mL
Scale max weight	2 kg
Bluetooth 5.2 dual-mode (Classic + BLE)	
Frequency Range	BT: 2402–2480 MHz
Max. Output Power	BT: 6.31 dBm, BLE: 8.83 dBm
Wi-Fi (802.11 a/b/g/n/ac), dual band 2.4 & 5 GHz, Wi-Fi 6 compatible	
Frequency Range	Wi-Fi: 2412–2472 MHz; 5180–5240 MHz; 5260–5320 MHz; 5500–5700 MHz; 5745–5825 MHz
Max. Output Power*	Wi-Fi 2.4G: 18.72 dBm; Wi-Fi 5G: 18.06dBm

5150-5350MHz is restricted in indoor used within European Union countries
(AT/BE/BG/CZ/DK/EE/FR/DE/SE/IE/IT/EL/ES/CY/LV/HR/LT/LU/HU/MT/NL/FI/PT/RO/SI/SK/UK(NI))

Compliance Information

Product name: Meticulous Espresso

Model: E01G

Trade Mark: Meticulous.

Manufacturer: Meticulous Home, Inc.

Address: 2093 PHILADELPHIA PIKE #7717, USA

CE and UKCA DECLARATION OF CONFORMITY

1. Hardware version of this product: **REV G**; Software version: **2025-07-19**.

2. Hereby, **Meticulous Home, Inc.** declares that the radio equipment type **E01G** is in compliance with Directive 2014/53/EU & RoHS Directive 2011/65/EU. . The full text of the EU declaration of conformity is available at the following internet address:

<https://meticuloushome.com/pages/eudoc>

3. Hereby, **Meticulous Home, Inc.** declares that the radio equipment type **E01G** is in compliance with UK Radio Equipment Regulations (SI 2017/1206). The full text of the EU declaration of conformity is available at the following internet address:

<https://meticuloushome.com/pages/eudoc>

FCC Compliance 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no particular guarantee that interference will not occur in a particular installation.

If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ISED Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Compliance

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

- i. the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
 - ii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
 - iii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
 - iv. where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated
- i. le dispositif destiné à fonctionner dans la bande 5150-5250 MHz est uniquement destiné à une utilisation à l'intérieur afin de réduire le risque d'interférence nuisible aux systèmes satellites mobiles co-canaux;
 - ii. Les droits de l'homme Pour les dispositifs à antenne (S) amovible (S), le gain maximal d'antenne permis pour les dispositifs dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être tel que l'équipement respecte toujours la limite de l'e.i.r.p.;
 - iii. Les droits de l'homme Pour les dispositifs à antenne (S) amovible (S), le gain maximal

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d'antenne permis pour les dispositifs de la bande 5725-5850 MHz doit être tel que l'équipement respecte toujours les limites de l'e.i.r.p. le cas échéant; Et en plus

iv. le cas échéant, les types d'antenne, les modèles d'antenne et les angles d'inclinaison du pire cas nécessaires pour rester

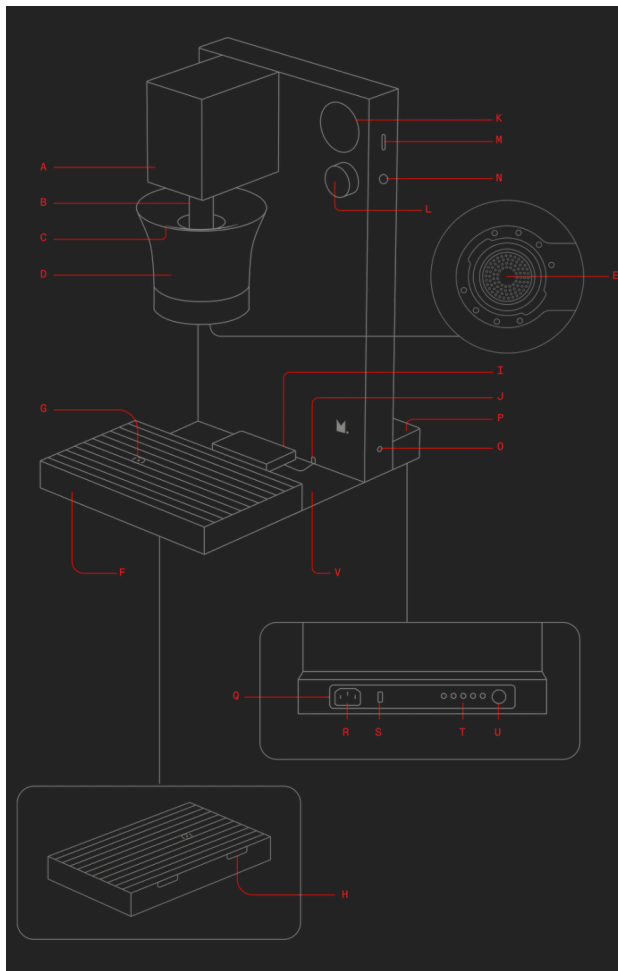
conformes à l'exigence relative au masque d'élévation de l'e.i.r.p. énoncée à la section 6.2.2.3 doivent être clairement indiqués.

Disposal Information

This symbol indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.



Machine Components

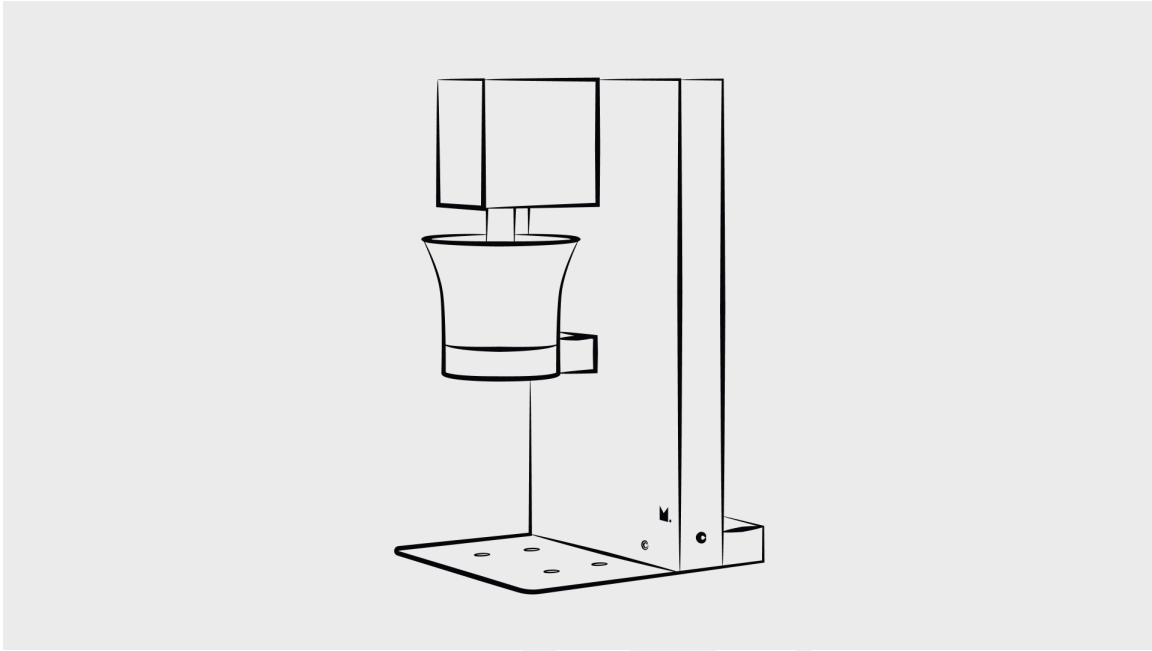


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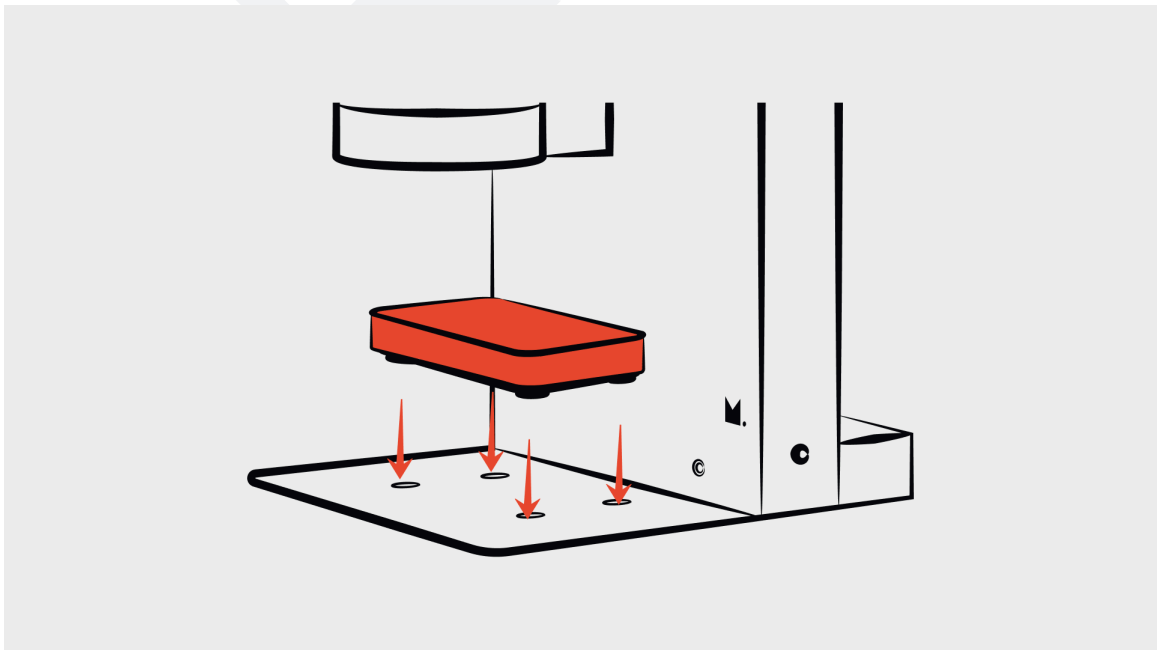
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Initial Setup

