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CORDLESS DRILL 20V POWX00500

1 APPLICATION

The power tool is intended for driving and drilling through wood, metal, plastics and masonry. 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. 10 mm single sleeve keyless chuck
2. Torque adjustment ring
3. Two speed selector
4. Forward/reverse knob
5. ON/OFF switch trigger
6. LED work light
7. LED battery capacity indicator
8. Charger
9. Battery pack
10. Loading socket

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 cordless drill
- 1 charger
- 3 battery pack
- 1 manual
- 1 BMC
- 12 S2 material 25mm bits:SL4, SL6, PZ1, 3x PZ2, PZ3,Torx with hole 10/15/20/25/30
- 1 bit holder



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 |
|  | Do not expose charger and battery pack to water |  | Risk of fire! |
|  | Only use the battery charger indoors. |  | Do not expose charger and battery pack to high temperature |

5 GENERAL SAFETY WARNINGS AND INSTRUCTIONS

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 ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS

6.1 Batteries (9)

- Never attempt to open for any reason.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 4 °C and 40 °C.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section “Protecting the environment”.
- Do not cause short circuits. If connection is made between the positive (+) and negative (-) terminal directly or via accidental contact with metallic objects, the battery is short circuited and an intense current will flow causing heat generation which may lead to casing rupture or fire.
- Do not heat. If batteries are heated to above 100 °C, sealing and insulating separators and other polymer components may be damaged resulting in electrolyte leakage and/or internal short circuiting leading to heat generation causing rupture or fire. Moreover do not dispose of the batteries in fire, explosion and/or intense burning may result.
- Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as follows:
 - Carefully wipe the liquid off using a cloth. Avoid skin contact.
 - In case of skin or eye contact, follow the instructions below:
 - Immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar.
 - In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.



Fire hazard! Avoid short-circuiting the contacts of a detached battery. Do not incinerate the battery.

6.2 Chargers (8)

- Use the charger provided with the tool only to charge the battery
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose to water.
- Do not open the charger.
- Do not probe the charger.
- The charger is intended for indoor use only.

7 FEATURES

7.1 Li-ion battery (9)

Advantages of Li-ion batteries :

- Li-ion batteries have a higher capacity/weight ratio (more power for less heavy, more compact, battery)
- No memory effect (capacity loss after several charge/discharge cycles) like other type batteries. (Ni-Cd, Ni-MeH ..).
- Limited self discharge. (also see chapter : Storage)

7.2 Keyless chuck (1)

A keyless chuck is included on your drill to allow for easy installation and removal of bits/accessories. The chuck is divided into two parts. The rear is called the collar and the front is called the body.

To open and close the keyless chuck, grasp and hold the collar of the chuck with one hand and rotate the chuck body with your other hand. The arrows on the chuck indicate in which direction to rotate the chuck body in order to GRIP (tighten) or release (unlock) the drill bit.



WARNING: Do not hold the chuck body with one hand and use power of the drill to tighten or loosen the juck jaws. The chuck body could slip and your hand could come in contact with a rotating accessory. This could cause an accident resulting in personal injury.

7.3 Torque adjustment ring (2)

The drill has a torque adjustment ring. It allows you to select the desired torque depending on the task you have to perform (drill / screw different types of screws into different materials). The proper setting depends on the type of material and the size of screw you are using.

TO ADJUST TORQUE: Identify the 18+1 torque indicator settings located on the front of the drill. Rotate adjusting ring (2) to the desired setting. The lower the number, the lower the torque setting. The higher the number, the higher the torque setting.

7.4 On/off switch (5)

To turn your drill ON, press the switch trigger. To turn it OFF, release the switch trigger.

The switch trigger can be locked in the OFF position. This feature helps reduce the possibility of accidental starting when not in use.

7.5 Forward/reverse selector (right/left rotation selector) (4)

The drill has a forward/reverse selector located above the switch trigger.

