

Operation Manual

Polishing Machine

62422, 62426



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.

If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

Send an e-mail to:

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The most recent version of this manual in various languages can be found in our online shop via:

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Our postal address is:

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To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Warning! Make sure to carefully read this instruction manual and to abide by the following rules and regulations to prevent accidents such as electric shocks, fire, and injuries.

Further ensure to keep this instruction manual and to always have it available.

Safety precautions

Workplace safety

- **Keep your work area clean and well lit.** Untidy and poorly lit work areas increase the risk of accidents.
- **Never operate electrical devices in an explosive environment, e.g., near flammable liquids, gases, or dust.** Electrical devices can cause sparks that can ignite these substances.
- **Keep bystanders and children away while you are using the electrical device.** Distractions can cause you to lose control of the device.

Electric safety

- **Before connecting the device, make sure that the voltage of the power source corresponds to the voltage specified on the type plate.**
- **Avoid body contact with earthed surfaces, e.g., pipes, heaters, stoves, or refrigerators.** There is an increased risk of electric shock if the body is grounded. If you work in a humid environment, it is essential to use a residual current device. Wearing rubber gloves for electricians and shoes with rubber soles also increases safety.
- **Never expose electrical devices to rain or moisture.** Water penetrating an electrical device increases the risk of electric shock.
- **Handle the power cord carefully.** Never carry devices by the power cord or pull the power plug out of the socket with the help of the cable. Keep the power cord away from heat, oil, sharp objects, or moving parts. Replace a damaged power cord immediately. Defective power cords increase the risk of electric shock.
- **If you want to operate an electrical device outdoors, always use an extension cable that is suitable for outdoor use.** Outdoor extension cords reduce the risk of electric shock.

Personal safety

- **Stay vigilant and pay full attention to what you are doing while operating an electrical appliance. Do not use the device when you are tired or under the influence of alcohol, drugs, or medicine.** A moment of inattention while using the electrical device can result in serious injury.
- **Wear appropriate clothing. Do not wear loose clothing or jewellery. Tie long hair securely together. Keep hair, clothing, and gloves away from moving parts.** Loose clothing, jewellery, or long hair can get caught in moving parts. Keep the handles dry, clean, and free from oil and lubricants.
- **Avoid unintentional starting. When connecting, make sure that the switch is in the off position.** When carrying electrical devices, do not put your finger on the trigger and do not connect devices with the switch to the on position to the mains.
- **Remove all wrenches before switching on the device.** An adjustment wrench or wrench that is still attached to a moving part can cause injury.



- **Do not lean too far. Always keep your balance and make sure you have a secure and firm stance.** A secure stance and balance allow better control of the device in unexpected situations.
- **Put on safety equipment. Always wear protective goggles.** Dust masks, non-slip shoes, safety helmets and hearing protection must be worn in the circumstances.

Safety while using and maintaining

- **Use clamps or other aids to secure workpieces to a stable surface.** Workpieces should always be fixed, but not held in the hand, as this can lead to loss of control and loss of hands.
- **Do not exert pressure on the device. Always use the right device or tool for your work.** Tools and equipment function more safely and reliably when used within their intended performance range.
- **Do not use a device that has a switch that cannot be turned on or off.** Any device that cannot be controlled by a switch is dangerous and must be repaired immediately.
- **Pull the power plug out of the socket before making changes, replacing accessories, or storing the device.** These safety precautions reduce the risk of unintentional switching on.
- **Store unused tools and devices out of the reach of children and inexperienced people.** Devices and tools can be dangerous in the hands of untrained people.
- **Always maintain equipment and tools with great care. Always keep cutting tools sharp and clean.** Properly maintained tools with sharp edges are less exposed to deformation and easier to control. Any change or modification constitutes incorrect use which can become dangerous.
- **Inspect moving parts for deformation or misalignment, including defective parts and other conditions that could limit the performance of the unit. If it is damaged, have it repaired by a professional.** Many accidents are caused by poorly maintained equipment or tools. Set up a maintenance plan for your device.
- **Only use accessories recommended by the manufacturer that are compatible with your device.** Accessories that fit a particular device can be dangerous when used on another device.

