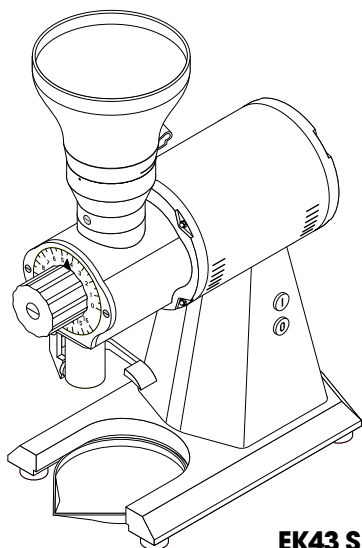
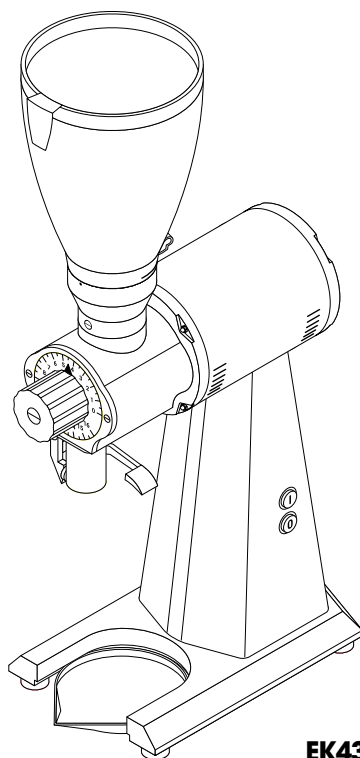


EK43 | EK43 S

Original Instructions



EK43 S



EK43



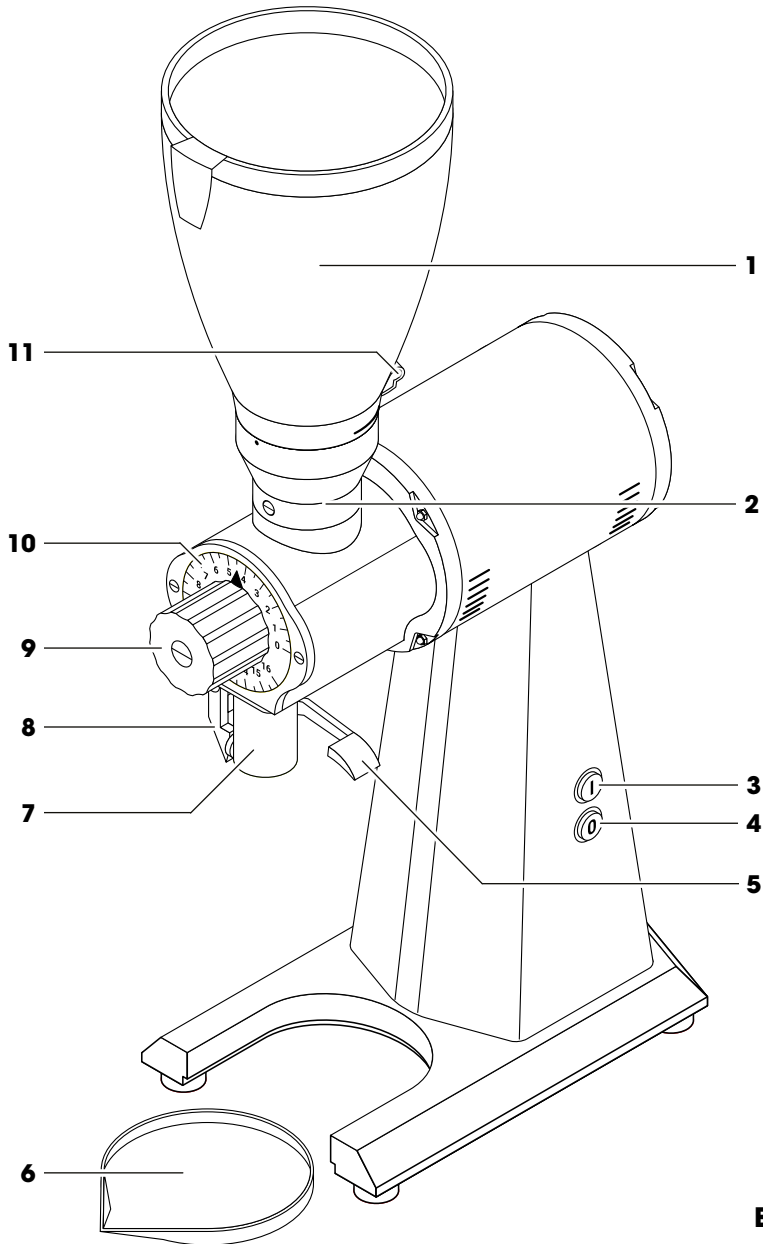
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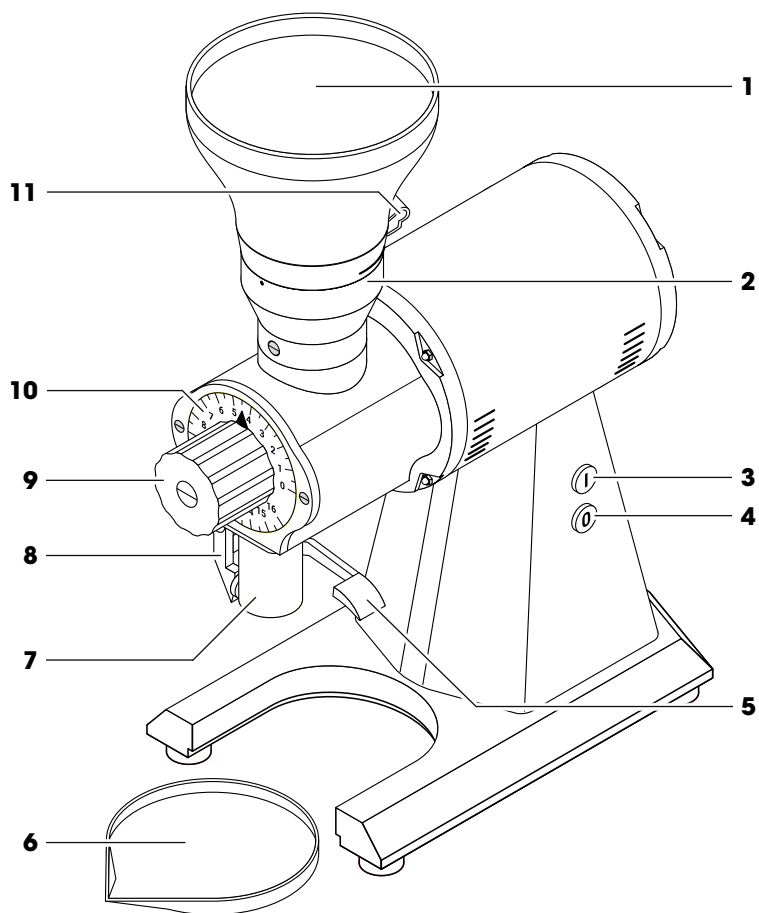
Overview

