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ANGLE GRINDER 2200W - 230MM**POWE20030****1 INTENDED USE**

This machine is developed for grinding and roughing of metal and stone. With help of the correct accessories the machine can also be used for brushing and sanding. Not suitable for professional use.



WARNING! For your own safety, read this manual and the general safety instructions carefully before using the appliance. Your power tool should only be given to other users together with these instructions.

2 DESCRIPTION (FIG. A)

1. Lock lever for protection guard
2. Spindle lock button
3. Attachment point for auxiliary handle
4. Main handle
5. On/Off switch
6. Lock button
7. Auxiliary handle
8. Guard
9. Grinding disc (not included)
10. Power On LED light
11. Position regulator button for main handle

3 PACKAGE CONTENT LIST

- Remove all packaging materials.
- Remove remaining packaging and packing inserts (if included).
- Check that the package contents are complete.
- Check the appliance, the power cord, the power plug and all accessories for transportation damage.
- Keep the packaging materials as far as possible until the end of the warranty period. Then take it to your local waste disposal system.



WARNING! Packaging materials are not toys! Children must not play with plastic bags! There is a danger of suffocation!



- 1 x angle grinder
- 1 x auxiliary handle
- 1 x pin spanner
- 1 x instruction manual



If any parts are missing or damaged, please contact your dealer.

4 SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury or damage to the tool.		Read manual before use
	In accordance with essential safety standards of applicable European directives		Class II - The machine is double insulated; Earthing wire is therefore not necessary.
	Mandatory use of eye protection.		Wear gloves

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to heed warnings and follow instructions may result in electric shock, fire and/or serious injury. Keep safety warnings and instructions for future reference. The term "power tool" in the safety warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

5.1 Working area

- Keep working area clean and well lit. Untidy and dark areas can lead to accidents.
- Do not operate power tools in potentially explosive surroundings, for example, in the presence of inflammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders at a distance when operating a power tool. Distractions can cause you to lose control of it.

5.2 Electrical safety



Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed power tools. Unmodified plugs and matching outlets will reduce the risk of a lethal electric shock.
- Avoid body contact with earthed surfaces such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of a lethal electric shock if your body is earthed.
- Do not expose power tools to rain or wet conditions. If water gets inside a power tool, it will increase the risk of a lethal electric shock.
- Do not damage the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of a lethal electric shock.
- When operating a power tool outdoors, use an extension cable suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of a lethal electric shock.
- If operating a power tool in a damp location is unavoidable, use a power supply protected by a residual current device (RCD). Using an RCD reduces the risk of a lethal electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication. A moment of inattention when operating a power tool may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Using safety equipment such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection whenever it is needed will reduce the risk of personal injury.
- Avoid accidental starts. Ensure the switch is in the off position before inserting the plug. Carrying power tools with your finger on the switch or plugging in power tools when the switch is in the on position makes accidents more likely.
- Remove any adjusting keys or spanners before turning on the power tool. A spanner or key left attached to a rotating part of the power tool may result in personal injury.
- Do not reach out too far. Keep your feet firmly on the ground at all times. This will enable you retain control over the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from the power tool. Loose clothes, jewellery or long hair can become entangled in the moving parts.
- If there are devices for connecting dust extraction and collection facilities, please ensure that they are attached and used correctly. Using such devices can reduce dust-related hazards.

5.4 Power tool use and care

- Do not expect the power tool to do more than it can. Use the correct power tool for what you want to do. A power tool will achieve better results and be safer if used in the context for which it was designed.
- Do not use the power tool if the switch cannot turn it on and off. A power tool with a broken switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store power tools, when not in use, out of the reach of children and do not allow people who are not familiar with the power tool or these instructions to operate it. Power tools are potentially dangerous in the hands of untrained users.
- Maintenance. Check for misalignment or jammed moving parts, breakages or any other feature that might affect the operation of the power tool. If it is damaged, the power tool must be repaired. Many accidents are caused by using poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.
- Use the power tool, accessories and cutting tools, etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work which needs to be done. Using a power tool in ways for which it was not intended can lead to potentially hazardous situations.

5.5 Service

- Your power tool should be serviced by a qualified specialist using only standard spare parts. This will ensure that it meets the required safety standards.

