



KE 640

TYPE
Voltage
Serial no.

Your Service centre

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1 General

Dear Customer,

We congratulate and thank you for purchasing a DITTING quality product. These operating instructions have been prepared to simplify your use of the espresso coffee grinder. They contain information, advice and instructions for the best use of your unit.

1.1 Warranty information

ALTHOUGH YOUR COFFEE GRINDER IS DISTINGUISHED BY A HIGH QUALITY AND SAFETY STANDARD, DAMAGE TO MATERIAL OR RISK OF INJURY CANNOT BE EXCLUDED IF OPERATED INCORRECTLY, USED IMPROPERLY OR MISUSED.

THE OPERATING INSTRUCTIONS WILL THEREFORE FAMILIARISE YOU WITH CORRECT USE OF THE COFFEE GRINDER AND ASSIST YOU TO AVOID WRONG OPERATIONS. IF THE ENCLOSED INSTRUCTIONS ARE FOLLOWED EXACTLY, YOU WILL AVOID DANGERS, REDUCE REPAIR AND STOPPAGE TIMES AND INCREASE THE RELIABILITY AND SERVICE LIFE OF YOUR UNIT.

TO ENSURE THAT YOU AND YOUR EMPLOYEES TAKE NOTICE OF THE CONTENTS OF THE OPERATING INSTRUCTIONS AND FOR YOUR OWN SAFETY, WE WOULD ASK YOU TO COMPLETE THE TRANSFER DECLARATION PRINTED ON THE FOLLOWING PAGE, DETACH THIS ALONG THE PERFORATION AND RETURN IT TO YOUR DEALER.

1.2 Transfer declaration

To ensure transfer of the operating instructions to final consumers

Note: The following declaration should be completed by the dealer and the purchaser. The purchaser undertakes to return this declaration to the dealer. The purchaser thereby certifies that the dealer has drawn his attention to the contents of operating instructions no. 64428, in particular to the relevant safety instructions for use of the machine.



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Transfer declaration

(1) Type Machine no.

(2) Address of customer

(3) The machine specified in (1) was purchased by me. The complete operating instructions were handed to me with transfer of the machine.

Signature of customer Place / date

(4) Date of transfer

(5) Address of dealer/importer

Company stamp/signature

(6) The machine was handed to the customer in accordance with the guidelines of the manufacturer.

Company stamp/signature if not identical with (5)

Signature of customer service- Date
specialist

1.3 Safety instructions



The operating instructions must be kept permanently at the place of operation of the machine and if possible attached at the point of installation in the immediate vicinity of the machine.

The competent sales and service personnel must have read the operating instructions before putting the coffee grinder into operation and be familiar with all functions including action in the event of a fault.

If customers themselves operate the machine, a notice must be placed clearly visible in the immediate vicinity of the machine that customers must immediately call the service personnel responsible in the event of a fault and not try to eliminate the fault themselves by tampering with the machine.

The machine must be placed in the sales areas so that the sales personnel responsible can be reached by the customer without difficulty.

Only original spare-parts must be used for repairs to the grinder. If spare-parts from other manufacturers are used, the serviceability of the grinder may be impaired. In addition, further injury to persons or material damage cannot be excluded.

The grinder should be installed out of reach of children. Children and users must on no account reach into the openings or come into contact with electrical components.

Only original grinding discs sharpened by DITTING must be used.

Never reach into the hopper opening while the machine is running.

Never touch electrical components with conducting objects, such as needles, pins, cutlery, etc.

The emission value referred to the workplace is 75 dB(A).

The machine must be electrically protected by fuses according to the nameplate and the local regulations.



1.4 Information- and safety symbols

Two information symbols are used in these operating instructions to emphasise important comments in the text:



Information

This symbol indicates information containing important data concerning efficient use. Non-observance can lead to faults.



Safety

This symbol indicates information which if not observed can lead to danger to persons and/or substantial material damage. The safety instructions must be followed without fail.

1.5 Purpose

Only **roasted, whole espresso / coffee beans** are allowed to be ground using the "KE 640" coffee grinder you have purchased. It is important to make sure that only cleaned, unground coffee beans are used. Never use the grinding mechanism to grind other products or objects.