A



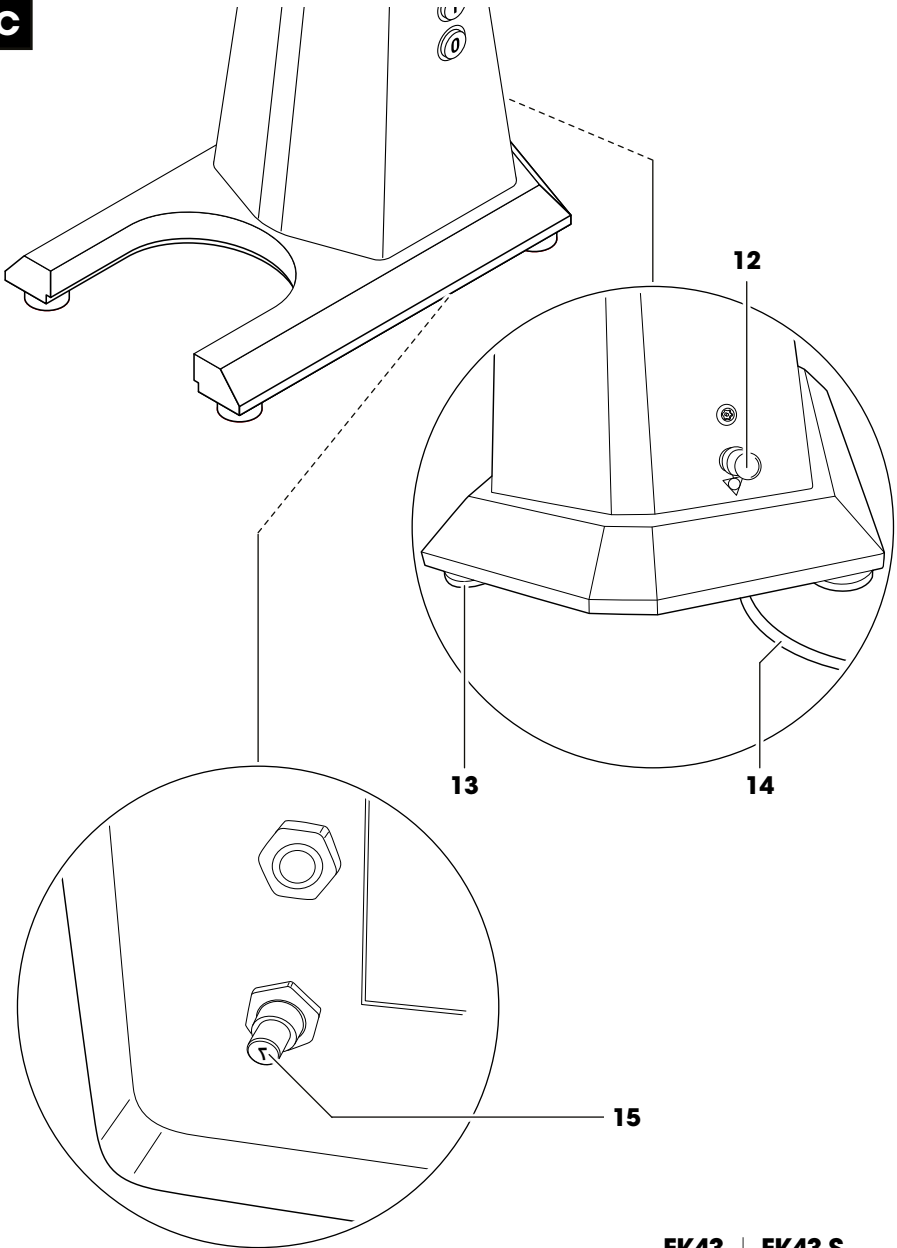
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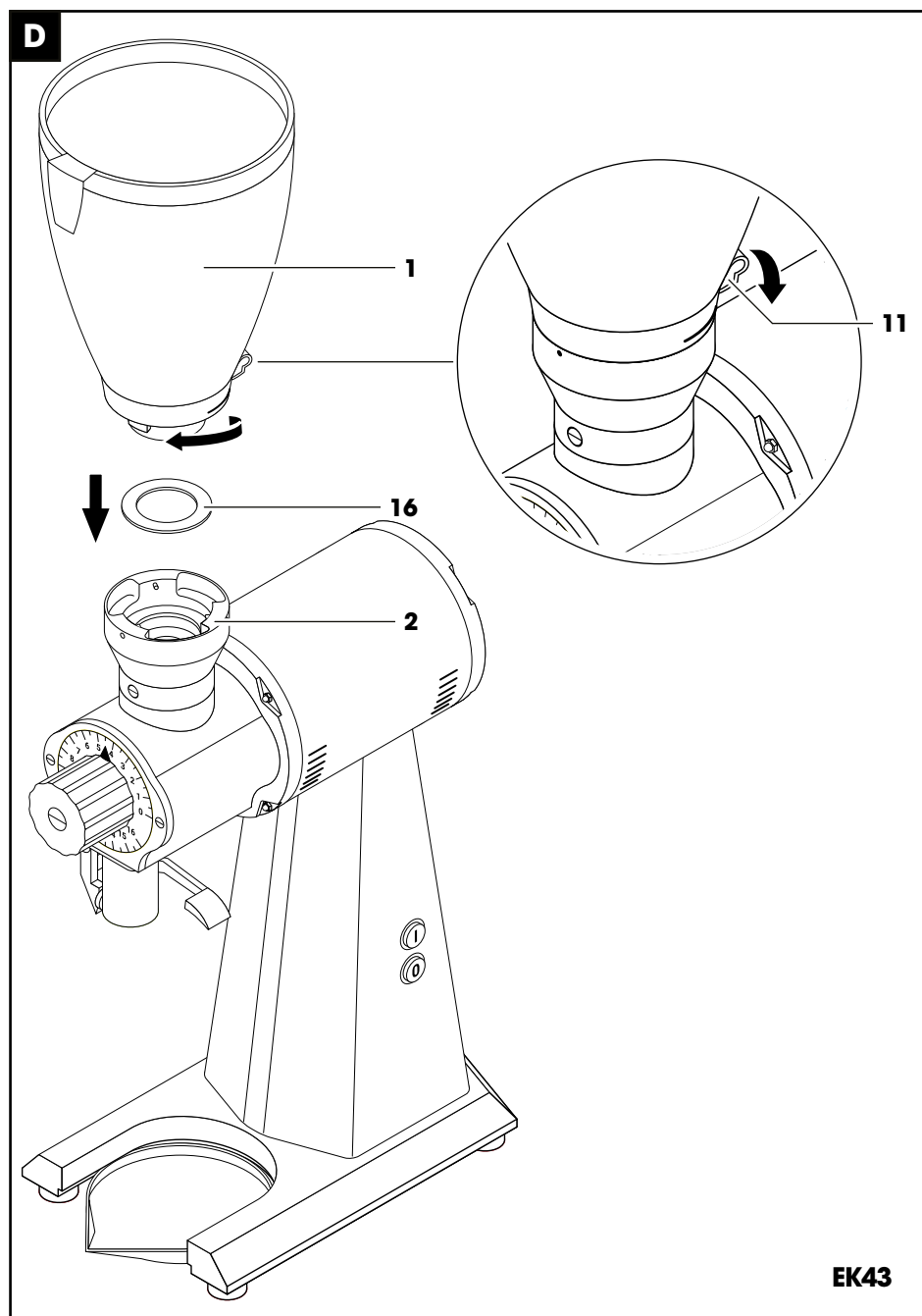