6 SPECIFIC SAFETY INSTRUCTIONS FOR ANGLE GRINDERS

- Check that the maximum speed indicated on the grinding disc corresponds to the maximum speed of the machine. The speed of the machine must not exceed the value on the grinding disc.
- Make sure that the dimensions of the grinding disc correspond to the specifications of the machine.
- Make sure that the grinding disc has been mounted and fastened properly. Do not use reducing rings or adapters to make the grinding disc fit properly.
- Treat and store grinding discs in conformance with the supplier's instructions.
- Do not use the machine for grinding workpieces with a maximum thickness exceeding the maximum grinding depth of the grinding disc.
- Do not use grinding discs for deburring.
- When grinding discs have to be mounted on the thread of the spindle, make sure that the spindle has sufficient thread. Make sure that the spindle is sufficiently protected and does not touch the grinding surface.
- Before use, inspect the grinding disc for any damage. Do not use grinding discs which are cracked, ripped or otherwise damaged.
- Before use, let the machine run idle for 30 seconds.
- Immediately switch off the machine in case of abnormal vibrations or occurrence of another defect. Carefully inspect the machine and grinding disc before switching the machine on again.
- Make sure that sparks do not put people into danger or that they contact highly flammable substances.
- Make sure that the workpiece is sufficiently supported or clamped. Keep your hands away from the surface to be cut.
- Always wear safety goggles and hearing protection. If desired or required also use another kind of protection like for example an apron or helmet.
- Ensure that mounted wheels and points are fitted in accordance with the manufacturer's instructions.
- Ensure that blotters are used when they are provided with the bonded abrasive product and when they are required.
- If a guard is supplied with the tool never use the tool without such a guard.
- For tools intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.
- Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use non metallic objects) and avoid damaging internal parts.
- Though poor conditions of the electrical mains, shortly voltage drops can appear when starting the equipment. This can influence other equipment (eq. blinking of a lamp). If the mains-impedance $Z_{max} < 0.348 \text{ Ohm}$, such disturbances are not expected. (In case of need, you may contact your local supply authority for further information.

7 OPERATION

7.1 *Fitting the auxiliary handle (Fig. 1)*



Ensure that the plug is not in the socket when fitting or removing the auxiliary handle.

The auxiliary handle (7) can be attached to the angle grinder in three different positions: left, on top and right.

7.2 Assembly the protective guard (Fig. 2 & 3)

1. Loosen the clip of the protective guard (8) by pulling lock lever of protective guard (1) outward.
2. Turn the protective guard so that uncovered part of the disc is as far apart as possible from the hand on main handle (4).
3. Fix the protection guard by pushing the lock lever inwards (the protective guard should no longer be able to move).

NOTE: If the protective guard can not be fixed firmly by the lock lever (1), use a hexagon wrench to tighten the hexagon nut. (See attached figure 3)

7.3 Replacing the grinding disc (Fig. 4 & 5)

Beware – a disc which has been used may be very hot!

- Pull out the power plug from the mains socket.
- Depress and hold down the spindle lock button (2) to secure the spindle.
- Turn the shaft until it locks.
- Remove the outer flange (a) and backing flange (b) by using the two-hole spanner provided.
- Fit the desired disc (9) on the spindle and replace the outer flange and backing flange. Release the spindle lock.



Important! Only ever press the spindle lock when the motor and grinding spindle are at a standstill!

You must keep the spindle lock pressed while you change the wheel !

For grinding wheels up to approx. 3 mm thick, screw on the flange nut with the flat side facing the grinding wheel.

7.4 Special attention when starting the machine

- Clamp the workpiece and make sure that the workpiece cannot slide from under the machine during the cutting activities.
- When working with the machine, always hold it firmly with both hands and provide for a secure stance.
- Always direct the cable to the rear away from the machine.
- Insert the mains plug only when the machine is switched off.
- Apply the machine to the workpiece only when switched on



Never use the machine for grinding magnesium workpieces.

7.5 Switching on / off (Fig. 6)

Before working with the angle grinder, check that the voltage shown on the machine's model plate is the same as the mains voltage being used.

Before engage the ON/OFF switch trigger, check that the grinding disc is properly fitted and run smoothly, the outer flange is well tightened.

7.5.1 Switching on

1. Connect the plug to the power supply. The power-on indicator (10) is illuminated until the tool disconnect from the power mains.
2. Push forward the ON / OFF switch with safety button (5) (See the arrow (1) on Fig. 6), and at the same time depress it firmly inwards and keep it pressed (See the arrow (2)).

7.5.2 Switching off

- When you release the switch, the tool turns off.
- Do not let go of grinder until it has stopped running.