Safety while repairing

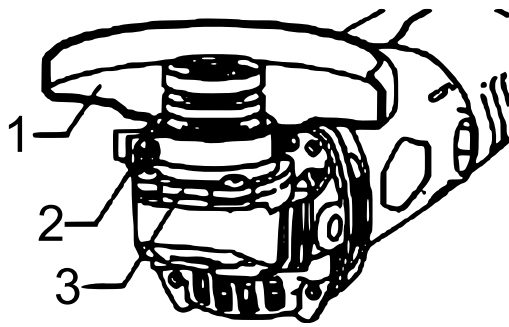
- **Repair work may only be carried out by qualified personnel. Repairs by unqualified personnel can increase the risk of injury.** Internal wires can be misplaced or jammed, return springs of the protective device be attached improperly.
- **When servicing a tool or device, only use identical spare parts. Follow the instructions and maintenance information in this manual.** The use of unapproved parts or failure to follow the maintenance instructions can increase the risk of electric shock and injury. Some cleaning agents, e.g., petrol, carbon tetrachloride or ammonia can damage the plastic parts of the device/tool.

Assembly

Mounting the wheel guard

Warning! Never use the polishing machine without the wheel guard and ensure that it is properly attached and locked in place before operating the machine. The opening of the protective device must face away from the body during operation; this keeps the risk of injury as low as possible.

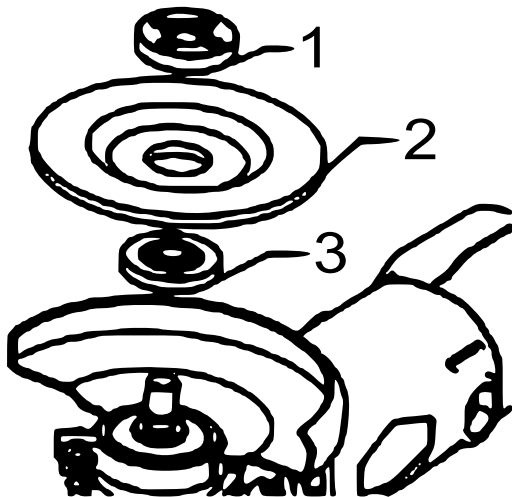
- The wheel guard can be adjusted to best suit the job to be performed.
- Disconnect the device from the power supply and loosen the locking screw to be able to turn the protective device.
- When the guard is properly aligned, secure it by re-tightening the locking screw.
- To remove the guard, loosen the locking screw and turn the device until the two bumps are over the notches on the shaft. You can then remove the wheel guard.



No	Name
1	Wheel guard
2	Locking screw
3	Cover

Mounting the grinding wheel

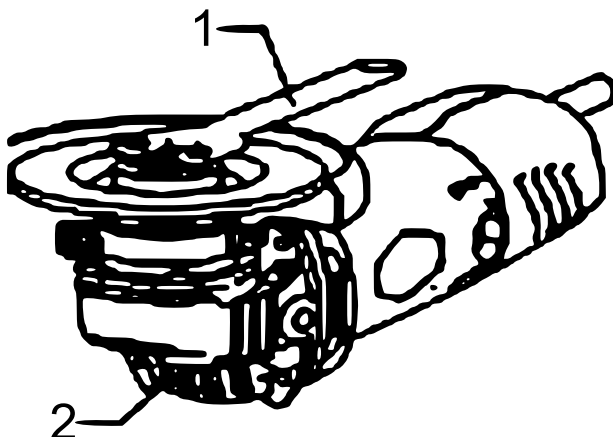
- Always disconnect the device from the power supply before attaching, removing, or replacing a grinding wheel. Also make sure that the wheel guard is safely locked in place.
- Place the inner flange and the grinding wheel on the shaft. Screw the flange nut onto the thread and tighten it with the wrench supplied.
- To remove the grinding wheel, all you must do is reverse these steps.



