

# Operating Instructions

## K60 ES

„Grind-on-Demand“



The professional art of grinding  
since 1924



Dear customer / service personnel

the "Single Espresso Grinder K6o ES" is a fully automatic espresso coffee grinder of the proven MAHLKÖNIG quality.

We have developed this product with over 8o years of experience in the manufacture of coffee grinders assuring you of high quality grinding of espresso and other types of coffee beans.

Read through and observe the operating instructions, so you and your customers will thoroughly enjoy the "K6o ES". Please store the instructions in a safe place. If anything is unclear or additional information is required, please contact your authorized dealer or us as the manufacturer. We will be pleased to advise you further. We wish you unlimited pleasure and success with our product.

**MAHLKÖNIG GmbH & Co. KG**



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## 1. Safety



**Please read carefully and observe the following safety instructions. Failure to do so can result in damage to the grinder and danger to the user.**

### 1.1 Symbols

The following two symbols are used in these operating instructions:



#### **Safety Instruction:**

Imminent accident danger if you fail to observe.



#### **General Instruction:**

Failure to observe can result in damage to the grinder and optimum operation cannot be guaranteed.

### 1.2 Safety Instructions

Only whole roasted coffee beans may be ground in the K60 ES.

When unpacking please inspect whether the power supply (voltage) complies with the grinder voltage on the manufacturer's name plate on the bottom of the grinder. Never operate the grinder in damp or wet surroundings.

Always remove the electrical plug from the outlet prior to conducting maintenance or cleaning work on the grinder. Also, prior to removing the hopper, the plug must be removed from the electrical outlet.

Never operate a grinder with a damaged electrical cord. Inspect the grinder regularly for damages of the electrical cord, plug, etc.

Any required repairs may only be conducted by authorized service personnel. For this reason, please contact a customer service repair facility, your dealer or us directly as the manufacturer.

#### **Do not exceed the maximum allowable repetition frequency:**

- @ 50Hz: 4 sec. ON 16 sec. OFF
- @ 60Hz: 4 sec. ON 40 sec. OFF

Do not make any modifications or alterations to the grinder. The manufacturer assumes **absolutely no liability** for damages occurring from failure to observe these instructions.

Children cannot appreciate the dangers that can exist in the operation of electrical grinders. For this reason, never leave children unsupervised with electronic appliances such as this grinder.



**Never submerge the grinder in water and never operate with wet hands.**

### 1.3 Usage Purpose

Only whole roasted coffee beans may be ground in the K60 ES grinder. Never use the grinder to grind other products or objects.

### 1.4 User Requirements

No special requirements are necessary for the users of this grinder. It is nevertheless a prerequisite that these operating instructions have been carefully read and understood and that all instructions provided are observed. In addition, safety-conscious operation is expected.

## 2. Technical Data

Type	K60 ES
Voltage/Frequency	200-230V / 50/60Hz UL: 115-120V / 50/60Hz
Rotation	100-120V / 50/60Hz
@ 50 Hz	1480 rpm
@ 60 Hz	1770 rpm
Max. Power Input	
230V	450 W
115V	650 W
Sound Emission	
Idle Operation	63 dB
Operation	68 dB
Pre-Fuse (Outlet)	16 A-slow
Grinder Fuse 5 x 20	Grinder per 10AT 24V - 160mAmT
Overload Circuit Breaker	Internal electronic
Max. Permissible Repetition	4sec.ON 40sec.OFF
Dimensions in mm	W 290, D 370, H510
Weight	24 kg (53 lbs)
Hopper Capacity	2 x 1kg (2 x 2.2 lbs.)

*(Please request technical data for other voltages and frequencies from the manufacturer or dealer.)*

### 3. Description

#### Main Components and Operating Elements

The main components and operating elements are pictured in the illustration.

Pos. 1	Operating Panel
Pos. 2	Bean Hopper with Latch Slider
Pos. 3	Lid
Pos. 4	Display
Pos. 5	Lock
Pos. 6	Screen
Pos. 7	Rotating Knob, Right Grinding Adjustment
Pos. 8	Rotating Knob, Left Grinding Adjustment
Pos. 9	Latch (underneath the screen)
Pos.10	Tamper
Pos.11	On / Off Switch (on the back of the machine)
Pos.12	Spout
Pos.13	Port-a-Filter Holder Mounting
Pos.14	Cover

#### 3.2 Safety Devices

The grinder is equipped with 2 fuse elements (5x20). These blow in the event of electrical current overload, thereby interrupting the electric circuit of the motor. Once the overload has been repaired, have the melted fuse element replaced by a service technician. Then the grinder can be switched on again. If the fuse blows repeatedly, then the grinder must be examined by a service technician.