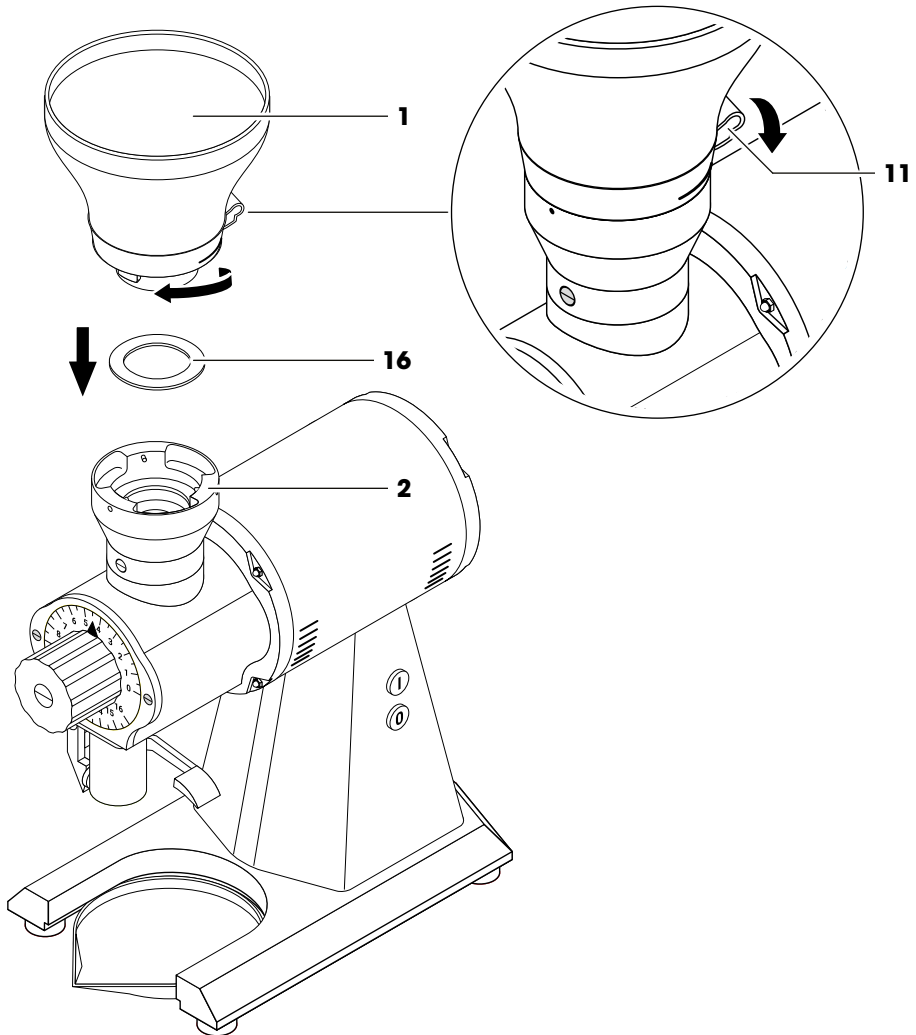
EK43 S

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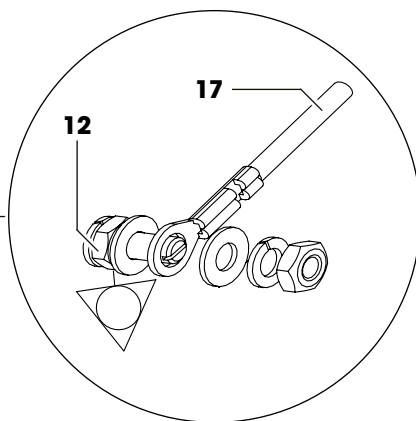
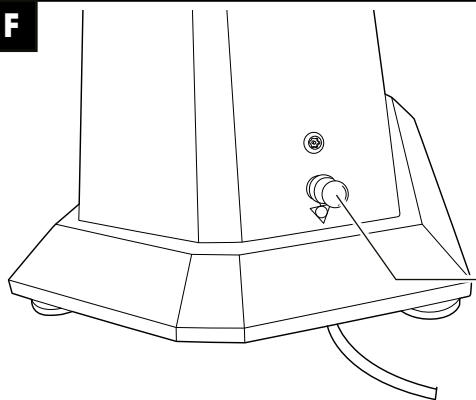


EK43 | EK43 S
(sample illustration)



E**EK43 S**

F

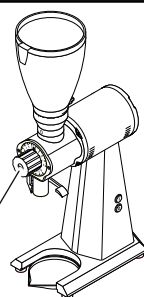
