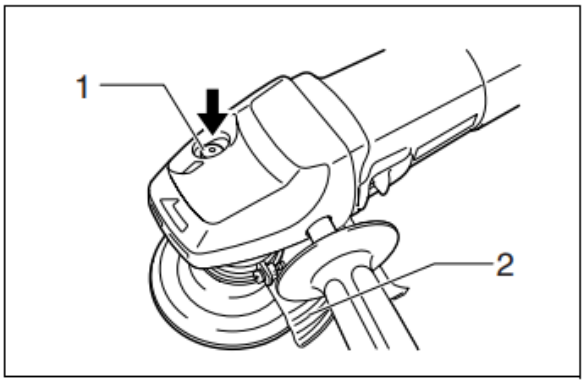
Makita Wet Stone Polisher PW5000C

Stone and concrete polisher capable of creating a smooth, high gloss surface on a wide range of surfaces including marble, granite, terrazzo and stone. The machine features a constant speed under load, as well as an adjustable speed range of 2000 – 4000, allowing for optimum speed to be set depending on the type of stone to be sanded. Three water supply holes evenly wet every channel of the polishing pad which reduces the amount of air born dust, therefore helping prevent the pad from getting too hot.

User Benefits

- Soft start feature
- Variable speed
- Double insulation for added safety
- Ergonomically designed handle

Machine Specifications	
Spindle thread	M14
Pad Diameter	125 mm
Rated speed (n) / No load speed	4400 min-1
Overall Length	313 mm
Vibration emission (stone polishing)	5.0 m/s²
Sound Pressure Level	85 dB(A)
Sound Power Level	96 dB(A)
Net Weight	2.3 kg



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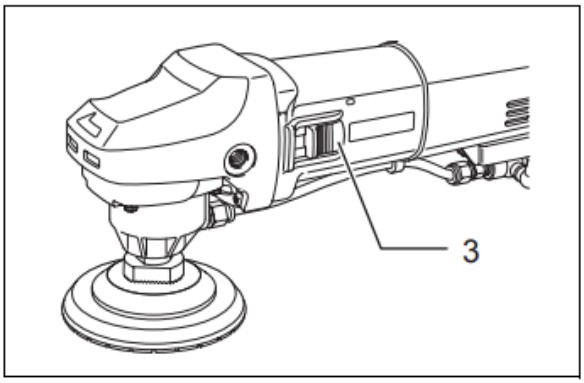

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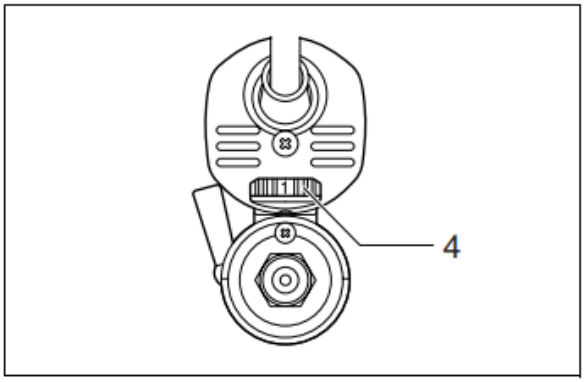

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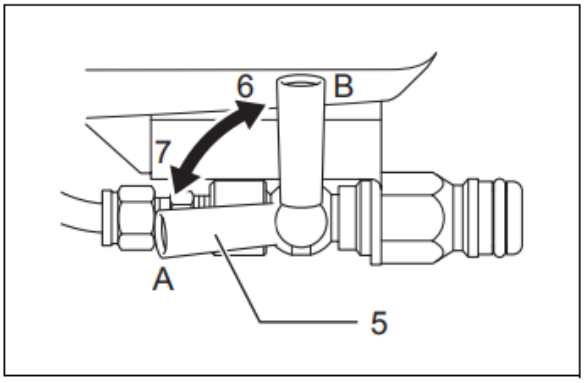

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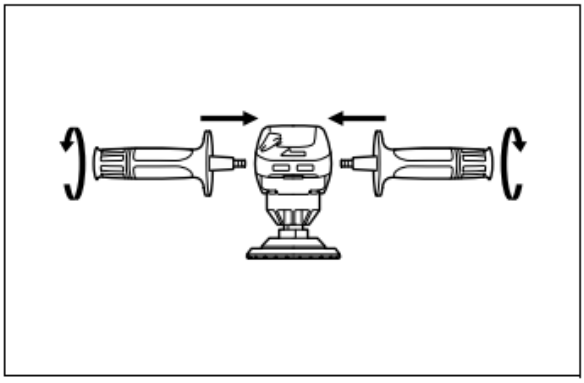

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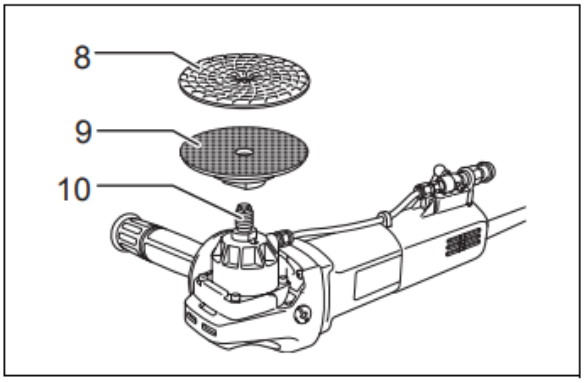

