

Operating Instructions K501

„Easy, modular and fast“



The professional art of grinding
since 1924



Dear Customer,

with the “K501“ you have purchased a grinder in the well-known MAHLKÖNIG quality.

Our over 80 years of experience in the production and development of grinders have helped us to develop a new product in the MAHLKÖNIG company.

As usual, this product guarantees top-quality by grinding of all types of coffee.

Before putting the device into service, please read these operating instructions including the safety instructions carefully and observe them at all times. Also instruct your personnel accordingly.

Enclosed you will find many useful tips that will make it easier for you to use the grinder. Keep these operating instructions in a safe, easily accessible location. In case of any unclear points or additionally required information, please contact your local dealer or us directly as the manufacturer.

We wish you unlimited pleasure and success with our product.

MAHLKÖNIG GmbH & Co. KG

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1. Safety



Please read and observe the following operating instructions carefully. Non-observance can result in damage to the device as well as in health-threatening risks for the user.

1.1 Symbols

The following two symbols are used in this manual of operating instructions:



Safety instruction:

In case of non-observance, extreme risk of accidents exists.



General instruction:

In case of non-observance, the device can become damaged or optimum operation not be guaranteed.

1.2 Safety Instructions

Never use the grinding mechanism to grind other products or objects than coffee beans. Ground material is never allowed to be filled into the hopper.

Do not carry out any modifications or changes on the grinder. In case of non-observance, the manufacturer shall be liable for resulting damage in no case whatsoever.

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

Never put your fingers or objects into the rotating grinding mechanism underneath the hopper.

Always pull the power supply plug out of the outlet before carrying out any maintenance or cleaning work on the device. Never start the grinder with a defective power supply cable.

Check the grinder regularly for any signs of damage on the power supply cable, plug, finger protector, etc. Any repairs that may be required are only allowed to be carried out by experts. Please contact an authorized customer service centre, your local dealer or us directly as the manufacturer.

Do not exceed the permissible maximum operating period of 40 minutes. Afterwards, allow the motor to cool down for approx. 30–40 minutes.

When unpacking the device, please check to determine whether the power supply voltage (volts) corresponds to the device voltage on the rating plate.

Children do not recognize the risks that may arise when handling electrical devices; therefore never leave children alone with electrical devices without proper supervision.



Never immerse the grinder in water and do not operate it with wet hands.

1.3 Purpose of Use

The grinder you have purchased is only allowed to be used to grind whole coffee beans. Never fill already ground coffee into the hopper.

1.4 User Requirements

No special requirements are specified for the users of this grinder. It is, however, assumed that this manual of operating instructions has been carefully read and understood and that all instructions provided in this manual will be observed. In addition, working with the device on a safety-conscious basis is also expected.

2. Technical Data

Description	K 501, K 501T
Voltage / Frequency	220-230V / 50Hz
Phases	110-120V / 60Hz
Rotation	
@ 50 Hz	1400 rpm
@ 60 Hz	1680 rpm
Pre-fuse	
230V	16 A-slow
115V	15 A-slow
Overload circuit breaker	
230V	11 A
115V	12 A
Sound Emission	
Idle Operation	65 dB
Operation	85 dB
Permissible max. Operating time of the Grinder	40 min.
Dimensions in mm	W 244, H 664, D 325
Net Weight	36 kg / 79.4 lbs.
Hopper Capacity	0,5 or 1,5 kg / (1.1 or 3.3 lbs.)

(Please ask the manufacturer or dealer for technical data on other voltages and frequencies.)

3. Description

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

- Pos. 1 Lid with abbreviated instructions
- Pos. 2 Hopper
- Pos. 3 Grind Adjustment Knob
- Pos. 4 Key plate with grind adjustment scale
- Pos. 5 Dual-purpose lever (Start/Stop and bagholder)
- Pos. 6 Spout
- Pos. 7 Vibrating sheet
- Pos. 8 Housing with motor and grinding gears
- Pos. 9 Reset button (back of the base)
- Pos. 10 Electronic components in the base



4. Safety Devices

Thermal overload circuit breaker

The motor of the grinder is protected by an overload circuit breaker, which interrupts the electric circuit of the motor when the device is subjected to electric overloading. To be able to re-start the grinder, the reset button at the back of the casing must be pressed (Pos.9).