1. Place the machine on a flat, stable surface.



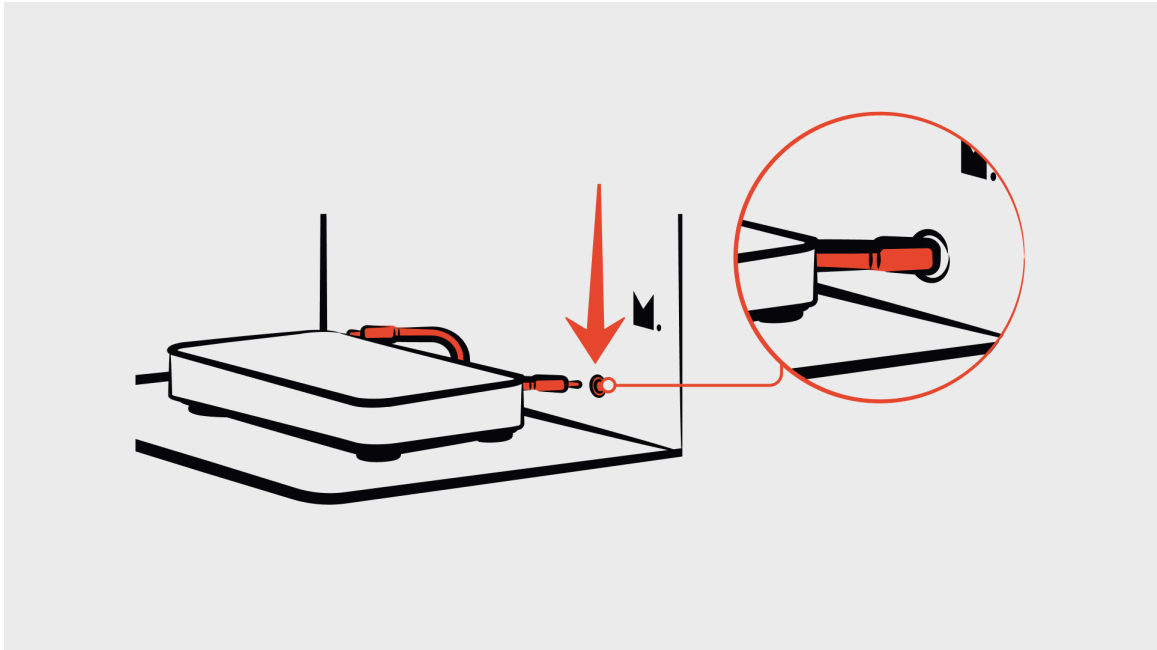
2. Position the Meticulous Precision Scale in its designated slots on the machine's base.



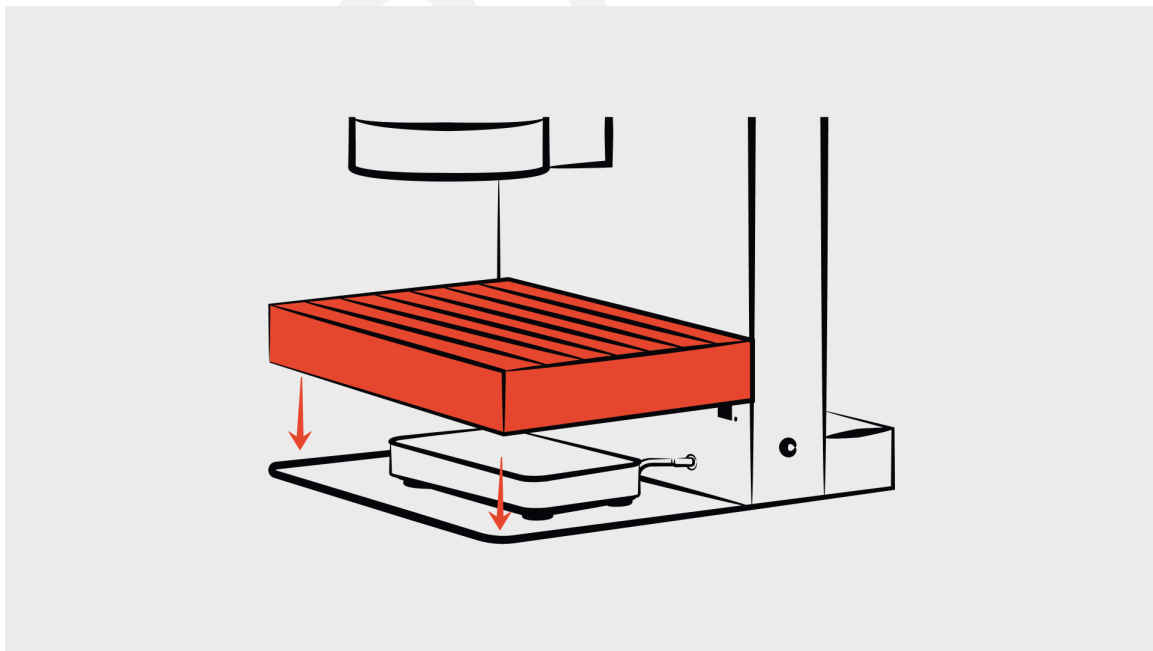
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3. Connect one end of the cable to the scale and the other end to the designated front port of your Meticulous Espresso. Ensure it is fully plugged in.



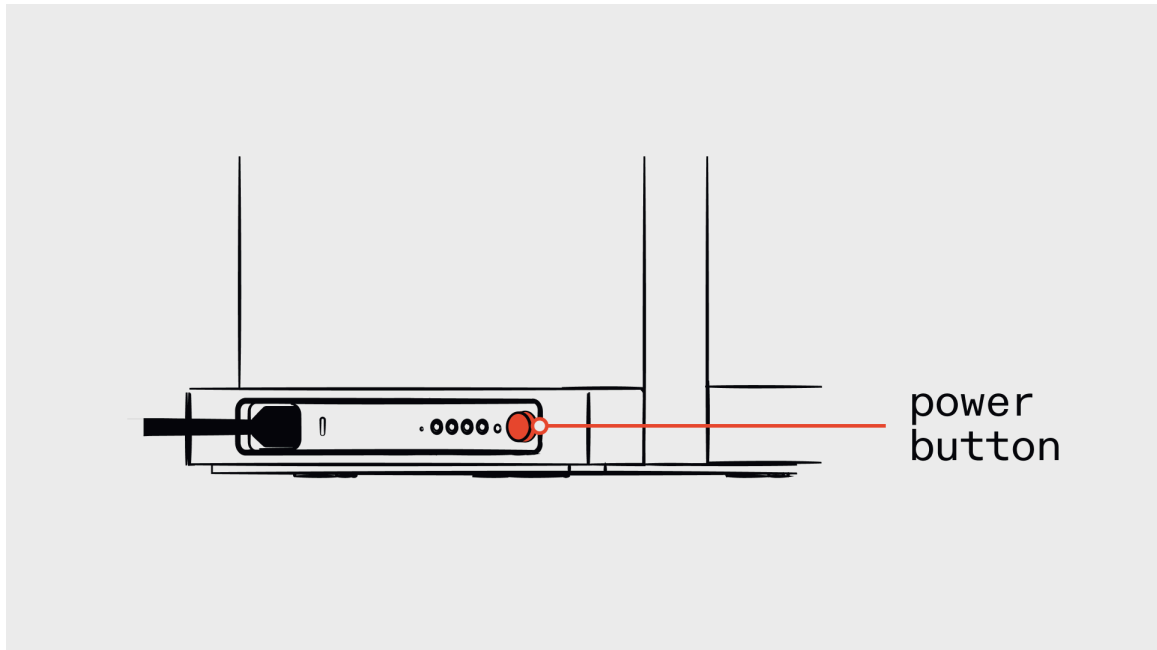
4. Place the Drip Tray on top of the Meticulous Precision Scale.



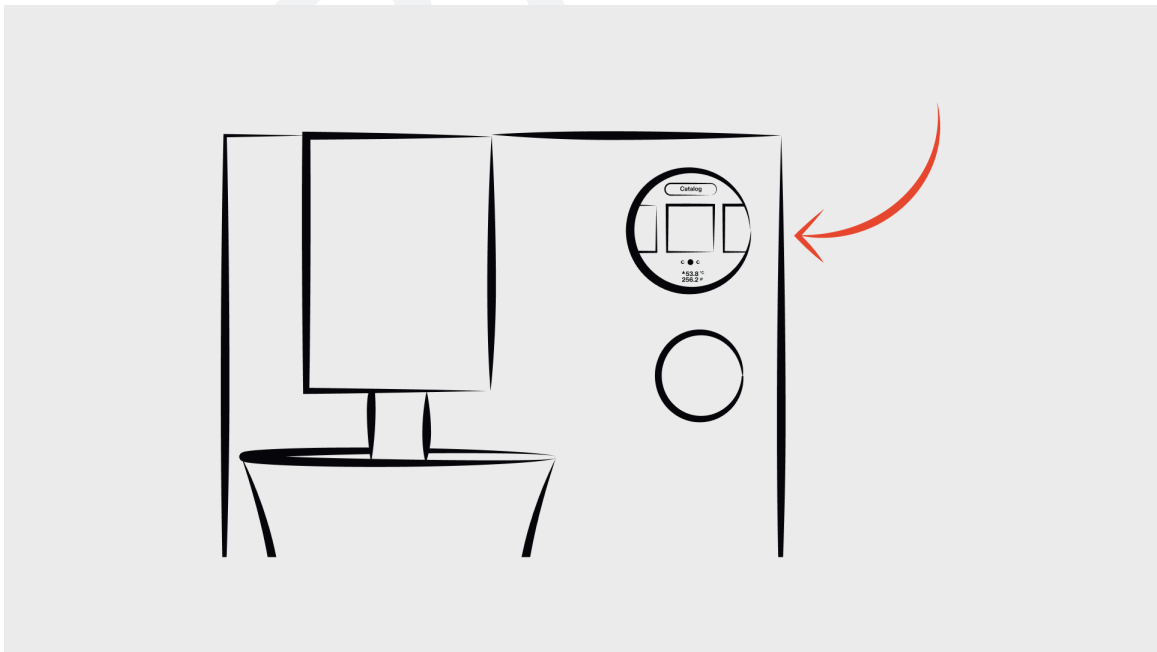
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5. Plug the machine into a grounded power source using the included power cable and press the Power Button on the rear of the machine.