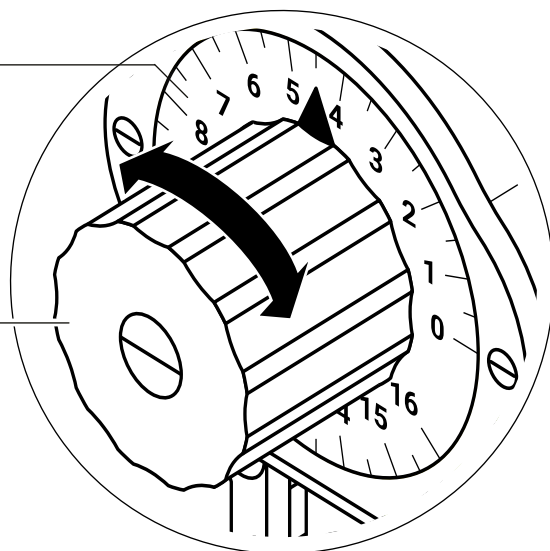


EK43 | EK43 S
(sample illustration)

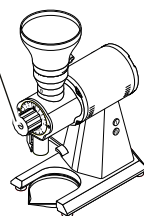
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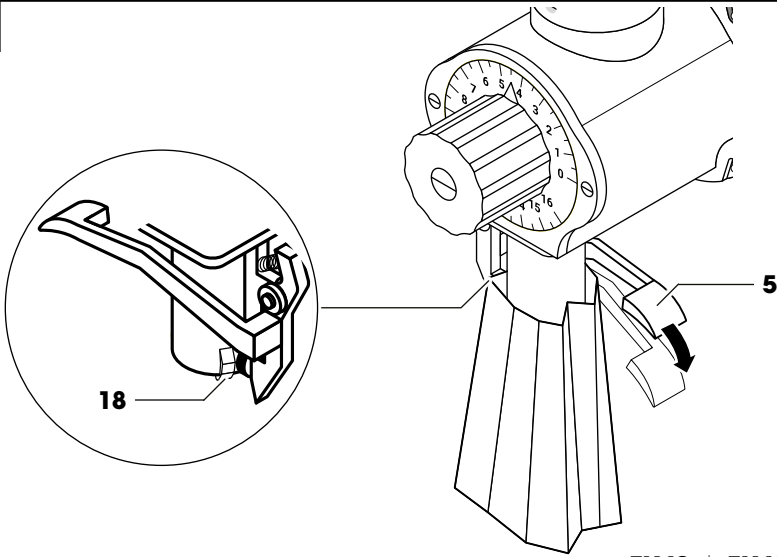


EK43



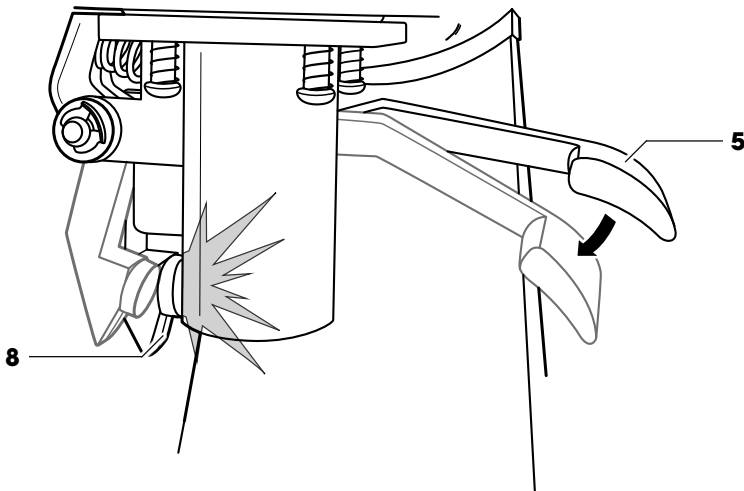
EK43 S

H



EK43 | EK43 S
(sample illustration)