The user has no influence whatsoever on this operation. In case of repeated tripping of the circuit breaker, contact a service partner since this could cause damage to the motor winding.

Finger protector / Magnet holder

A combined finger protector / magnet holder is fitted in the hopper of the grinder. It is supposed to prevent the user from reaching into the running grinding mechanism. At the same time, it also prevents ferrous foreign objects from getting into the grinding mechanism. Every now and then clean the magnet since adhering foreign objects could block the coffee supply.

Magnet Switch

The key plate with the grind adjustment scale (Pos. 4) is secured by a magnetic switch. Once that key plate is removed the grinder cannot be started anymore.



Never remove the finger protection!

5. Set-up and Basic Adjustment

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

5.1 Setting-up Area

Place the grinder on a level surface free of vibration.



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 a power supply system. Proceed as follows:



Protect your device with a separate pre-fuse (not included in the scope of supplies) according to the information provided under 2. Technical data.



Make sure that the pre-fuse is not overloaded by other consuming devices (e.g. fan forced heaters, deep freezers).



Determine whether the mains voltage and frequency correspond to the information on the rating plate.

Insert the plug into the available grounded outlet.

5.3 Basic setting

1. A grinding test can be conducted when the grinder is ready for operation.
2. The basic setting has been set in the factory and the grinding degree is already set to the finest grind.



For this reason make no alterations, as this could lead to damage of the grinding discs.

6. Operation

Use the K 501 grinder only in accordance with the instructions listed under 1.3.



Never place fingers or objects into the grinding gears!



Never exceed the maximum allowable operating time of 40 minutes. Afterwards, allow the motor to cool off for around 30-40 minutes prior to switching the grinder on again.

Proper operation requires the steps described as follows. When you have carefully read these operating instructions, you can refer to the abbreviated instructions located in the grinder lid in the future.

1. Adjust the hopper with the grind adjustment knob (Pos. 3) to the desired grinding degree. There are 15 positions available

Turn left = fine
Turn right = coarse



2. Open the hopper, observing that the hinge is completely locked into place. Pour roasted coffee beans into the hopper. Never pour in coffee powder.
3. Completely open the coffee bag, smooth out the fold creases and pull it over the spout.
4. Fix the bag with the dual-purpose lever (Pos. 5) by pushing the lever down. The grinder now begins the grinding process.
5. After the grinding process is completed release the dual-purpose lever by pushing it up. This simultaneously switches off the grinder.
6. Remove the bag now filled with ground coffee from the spout.

7. Operating Faults

Defect	Cause	Remedy
The grinder hums but does not grind.	The spout is clogged.	Set grinding fineness to „coarse“ and start 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!

Defect	Cause	Remedy
The grinder does not start.	The power supply plug is not inserted.	Insert the plug into the outlet.
	The overload circuit breaker has been tripped.	Check whether the reset button of the circuit breaker has jumped out. Press the reset button in again if appropriate. In case of repeated tripping of the circuit breaker, contact your authorised customer service centre or dealer.
	The pre-fuse was tripped.	Check the pre-fuse. Restore the pre-fuse to its initial state or replace it. Determine whether other consuming devices are also connected to this fuse.

Defect	Cause	Remedy
Grinder rotates but without grinding.	Incorrect sense of rotation.	Have the polarity checked by specialised personnel.
	Foreign particles hanging from the hopper magnet are blocking the input of coffee beans.	Clean the hopper magnet. Do not let any object fall into the grinding discs.
The vibrating plate rattles.	The shaker rod is bent or outworn.	Turn the shaker rod by 180°. If this does not improve the noise, exchange the shaker rod by dismantling the vibrating plate and pulling out the rod.
The keyplate does not slide in above the spout.	The spout is not properly mounted.	Grasp the spout from below and pull it firmly into the correct position

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

8. Cleaning



Always pull the power supply plug out of the outlet before carrying out any maintenance or cleaning work on the device! Observe the safety instructions under 1.2!