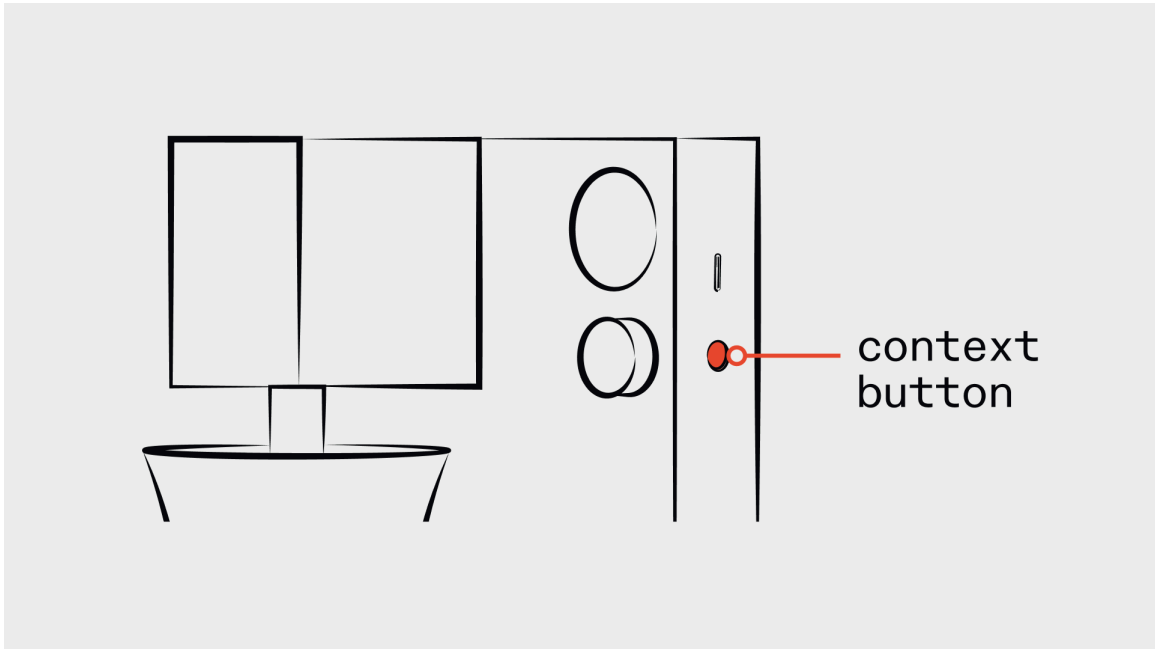


6. Wait for the profile catalog to load on the display.

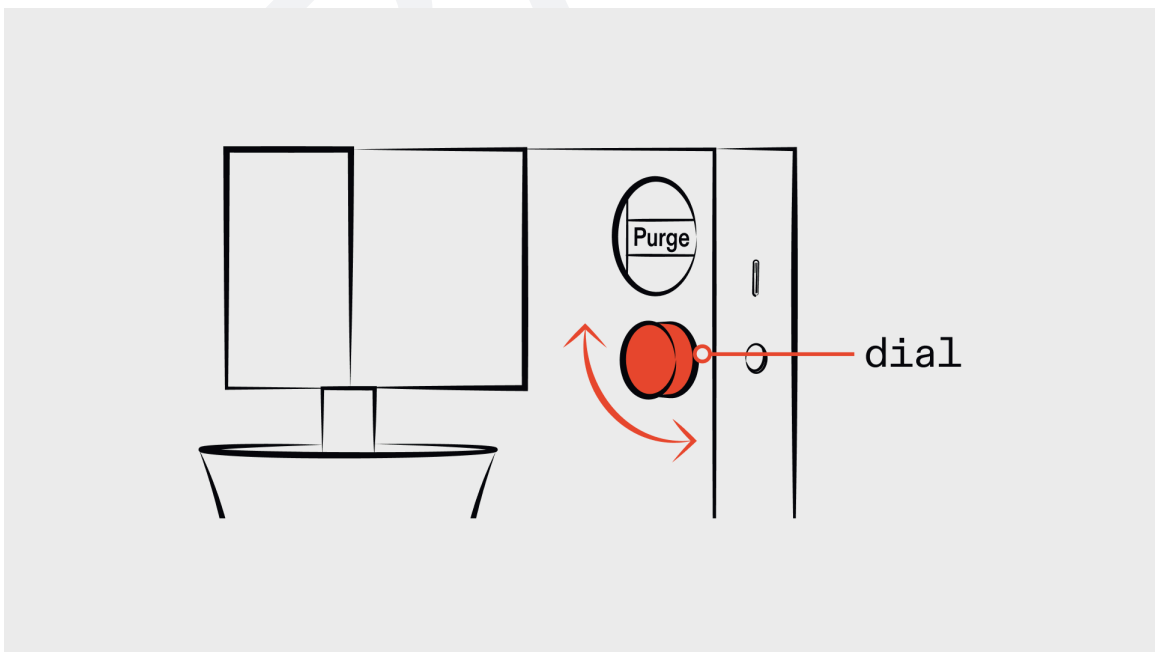


First Steps

1. Press the context button to open the menu.



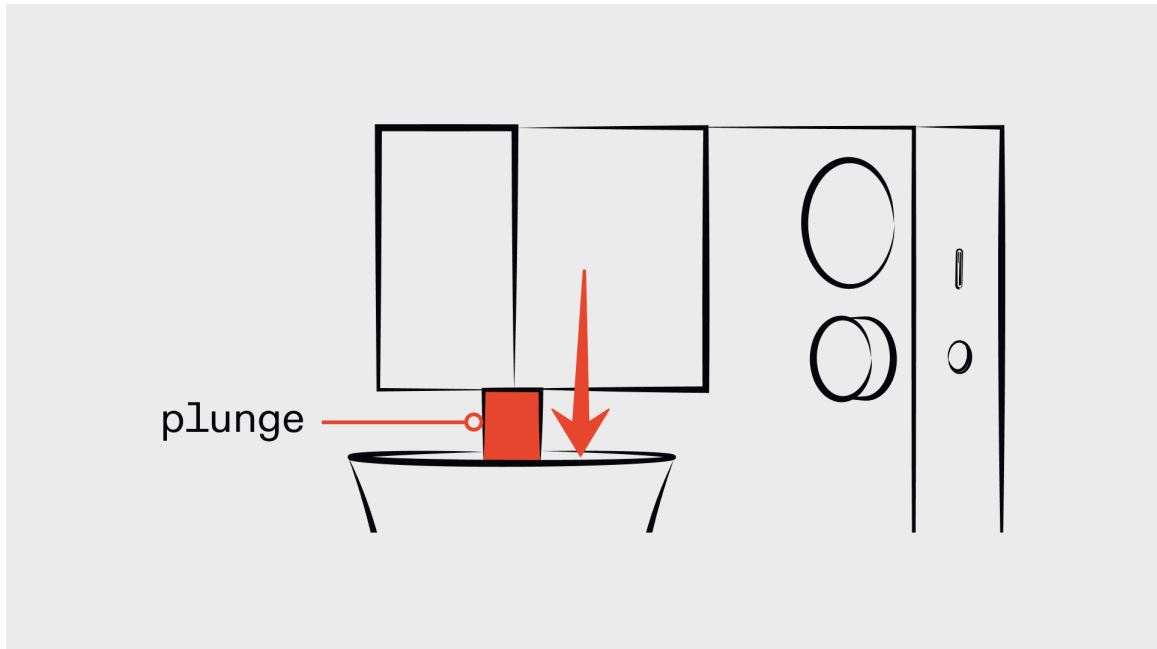
2. Turn the Dial to navigate the menu until 'Purge' appears on the display, then press the Dial once to select it.



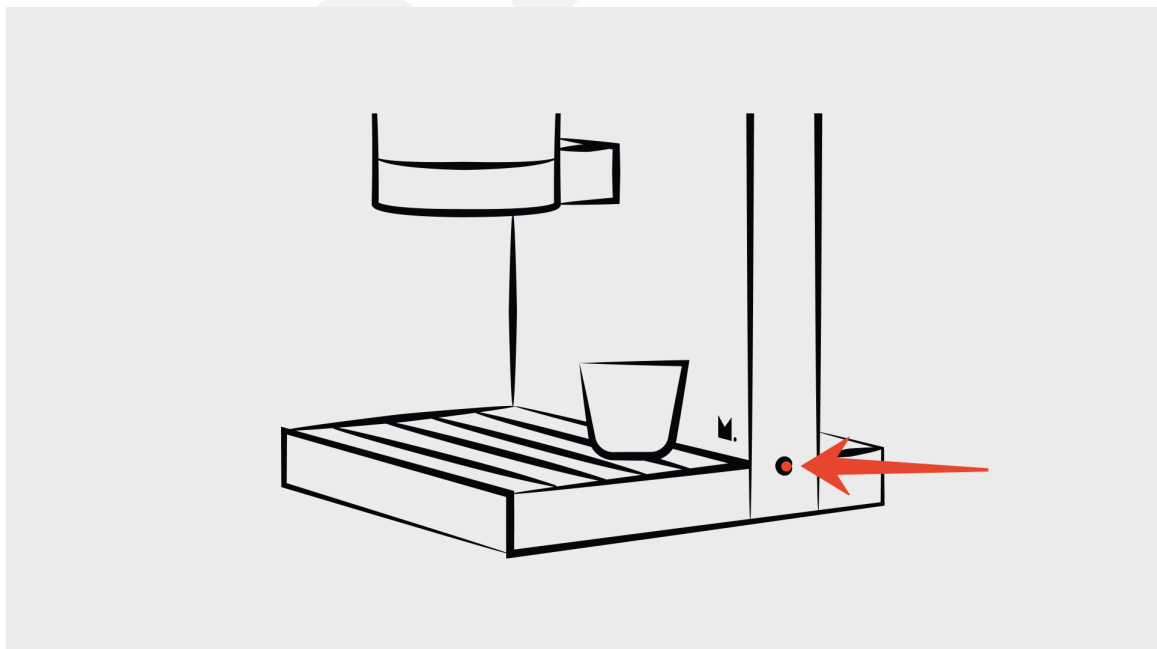
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3. The plunger will descend automatically.