I



EK43 | EK43 S
(sample illustration)

Scope of delivery / Parts

No. Name

- 1** Bean hopper (with lid)
- 2** Hopper intake
- 3** On switch I
- 4** Off switch 0
- 5** Lever for bag clamp / knocker
- 6** Collecting tray
- 7** Spout
- 8** Bag clamp / knocker
- 9** Hand wheel (grind adjustment)
- 10** Grinding degree scale
- 11** Slider
- 12** Connection for potential equalization
- 13** Feet, 4x
- 14** Power cable with power plug
- 15** Release button / thermal overcurrent circuit-breaker
- 16** Seal ring
- 17** Potential equalization conductor
(not included in the scope of delivery)
- 18** Contact strip (spout)

General information

Reading and storing the instructions



Before you start using the Commercial coffee grinder EK43 or EK43 S, carefully read through these original instructions and the safety information. Only then will you be able to use the Commercial coffee grinder EK43 / EK43 S safely and without risk.

These original instructions are based on the standards and regulations in force in the European Union. Please also observe the guidelines and laws that apply in your country.

For greater clarity, the Commercial coffee grinder EK43 / EK43 S will be referred to as the “grinder” below.

Retain these original instructions for future reference. Please also pass these original instructions on to subsequent owners and users of the grinder.



Grinders EK43 and EK43 S are also available ex-factory as model variants EK43 T and EK43 ST.

These “T” model variants are also suitable for Turkish-style grinding (powder-fine).

Explanation of symbols used

The following symbols and signal words are used in these original instructions, on the grinder, or on the packaging.



WARNING!

This signal word/symbol indicates a moderate risk, which, if not avoided, can lead to death or serious injury.



CAUTION!

This signal word/symbol indicates a low risk, which, if not avoided, can lead to minor or moderate injury.

NOTE!

This signal word warns of possible material damage.



This symbol provides you with useful information about operation or handling.



Declaration of Conformity: Products marked with this symbol fulfill all applicable community provisions of the European Economic Area.



UKCA mark: Products marked with this symbol comply with the electrical product safety requirements of the United Kingdom of Great Britain and Northern Ireland.



UL® Certified test seal: Products marked with this symbol meet the requirements for electrical product safety in the United States of America and Canada.



ETL Listed test seal: Products marked with this symbol meet the requirements for electrical product safety in the United States of America and Canada.



Products marked with this symbol meet the required criteria of the NSF (National Sanitation Foundation) regarding cleanliness and hygiene in the food industry.



Products marked with this symbol are permitted only for indoor use.



This symbol indicates a risk of electric shock.



This symbol indicates that the grinder conforms to protection class I.



This symbol indicates the connection for potential equalization.

Safety

Intended use

The grinder is designed for grinding whole roast coffee beans. If necessary, the grinder can be used to grind other foods such as certain types of grain. Contact your retailer for information on this. The grinder should only be used to grind the materials for which it has been designed. In general, make sure that only cleaned, unground material is used. Do not use the grinder to grind other products or objects.

The grinder is intended for commercial use but is not suitable for continuous high-volume production. The grinder may only be maintained by trained personnel. However, it may be operated by other persons in a place where use is supervised.

Any other use is considered improper and can result in material damage or even personal injury. Do not make any modifications to the grinder. Neither the manufacturer nor the retailer can accept liability for any injury or damage resulting from failure to comply with the safety information.

Safety information



WARNING!

Risk of electric shock!

Improper use, incorrect electrical installation, or a voltage that is too high can all lead to electric shock.

- Connect the grinder only if the supply voltage of the socket complies with the information indicated on the type plate.
- Only connect the grinder to a power connection that is properly grounded. The power connection used must be fused in accordance with the applicable national electrical regulations.
- Only connect the grinder to a socket with good accessibility, so that you can disconnect the grinder quickly from the power supply in the event of any hazardous incident.
- Do not use the grinder if you notice any visible damage or if the power cable or plug is faulty.

-
- If the grinder's power cable is damaged, it must be replaced by the manufacturer or by qualified personnel in order to avoid hazards.
 - Install the grinder only in locations where its use can be supervised by trained personnel.
 - Do not immerse the grinder or the power cable/power plug in water or any other liquids.
 - Do not clean the grinder with a water jet.
 - Never touch the power plug with wet hands.
 - Never unplug the power plug from the wall socket by pulling on the power cable; always grasp the power plug.
 - Never carry the grinder by its power cable.
 - Keep the grinder and power cable/power plug away from open flames and hot surfaces.
 - Do not position the power cable in such a way that it could create a trip hazard.
 - Do not bend the power cable and do not place it over sharp edges.
 - Use the grinder in indoor areas only. Never operate the grinder in damp areas or in the rain.
 - Keep children away from the grinder.
 - Make sure that children do not insert any objects into the grinder.
 - If you are not currently using the grinder, if you are cleaning it, or if there is a malfunction, switch the grinder off and remove the power plug from the socket.
 - Do not open the casing, leave repairs to the experts. If repairs are required, contact a specialist workshop. If unauthorized repairs are carried out, the connection is not made correctly, or the grinder is operated incorrectly, all liability and warranty claims are voided. Only parts that comply with the original appliance specifications may be used for repairs. This grinder contains electrical and mechanical parts that are essential for protection against potential hazards.
-



WARNING!