### 3.3 Running Time Limitation

As soon as a grinder is activated, a second counter starts. If 30 seconds are reached, the grinder stops and displays the message, "Running time too long - allow cooling"

## 4. Set-up and Basic Adjustment

A grinding test run is carried out on each grinder in our factory. This is why you may find ground material residue in the grinding mechanism!

### 4.1 Usage Location

Place the grinder on a level, vibration-free surface.



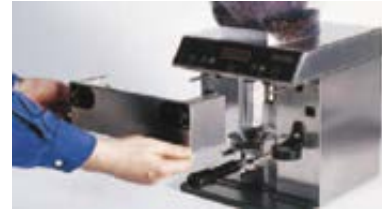
**Never operate the grinder in moist, or even worse, in wet surroundings!**

### 4.2 Installation

Your grinder is shipped with a packing guard which must be removed prior to operation. To do so, proceed as follows:

4.2.1 Open the hopper as follows: Apply pressure above the lock against the hopper and pull the lid up. Remove the accessory parts from the hopper.

4.2.2 Now remove the the rotating knobs (Pos. 7/8) and pull the screen (Pos. 6) towards you off the casing.



4.2.3 Pull out the latch bolts (Pos.9) and pull the top cover directly upwards from the lower section.



4.2.4 Remove the packing guard. Examine the grinder connector plug for a proper and firm fit. Store the transport guard, as the grinder can only be transported or shipped without suffering damage with the transport guard. Install the intermediate hoppers onto the grinders as far as they will go.



4.2.5 Check whether the hopper (Pos.2) and the covering are latched. The hopper is latched if the funnel bolt with the bracket is turned all the way to the left.

Hopper



**UNLOCK:**  
hopper close

**LOCK:** hopper open

4.2.6 Replace the cover again. Make sure that the plug-in connection between the cover and the lower portion sits correctly. Latch the covering by pushing in the latch bolt (Pos.9).

4.2.7 Now replace the screen (make sure that the axles fit into the rubber guides) and lock everything into place on the casing.

4.2.8 Afterwards mount both of the rotating knobs (Pos.7+8).



4.2.9. Now the grinder only has to be connected to the electrical current in the following manner:



**Ensure that the power supply and frequency comply with the specifications on the manufacturer name plate.**



**Ensure that the safety fuse is not overloaded by other devices (e.g. fan, heaters, freezers). Do not use an extension cord!!**



**Insert the plug into an appropriate grounded wall outlet that has a proper circuit breaker.**



**Turn on the grinder to test it with the On/Off switch (Pos.11). The grinder will now automatically conduct an examination of the electronics and the electronic functional capability of the grinder. After the text "Ready For Operation" appears on the display, you can operate the grinder.**



Now fill both chambers of the bean container with the type of coffee beans that you use and open the latch slider of the hopper.

The grinder is ready for operation!

### 4.3 Operating Panel



	User Menu	Program Menu
	Single espresso left grinding gear	Button Submenu left
	Double espresso left grinding gear	Button Submenu right
	Single espresso right grinding gear	Button Mainmenu down
	Double espresso Right grinding gear	Button Mainmenu up
	Program Button	Edit / Save

### 4.4 Basic Adjustment

After the grinder is ready for operation the basic adjustment can be set according to the following steps:

- Adjust the grinding degree with Pos. 7 und Pos. 8.