No	Name
1	Flange nut
2	Grinding wheel
3	Inner flange

Flange nut and inner flange

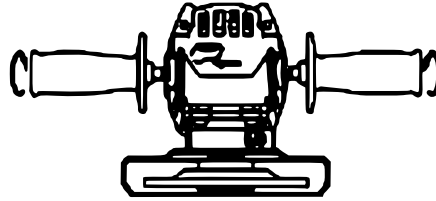
The device has a threaded shaft to which accessories can be attached; a matching flange nut and inner flange are also supplied. Never replace them with parts of a different size or of inferior quality, as otherwise the safe operation and functionality of the device can no longer be guaranteed. A suitable wrench with which the flange nut can be tightened is also included.



No	Name
1	Grinder wrench
2	Shaft base

Lateral handle

The side handle is used to guide the device evenly and can be attached either to the right or left of the housing.



Commissioning

Switch

The device is switched on or off by the toggle switch located near the handle. Position on “I” means that the device is switched on; position on “O” means that the tool is switched off.

Warning: Hold the tool with both hands, as the torque of the motor can cause the tool to suddenly move. Before starting work, turn on the device and wait for it to reach its maximum speed; only then bring the device to the workpiece. Always remove the device from the workpiece before reducing the speed or switching off the device. Do not switch the device on and off when it is in contact with a workpiece, as this can impair the usability of both the switch and the whole device.

Grinding

Select a grinding wheel.

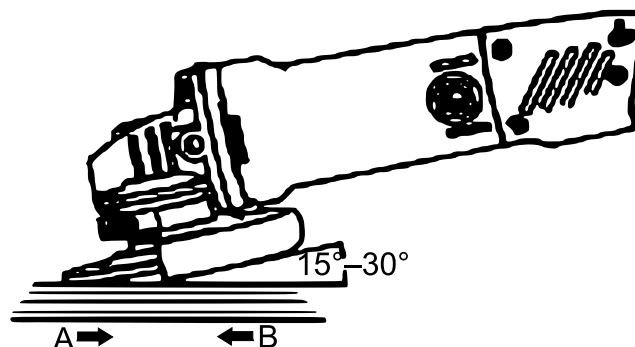
Warning! In any case, make sure that the maximum operating speed does not exceed the operating speed indicated on the nameplate of the device; this will prevent accidents. The recommended grinding wheel diameter must not be exceeded.

Grinding wheels

Grinding wheels differ in a variety of specifications, such as grit type, grit size, wheel hardness, structure, and bond. They can for example be used to work on mild steel, weld joints, stainless steel, or other ferrous metals. For this device to function in the most efficient manner, grinding wheels should always be selected carefully and according to the task at hand.

Grinding angles

The most effective grinding angle lies between 15° and 30°. While an angle smaller than 15° will lead to an increased bearing surface and thereby decrease the handling of the device as it becomes more difficult to control, an angle greater than 30° will lead to a reduced bearing surface and might create notches due to attrition.





Warning! Excessive or sudden pressure slows down the grinding process and puts a dangerous amount of stress on the grinding wheel. Further, when using new grinding wheels, make sure not to apply pressure while grinding and to instead slightly pull the device away from the workpiece until the edges of the wheel have become round due to wear. New grinding wheels have sharp edges that might chip the surface of a workpiece and thereby damage it, if pressure is applied.