Danger for children and persons with reduced physical, sensory, or mental capacities (e.g. partially disabled persons, elderly persons with limited physical and mental capacities) or a lack of experience and knowledge (e.g. older children).

- The grinder is not intended for use by children or persons with reduced physical, sensory, or mental capabilities or with a lack of experience and knowledge. Children may not play with the grinder.
- Do not leave the grinder unsupervised when it is in operation.
- Do not let children play with the packaging film. Children can become entangled in it and suffocate while playing.
- Do not let children play with small parts. They can be life-threatening if swallowed.



CAUTION!

Risk of tipping and injury!

Incorrect handling of the grinder can result in injury.

- Lay out the power cable in such a way that nobody can become entangled in it and cause the grinder to fall.
- Place the grinder on a level and stable surface to prevent it from falling off.

NOTE

Risk of damage!

The grinder can become damaged through improper handling.

- Never tilt or tip the grinder more than 10° (in any direction).

Commissioning

Checking the grinder and scope of delivery

NOTE!

Risk of damage!

Opening the packaging incautiously with a sharp knife or other pointed objects can damage the grinder.

- Proceed very carefully when opening.
- Do not lift the grinder by the bean hopper or the hand wheel. Always lift the grinder by its casing using both hands.

1. Remove the grinder from its packaging.
2. Make sure that the delivery is complete (see **fig. A-E**).
3. Check for damage to the grinder or any of the individual parts.

If this is the case, do not use the grinder. Contact your supplier (see "Maintenance and service" section).



Please note that the grinder has undergone a comprehensive functional test prior to delivery and may contain ground coffee residue.

Setting up and connecting the grinder



Depending on the installation location or the availability of a socket, you can route the power cable **(14)** flexibly between two feet **(13)** to any side of the grinder.

1. Place the grinder on a level and stable surface that does not vibrate.
2. Make sure that the seal ring **(16)** has been properly inserted in the bean hopper intake **(2)** and is lying flat (see **fig. D** or **E**).



If the seal ring is missing or the bean hopper is not installed correctly, loud noises may occur while the engine is running.

3. Position the bean hopper **(1)** on the bean hopper intake.



The bean hopper can be placed in three different positions.
» Choose the position that best suits your workflow.

4. Rotate the bean hopper clockwise to lock it in place on the grinder.
5. Insert the power plug **(14)** into a properly installed socket.
6. Insert the magnetic collecting tray **(6)** into the recess provided in the casing under the spout **(7)**.

Connecting the potential equalization



The connection for the potential equalization **(12)** can be found at the rear of the grinder (see **fig. C**).

It is only necessary to connect the potential equalization in certain installation environments. If in doubt, contact your service partner (see "Maintenance and service" section).



The electrical connection and testing of electronic functionality must be carried out by an electrician.

1. Undo the locknut and remove it (see **fig. F**).
2. Remove the lock ring and the flat washer.
3. Connect the potential equalization conductor **(17)** to the potential equalization.



The potential equalization conductor is not included with the delivery.

- » Use a copper potential equalization conductor with a minimum cross-section of 2.5 mm² (shielded) or 4 mm² (unshielded).
- » If you have any questions about this, contact an authorized service partner or electrician (see "Maintenance and service" section).

4. Secure the potential equalization conductor by reattaching the nut, flat washer, and lock ring.

Operation

NOTE!

Risk of overheating!

Exceeding the maximum permissible operating cycle can cause the grinder to overheat.

- Do not exceed the maximum operating cycle (see "Technical data" section).

NOTE!

Risk of damage!

The operator cannot adjust the thermal overcurrent circuit-breaker. If the thermal overcurrent circuit-breaker has been triggered several times, a service partner must be contacted for advice as the motor winding can become damaged.



- The grinder has a thermal overcurrent circuit-breaker which interrupts the grinder's electric circuit in the event of an electrical overload.

To restart the grinder after the overcurrent circuit-breaker has tripped:

- » First, turn off the grinder by pressing the Off switch 0 **(4)**, and then unplug the power plug **(14)**.
- » Then push in the release button **(15)**.

You can now plug the power plug back into the socket and put the grinder into operation (see "Setting up and connecting the grinder" section).

- The grinder also has a motor protector, which switches off the grinder when the motor becomes too hot. As soon as the motor has cooled down, the grinder can be put back into operation (see "Troubleshooting" section).

Adding the coffee beans

1. Remove the lid from the bean hopper **(1)**.
2. Pour whole roasted coffee beans into the bean hopper from above.



The maximum fill amount should be approx. 1 cm below the edge of the bean hopper.

3. Place the lid back onto the bean hopper.

Switching on the grinder and adjusting the grinding degree



The pointer on the hand wheel **(9)** indicates the set grinding degree on the grinding degree scale **(10)**. The finest setting is “0” and the coarsest setting is “16”.

- » Only reduce the grinding degree while the grinder is in operation.
- » If necessary, start by setting a coarser grinding degree (about one notch or one unit above the required grinding degree) and then turn the hand wheel from there to the required finer grind. This enables you to avoid inaccuracies in the grinding degree setting.

1. Make sure that
 - you have inserted the power plug **(14)** into a properly installed socket and
 - that the slider **(11)** closes the bean hopper **(1)** toward the grinder.
2. Switch on the grinder by pressing the On switch I **(3)**.
3. Turn the hand wheel **(9)** clockwise or counterclockwise until the pointer indicates the required grinding degree on the grinding degree scale **(10)** (see **fig. G**).