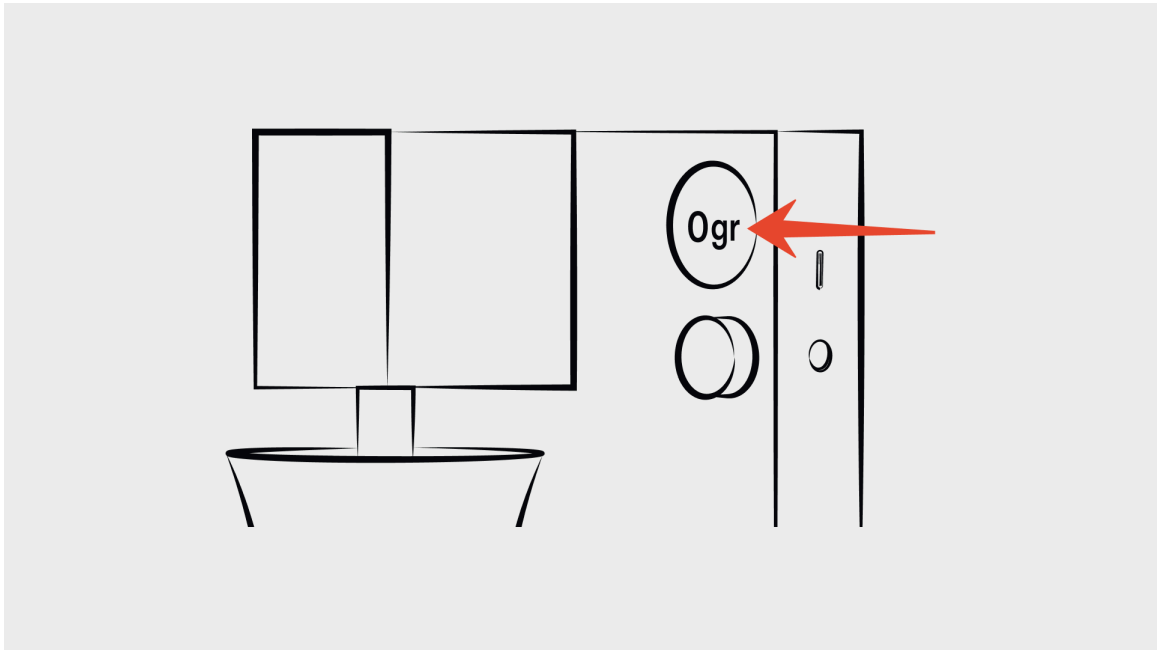
4. Place a cup on the drip tray and double-press the **Tare** button.



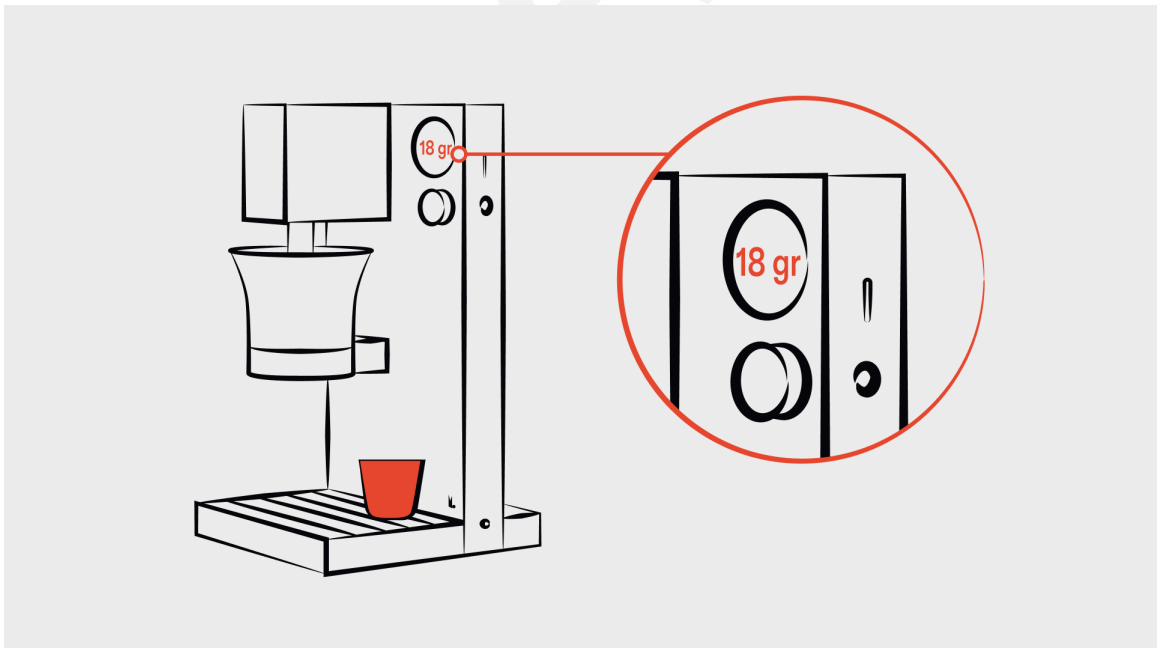
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5. The screen should display “0 g”. If not, press the **Tare** button once.



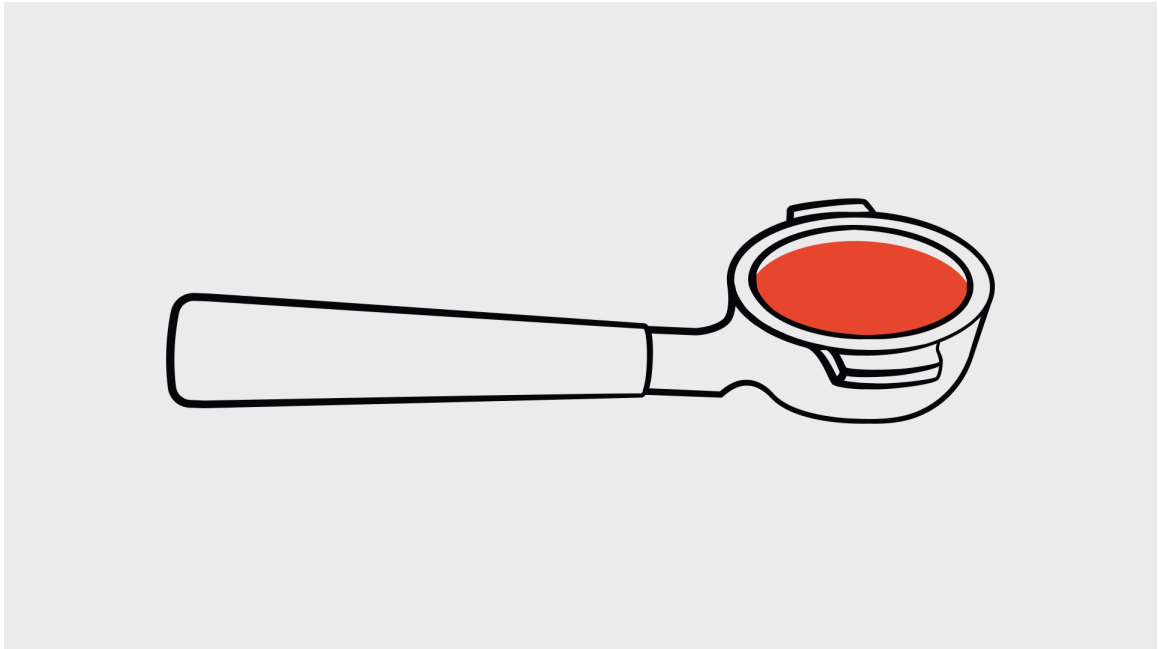
6. Weigh **18 grams** of coffee beans in the cup.



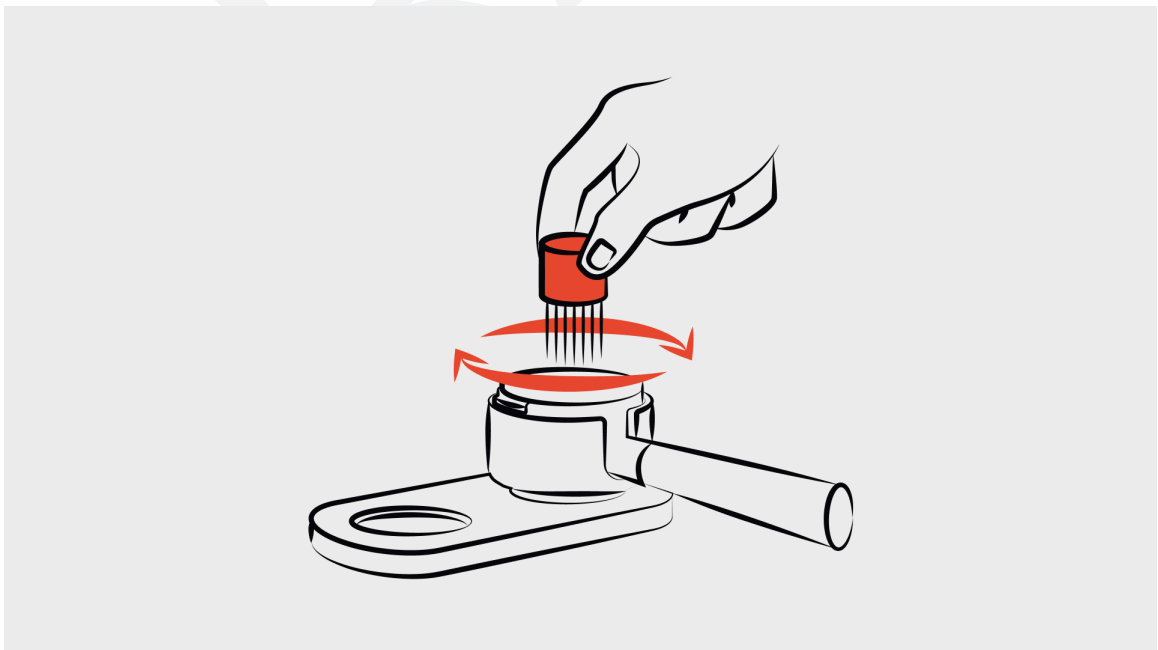
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7. **Double-press** the **Tare** button to exit scale mode.
8. Grind the coffee beans using your preferred grinder and transfer the grounds into the included portafilter.