Avoid allowing foreign objects to fall into the grinding gears!

8.1 Cleaning with GRINDZ™ Grinder Cleaner

We recommend cleaning your shop grinder once a month with our GRINDZ™ Grinder Cleaner.

Simply take the recommended dose of 70 - 80g and drop it into the empty grinder hopper (2 caps of the jar / 2 sachets).

Adjust the grind setting to coarse and operate as if grinding coffee beans. Once complete, we recommend passing twice as much coffee through to purge any residue.

8.2 Cleaning the Hopper

1. Open the lid.
2. Clean the hopper interior and exterior with a damp cloth only. Do not rinse. For cleaning, only use cleaning agents approved for food product applications.
3. To dry, rub the hopper with a dry, non-fluffy cloth.

8.3 Cleaning the Grinder Surface Area

1. Pull out the electrical plug!
2. Tip the grinder to the side and clean the placement surface area and the bottom of the case.
3. Both surfaces must be dry and oil-and-fat-free.
4. Replace the grinder on its base.

8.4 Cleaning the Grinder Housing

1. Clean the housing and shaker externally from time to time with a cloth.
2. Observe the safety instructions under 1.2!



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

9. Maintenance and Repair



Always pull the power supply plug out of the outlet before carrying out any maintenance or cleaning work on the device!



Check the device regularly for any signs of damage on the power supply cable, plug, finger protector, etc. Any repairs that may be required are only allowed to be carried out by authorized experts. Please contact an authorized customer service centre or your local dealer.

9.1 Cleaning of the Grinding Gears



Always remove the electrical plug from the outlet before conducting cleaning or repair work on the appliance!



Avoid allowing foreign objects to fall into the grinding gears!



Never reach into the rotating grinder discs with the fingers or other objects!

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

1. Pull the key plate with grind adjustment scale (Pos. 4) off the grinder towards the front. Now the grinder blocked.
2. Dismantle the spout by pushing it up and pulling it towards you off the grinder body.



3. Turn the hopper/grind adjustment knob to fine and with some more pressure further to the left until the grinder casing cover is released.
4. Lift off the hopper together with the grinder casing cover.

Make sure that you do not change the position of the movable components within the upper part.



5. For cleaning the disc casing use a brush or a vacuum cleaner. Make sure to remove all foreign objects from the discs.
6. Replace the cover/hopper on the grinder casing and relock it by turning it to the right until the insert for the spout is facing to the front.



Make sure all surfaces touching each other are completely free of coffee or other particles. If the discs do not lie plane, the grind adjustment will be misaligned.

7. Reassemble the spout. Push the two pins into the holes of the disc casing cover and push it against the grinder body. Pull it down into place. Reinsert the key plate.

9.2 Grinding Disc Replacement



Always remove the electrical plug from the outlet before conducting cleaning or repair work on the appliance!



Avoid allowing foreign objects to fall into the grinding gears!

1. Loosen the grind adjustment knob (Pos. 3) with a 8 mm jaw wrench and pull off the whole hopper to the top.



2. Pull the key plate with grind adjustment scale (Pos. 4) off the grinder towards the front. Now the grinder is blocked.
3. Disassemble the spout by pushing it up and pulling it towards you off the grinder body. (see 9.1)
4. The complete upper part of the disc casing can now be turned to the left manually and taken off the grinder.



5. In the upper part of the disc casing, unscrew the cover component to release the disc with the circular spring.



6. Place the new disc making sure the pin of the casing fits into the gap in the disc. Screw back in the cover.



Make sure all surfaces touching each other are completely free of coffee or other particles. If the discs do not lie plane, the grind adjustment will be misaligned.