**Adjust grind particular size when motor is not running. Use the rotating knob on each side of the grinders:**

Left grinder: finer = left rotating direction  
coarser = right rotating direction

Right grinder: finer = right rotating direction  
coarser = left rotating direction

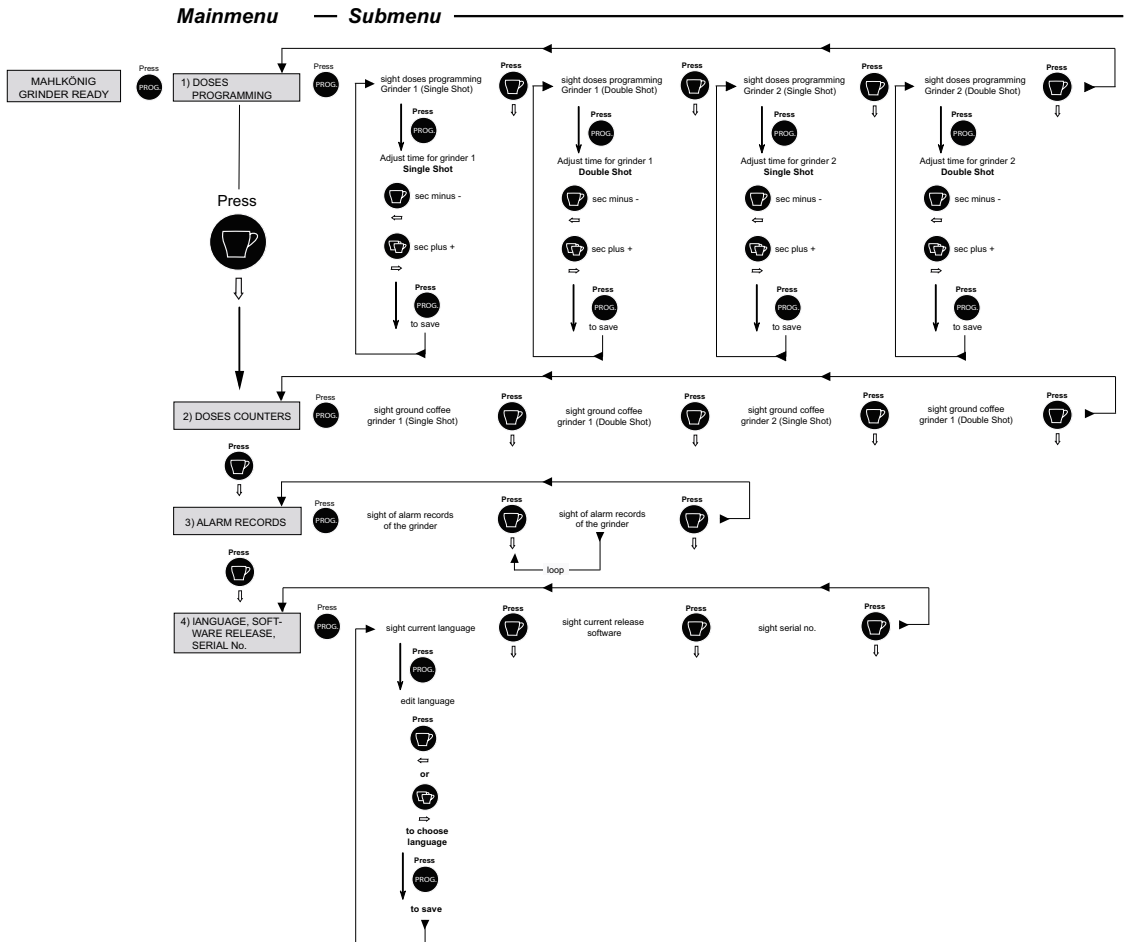
The grinding times are set in the factory for:

- Button + 2,0 sec.

- Button + 4,0 sec.

You can change the present time with the following steps:

# 5. Operation



## 6. Operating faults

Defect	Cause	Remedy
The display is off.	The electronic cord is not plugged in.	Insert the plug into the electrical outlet.
	The grinder fuse is defective.	Replace the fuse on the power supply board.
	The electrical circuit breaker is tripped.	Inspect the breaker. Return it to its original state or replace it. Determine whether other devices are connected to this circuit.

Alarm signal	Cause of fault	Consequences
GR.x BLOCKED	Foreign body in the grinder. Beans stuck in the grinder. Spout is plugged.	block of motor GR.1 or GR 2; LED 1 & 2 or 3 & 4 blink, 10 beeps of the buzzer, the coffee supply is not counted
SECURITY SWITCH OPEN	Plug is not plugged in the circuit board. Plug cord is defective. Magnet switch is defective. Magnet contact is missing.	total block, the coffee supply is not counted; 10 beeps of the buzzer.
TRIAC* GR. x OUT OF WORK	Grinding gear plug is not plugged in. Fuse is defective. Triac is defective. Capacitor is defective. Circuit board is defective.	blocking; LED 1 & 2 or LED 3 & 4 blink, 10 beeps of the buzzer and relay1 or relay 2 open.

