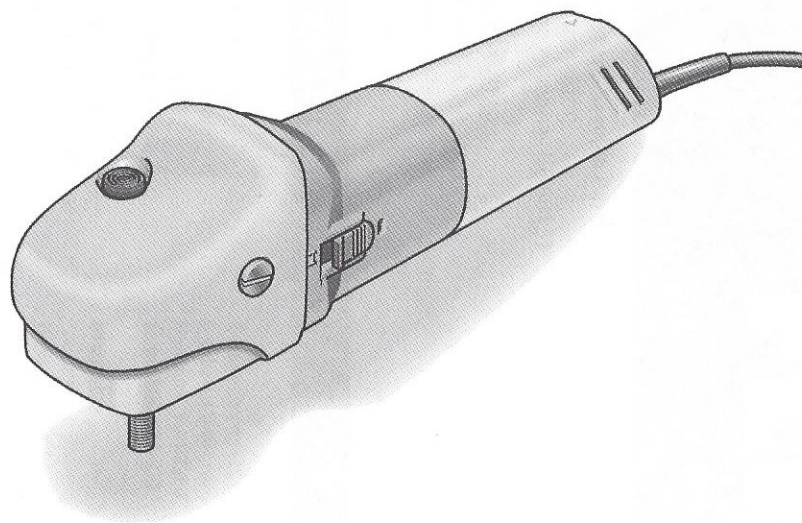


FLEX

PE 8-4 80



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Symbols used in this manual



WARNING!

Denotes impending danger.
Non-observance of this warning may result in death or extremely severe injuries.



CAUTION!

Denotes a possibly dangerous situation.
Non-observance of this warning may result in slight injury or damage to property.



NOTE

Denotes application tips and important information.

Symbols on the power tool



Before switching on the power tool, read the operating manual!



Wear goggles!



Double insulation for safer operation (see page 7)!

V volts

~ alternating current

Hz hertz

A amperes

n maximum speed

n₀ no load speed

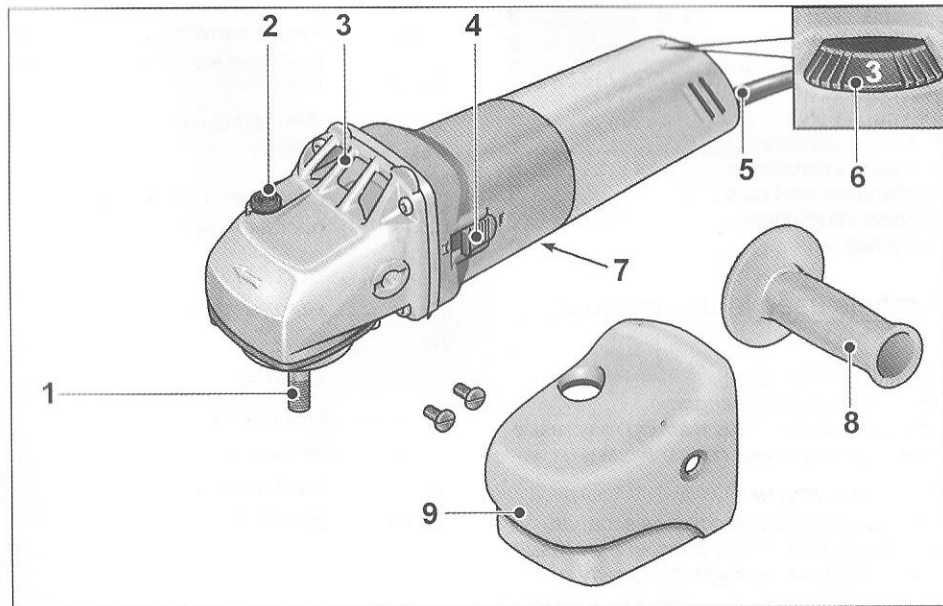
/min revolutions per minute

D.max maximum tool diameter

Technical specifications

Machine type		Polisher PE 8-4 80
Tool Ø max.	mm/in	80/3
Speed	r.p.m.	1300–3900
Power input	A	7.0
Weight (without power cord)	kg	1.9
Protection class	II /	

Overview



- | | | | |
|---|---|---|---------------------------------|
| 1 | Spindle | 5 | 4.0 m power cord with plug |
| 2 | Spindle lock
Secures the spindle while the tool is changed. | 6 | Dial for preselecting the speed |
| 3 | Gear head
With air outlet and direction-of-rotation arrow. | 7 | Rating plate |
| 4 | Switch rocker
For switching on and off.
With notched position for continuous operation. | 8 | Side handle |
| | | 9 | Handle cover |

For your safety



WARNING!