Do not screw the cover back in all the way. That might damage the discs when touching each other after reassembly. The fine-adjustment is done in the end (see chapter 9.3).

7. For the rotary disc in the lower part of the casing place the service tool on top. It locks in with the three eccentrics. Use the disc key to loosen the thumb screw in the middle.



Take off the old disc.



When fitting the new disc, make sure that the disc carrier is completely clean. If the discs do not run plane, the grind adjustment will be misaligned.

8. Tighten the thumb screw with the special disc key again.
9. Replace the cover of the grinder casing and re-lock it by turning it to the right until the insert for the spout is facing to the front.



10. If the disc casing does not sit tightly after reassembly, readjust the eccentrics by slightly loosening and tightening them again carefully with a screwdriver. They tighten automatically when screwed back on.



11. Reassemble the spout. Push the two pins into the holes of the disc casing cover and push it against the grinder body. Pull it down into place. Reinsert the key plate.

12. Put back on the hopper, turn the grind adjustment to fine and re-tighten the knob with the black ball.
13. For the readjustment of the fineness, follow the instructions in chapter 9.3.



Do not start the grinder before re-adjusting the fineness. The discs might get damaged.

9.3 Re-adjusting the Grinding Fineness

The grinder has been precisely adjusted by the manufacturer. However, if the ground coffee is no longer fine enough after a longer period, the grinder must then be re-adjusted according to the following procedure:

1. Turn the hopper to the finest setting.
2. Use the 8 mm jaw wrench to loosen the grind adjustment knob behind the black ball (Pos. 3).
3. Turn the hopper towards coarse, setting „4“.
4. Now tighten the grind adjustment knob again (manually).
5. Switch on the grinder.
6. Very slowly and carefully turn the hopper to the left towards fine until you feel some resistance and you hear the discs touch (rattling noise). If you can go all the way to „1“ repeat the process by loosening the screw again, turn to „4“, tighten the screw and move back slowly towards „1“.

7. Turn back the hopper one number towards coarse. For coffee grinder Type K 501T (Turkish coffee) turn the hopper back half a number.



It is important that you cannot hear a “rattling” noise of the grinding discs in standard operation! Otherwise the service life of the grinding discs is considerably reduced!

8. Loosen the grind adjustment knob again.
9. Carefully turn the hopper back to “1“. The rattling noise should not occur again.

If the discs touch again when turning the hopper back to „1“, loosen the grind adjustment knob further and slightly lift the hopper when going back to the finest setting. The discs should not touch each other at the finest setting!



10. Tighten the grind adjustment knob again and fix it with the 8mm jaw wrench, so it cannot be loosened manually.
11. Now check the correct setting by turning the hopper from position “1“ to position “8“ several times. The rattling noise must not occur again.
12. Switch off the grinder
13. The coffee grinder is now ready for use again and set to the finest degree of grinding.

10. Spare Parts

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

1. Type designation and serial number of the grinder (on the rating plate on the rear side of the grinder).
2. Color of the grinder

11. 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:		
product type:	device for food processing	
machine description:	Coffee grinder	
machine typ:	K501	
is in compliance with the following directives and regulations:		
• The provisions of the Machinery Directive	2006/42/EG	
• The Low Voltage Directive	73/23/EWG	
• The EC Electromagnetic Compatibility Directive	2004/108/EG	
• The Directive on the restriction of use of certain hazardous substances in electrical and electronic equipment	2011/65/EU	
• The EU chemicals regulation (REACH – Regulation)	(EG) Nr. 1907/2006	
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 & Co. KG, Amtsgericht Hamburg HR A 85 074, Persönlich haftende Gesellschafterin: Beteiligungsgesellschaft MAHLKÖNIG mbH, Eingetragenes Amtsgericht Hamburg HR B 45 324, 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>		

12. 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 emerging from repairs conducted by non-authorized personnel.



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Subject to change without prior notice!!



The professional art of grinding
since 1924