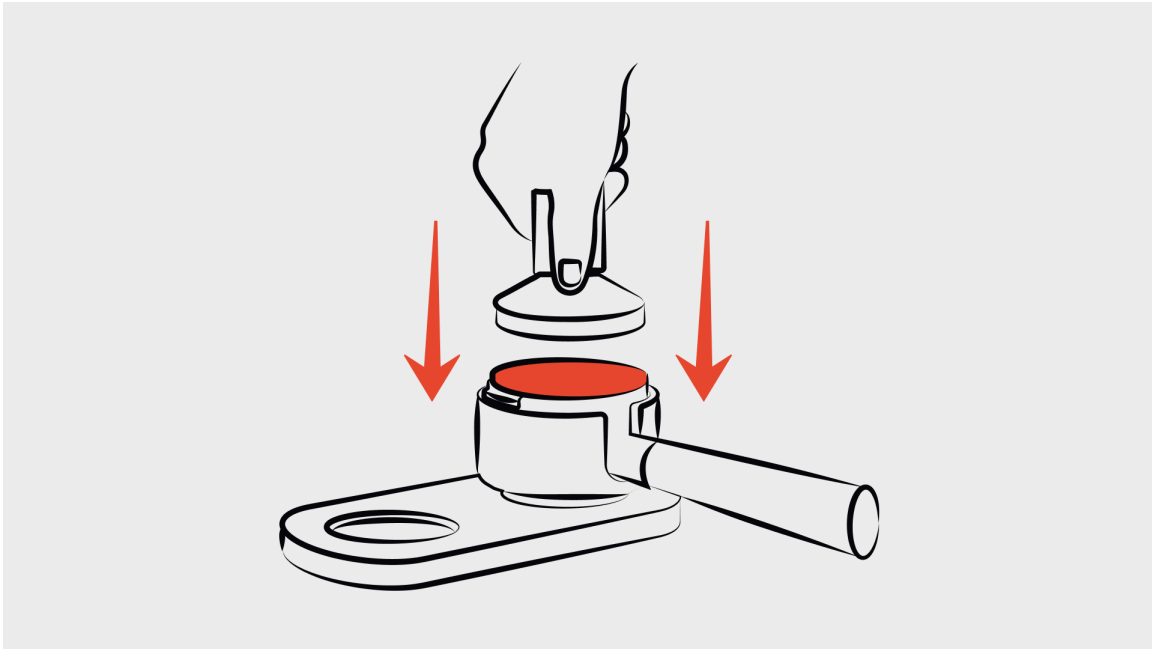
9. If desired, distribute the grounds evenly or prepare the coffee puck using your preferred method.



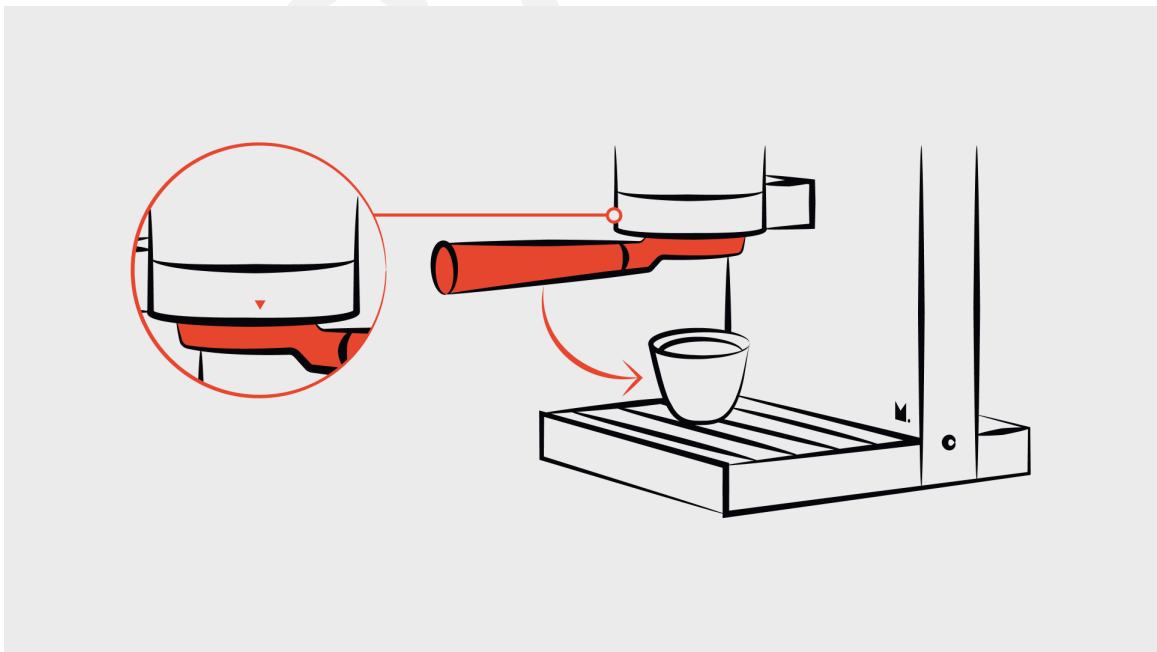
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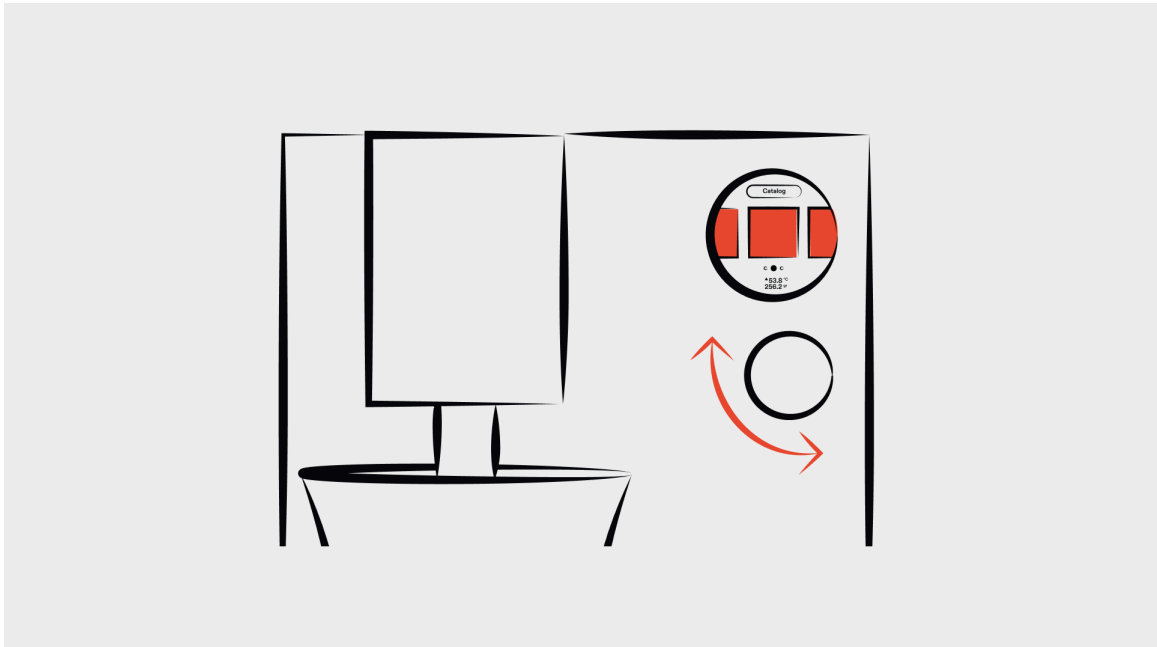
10. Tamp the coffee firmly and evenly.



11. Insert the portafilter into the machine, aligning it with the **triangle mark** on the machine's head. Turn it until it is firmly secured, then place an espresso cup below it.

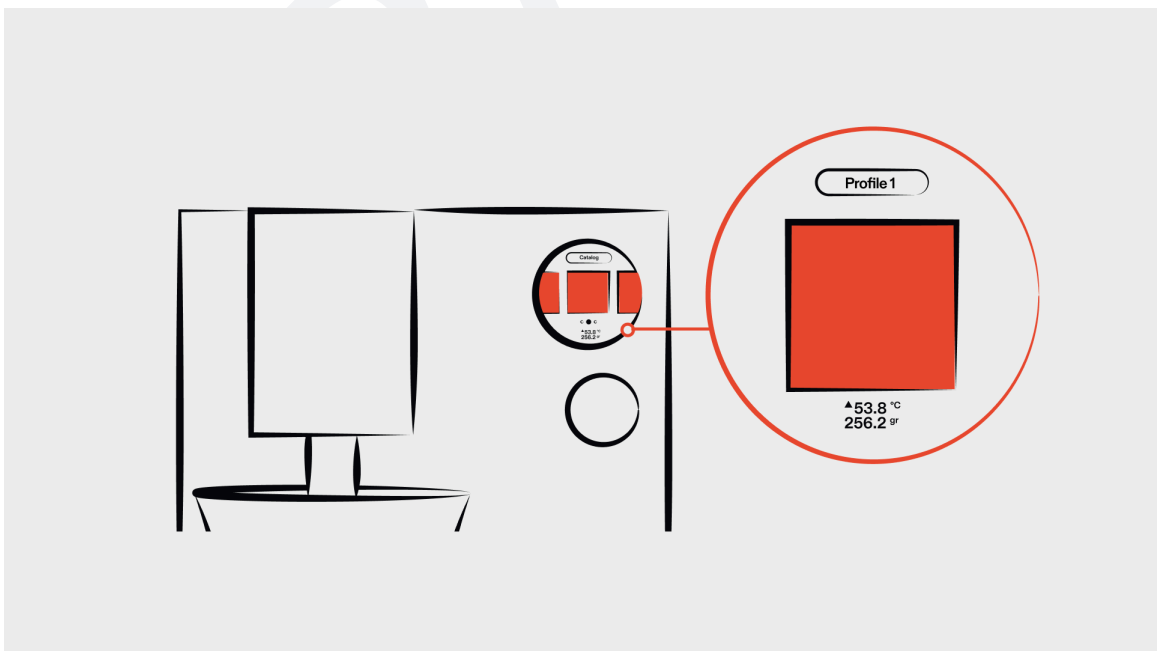


12. Turn the Dial to browse the **profile catalog**.



13. **Select** your preferred profile by pressing the Dial.