Turn the hand wheel toward “0” for fine coffee grounds and in the opposite direction for coarse coffee grounds.

Clamping the coffee bag or grounds container

1. Keep the bag clamp lever **(5)** pressed down.
The bag clamp **(8)** lifts away sideways from the spout **(7)** (see **fig. H**).
2. Put a coffee bag over the spout or position a suitable grounds

container underneath it.



- Due to its height, the EK43 S model is not designed for grinding bags. Use a suitable grounds container instead (not included with delivery).
- When inserting a grounds container made of conductive material, make sure that the grounds container is in contact with the contact strip **(18)** on the back of the outlet. This reduces the electrostatic charge of the ground coffee.

3. Release the lever.

The bag clamp will close around the spout and hold the coffee bag or grounds container.

4. Continue with the “Starting the grinding process” section.

Starting the grinding process

1. Switch on the grinder by pressing the On switch I **(3)**.
2. Pull out the slider **(11)** to open the bean hopper **(1)** toward the grinder (see **fig. D** or **E**).

The grinder will grind the filled volume of coffee beans.

Grinding is completed as soon as the grinder is idle and no more grinding noises can be heard.

After the grinding process

1. Close the bean hopper **(1)** in the direction of the grinding mechanism by pushing in the slider **(11)**.
2. Hold the coffee bag or grounds container in one hand and use the lever **(5)** to tap the knocker **(8)** against the spout a few times to dislodge any remaining grind residue from the spout (see **fig. I**).
3. Hold the lever down and remove the coffee bag or the grounds container from the spout **(7)**.
4. Switch off the grinder by pressing the Off switch 0 **(4)**.

Cleaning

CAUTION!

Risk of injury!

The grinder can fall over and cause injury when it is being moved.

- Always place the grinder on a stable surface that will not tilt.
- Ask another person for help if the grinder is too heavy.

NOTE!

Risk of short-circuit!

Water penetrating the grinder can cause a short-circuit.

- Never immerse the grinder in water or any other liquids.
- Never clean the grinder with a water jet or a steam cleaner.
- Ensure that no water or other liquids enter the casing in any other way.

NOTE!

Risk of damage!

Improper handling can damage the grinder.

- Do not use any harsh cleaning agents or sharp or metal cleaning tools such as knives, metal scouring pads or similar. These can scratch the surface.
- Do not clean the grinder with compressed air (e.g. with a compressed-air blow gun).
- Do not use a dishwasher to clean the detachable parts of the grinder (e.g. collecting tray, lid of the bean hopper). These parts are not dishwasher-proof and the color may fade.
- Do not lift the grinder by the hopper. Always lift the grinder by its casing using both hands.

Cleaning the surface underneath the grinder

1. Turn off the grinder by pressing the Off switch **0 (4)**, and unplug the power plug **(14)** from the socket.
2. Lift the grinder by the casing with both hands and place the grinder onto a clean surface.

3. Clean the installation surface and the underside of the grinder with a damp cloth and dry the surfaces.

The surfaces must be dry and free of oil and grease.

4. Place the grinder back onto the cleaned surface.

Cleaning the casing

1. Turn off the grinder by pressing the Off switch **0 (4)**, and unplug the power plug **(14)** from the socket.
2. Use the lever **(5)** to tap the knocker **(8)** against the spout **(7)** a few times to dislodge any remaining grind residue from the spout (see **fig. 1**).



The manufacturer recommends using a brush with nylon bristles to clean the spout system.

3. Using a brush, carefully clean:
 - the spout through which the grounds come out of the grinding mechanism into the coffee bag or grounds container,
 - the contact strip **(18)** directly at the spout and
 - the knocker.

Cleaning the hopper



The bean hopper must be cleaned daily to remove any coffee oil residue, which can have a negative effect on the taste.

1. Rotate the bean hopper counterclockwise to loosen it from the grinder, and remove it from the grinder by lifting it upwards.
2. Clean the interior and exterior of the bean hopper with a damp cloth and then wipe it dry.
3. Insert the bean hopper back onto the bean hopper intake (see **fig. D** or **E**).

Make sure that the seal ring **(16)** is lying flat in the bean hopper.

4. Rotate the bean hopper clockwise to lock it in place on the grinder.

Cleaning the grinding mechanism



- Use a suitable grinder cleaner to clean the grinding mechanism.
- The grinding mechanism should be cleaned every 2 to 5 days.

1. Rotate the bean hopper counterclockwise to loosen it from the grinder, and remove it from the grinder by lifting it upwards.
2. Place a collecting container under the spout **(7)** to catch the grinder cleaner.
3. Switch on the grinder by pressing the On switch I **(3)**.
4. Turn the hand wheel **(9)** so that the pointer indicates the coarsest possible grinding degree on the grinding degree scale **(10)** (see section "Switching on the grinder and adjusting the grinding degree").
5. Fill the grinder cleaner directly into the grinding mechanism from above.

Use only the quantities indicated by the manufacturer of the grinder cleaner you are using.

The grinding of the grinder cleaner is completed as soon as the grinder begins to idle.

6. Use the lever **(5)** to tap the knocker **(8)** against the spout a few times to dislodge any remaining residue from the spout (see **fig. I**).
7. Switch off the grinder by pressing the Off switch 0 **(4)**.

8. Insert the bean hopper back onto the bean hopper intake (see **fig. D** or **E**).
Make sure that the seal ring **(16)** is lying flat in the bean hopper.
9. Rotate the bean hopper clockwise to lock it in place on the grinder.
10. Make sure that the slider **(11)** closes the bean hopper **(1)** toward the grinder.
11. Turn on the grinder by pressing the On switch I **(3)**, and turn the hand wheel **(9)** until the pointer indicates the required grinding degree on the grinding degree scale **(10)** (see section “Switching on the grinder and adjusting the grinding degree”).
12. Remove any leftover cleaning particles by grinding the same amount of coffee beans as the grinder cleaner used.
13. Dispose of the ground grinder cleaner and the ground coffee beans in commercial/domestic waste.