**Reset:** Reset the alarm by pressing the program button but the LED of the group keep on blinking to show that the group is out of work.

**Reset:** The input of the security micro switch is open. Reset by pressing the program button only if the contact is closed.

**Reset:** The triac is in short circuit or open (detected by the TA); by pressing the program button you reset the alarm but the led of the group keep on blinking to show that the group is out of work.

\* electric switch on the cooling element

Alarm signal	Cause of fault	Consequences
LOW POWER SUPPLY	Power outlet overload. System voltage is too low.	value; LED 1 – 2 – 3- 4 blinking, 10 beeps of the buzzer.

Reset: No reset necessary.

**In the event of other trouble or continuous defects please ask your dealer or authorized customer service.**

## 7. Cleaning



**Always remove the electrical plug from the outlet before conducting cleaning or repair work on the grinder.**



**Observe the safety instructions under 1.2!**



**Avoid allowing foreign objects to fall into the grinder.**

We recommend regular cleaning of the K60 ES.

For cleaning, use only cleaning agents approved for food product applications, respectively, the hopper. Intermediate funnel and lid can also be washed in a dishwashing machine or a sink or tub with a brush and dishwashing liquid.

### 7.1 Cleaning with GRINDZ™ Grinder Cleaner

We recommend cleaning your espresso grinder once a week with our GRINDZ™ Grinder Cleaner.

Simply take the recommended dose (35-40g) and drop it into an empty grinder hopper. You can also use the cap of the jar for dosing. A full cap will yield between 35-40 grams. Adjust machine setting to medium and operate as if grinding coffee beans. Once complete, we recommend passing twice as much coffee through to purge any residue.

### 7.3 Cleaning of the spout and hopper

7.3.1 Grind the remaining coffee beans. Close the hopper. Open the lid by applying pressure above the lock against the hopper and then pulling the lid off upwards.

7.3.2 Wipe the inside and outside of the hopper with a damp cloth. Do not rinse. For cleaning, use only cleaning agents approved for food product applications.

7.3.3 To dry, rub the hopper with a dry, non-fluffy cloth.

7.3.4 Pull off the rotating knobs (Pos.7+8) and the screen (Pos. 6). Afterwards, dismantle the spout (Pos.13) by pushing it upwards and unhooking it.



### 7.4 Cleaning the Grinder Placement Surface Area



1. Pull out the electrical plug!
2. Remove the residue tray.
3. Place the grinder somewhere else.
4. Clean the grinder placement surface area.
5. Return the grinder and the residue tray.

### 7.5 Cleaning the Grinder Casing

Clean your grinder externally from time to time with a damp cloth.

Observe the safety instructions under 1.2!



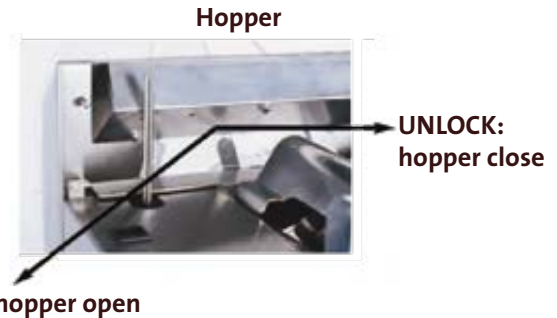
**Be careful of sharp edges while cleaning. The danger of injury exists!**

7.5.1 Grind the remaining coffee beans.



**Pull out the electrical plug.**

7.5.2 Pull off the rotating knobs (Pos. 7+8). Close the rotary latch slide turning it to the right.



7.5.3 Now pull the screen (Pos.6) off the casing. Pull out the latch bolt (Pos.9) and pull off the cover upwards (Pos.15).



7.5.4 Disconnect all electrical connections!!



Control wire

7.5.5 Vacuum out and wipe the intermediate funnel. Afterwards, pull the intermediate funnel out of the grinder and vacuum out the grinder and the casing.