Sanding

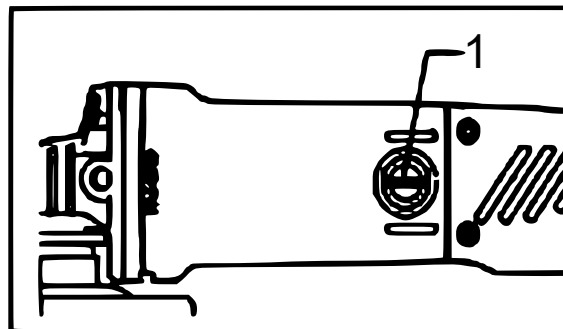
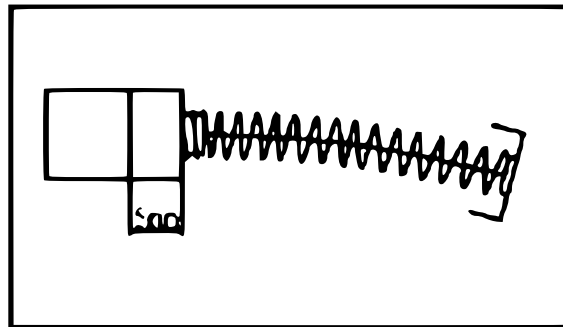
Selecting the sanding disc: Sanding discs are made from very hard and sharp aluminium oxide grains. The discs differ in the size and spacing of the grains. Open sanding disc surfaces (type H) are suitable for soft materials and for painted or varnished surfaces of the workpiece; dense surfaces (type K) are required for metal, wood, stone, marble, etc. The sanding disc grit ranges from 16 (very coarse-grained) to 180 (very fine). For the best results, you should always choose the right sanding disc. For some jobs you need different grit sizes and sometimes open and sometimes dense grinding discs to get this job done faster.

Replacing the carbon brushes

Warning: When servicing or inspecting the tool, make sure the tool is turned off and unplugged.

Carbon brush cover

Check the carbon brushes regularly. They should be replaced when they are worn by 5 mm. Remove the cover with the flat-blade screwdriver. Take out the carbon brush and insert a new one. Then put the cover back in place.



1: Carbon brush cover

Note: Make sure that the new carbon brush is properly seated before you reattach the cover. Both carbon brushes should be replaced at the same time, even if only one brush is worn.

Maintenance

Warning: Maintenance by untrained persons can lead to incorrect laying of internal cables and incorrect installation of components, which can be a serious risk. It is therefore recommended that all maintenance work be carried out by qualified personnel.



Lubrication

Upon reception, this tool is ready for operation as it has been sufficiently lubricated. Make sure that the moving parts of the tool are always lubricated in an adequately manner. It is recommended to grease gears with a special lubricant whenever a brush change is performed.

Carbon brushes

The brushes and commutators installed in the tool have been designed for many hours of reliable service. To maintain the efficiency of the device, it is recommended to examine and, if necessary, replace the brushes after about 50 hours of operation.

Bearings

The bearings should be replaced after 100 hours of operation or during every second brush change to guarantee a flawless and efficient operation. Bearings that start making noises or do not function properly should be replaced immediately to avoid overheating or motor failure. The replacement of bearings should thereby only be replaced by qualified personnel as an incorrect installation may cause damage to the tool as well as its surroundings and may lead to severe injuries and even death.

Cleaning

Warning: Always make sure to turn the device off and to disconnect it from its power supply before performing repairs, cleaning, or maintenance to avoid accidents. The most efficient way of cleaning the tool is the use of dry compressed air. Always wear safety goggles when operating compressed air tools. Ventilation openings and switches must be kept clean and free of dust as well as other foreign matter, but do not attempt to clean said openings by inserting pointed objects as this might cause serve damage to the tool.