1.6 User requirements

No special requirements are specified for the users of this device. It is, however, assumed that these operating instructions have been carefully read and understood, and that all instructions provided in this manual will be observed. In addition, safety-conscious use of the device is also expected.

2 Technical specification

Type	KE 640	
	Alternating current	
Voltage/ frequency	230V – 240V	50 / 60 Hz
Revolutions	1350 rpm	
Pre-fuse (building)	16 A-slow	
Overload- circuit-breaker	4A T	
Grinding mechanism		
Dimensions in mm	H 554, W 234, D 325	
Weight	14 kg	
Capacity of the - Hopper	1,5 kg (coffee beans)	
Max. permissible Operating time	20 min. continuous operation	
Sound emission when Grinding coffee	Idling: 65 dB (A) Grinding: 75 dB (A)	

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

3 Description

3.1 Main components and operating elements

The main components and operating elements are shown in the figure.



4 Safety devices of the grinder

The motor of the grinder is protected by a thermal overload circuit breaker, which interrupts the motor's electric circuit in the event of electric overload. The trip switch, item 18, must be pressed to enable the grinder to be re-started.

The user has no influence whatsoever on this circuit breaker. If the circuit breaker trips repeatedly, an authorised service partner must be consulted, as the motor's winding may be damaged.

5 Set-up and basic adjustment



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

5.1 Usage / location

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



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

5.2 Installation

You have received your grinder in operating condition. Now you only need to connect it to the mains. Proceed as follows:



Protect your device with separate pre-fuses (not included in the scope of delivery) according to the information provided under Point 2 "Technical data"



Make sure that the pre-fuse is not overloaded by other devices (e.g. fan heaters, deep freezers). Check whether the mains voltage and frequency correspond to the information on the rating plate.

Insert the plug into the corresponding grounded outlet.

5.3 Basic adjustment

Once the device is ready to operate, a grinding test should be carried out.

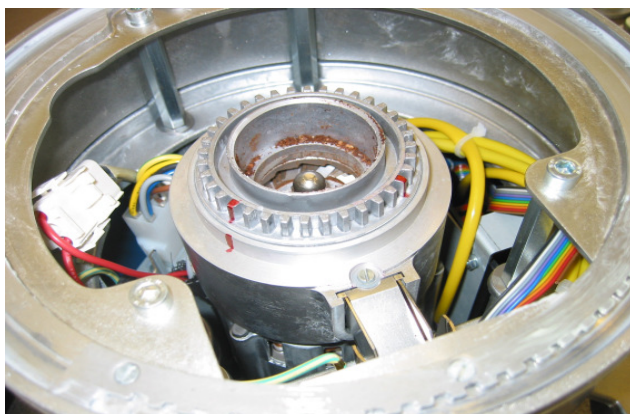
Basic adjustment to a moderately fine setting has been carried out in the factory using espresso beans. The following markings have been made on the grinding mechanism (interior):

Upper right red mark: Basic adjustment 0, finest setting and minimum grinding disc spacing

Upper left red mark: Basic factory setting and also the position for installing and removing the lid, in order to achieve the factory setting after positioning the lid

Never rotate the grinding discs clockwise beyond the red mark, as the grinding discs may otherwise be damaged.

Figure 1



Initial position when opening the grinder – upper left red mark is lining up with the lower red mark.

The upper right red mark will be in one line with the lower right red mark when closing the grinder.

6 Operation

Only use the KE 640 espresso grinder for roasted coffee beans.

Observe the safety instructions under 1.2

Never exceed the maximum permissible continuous operating period of running time 6 sec. on and 60 sec. off. Afterwards, allow the motor to cool off for approx. 30-40 minutes before switching the grinder on again.