- F(Forward) (Forward): Press selector on right side of machine (to the left side): drill turns right (forward, fasten screws)
- R(Reverse) (Reverse): Press selector on left side of machine (to the right side): drill turns left (reverse/ loosen screws)



CAUTION: To prevent damage to the gearbox, always allow the chuck to come to a complete stop before changing the direction of rotation or selecting another speed (HI-LO). To stop, release the trigger switch.

7.6 Speed selector (3)

Your cordless drill has a two-speed gear, designed for drilling or driving at LO or HI speed. A slide switch is located on top of your drill to select either LO (1) or HI (2) speed.

The low speed (LO) is used, in combination with the torque setting, for screwing screws in or out and for drilling with a larger diameter.

The high speed (HI) is used only for drilling (never for screwing, as this may lead to damage of the tool).

7.7 LED worklight (6)

Your cordless drill is equipped with an LED light at the front (above the ON/OFF switch) above the battery pack. The white LED light will light when you operate the machine, providing the work area to be lighted.

7.8 TPR soft grip

- Your cordless drill is equipped with TPR soft grip and protective parts. TPR (Thermoplastic rubber) is elastic, chock absorbing and environmental friendly (recyclable).

8 (PRE)OPERATION

8.1 Battery charging

Use only the battery charger supplied with your tool. Only these battery chargers are matched to the lithium ion battery of your power tool.



Note: The battery is supplied partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time. The lithium ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

- Connect the plug of the charger to the loading socket (10) of the battery set.
- Red LED light will lid once the battery has been connected to the charger and the charging procedure will proceed.
- The battery set is completely loaded and ready for use once the green LED is lit the red LED if off -after approximately 1 hour.

8.2 Battery capacity indicator

There are battery capacity indicators on the battery pack, you can check the capacity status of the battery if you squeeze the button (7).

Those 3 LED might show the status of the capacity level of the battery:

3 LED's are litt: Battery fully charged

2 LED's are litt: Battery 60% charged

1 LED is litt: Battery almost discharged

8.3 To install or remove the battery pack

8.3.1 To remove the battery

Press both the battery release buttons and gently pull the battery out of the drill.

8.3.2 To install the battery

Hold the drill upright in one hand and the battery in your other hand. While pressing with two fingers on the battery release buttons, insert the battery until it clicks into place. Do not use excessive force when inserting the battery. If the battery does not slide in easily, it is not being inserted correctly. It is also possible that there could be damage to the battery, battery terminals or the drill.

8.4 Installing/removing bits and drills

8.4.1 Installing bits/drills

Lock the switch trigger by placing the direction of rotation selector in centre position.

Open or close chuck jaws to a point where the opening is slightly larger than the bit size you intend to use. Also, raise the front of the drill slightly to keep the bit from falling out of the chuck jaws. Insert drill bit straight into chuck the full length of the jaws as shown in. Tighten the chuck jaws on the drill bit.

WARNING: Make sure to insert drill bit straight into chuck jaws.

Do not insert drill bit into chuck jaws at an angle, this could cause drill bit to be thrown from drill resulting in possible serious personal injury or damage to the chuck.

8.4.2 Removing bits/drills

Lock the switch trigger by placing rotation selector in centre position.

Loosen the chuck jaws from the drill bit.

Note: Rotate chuck body in the direction of the arrow marked. Release to loosen chuck jaws.

Do not use a wrench to tighten or loosen the chuck jaws.

Remove the drill bit from the chuck jaws.

8.5 **General hints for drilling**

Always make sure that the torque adjustment ring is set to "drill" position.

8.5.1 Drilling in all materials

Always use sharp drill bits. Mark the place where you would like the hole to be drilled.

Commence with a slow speed to start the hole. Reduce your pressure on the drill when the drill bit is about to break through the material.