Before using the polisher, please read and follow:

- these operating instructions,
- the "General safety instructions" on the handling of power tools in the enclosed booklet (leaflet no.: 315.915),
- the currently valid site rules and the regulations for the prevention of accidents.

This polisher is state-of-the-art and has been constructed in accordance with the acknowledged safety regulations. Nevertheless, when in use, the power tool may be a danger to life and limb of the user or a third party, or the power tool or other property may be damaged. The polisher may be used only

- used as intended,
- in perfect working order.

Faults which impair safety must be repaired immediately.

Intended use

This polisher is designed

- for commercial use in industry and trade,
- for all types of polishing work with polishing sponges, lambskins and woolskins, felt plate, buffing disc
- for use with polishing tools which are permitted to run at a speed of at least 3900 r.p.m.

Safety instructions for polishing



WARNING!

Read all safety instructions and other instructions. Failure to observe the safety instructions and other instructions may result in an electric shock, fire and/or serious injuries. Keep all safety instructions and other instructions in a safe place for the future.

- This electric power tool must be used as a polisher. Observe all safety information, instructions, diagrams and data which you receive with the power tool. If you do not observe the following instructions, an electric shock, fire and/or serious injuries may occur.
- This electric power tool is not suitable for grinding, sanding, for use with wire brushes or for cut-off grinding. If the electric power tool is not used as intended, the user may be exposed to hazards and may be injured.
- Never use accessories which the manufacturer did not intend or recommend especially for this electric power tool. Just because you can attach the accessory to your electric power tool does not guarantee safe use.
- The permitted speed of the insertion tool must be at least as high as the maximum speed indicated on the electric power tool. An accessory which rotates faster than permitted may shatter and fly off.
- Outer diameter and thickness of the insertion tool must correspond to the dimensions of the electric power tool. Incorrectly measured insertion tools cannot be adequately shielded or controlled.
- Flanges or other accessories must fit exactly on the spindle of your electric power tool. Insertion tools, which do not fit exactly on the spindle of the electric power tool, rotate unevenly, vibrate violently and may result in loss of control.
- Do not use any damaged insertion tools. Before use, always check the insertion tools for splinters and cracks. If the electric power tool or the insertion tool is dropped, check for damage or use an undamaged insertion tool. When you have checked and inserted the tool, ensure that you and anybody in the vicinity remain outside the plane of the rotating insertion tool and leave the power tool running for one minute at maximum speed. Damaged insertion tools usually break during this test time.

- Wear personal protective equipment. Depending on the application, wear full face protection, eye protection or goggles. If appropriate, wear a dust mask, hearing protection, protective gloves and/or a special apron which protect you from small material particles. You should protect your eyes from foreign objects which are ejected for different applications. Dust and respirator masks must filter the dust which is generated by the power tool for the particular application. If you are exposed to loud noise for a prolonged period, you may suffer hearing loss.
- Ensure that other persons are situated at a safe distance from the work area. Anyone who enters the work area must wear personal protective equipment. Fragments of the workpiece or broken insertion tools may fly off and cause injuries even outside the direct working area.
- If the insertion tool is at risk of coming into contact with concealed power cables or the power cord itself, hold the power tool by the insulated grip surfaces only. Contact with a live cable may also cause metal parts of the appliance to become live and result in an electric shock.
- Keep the power cord away from rotating insertion tools. If you lose control of the appliance, the power cord could be severed or become caught and your hand or arm may strike the rotating insertion tool.
- Never put down the electric power tool until the insertion tool has come to a standstill. The rotating insertion tool may come into contact with the support surface, possibly resulting in you losing control of the electric power tool.
- Never leave the electric power tool running while you are carrying it. Your clothing may become caught by accidental contact with the rotating insertion tool which may then drill into your body.
- Regularly clean the ventilation slots on your electric power tool. The motor fan draws dust into the housing; a large build-up of metal dust may cause electrical hazards.
- Never use the electric power tool near combustible materials. Sparks may ignite these materials.

- Never use insertion tools which require liquid coolants. The use of water or other liquid coolants may result in electric shock.
- Do not allow any loose parts of the polishing hood, in particular fixing cords. Stow or shorten the fixing cords. Loose, entrained fixing cords may trap your fingers or become entangled in the workpiece.


Recoil and appropriate safety instructions

Recoil is the sudden reaction caused by a rotating insertion tool which sticks or is blocked. A rotating insertion tool which sticks or is blocked stops abruptly. As a result, an uncontrolled electric power tool is accelerated against the direction of rotation of the insertion tool at the blocking point.

A recoil occurs if the electric power tool is used incorrectly or improperly. A recoil can be prevented by appropriate precautions as described below.