6.1 Handling the grinder

Proper operation necessitates the steps described in the following:

- 6.1.1 Actuate the mains switch on the rear of the device. Set the grinding fineness e.g. to 2 ½. To do this, pull the sliding detent, item 4, out to the front and turn the lid / grinding fineness adjustment to the left to the 2 ½ mark

Rotation to the left = fine

Rotation to the right = coarse



Figure 2

- 6.1.2 Open the bean container. Pour whole, roasted espresso beans into the bean container from above. Never pour in coffee powder.
- 6.1.3 Check whether the hopper slide (item 10) is open.
- 6.1.4 Adjust the filter support rest (item 9) to your espresso machine's filter support. Proceed as follows: Switch the KE 640 espresso grinder off using the mains switch (item 17). Use the enclosed Allen key to loosen the fastening screws (item 13) slightly and adjust the height of the filter support rest.



If the enclosed filter support rest does not fit, please contact the manufacturer or your local dealer. We will be happy to send you a different rest.

- 6.1.5 Slide the filter support between the filter support mounting and the filter support rest until it comes to a stop. Push the filter support rest up and tighten the fastening screws. The setting is correct when the filter support independently remains in the mounting.
- 6.1.6 Check whether the factory grinding time settings for single shots S 2.0 and double shots D 4.0 appear in the display. If the display corresponds to the factory settings, continue as described in point 6; if this is not the case, the time must be set (see point 6.2.3.).
- 6.1.7 Setting the grinding time (portion quantity). Simultaneously press both buttons for approx. 3 sec.. MENU appears in the display. Scroll to menu option STI using the single button. Use the rotary knob, item 6, to set 2.0 sec. Scroll to menu option DTI using the single button. Use the rotary knob, item 9, to set 4.0 sec. To store these values, press both buttons simultaneously until SAVE appears in the display.
- 6.1.8 Adjust the grinding fineness by pulling the sliding detent (4) out to the front and turning the lid / grinding fineness adjustment to the 2 ½ mark. Note that "0" is the finest setting and "10" is the most coarse setting. A total of 19 settings are available.
- 6.1.9 Push your espresso machine's filter support into the filter support mounting, item 8, until the grinding process is switched on. Only remove the filter support once the grinding process has been completed. This process has to be repeated approximately twice until the grinder casing is filled with ground material.
- 6.1.10 Now make a test portion of espresso using your machine. If the result is unsatisfactory, repeat adjustment steps 6 to 8 again by varying the grinding time and grinding fineness. Carry out this process until the best coffee results have been reached.

6.2 Display / Menu

- 6.2.1 **Calling up the menu:** To call the menu up, simultaneously press both buttons for approx. 3 sec. MENU appears in the display. Scroll forwards using the single button. Scroll backwards using the double button.
- 6.2.2 **Grinding time setting:** The grinding time range for single cups may be set between 0.1 and 10 sec. Scroll to menu option STI (time for single cups) using the single button. Use the rotary knob, item 6, to set the time. Scroll to menu option DTI (time for double cups) using the single button. Use the rotary knob, item 13, to set the time.
- 6.2.3 Store grinding time or go to 6.2.4. To store these values, press both buttons simultaneously until SAVE appears in the display.
- 6.2.4 **Quantity indicator:** Scroll to menu option S using the single button. The display shows e.g. S 000020 – You have ground 20 single cup portions. Scroll to menu option D using the single button. The display shows e.g. D 00018 – You have ground 18 double cup portions.
- 6.2.5 **Continuous quantity indicator:** Scroll to menu option SC using the single button. The display shows e.g. SC 000127 – You have ground 127 single cup portions. If you wish to set the grinding time, proceed from point 6.2.3. If you would like to exit the menu, press both buttons simultaneously until SAVE appears in the display.
- 6.2.6 **Reset function:** If you wish to reset the quantity indicator, switch the grinder off at the mains switch. Press both buttons simultaneously and switch the mains switch on again. The quantity indicator is now set to 0.
- 6.2.7 **Interruption of grinding:** If the grinding process is interrupted before the set grinding time has expired, the light-emitting diode in the active pre-selection button flashes. The grinding process can be re-started by pushing the filter support back into the mounting. The missing quantity is ground into the filter support. If this is not desired, the pre-selection button can be activated and the entire set grinding quantity or grinding time is available once again.