8.5.2 Metal drilling

Support thin material with a piece of scrap wood. Use a center punch to mark the position of the hole. If drilling a large hole, use a small size drill bit first to establish a pilot hole then use the required large size drill bit. Use only HSS (High Speed Steel) drill bits or those recommended for metal use. When drilling into iron or steel, use no lubricant but withdraw the drill regularly to assist cooling.

8.5.3 Wood drilling

Mark the place where you want to drill with a punch or a nail. To avoid splintering on breakthrough, either clamp a piece of scrap wood to the back of your work piece or continue the hole from the back of the wood when the drill bit first breaks through.

9 MAINTENANCE

9.1 **General**

Your tool has been designed to operate over a long period of time with a minimum of maintenance.

- Continuous satisfactory operation depends upon proper tool care and regular cleaning. Clean your tool using a damp cloth.
- Your charger does not require any maintenance apart from regular cleaning, unplug it before cleaning.
- Use a soft brush or dry cloth.
- **KEEP VENTILATION SLOTS CLEAN!** Periodically check the air vents for dust or other debris. Clean with compressed air (max. 3 bar)

Do not use any abrasive or solvent-based cleaner. Use clean cloths to remove dirt, carbon dust, etc.

WARNING: Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts, they contain chemicals that can damage, weaken or destroy plastic.

WARNING: Always wear safety goggles or safety glasses with side shields when using compressed air to clean tools. If the operation is dusty, also wear a dust mask.



BATTERIES: The battery pack for this tool is equipped with a Li-ion rechargeable battery. Do not disassemble battery pack and attempt to replace the batteries inside.

9.2 Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

10 STORAGE

Store your tool in a clean, dry, frost free environment.

Battery storage

- Store your batteries in a cool area. Optimal temperature for storing your Li-ion battery for longer term is 2°C. (capacity loss will only be 6% / year (compared to 20% at 25°C)). Never store batteries in discharged condition.
- It is better for Li-ion batteries to recharge them frequently. Optimal long time storage charge for your Li-ion battery is at 40% of their capacity.

11 TECHNICAL DATA

| | |
|---------------------------------|----------------------------------|
| Rotation Speed | 0-400 / 0-1400 min ⁻¹ |
| Max. Drill-bit diameter | 10mm |
| Rated Voltage DC (Un) | 20V |
| Battery capacity | 1300mAh |
| Battery type | Li-ion |
| Max. torque | 35Nm |
| Number of LED's | 1 |
| Chuck type | 10mm keyless Chuck |
| Torque positions | 18+1 |
| Plug Type | VDE |
| Charger output voltage /current | 21,5 V / 300 mA |
| Charger time | 300min |
| Battery quantity | 3 |

12 NOISE

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

| | |
|-----------------------------|-----------|
| Acoustic pressure level LpA | 88 dB (A) |
| Acoustic power level LwA | 99 dB (A) |



ATTENTION! The sound power level may exceed 85 dB(A), in this case individual hearing protection shall be worn.

| | | |
|----------------|---------------------|--------------------------|
| aw (Vibration) | 1.3m/s ² | K = 1.5 m/s ² |
|----------------|---------------------|--------------------------|

13 WARRANTY

- This product is warranted for a 36-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 authorized 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.
- Your tool must be charged at least 1x per month to ensure optimal operation of this tool.

14 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 of electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

14.1 Battery pack

This product contains Li-ion. To preserve natural resources, please recycle or dispose of batteries properly. Local, state or federal laws may prohibit disposal of Li-ion batteries in ordinary trash. Consult you local waste authority for information regarding available recycling and/or disposal options.

15 DECLARATION OF CONFORMITY



VARO N.V. Vic. Van Rompuy N.V - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM,
declares that,

Product: Drill – Battery operated
trade mark: POWERplus
model: POWX00500

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

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

EN60745-1 : 2009
EN60745-2-1 : 2010
EN55014-1 : 2017
EN55014-2 : 2015

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

The undersigned acts on behalf of the company CEO,

Ludo Mertens
Regulatory Affairs – Compliance Manager
03/09/19