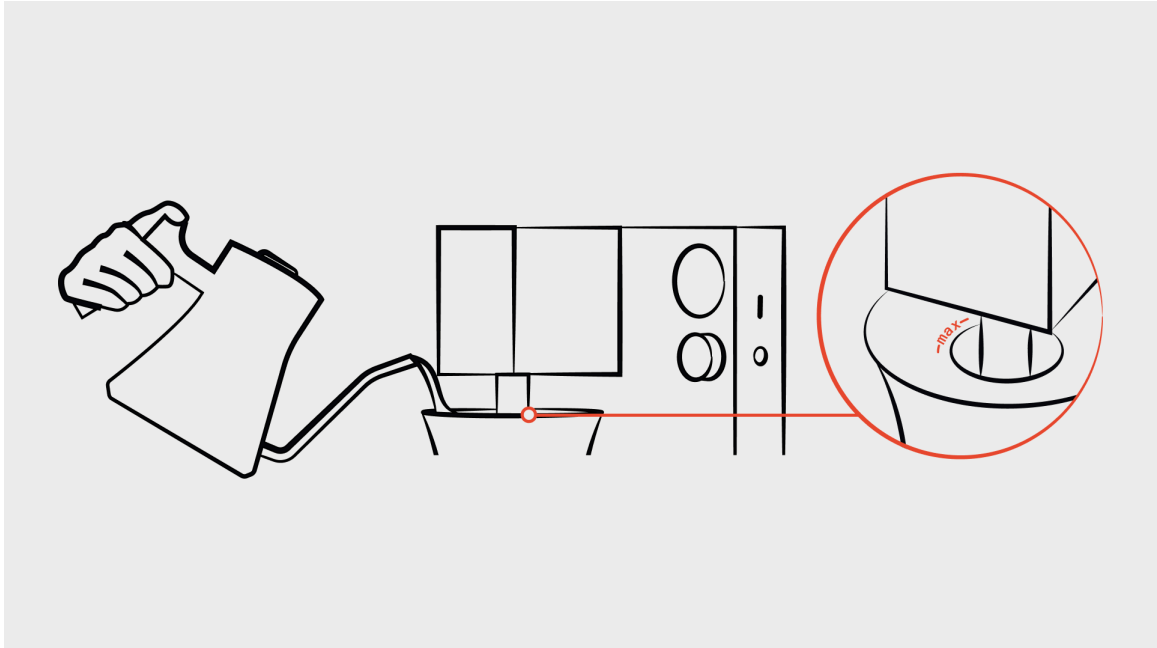
NOTE: If the catalog is empty, you can always create a profile from a preloaded template selecting the “+ new” option at the right-end of this menu.



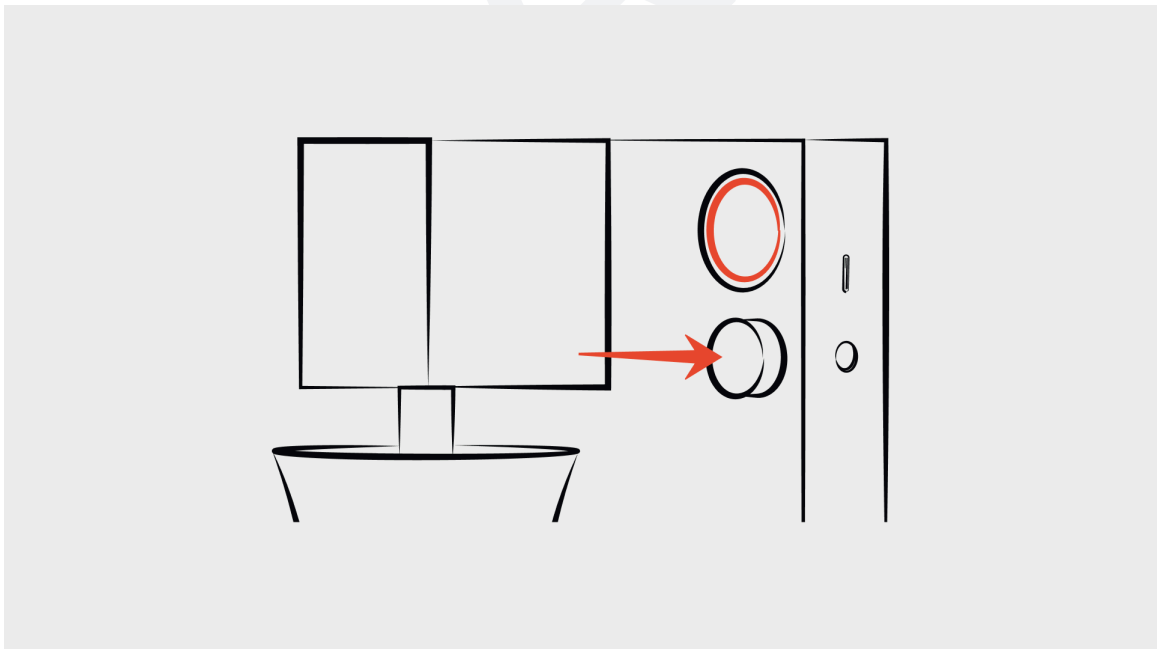
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14. Pour water into the **heating chamber** up to the **-max-** mark.



15. Press and hold the Dial until the loading circle completes.



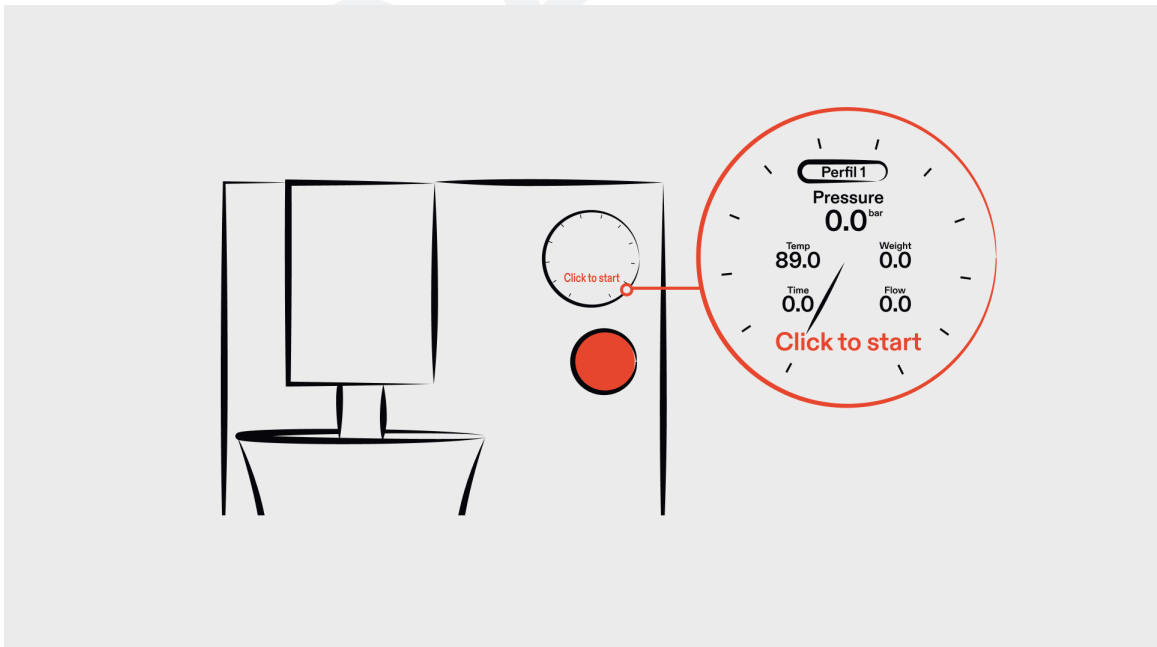
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16. The machine will heat the water—this may take a few minutes.



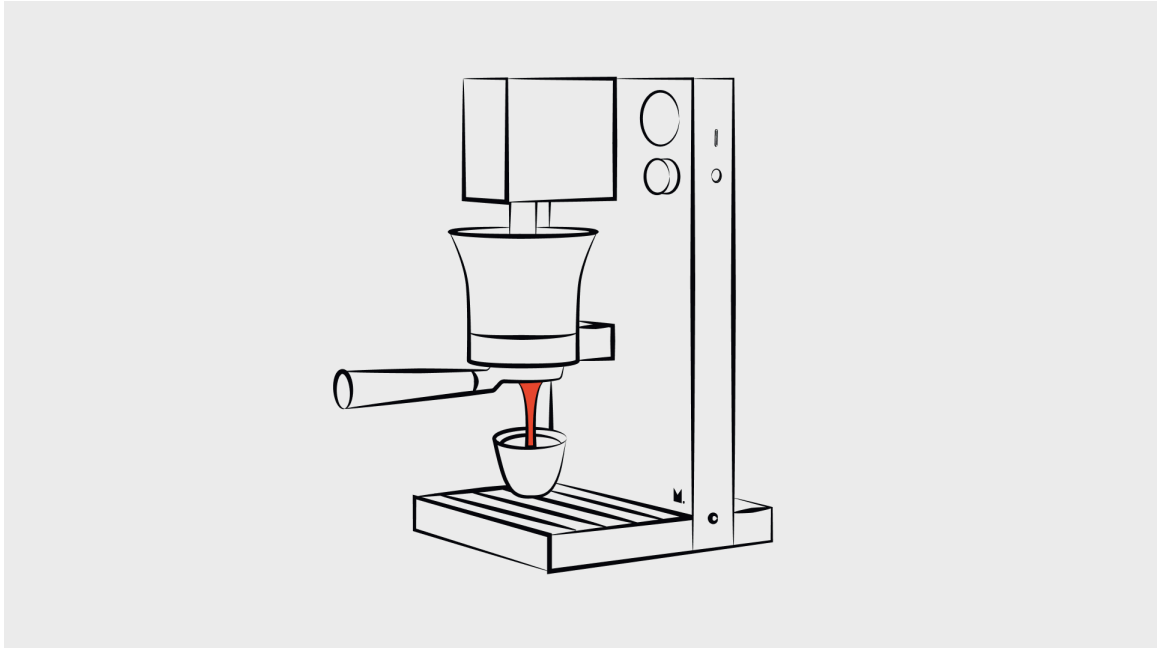
17. When “**Click to start**” or “**Push to Brew**” appears on the screen, press the Dial once. DO NOT touch your cup or the drip tray during the brewing process.