7 Operating faults

Fault	Cause	Remedy
The grinder hums but does not grind.	The spout is clogged.	Set grinding fineness to "coarse" and trigger the grinding process. The grinder will then grind itself free. Afterwards, return the setting to the desired grinding fineness.
	Grinding is set too fine.	Turn the grinding fineness setting to the right, to "coarse", and trigger the grinding process. The grinder will then grind itself free. Afterwards, return the setting to the desired grinding fineness.
	A foreign object is in the grinding mechanism.	Clean the grinding mechanism as described and remove the foreign object. Observe the safety instructions!
The grinder does not start, the display is not lit.	The mains plug is not inserted.	Insert the mains plug into the socket.
	The overload circuit breaker has been tripped.	Check to determine whether the trip button of the circuit breaker has jumped out. Press the trip button in again if appropriate. If the circuit breaker trips repeatedly, contact your authorised customer service centre or dealer.
	The pre-fuse has tripped.	Check the pre-fuse. Restore the pre-fuse to its initial state or replace it. Determine whether other devices are connected to this fuse.
The grinder does not grind, the display is lit, single cup is pre-selected	The grinding time is set to 0.	Reset the grinding time.



In the case of other malfunctions or continued faults, please contact your dealer or your authorised customer service centre.

8 Cleaning



Always pull the mains plug from the socket before carrying out maintenance or cleaning work on the device!

Observe the safety instructions under 1.3!



Do not let any foreign objects fall into the grinding mechanism!

8.1 Cleaning the coffee bean container

Open the lid.

Wipe the coffee bean container on the inside and outside using just a damp cloth. Do not rinse.

For cleaning, use only cleaning agents approved for food product applications.

To dry, rub the container with a dry, lint-free cloth.

8.2 Cleaning the area around the grinder

Pull out the mains plug!!

Tilt the grinder to one side and clean the area on which it stands and the bottom of its base.

Both surfaces must be dry and free of oil and grease

Put the grinder in the initial position.

8.3 Cleaning the grinder casing

Clean the outside of the casing from time to time using a damp cloth..

Observe the safety instructions under 1.3!



Be careful of sharp edges when cleaning. There is a risk of injury

8.4 Monthly cleaning of the grinding mechanism



Always pull the mains plug from the socket before carrying out maintenance or cleaning work on the device!



Do not let any foreign objects fall into the grinding mechanism!

For cleaning, use only cleaning agents approved for food product applications.

8.4.1 Close the slide on the bean container. Remove the lock screw item 2. Make sure that all remaining beans below the slide are ground to empty the shaft holding/fixing the hopper. Turn the base of the bean container to the right so that the bayonet releases the bean container. Pull the bean container off upwards.

8.4.2 Lower the grinding fineness adjustment onto the intermediate ring and turn to the left. The sliding detent automatically engages in the coarsest setting. Pull the sliding detent out and adjust to the previous detent setting.

- 8.4.3 Pull the grinding fineness adjustment lid off upwards (see Figure 3).
- 8.4.4 Do not adjust the stationary disc flange (top flange)!
- 8.4.5 On assembly, ensure that the grinding fineness adjustment is positioned so that the three drive pins engage in the grinding disc carrier teeth. The grinding fineness adjustment guide screw must be positioned above the recess in the intermediate ring.

Figure 3



- 8.4.6 Lower the grinding fineness adjustment onto the intermediate ring and turn to the left. The sliding detent automatically engages in the coarsest setting. Pull the sliding detent out and adjust to the previous detent setting.
- 8.4.7 Carry out grinding (distribution of particle size) and brewing test (extraction time). If needed re-adjust the grinding adjustment.

9 Removal and installation of the integrated grinder



Always pull the mains plug from the socket before carrying out maintenance or cleaning work on the device!
Observe the safety instructions under 1.3



Do not let any foreign objects fall into the grinding mechanism

- 9.1.1 Disconnect the mains plug. Close and remove the bean container. Place the grinder on its side and unscrew the fastening screws. Store the screws and washers in a safe place. Reposition the grinder on its rubber feet. Proceed as described in 8.4 paragraphs 2 and 3.
- 9.1.2 Release the motor's plug-in connector. Carefully pull the integrated grinder out of the casing.
- 9.1.3 Carefully vacuum out the grinder casing. Vacuum out the grinder casing and the integrated grinder's spout, and clean with a brush. **Do not damage any cables!**
- 9.1.4 Component assembly is carried out in reverse order. To do this, please note 8.4 paragraphs 5 to 7.