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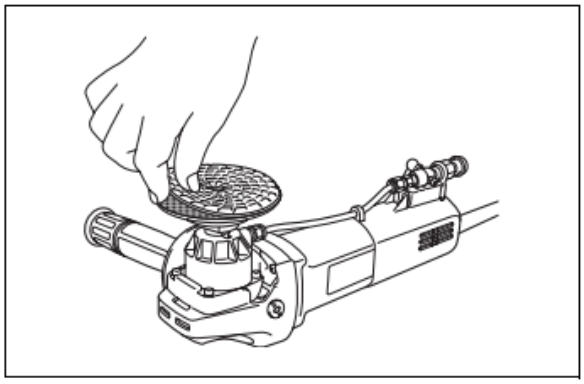

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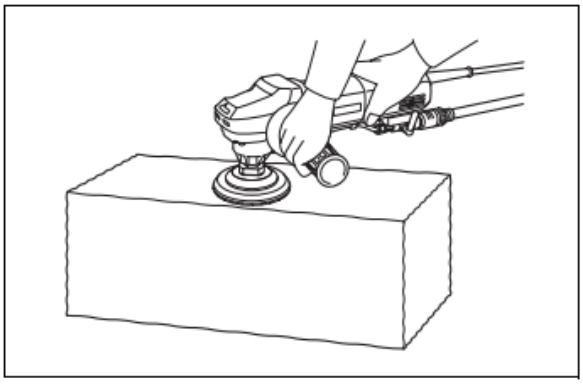

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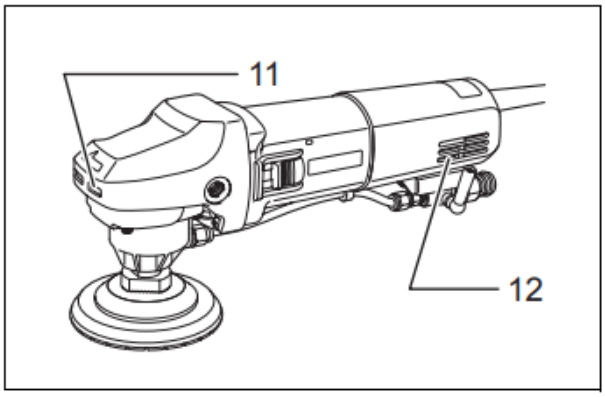

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ENGLISH (Original instructions)

Explanation of general view

1	Shaft lock	5	Lever	9	Pad
2	Cover	6	Close	10	Spindle
3	Slide switch	7	Open	11	Exhaust vent
4	Speed adjusting dial	8	Abrasive disc	12	Inhalation vent

ENE057-1

Intended use
The tool is intended for surface work with natural stone.

ENF002-2

Power supply
The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

GEA010-1

General Power Tool Safety Warnings

⚠**WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

GEB052-4

STONE POLISHER SAFETY WARNINGS

Safety Warnings Common for Polishing Operation:

1. **This power tool is intended to function as a polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
2. **Operations such as grinding, sanding, wire brushing or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
3. **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
4. **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
5. **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
6. **Threaded mounting of accessories must match the tool spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
7. **Do not use a damaged accessory. Before each use inspect the accessory such as backing pad for cracks, tear or excess wear. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
8. **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
9. **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
10. **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
11. **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.

12. **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
13. **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
14. **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

Kickback and Related Warnings:

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
b) **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
c) **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
d) **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
e) **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

Safety Warnings Specific for Stone Polishing Operations:

a) **Do not use excessively oversized abrasive disc. Follow manufacturers recommendations, when selecting abrasive disc.** Larger abrasive disc extending beyond the pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

Additional Safety Warnings:

15. **Make sure the abrasive disc is not contacting the workpiece before the switch is turned on.**
16. **Do not leave the tool running. Operate the tool only when hand-held.**
17. **Check that the workpiece is properly supported.**
18. **Pay attention that the wheel continues to rotate after the tool is switched off.**
19. **Do not use the tool on any materials containing asbestos.**

SAVE THESE INSTRUCTIONS.

WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Important Notes about Mains Connection for 110 Volts, 50 – 60 Hz

Caution:

Read and observe these precautions before using the tool. Non-observance of these precautions may lead to personal injuries and damage to the tool!

The tool was built according to the European Standards EN60745-1 (safety of hand-held, motor-driven power tools; here in particular section of power tools with water connection) and EN60309-2 (plugs, receptacles and couplings for industrial applications). When applying these standards, the earth contact position of the plug-in device may only be carried out in "12 o'clock position".

The tool has a plug-in device with a "12 o'clock" earth contact position.

However, since the European Standard EN60309-2 does not provide a differentiation regarding the supply voltage and this earth contact position, there is the possibility to confuse the connection to an isolating transformer with another output voltage (e.g. 230 V). When connecting the tool to an isolating transformer, make absolutely sure to use the correct output voltage (110 V, 50 – 60 Hz).