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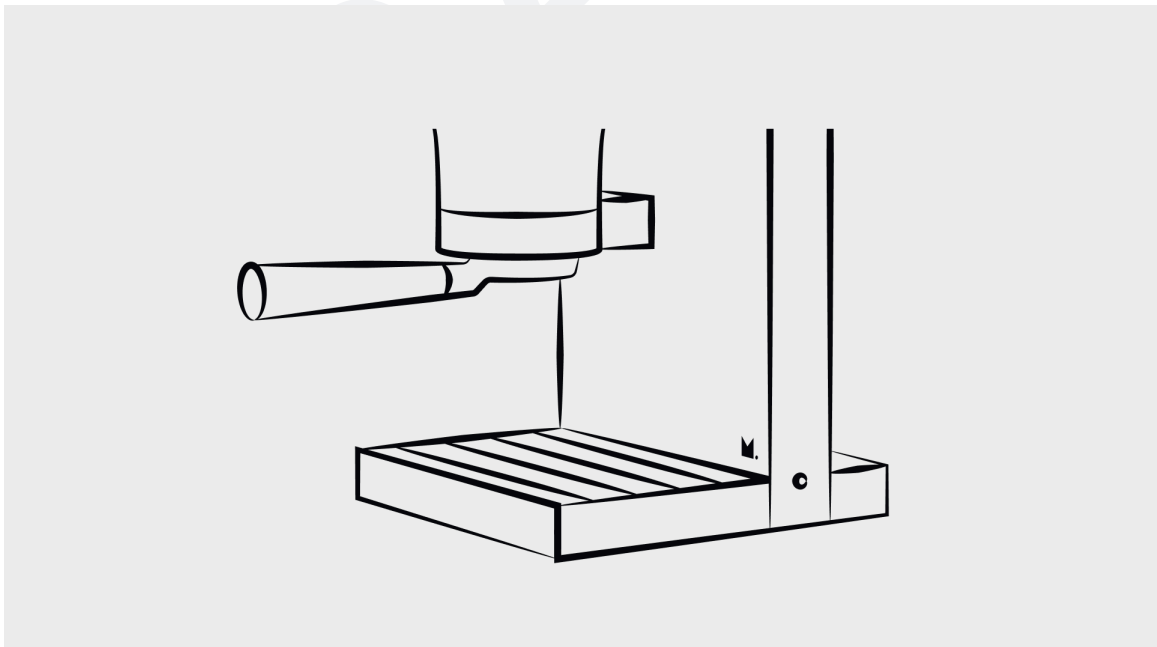
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18. The machine will automatically brew your espresso and stop when it is finished.



19. Remove your cup from the drip tray.

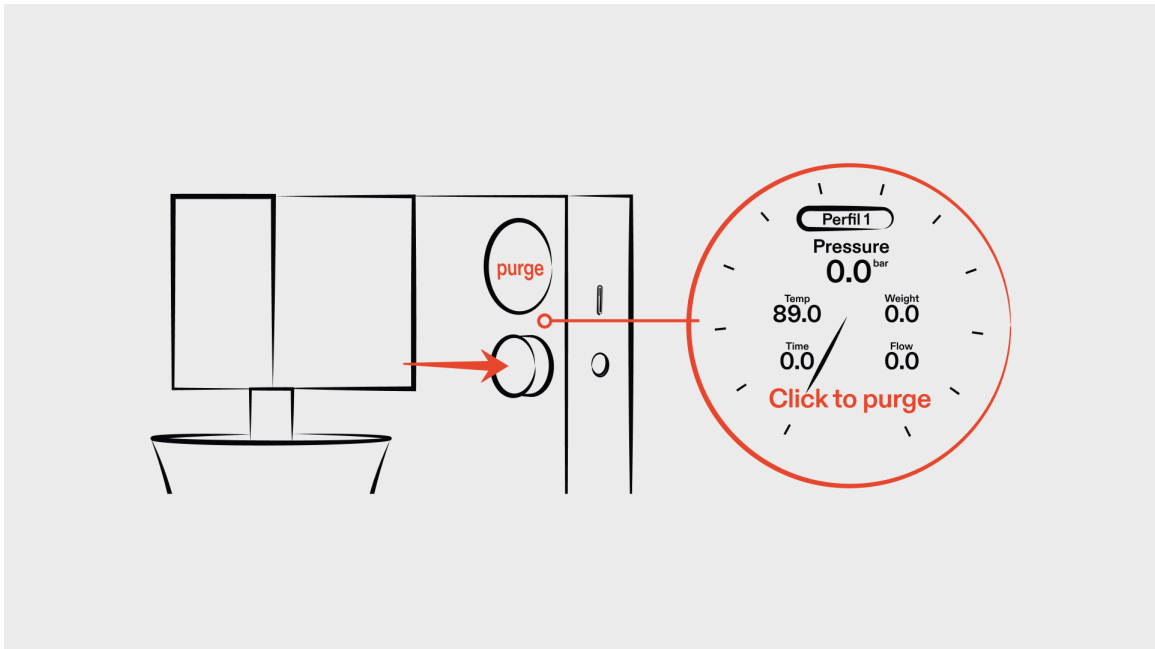
⚠ IMPORTANT! DO NOT remove the portafilter yet—hot water needs to be purged first.



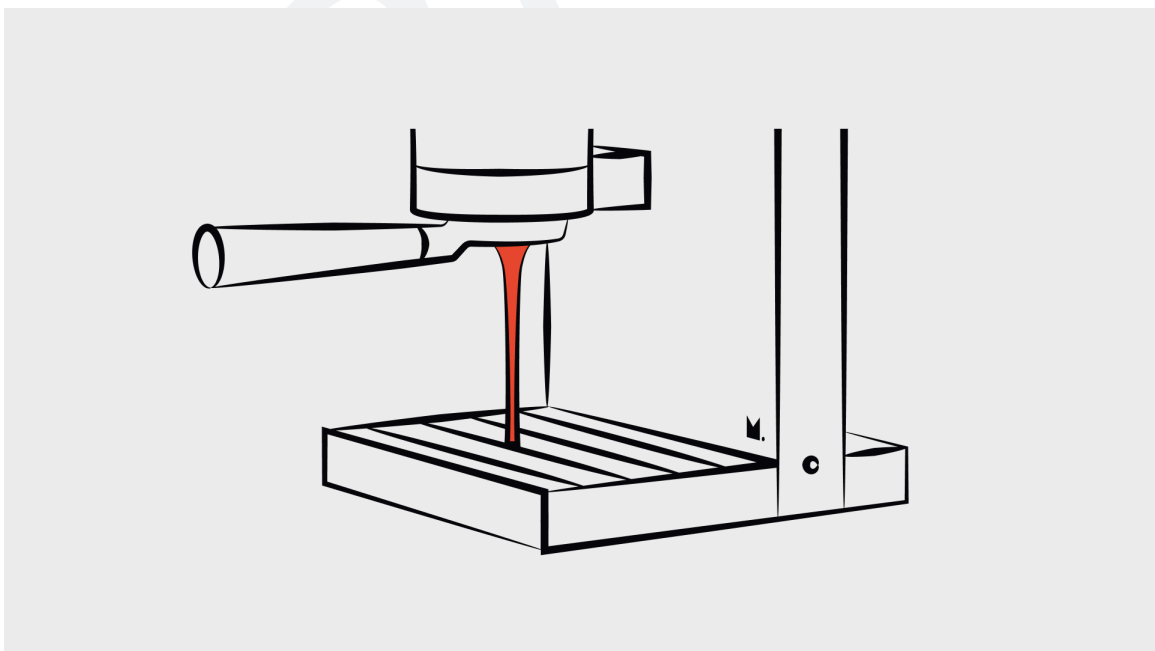
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20. When “Click to purge” or “Push to purge” appears on the screen, press the Dial to start the Purge process.



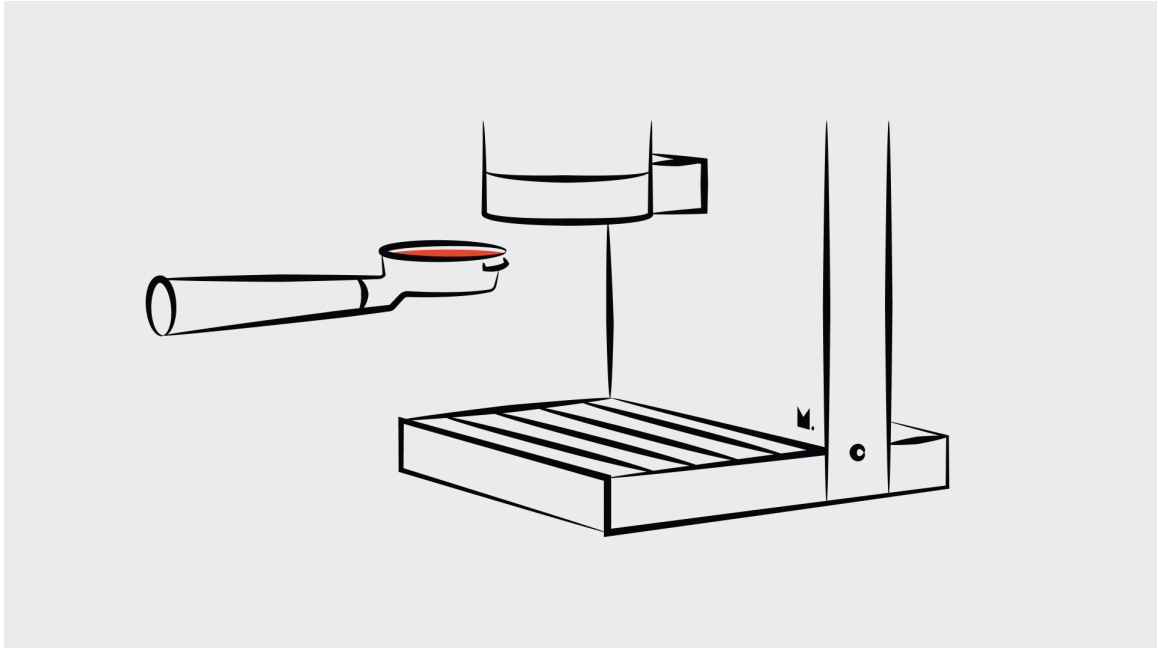
21. The remaining water will be purged through the coffee puck. Wait for the water to completely stop flowing from the portafilter.