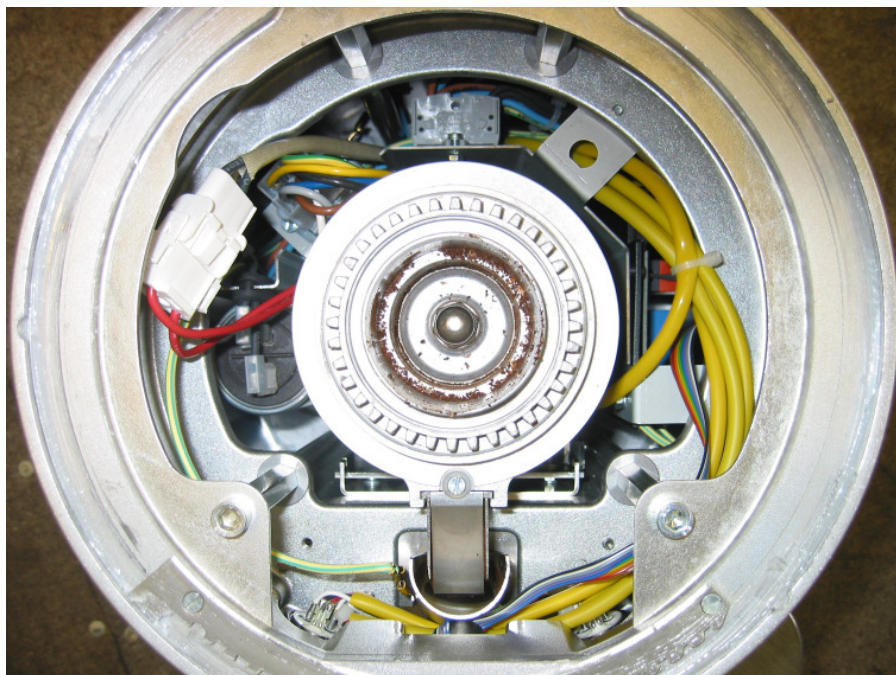


Figure 4

10 Maintenance and repair



Always pull the mains plug from the socket before carrying out maintenance or cleaning work on the device.



Check the device regularly for any signs of damage, particularly to the power supply cable, plug, finger protector, etc.



Any repairs that may be required are only allowed to be carried out by authorised experts. Please contact an authorised customer service centre or your local dealer.

10.1 Grinding disc replacement

10.1.1 Grinding disc replacement should only be carried out by authorised specialists or a customer service centre.

10.1.2 Grinding disc replacement may also be carried out using a replacement (AT) integrated grinder. To do this, order an (AT) integrated grinder. On receipt of the (AT) integrated grinder, remove your integrated grinder from the KE 640 according to section 9 and install the integrated grinder into the KE 640. Return your old integrated grinder in the packaging.

10.1.3 Grinding fineness adjustment with the grinder switched ON

10.1.4 Set the grinding fineness adjustment to the 0 detent.

10.1.5 Close and remove the bean container.

10.1.6 Remove the remaining beans from the filler shaft and vacuum out the grinder casing.

10.1.7 Remove the sealing ring from the filler shaft.

10.1.8 Loosen – **do not unscrew** – the adjusting screws with the size 2.5 Allen key.

10.1.9 Insert the adjusting handle into the filler shaft. The adjusting handle must engage in the slot in the filler shaft's transverse bar.

10.1.10 Insert the mains plug back into the socket and switch the grinder on.

10.1.11 Set the double portion grinding time to 10 sec. (see section 6.2 paragraph 3).

10.1.12 Hold the adjusting handle firmly and push the filter support into the filter support mounting until the grinder switches on.

