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CIRCULAR SAW 165MM 20V (NO ACCU) POWDP25200

1 INTENDED USE

Your circular saw has been designed for sawing wooden workpieces. The machine is only suitable for right-hand use. The machine is not suitable for stationary use. Not suitable for professional use.



WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. A)

- | | |
|-----------------------------------|---|
| 1. Lock knob for guide bar | 13. Outer flange |
| 2. Lock knob for angle adjustment | 14. Saw blade |
| 3. Angle gauge | 15. Guide bar |
| 4. Guide handle | 16. Lock knob for depth adjustment |
| 5. Lock-off button | 17. Depth gauge |
| 6. ON/OFF switch trigger | 18. Spindle lock button |
| 7. Main handle | 19. Charger (NOT included) |
| 8. Dust extraction outlet | 20. Battery pack with battery capacity indicator (NOT included) |
| 9. Lever of lower guard | 21. Battery pack release button |
| 10. Base plate | 22. Button for battery capacity indicator |
| 11. Lower guard | 23. LED work light |
| 12. Blade clamp bolt | |

3 PACKAGE CONTENT LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.



WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

1 x CIRCULAR SAW
1 x Allan key
1 x guide bar

1 x saw blade
1 x manual
1 x dust extraction adaptor



When 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.		In accordance with essential requirements of the European directive(s)
	Read manual before use		"Class II - The machine is double insulated; Earthing wire is therefore not necessary (only for charger)
	Do not expose charger and battery pack to water		Ambient temperature 40°C max. (only for battery)
	Do not incinerate battery pack or charger		Use battery and charger only in closed rooms
	Wear noise protection		Wear a mask In dusty conditions
	Mandatory use of eye protection.		

5 GENERAL POWER TOOL SAFETY WARNINGS

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

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

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 any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of 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 while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 *Power tool use and care*

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits 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 to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

5.5 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.

6 SPECIFIC SAFETY WARNINGS FOR CIRCULAR SAWS

- Make sure that all devices screening the saw blade are in perfect working order.
- Make sure that the saw blade is screened correctly. Especially observe the following instructions:
 - Never block the saw blade guard. Repair a jammed saw blade guard before using the machine again.
 - Replace a broken tension spring before using the machine again.
 - Never remove the riving knife. The distance between the toothed rim and the riving knife should be 5 mm maximum. The height difference between the riving knife and the toothed rim should be 5 mm maximum.
- Do not use saw blades made of HSS steel.
- Do not use bent, deformed or otherwise damaged saw blades.
- Do not use saw blades which do not meet the specifications stated in this manual.
- Before sawing, remove all nails and other metal objects from the workpiece.
- Never start sawing before the saw reaches its full speed.
- Securely clamp the workpiece. Never attempt to saw extremely small workpieces.
- Only put the machine aside after switching off and when the saw blade has come to a complete standstill.
- Never try to slow the saw blade down by exerting pressure on the side.
- Before performing maintenance to the machine, always unplug the machine.
- Keep hands away from cutting area and blade. Keep your second hand on auxiliary handle or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- Always use blades with correct size and shape. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

7 ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS**7.1 Batteries**

- 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.

- Store your batteries in a cool dry place (5 °C-20 °C). Never store batteries in discharged state.
- It is better for Li-ion batteries to discharge and reload them regularly (at least 4 times a year). The ideal charge for long-term storage of your Li-ion battery is 40% of capacity.
- 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.

7.2 Chargers

- 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.

8 CHARGING AND INSERTION OR REMOVAL OF BATTERY

8.1 Charger indications (Fig. 1)

Connect the charger to the power outlet socket

- Solid green: ready to charge
- Flickering red: charging
- Solid green: charged
- Solid green and red: battery or charger damaged



Note: if the battery does not fit properly, disconnect it and confirm that the battery pack is the correct model for this charger as shown on the specification chart. Do not charge any other battery pack or any battery pack that does not securely fit the charger.

1. Frequently monitor the charger and battery pack while connected
2. Unplug the charger and disconnect it from the battery pack when finished.
3. Allow the battery pack to cool completely before using it.

4. Store the charger and battery pack indoors, out of reach of children.



NOTE: If battery is hot after continuous use in the tool, allow it to cool down to room temperature before charging. This will extend the life of your batteries.

8.2 Removal / insertion of battery (Fig. 2)



WARNING: Before making any adjustments ensure the tool is switched off or remove the battery pack.

- Hold the tool with one hand and the battery pack (20) with the other.
- To install: push and slide battery pack into battery port, make sure the release latch on the rear side of the battery snaps into place and battery is secure before beginning operation.
- To remove: Press the battery release latch and pull the battery pack out at the same time.

8.3 Battery capacity indicator (Fig. 3)

There are battery capacity indicators on the battery pack, you can check the capacity status of the battery if you squeeze the button (22). Before using the machine, please press switch trigger to check if the battery is full enough for properly working.