- Hold the electric power tool firmly and position your body and arms to allow you to absorb kickback forces. If fitted, always use the auxiliary handle to ensure the best possible control over the recoil forces or reaction torques when acceleration occurs. The operator can control kickback and reaction forces by taking appropriate precautions.
- Keep your hands away from the rotating insertion tool. The insertion tool may kickback over your hand.
- Keep your body out of the area into which the electric power tool moves when a recoil occurs. Kickback propels the electric power tool in the direction opposite to the movement of the polisher at the point of pinching.
- Work especially carefully near corners, sharp edges, etc. Prevent the insertion tool from recoiling off the workpiece and jamming. The rotating insertion tool has a tendency to snag on corners, sharp edges or if it bounces. This causes a loss of control or kickback.
- Do not use a chain or toothed saw blade. Such insertion tools frequently cause a kickback or the loss of control of the electric power tool.

Double insulation for safer operation

To ensure safer operation of this power tool, FLEX has adopted a double insulation design. "Double insulation" means that two physically separated insulation systems have been used to insulate the electrically conductive materials connected to the power supply from the outer frame handled by the operator. Therefore, either the symbol  or the words "Double insulation" appear on the power tool or on the nameplate.

Although this system has no external grounding, you must still follow the normal electrical safety precautions given in this Instruction Manual, including not using the power tool in wet environments.

To keep the double insulation system effective, follow these precautions:

- Only FLEX AUTHORIZED SERVICE CENTER should disassemble or assemble this power tool, and only genuine FLEX replacement parts should be installed.
- Clean the exterior of the power tool only with a soft cloth moistened with soapy water, and dry thoroughly.
- Never use solvents, gasoline or thinners on plastic components; otherwise the plastic may dissolve.

Additional safety instructions

- The mains voltage and the voltage specifications on the rating plate must correspond.
- Do not press the spindle lock until the tool stops.

Noise and vibration

The noise and vibration values have been determined in accordance with EN 60745. The A evaluated noise level of the power tool is typically:

- Sound pressure level 80 dB(A);
- Sound power level 91 dB(A);
- Uncertainty K = 3 dB.

Total vibration value (when polishing painted surfaces):

- Emission value $a_h < 2.5 \text{ m/s}^2$
- Uncertainty K = 1.5 m/s^2

CAUTION!

The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.

NOTE

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ.

This may significantly increase the exposure level over the total working period. For a precise estimation of the vibration load the times should also be considered during which the power tool is switched off or even running, but not actually in use.

This may significantly increase the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

CAUTION!

Wear ear protection at a sound pressure above 85 dB(A).

Operating instructions



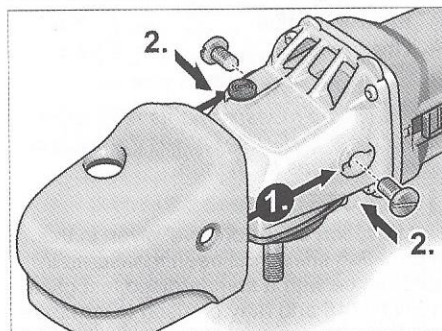
WARNING!

Before carrying out any work on the polisher, always pull out the mains plug.

Before switching on the power tool

Unpack the polisher and check that there are no missing or damaged parts.

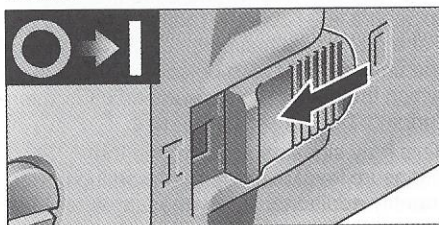
Attach handle cover



- Loosen screws or handle.
- Push on handle cover (1.).
- Tighten screws (2.).

Switching on and off

Brief operation without engaged switch rocker:



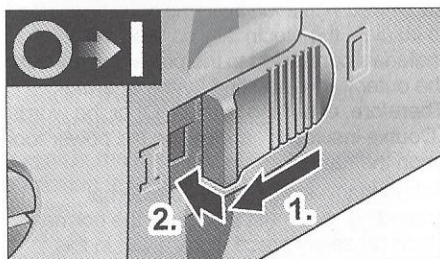
- Push the switch rocker forwards and hold in position.
- To switch off the power tool, release the switch rocker.

Continuous operation with engaged switch rocker:

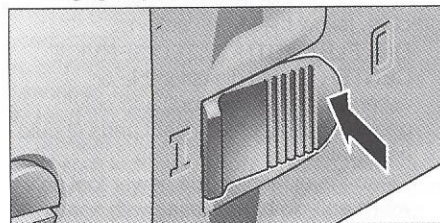


CAUTION!

Following a power failure, the switched-on machine will start running again.