Troubleshooting

Problem	Cause	Solution
The grinder is neither grinding nor humming.	• The power plug has not been inserted.	» Insert the power plug into a properly installed socket.
	• The thermal overcurrent circuit-breaker has been triggered.	» Check whether the overcurrent circuit-breaker's release button has popped out. Push it back in if necessary. » If the thermal overcurrent circuit-breaker trips repeatedly, contact your service partner (see section “Maintenance and service”).
	• The back-up fuse has tripped.	» Contact your service partner (see “Maintenance and service” section).

Problem	Cause	Solution
The grinder is humming but not grinding.	• The grinder and/or the spout are clogged.	» Using the hand wheel, set the grinder to the coarsest grinding degree and start the grinding process. The grinder will free itself. Then use the hand wheel to set the desired grinding degree while the grinder is running. » Use the lever to tap the knocker against the spout a few times to dislodge any remaining residue from the spout.
	• The grinding degree is too fine.	» Using the hand wheel, set the grinder to the coarsest grinding degree and start the grinding process. The grinder will free itself. Then use the hand wheel to set the required grinding degree while the grinder is running » Should the problem persist, contact your service partner (see “Maintenance and service” section).
	• A foreign object is in the grinding mechanism.	» Clean the grinder as described in the “Cleaning the grinding mechanism” section, removing any foreign objects in the process. » If the foreign object cannot be removed, contact your service partner (see “Maintenance and service” section).
The grinder is not grinding finely enough.	• The burrs are worn out.	» Contact your service partner (see “Maintenance and service” section).
	• The burrs are not aligned correctly.	» Contact your service partner (see “Maintenance and service” section).

Technical data

Model:	EK43 EK43 S		
Voltage / frequency:	220–240 V; 50/60 Hz	110–127 V; 60 Hz	100–120 V; 50/60 Hz
Power:	1300 W		
Protection type:	IPX1		
Protection class:	I ⊕		
Idle speed			
50 Hz:	1480 rpm		
60 Hz:	1740 rpm		
Sound emission value			
Idle:	60 dB(A)		
Grinding ¹ :	87 dB(A)		
Grinding capacity ² :	1.5 kg/min		
Max. grinding time (max. operating cycle ³):	40 min. ⁴		
Max. daily output ² :	216 kg/day (Turkish / powder-fine) ⁵		
	240 kg/day (espresso / fine grind)		
	320 kg/day (filter coffee / coarse)		
Dimensions (W × D × H)			
EK43:	230 × 411 × 835 mm		
EK43 S:	230 × 411 × 545 mm		
Weight (net)			
EK43:	26.1 kg		
EK43 S:	24.4 kg		
Max. funnel fill amount:			
EK43:	1.2 kg		
EK43 S:	0.25 kg		

1 The noise level was measured under controlled laboratory conditions.

Actual values may vary depending on the operating environment and the type of coffee used.

2 The grinding capacity and maximum daily output depend on several factors, including the selected coffee bean (e.g. roast level, density), the selected grind setting, and the power supply.

3 Exceeding the maximum operating cycle may result in the motor shutting down to protect the internal components. Damage resulting from improper use is excluded from the warranty.

4 The grinder can run for a maximum of 40 minutes; after that, a cooling-off period is required.

5 Only possible with the optional Turkish pre-crusher and grinding discs, or with the factory-standard EK43 T or EK43 ST models.

Declaration of Conformity

Hemro International AG hereby declares that the grinder complies with Directive 2014/53/EU and further relevant provisions on obtaining CE marking.

The complete text of the Declaration of Conformity can be found on our website www.mahlkoenig.com.

Disposal

Disposing of the packaging



Dispose of the packaging by correctly sorting the recyclable materials. Dispose of cardboard as paper waste and plastic as recyclable materials.

Disposing of the grinder



Electrical appliances are labeled with the symbol opposite. Used appliances may not be thrown into commercial/domestic waste!

Consumers are legally obliged to dispose of old appliances separately from commercial/household waste, e.g. at a collection point in the community/urban district, for the purpose of reuse or disposal. The old appliance can also be returned to the supplier free of charge. This ensures that old appliances are recycled correctly and reduces harmful effects on the environment. If personal data is stored on the old appliance, consumers are responsible for ensuring that it is deleted.

Maintenance and service

- » If service or maintenance is required, contact an authorized customer service center for Mahlkönig products. The customer service department can answer any questions you may have regarding repair and maintenance of your product or spare parts. Blown-up drawings and information about spare parts can also be found on our website.

EK43	
Product Page  https://hemro.net/EK43_Product	Spare Parts List  https://hemro.net/EK43_Sparepartslist

EK43 S	
Product Page  https://hemro.net/EK43S_Product	Spare Parts List  https://hemro.net/EK43_Sparepartslist

Our Application Consulting team will be happy to help you with any questions you may have concerning our products and their accessories.

- » For all inquiries and spare parts orders, please be sure to include the article and serial number as stated on the grinder's type plate.

Optional accessories

Optional accessories are available for this grinder, including the following parts:

- Spring-loaded bean hopper,
- Centering tool,
- Grounds container,
- Measuring cup.

You can find detailed information on the optionally available accessories for your grinder on our website.

EK43	EK43 S
Product Page  https://hemro.net/EK43_Product	Product Page  https://hemro.net/EK43S_Product

HEMRO

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