This tool is designed exclusively for connection to an isolating transformer with an output voltage of 110 V. Due to its use in wet conditions (water connection on the tool), this tool must never be connected to a power supply without an isolating transformer.

Damages caused by inappropriate tampering with the plug-in device are not subject to warranty or legal guarantee claims.

Contact your specialist supplier for an isolating transformer suitable for your tool.

FUNCTIONAL DESCRIPTION

CAUTION:
- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Shaft lock (Fig. 1)

CAUTION:
- Never actuate the shaft lock when the spindle is moving. The tool may be damaged.

Press the shaft lock to prevent spindle rotation when installing or removing accessories.

Switch action (Fig. 2)

CAUTION:
- Before plugging in the tool, always check to see that the slide switch actuates properly and returns to the "OFF" position when the rear of the slide switch is depressed.
- Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

To start the tool, slide the slide switch toward the "I (ON)" position. For continuous operation, press the front of the slide switch to lock it.
To stop the tool, press the rear of the slide switch, then slide it toward the "O (OFF)" position.

Speed adjusting dial (Fig. 3)

The rotating speed can be changed by turning the speed adjusting dial to a given number setting from 1 to 5.
Higher speed is obtained when the dial is turned in the direction of number 5. And lower speed is obtained when it is turned in the direction of number 1.
Refer to the below table for the relationship between the number settings on the dial and the approximate rotating speed.

Number	RPM (/min)
1	2,000
2	2,500
3	3,000
4	3,500
5	4,400

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CAUTION:
- If the tool is operated continuously at low speeds for a long time, the motor will get overloaded and heated up.
- The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

Electronic function

Electronic constant speed control
Possible to get fine finish, because the rotating speed is kept constant even under the loaded condition.

Soft start feature
Soft start because of suppressed starting shock.

Overload protector
When the tool would be employed over the admissible load, it will stop automatically to protect the motor and wheel. When the load will come to the admissible level again, the tool can be started automatically.

Opening or closing of water lever (Fig. 4)

To keep the lever on the tool for water flow open, turn it to the position A where the water passage will be ready. Return it to the position B to close.

ASSEMBLY

CAUTION:
- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

Installing side grip (handle)

CAUTION:
- Always be sure that the side grip is installed securely before operation.

Screw the side grip securely on the position of the tool as shown in the figure. **(Fig. 5)**

Installing or removing abrasive disc (Fig. 6 & 7)

Remove all dirt or foreign matter from the pad.
Screw the pad onto the spindle with pressing the shaft lock.
Attach the disc to the pad so carefully that the edges of disc and pad overlap each other without protruding.
To remove the abrasive disc, pull off its edge from the pad.

OPERATION

Polishing operation (Fig. 8)

WARNING:
- To reduce the risk of electric shock, check the tool's water supply system to ensure there is no damage to the seals ("o" rings) or hoses. A damaged water supply system may result in abnormal water flow to the tool, which could be dangerous.

CAUTION:
- Always wear safety goggles or a face shield during operation.
- Never switch on the tool when it is in contact with the workpiece, it may cause an injury to operator.
- Never run the tool without the abrasive disc. You may seriously damage the pad.
- Be sure to feed water to the abrasive disc during operation. Failure to do so may cause breakage to the tool.
- The maximum permitted pressure of water supply is 7 bar.

Make sure that the cock is closed. Connect the hose to the tool. Make sure that water comes out when the water lever is opened.

Hold the tool firmly. Turn the tool on and then apply the abrasive disc to the workpiece.
Apply slight pressure only. Excessive pressure will result in poor performance and premature wear to abrasive disc.

MAINTENANCE

CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

The tool and its air vents have to be kept clean. Regularly clean the tool's air vents or whenever the vents start to become obstructed. **(Fig. 9)**

To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

OPTIONAL ACCESSORIES

CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Abrasive discs
- Side grip
- Dust cover set

NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

ENG905-1

Noise

The typical A-weighted noise level determined according to EN60745:

Sound pressure level (L_{pA}): 85 dB (A)
Sound power level (L_{WA}): 96 dB (A)
Uncertainty (K): 3 dB (A)

Wear ear protection

ENG900-1

Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

Work mode: stone polishing
Vibration emission ($a_{h,P}$): 5.0 m/s^2
Uncertainty (K): 1.5 m/s^2

ENG902-1

- The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.
- The declared vibration emission value may also be used in a preliminary assessment of exposure.
- The declared vibration emission value is used for main applications of the power tool. However if the power tool is used for other applications, the vibration emission value may be different.

WARNING:

- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.
- Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

ENH101-16

For European countries only

EC Declaration of Conformity

We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):

Designation of Machine:
Stone Polisher
Model No./ Type: PW5000C, PW5000CH
are of series production and
Conforms to the following European Directives:
2006/42/EC
And are manufactured in accordance with the following standards or standardised documents:
EN60745
The technical documentation is kept by:
Makita International Europe Ltd.
Technical Department,
Michigan Drive, Tongwell,
Milton Keynes, Bucks MK15 8JD, England

30.1.2009

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