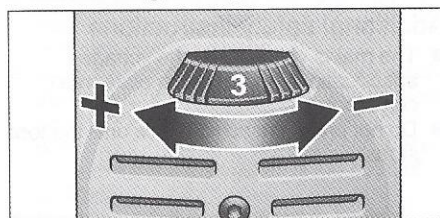


- Push the switch rocker forwards and engage by pressing the front end.



- To switch off the power tool, release the switch rocker by pressing the rear end.

Preselecting the speed



- To set the operating speed, move the dial to the required value.



CAUTION!

Risk of injury due to destruction of the tool. Use the appropriate tool for the job.

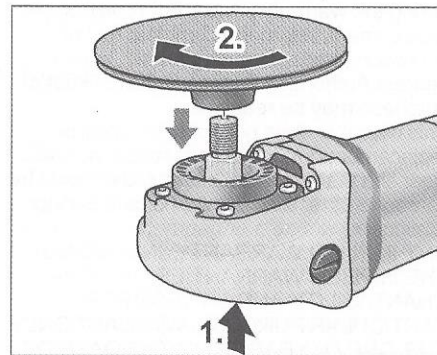


NOTE

If an overload or overheating occurs during continuous operation, the power tool automatically reduces the speed until the power tool has cooled down adequately.

Attaching or changing the tool holder

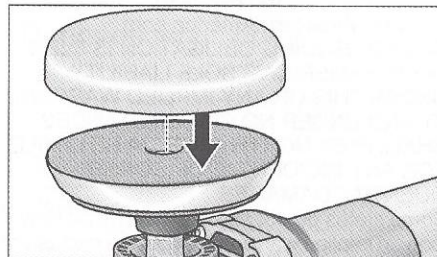
- Pull out the mains plug.
- Press and hold down the spindle lock.



- Screw chuck clockwise onto the spindle and tighten hand-tight. To loosen, turn chuck anti-clockwise.

Attach or change tools

- Pull out the mains plug.



- Press polishing agent firmly in the centre of the Velcro pad. Use undamaged polishing tools only.
- Carry out a test run to check that the tool is clamped in the centre.

Operating instructions



NOTE

When the power tool is switched off, the tool continues running briefly.

- If using a polishing paste, use the respective tool for each paste.
- In the case of sensitive surfaces (e.g. car paint) do not work aggressively, but at low speeds and with low contact pressure.
- Sponges can be washed in the washing machine.

Maintenance and care



WARNING!

Before carrying out any work on the polisher, always pull out the mains plug.

Cleaning



WARNING!

If metals are worked over a prolonged period, conductive dust may become deposited inside the housing. Impairment of the protective insulation! Operate the power tool via a residual-current-operated circuit-breaker (tripping current 30 mA).

Regularly clean the power tool and ventilation slots. Frequency of cleaning is dependent on the material and duration of use.

Regularly blow out the housing interior and motor with dry compressed air.

Carbon brushes

The polisher features cut-off carbon brushes.

When the wear limit of the cut-off carbon brushes is reached, the polisher switches off automatically.



NOTE

Use only original parts supplied by the manufacturer for replacement purposes. If non-original parts are used, the guarantee obligations of the manufacturer will be deemed null and void.

When the polisher is being used, the carbon brushes can be seen sparking through the rear air inlet apertures.

If the carbon brushes spark excessively, switch off the polisher immediately. Take the polisher to a customer service workshop authorised by the manufacturer.

Gears



NOTE

Do not loosen the screws on the gear head during the warranty period. Non-compliance will deem the guarantee obligations of the manufacturer null and void.

Repairs

Repairs may be carried out by an authorised customer service centre only.

Spare parts and accessories

For other accessories, in particular tools and polishing aids, see the manufacturer's catalogues.

Exploded drawings and spare-part lists can be found on our homepage:

www.flex-tools.com

Disposal information



WARNING!

Render redundant power tools unusable by removing the power cord.



NOTE

Please ask your dealer about disposal options for redundant power tools.

Guarantee

FLEX North America limited one year Warranty

FLEX North America warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty, which, after examination, prove(s) to be defective in workmanship or material during the warranty period. For repair or replacement, return the complete tool or accessory, transportation prepaid, to your nearest Authorized Service Station. Proof of purchase may be required.

This warranty does not apply to repair or replacement due to misuse, abuse, normal wear and tear or repairs attempted or made by someone other than our Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance, please write to:

FLEX - North America, Inc.
2720 E. Phillips Road
Greer, SC 29650, U.S.A.
1-877-331-6103 (main line)
1-888-331-6104 (fax line)

www.FlexNorthAmerica.com

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This warranty gives you specific legal rights and you may also have other legal rights, which vary from state to state.