The wheel continues to rotate after the tool is switched off.

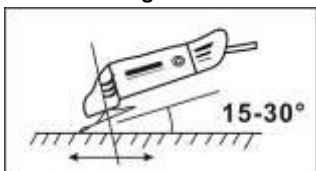
7.6 Adjusting the main handle position (Fig. 7)

The main handle (4) element can be pivoted by 90° to the right or left.

1. Depress position regulator button for main handle (4) and hold it in position.
2. Pivot the main handle in the desired direction.
3. Release position regulator button again in order to fix the main handle.

8 OPERATON MODES

8.1 Grinding

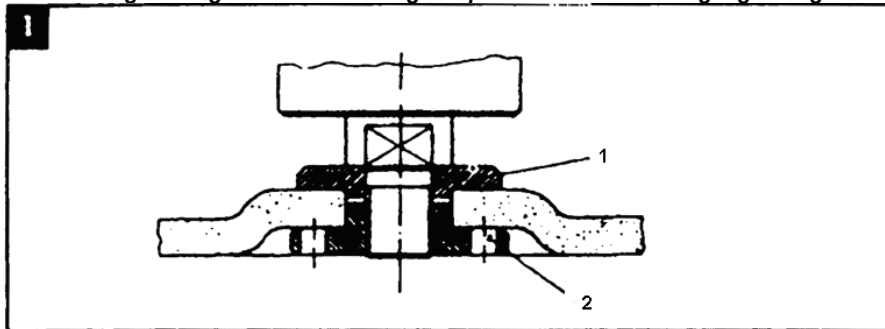


Hold the handle (4) and auxiliary handle (7) firmly and switch on. Avoid blocking the ventilation slots with your hand, as this may cause the grinder to overheat. Let the disc reach full speed. Apply the grinder to the item. Maximum effect is achieved when the grinder is held at an angle of 15-30° in relation to the item. Move the grinder gently along the item. Give the grinder time to

work. It is rarely necessary to press the disc hard against the surface to be worked. Sparks can occur in the motor compartment during use. This is normal and does not mean the grinder is defective. Switch off the grinder after use.

9 FLANGE ARRANGEMENTS WHEN USING GRINDING WHEELS

9.1 Flange arrangements when using a depressed centre or straight grinding wheel



- 1 Clamping flange
- 2 Flange nut

10 CLEANING AND MAINTENANCE



Attention! Before performing any work on the equipment, pull the power plug.

10.1 Cleaning

- Keep the ventilation slots of the machine clean to prevent overheating of the engine.
- Regularly clean the machine housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.



Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

10.2 Lubrication

The machine does not require any specific lubrication.

11 TECHNICAL DATA

Voltage / frequency	230-240 V / 50 Hz
Power input	2200 W
No load speed	6.500 min-1
Max. disc diameter:	Ø 230 mm
Drive spindle thread:	M 14

12 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	94 dB(A)
Acoustic power level LwA	105 dB(A)



ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration)	4,5 m/s ²	K = 1,5 m/s ²
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13 SERVICE DEPARTMENT

- Damaged switches must be replaced by our after-sales service department.
- If the connecting cable (or mains plug) is damaged, it must be replaced by a special connecting cable which is available from our service department. Replacement of the connecting cable should only be carried out by our service department (see last page) or by a qualified specialist (qualified electrician).

14 STORAGE

- Thoroughly clean the whole machine and its accessories.
- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.
- Protect it from exposure to direct sunlight. Keep it in the dark, if possible.
- Don't keep it in plastic bags to avoid humidity build-up.

15 WARRANTY

- This product is warranted for a 24-month period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneous net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

16 ENVIRONMENT

Should your appliance need replacement after extended use, do not dispose of it with the household refuse, but in an environmentally safe way.

Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

17 DECLARATION OF CONFORMITY

VARO – VIC. VAN ROMPUY N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM,
declares that,

product : Angle grinder
trade mark : POWERplus
model : POWE20030

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);

2011/65/EU
2006/42/EC
2014/30/EU

European harmonized standards (including, if applicable, their amendments up to the date of signature);

EN60745-1 : 2009
EN60745-2-3 : 2011
EN55014-1 : 2017
EN55014-2 : 2015
EN61000-3-2 : 2014
EN61000-3-3 : 2013

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,

Philippe Vankerkhove
Regulatory Affairs – Compliance Manager
08/06/20