10.1.13 Whilst the grinder is running, turn the adjusting handle to the left until a slight ringing sound becomes audible. Now turn the adjusting handle slightly to the right until no further ringing sound can be heard. Switch the mains switch off.



It is important to ensure that no grinding disk "rattling" can be heard at the finest setting! Their service life will otherwise be significantly reduced!!

- 10.1.14 Disconnect the mains plug from the socket.
- 10.1.15 Tighten the adjusting screws and remove the adjusting handle from the filler shaft.
- 10.1.16 Insert the sealing ring again. If the sealing ring is damaged, it must be replaced.
- 10.1.17 Replace the bean container and allow it to engage in the bayonet. Insert the lock screw (item 2). Open the hopper slide.
- 10.1.18 Insert the mains plug into the socket and switch the grinder on using the mains switch.
- 10.1.19 Reset the desired double portion grinding fineness and grinding time.
- 10.1.20 Push your espresso machine's filter support into the filter support mounting, item 8, until the grinding process is switched on.
- 10.1.21 Only remove the filter support once the grinding process has been completed. This process has to be repeated approximately twice until the grinder casing is filled with ground material.
- 10.1.22 Now make a test portion of espresso using your machine. If the result is unsatisfactory, repeat the adjustment steps as described in section 6.1, 6 to 8, by varying the grinding time and grinding fineness.

11 Spare parts

- 11.1.1 Spare parts are usually ordered from your customer service centre or your local dealer. To ensure a prompt and correct processing of your order, the following information is absolutely essential:
- 11.1.2 **Type designation, serial number and voltage of the grinder (on the rating plate on the rear of the grinder).**
- 11.1.3 **An exact description of the part(s) to be replaced and/or the number(s) of the article(s).**

12 Wiring diagram

Figure 5; 220 - 240V 50/60Hz

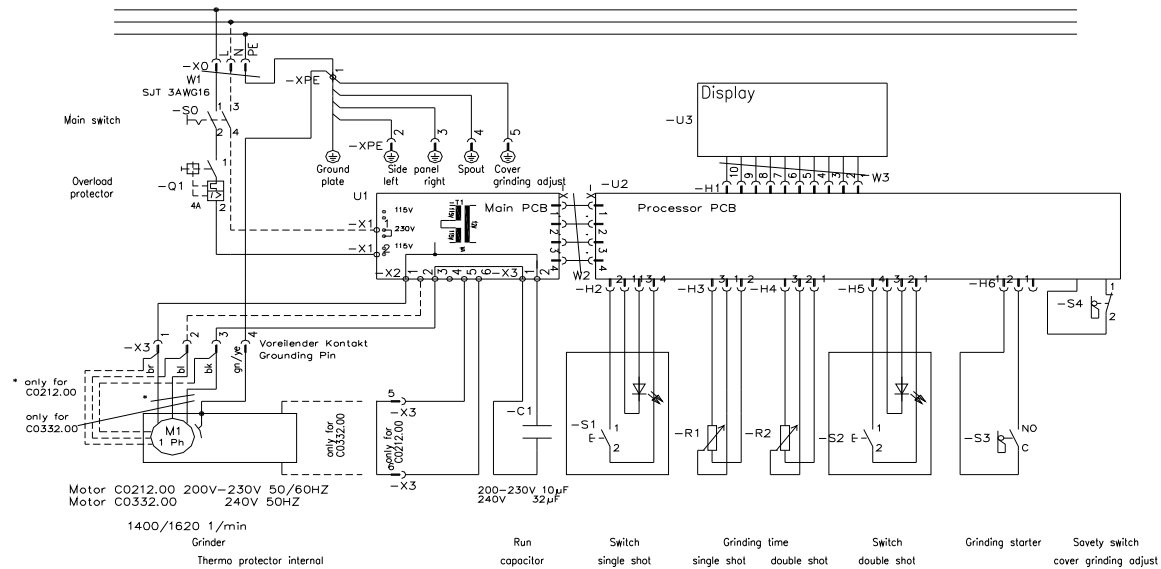


Figure 6; 110 – 115V 50/60Hz