7.5.6 Unhook the spout casing (Pos. 13) by pressing together and pushing upwards.



7.5.7 Wipe out the grinder spouts.

7.5.8 Re-hook the spout casing by pressing together and hanging it back in position. Install the intermediate funnel. Reconnect the grinder to the power supply.



7.5.9 Reposition the covering with the bean container. The covering must be installed precisely to avoid damaging the electrical plug connection. Push the latch toward the rear. Now replace the screen (observe that the axles fit into the rubber guide) and affix the latch clips. Replace the rotating knobs (Pos. 7 & 8).

7.5.10 Conduct a grinding test as described under 4.4.

## 8. Maintenance and Repair



**Always pull the main plug from the socket before carrying out maintenance or cleaning work on the grinder!**



**Inspect the grinder regularly for damage, particularly to the electrical cable, plug, etc.**





**Any required repairs may only be conducted by authorized specialist personnel. For this reason, please contact a customer service repair facility, your dealer or us directly as the manufacturer.**

## 9. Spare Parts

Spare parts are usually ordered from your customer service centre or your local dealer. To ensure quick and correct processing of your order, the following information is absolutely essential:

1. Type designation, serial number and voltage of the grinder (on the rating plate underneath the grinder).
2. An exact description of the part to be replaced or the article number.

## 10. Certificate

EC Declaration of Conformity		
The manufacturer:	MAHLKÖNIG GmbH & Co. KG Tilsiter Straße 142 D - 22047 Hamburg Tel.: +49 (0) 40 69 69 40 - 0 Fax: +49 (0) 40 69 39 72 - 1	
hereby declares that the below mentioned product:		
<b>product type:</b>	device for food processing	
<b>machine description:</b>	Coffee grinder	
<b>machine typ:</b>	K60 ES	
is in compliance with the following directives and regulations:		
<ul style="list-style-type: none"> <li>• The provisions of the Machinery Directive</li> <li>• The Low Voltage Directive</li> <li>• The EC Electromagnetic Compatibility Directive</li> <li>• The Directive on the restriction of use of certain hazardous substances in electrical and electronic equipment</li> <li>• The EU chemicals regulation (REACH – Regulation)</li> </ul>	<ul style="list-style-type: none"> <li>2006/42/EG</li> <li>73/23/EWG</li> <li>2004/108/EG</li> <li>2011/65/EU</li> <li>(EG) Nr. 1907/2006</li> </ul>	
Supplements in Europe:		
Regulation 1935/2004	Requirements for materials and the objects with Food comes into contact	
Documentation Agent:	Sven Erdmann	
Address of the proxy documentation:	See the address of the manufacturer	
Done in Hamburg on:	01.08.2013	
Function of subscriber:	General Manager	
Name of signatory:	Philipp Baumberger	
	Signature	
<small>MAHLKÖNIG GmbH &amp; Co. KG, Amtsgericht Hamburg HR A 85 076, Persönlich haftende Gesellschafterin:            Beteiligungsgesellschaft MAHLKÖNIG mbH, Einzeltrager Amtsgericht Hamburg HR B 45 344,            Geschäftsführer: Nils Erichsen, Philipp Baumberger, Jochen Christoph            Dresdner Bank AG (BLZ 200 800 00) Kto. 383 780 400, Postbank Hamburg (BLZ 200 100 20) Kto. 253 89-203</small>		

## 11. Warranty Conditions

1. The warranty period is 1 year from the date of purchase.
2. The warranty covers all damages that can be attributed to inferior materials or defective workmanship. Corresponding grinders will be repaired or replaced free-of-charge, with the exception of transport or freight charges. Transport is the responsibility of the customer. Therefore, avoid damages with all returns by correct packing.
3. The grinder may only be opened for cleaning purposes in accordance with the Operating Instructions.
4. This warranty does not cover damages which have occurred through: Improper usage, improper maintenance, lack of servicing, usage for purposes other than those intended, incorrect installation, incorrect voltage, breakage, natural wear or for reasons beyond our sphere of influence.
5. In order to maintain the warranty, only original spare parts and accessory parts may be used.
6. Observe in addition our General Delivery Conditions in their respective current version.
7. The manufacturer is in no way liable for consecutive or secondary damages.
8. The warranty does not cover costs resulting from repairs conducted by non-authorized personnel.



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Subject to change without prior notice!!



The professional art of grinding  
since 1924