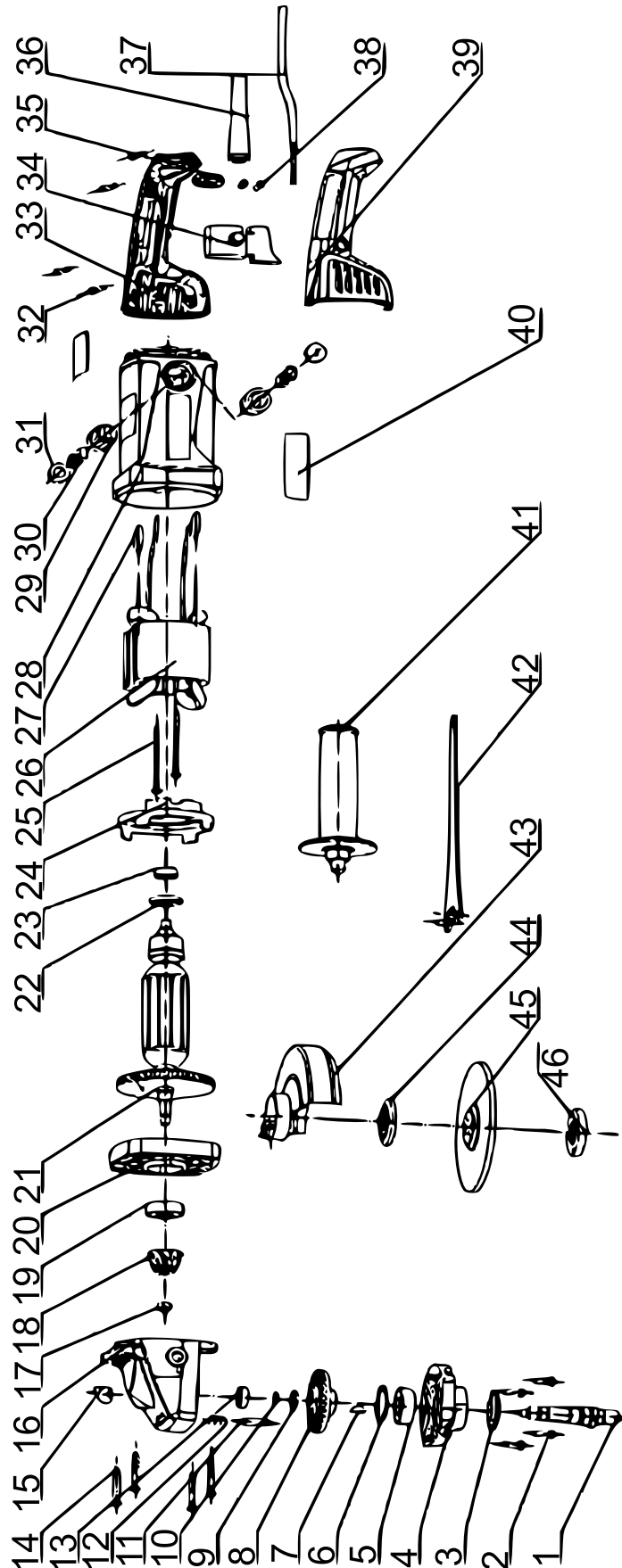
Note: Be careful when using detergents or solvents as they might damage the plastic parts of the tool. Therefore, refrain from using gasoline and carbon tetrachloride or detergents and solvents that are chlorinated or contain ammonia.



Parts list

№	Name	Qty.	№	Name	Qty.
1	Drive shaft	1	24	Fan baffle	1
2	Screw M5×16	4	25	Screw ST5×60	2
3	Dustproof cover	1	26	Stator	1
4	Front cover	1	27	Coil spring	2
5	Bearing 6202	1	28	Housing	1
6	Circlip	1	29	Brush holder	2
7	Woodruff key	1	30	Brush	2
8	Bevel ring gear	1	31	Brush cover	2
9	Nut M14	1	32	Screw ST4×16	4
10	Circlip	1	33	Handle (right piece)	1
11	Self-locking pin	1	34	Switch	1
12	Self-locking spring	1	35	Cable press plate	1
13	Bearing 607	1	36	Cable protector	1
14	Screw ST5×35	1	37	Cable	1
15	Self-locking cap	1	38	Screw ST4×14	2
16	Gearbox cover	1	39	Handle (left piece)	1
17	Nut M7	1	40	Label	
18	Spiral bevel gear	1	41	Side handle	1
19	Bearing 6201	1	42	Wrench	1
20	Middle plate	1	43	Wheel guard	1
21	Armature	1	44	Inner flange	1
22	Gasket	1	45	Plate	
23	Bearing 608	1	46	Flange nut	1

Exploded view



Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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