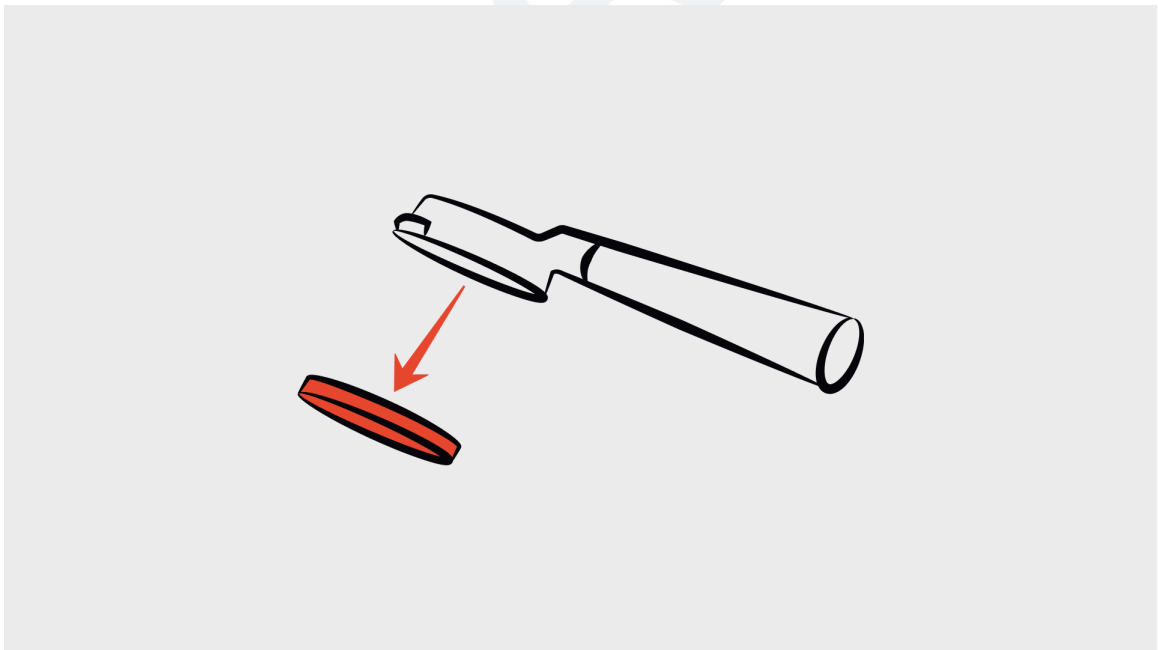
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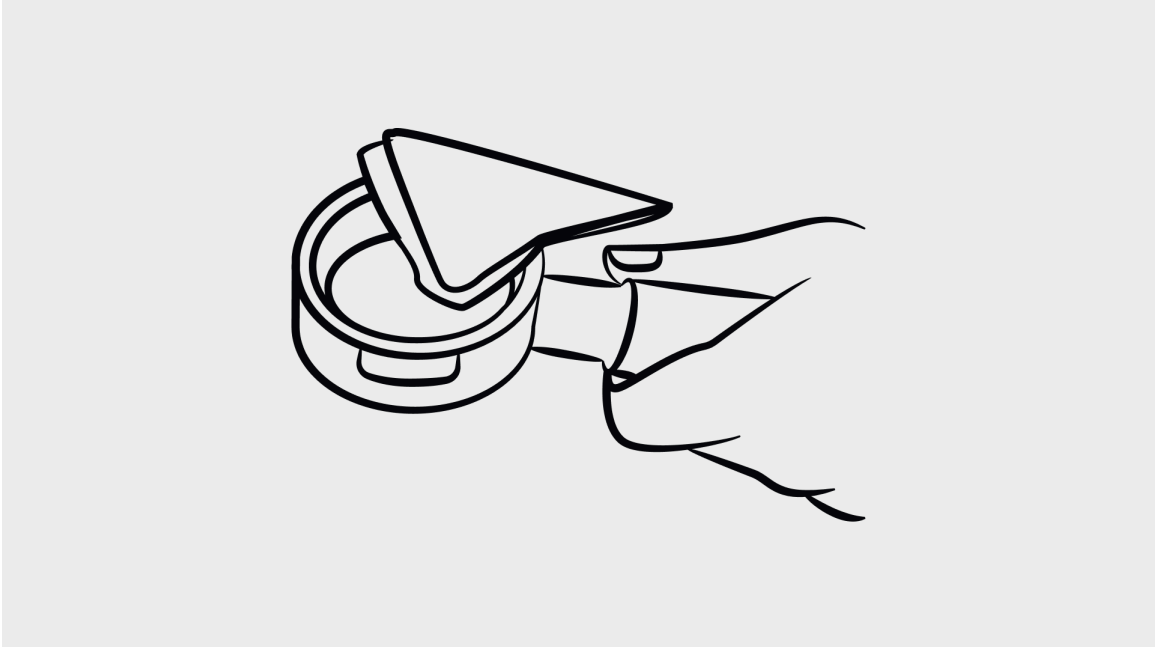
22. Now, remove the portafilter.



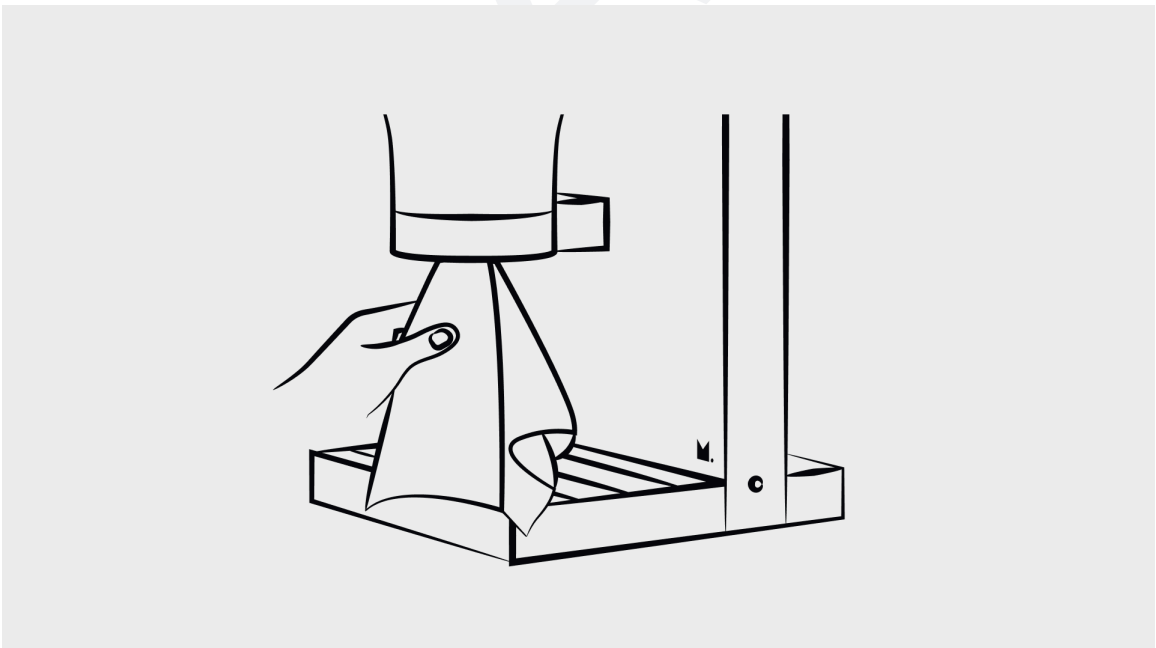
23. Knock out the coffee puck into a knock box or appropriate container.



24. Clean the portafilter thoroughly.



25. Wipe the interior of your Meticulous Espresso with a clean cloth.

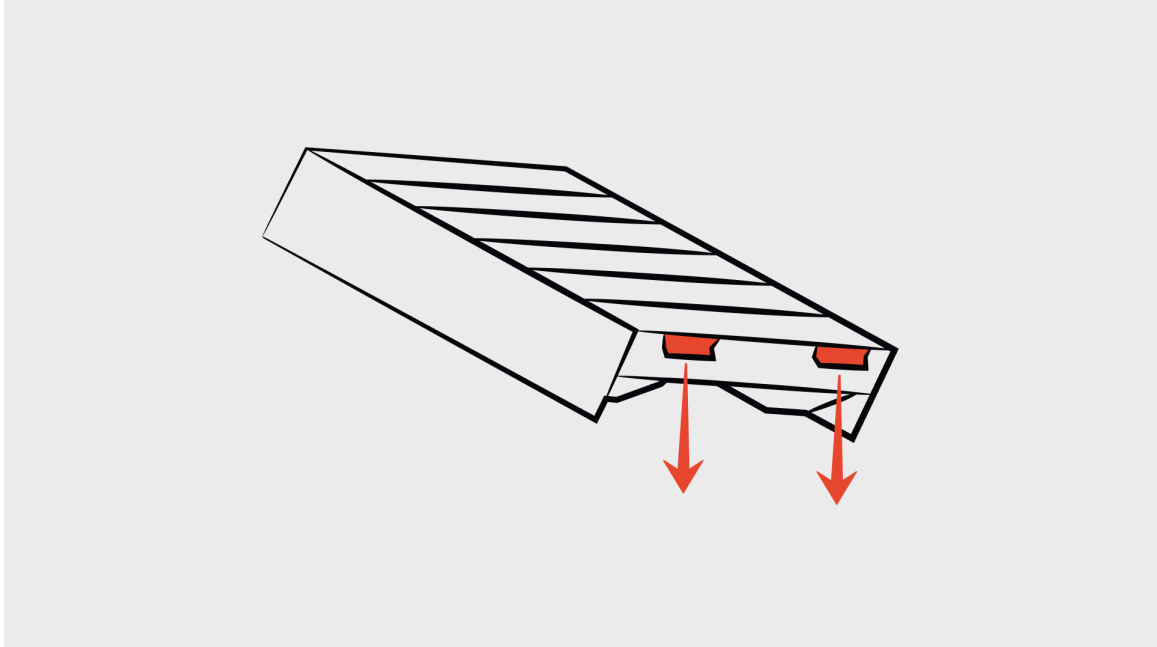


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26. Empty any residual water from the drip tray through the draining channels at the back. Tilt it slightly to assist with drainage. When needed, wash the drip tray by hand.

⚠ NOTE: The drip tray is NOT dishwasher safe.



Tip: Advanced users can connect to the mobile app to create custom curves and see live progress of the graphs produced by every shot.

- For iOS: [App Store Link](#)
- For Android: [Play Store Link](#)

Keep your Brewing Chamber Clean

1. When preparing your puck, always ensure that the upper border of the basket and the portafilter's ears are free from any coffee residues -thoroughly clean if necessary. And, before inserting the portafilter into the machine, wipe the shower screen with a clean cloth.
2. After each coffee purge, clean the shower screen again with your clean cloth.
3. Whenever you see the piston in its uppermost position (Raise/Home), take the opportunity to wipe it down with your clean cloth.

Troubleshooting

Symptom	Likely cause	Fix
Machine won't power on	Loose IEC cable, tripped GFCI, electrical fuse tripped	Check cable; reset outlet. If a power cycle doesn't help, reach customer support to troubleshoot.
Machine won't heat water	Thermal protection triggered, profile set to low temperature	Verify profile temperature. Reach customer support to troubleshoot or start the repair process.
"NO WATER" on screen	Started heating for a brew without water	Add water to MAX line and press the Dial to start heating again
Shot stops early (before end trigger)	Accidental disruption to scale readings	Do not make contact with the scale module or avoid touching or bumping the surface where the machine rests.
Piston doesn't move	Hardware misconnection	Reach customer support to troubleshoot

Customer Support

- Website: <https://meticuloushome.com/pages/contact>
- e-mail: hello@meticuloushome.com