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

3 LED's are lit: Battery fully charged

2 LED's are lit: Battery 60% charged

1 LED is lit: Battery almost discharged

9 ADJUSTMENTS

9.1 Replacing the saw blade (Fig. 4)

Only use sharp and undamaged saw blades. Cracked or bent saw blades must be replaced immediately.

- Place this circular saw on its side on a flat surface. Advice you bring the base plate (10) down as if a minimum depth cut which is ease to operate.
- Push the spindle lock button toward motor housing as the arrow shows in Fig. 4 and firmly hold it.
- Turn the blade clamp bolt clockwise by using the Allen key that supplied with the tool.
- Remove the blade clamp bolt and outer flange.
- Raise the lower guard (11) by using the lever for lower guard (9), and then remove the saw blade.
- Clean the saw blade flanges, then mount the new saw blade onto the output spindle and against the inner flange.
- Make sure the saw teeth and arrow on the blade is to be the same direction as the arrow on the **upper** guard.
- Reinstall the outer flange, and tighten the blade clamp bolt.
- Make sure that the saw blade runs freely by turning the blade by hand.

9.2 Adjusting the depth of cut (Fig. 5)

The depth of cut is infinitely adjustable. A clean cut is achieved with the saw blade protruding from the material by approx. 3 mm.

- Loosen the lock lever for depth adjustment (16).
- Hold the base plate (10) flat against the edge of the work piece and lift the body of the saw until the blade is at the right depth determined by the depth gauge (17) (align the scale line).
- Tighten the lock lever for depth adjustment.

9.3 Setting the mitre angle (Fig. 6)

The mitre angle is infinitely variable between 0° and 45°.

- Loosen the lock lever for angle adjustment (2).
- Adjust the shoe to the desired angle between 0° to 45°.
- Tighten the lock lever for angle adjustment.

9.4 Mounting the parallel fence (Fig. 7)

The parallel fence allows sawing parallel to an edge at a maximum distance of 15 cm.

- Loosen the adjustment screw of guide bar (1).
- Slide the guide bar (15) through the slots in the base plate to the desired width.
- Tighten the adjusting screw to secure it in the position.
- Ensure that the guide bar rests against the wood along its entire length to give consistent parallel cuts.

10 OPERATION**10.1 Instructions for use**

- Clamp the workpiece. Make sure that the side which will be visible later is facing down, because the cut is most accurate at that side.
- Switch on the machine before it touches the workpiece. Do not exert pressure on the saw blade. Allow the machine enough time to cut the workpiece.
- Hold the machine with both hands using both grips. This ensures optimum control over the machine.
- For straight cuts along a drawn line use the marking for straight cuts.
- For bevel cuts along a drawn line use the marking for bevel cuts.

10.2 Switching on and off (Fig. 8)

Before engage the ON/OFF switch, check that the saw blade is properly fitted and run smoothly, the blade clamp screw is well tightened.

- Connect the battery pack to the cordless circular saw and ensure it firmly.
- To switch the tool on, keep the lock-off button (5) depressed and press the on/off switch (6).
- To switch the tool off, release the on/off switch.

10.3 Dust extraction

A vacuum cleaner can be connected to the dust extraction outlet, either directly to the connector or using an adapter.

- If necessary, connect an adapter to the extraction outlet.

10.4 Cross-cutting

When making a cross-cut or a rip cut, align the guideline with the blade-guide notch on the base. Since blade thicknesses vary, you should always make a trial cut in scrap material along a guideline to determine how much the guideline must be offset from the guide to produce an accurate cut.

NOTICE: The distance from the cutting line to the guideline is the amount by which the guide should be offset. Use a guide when making long or wide rip cuts.

10.5 Bevel cutting

- Align the line of cut with the 45° blade guide notch on the base when making 45° bevel cuts.
- Make a trial cut in scrap material along a guideline to determine how much you should offset the guideline on the cutting material.

- Adjust the angle of the cut to any desired setting between 0 and 45°.

11 CLEANING AND MAINTENANCE



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

11.1 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.

11.2 Lubrication

From time to time, apply a drop of oil to the thread of the lock screw.

12 TECHNICAL DATA

Rotation speed	4000min ⁻¹
Blade size	165mm
Max cutting depth	55mm
Rated voltage DC	20V
Maximum cutting capacity 90° - 90°	55mm
Maximum cutting capacity 45° - 90°	38mm
Bore size	20mm
Adjustable angle	Yes
Number of teeth	24T
Soft grip	Yes
LED work light	Yes

13 NOISE

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

Acoustic pressure level LpA	93 dB(A)
Acoustic power level LwA	104 dB(A)



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

aw (Vibration)	4,4 m/s ²	K = 1.5 m/s ²
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14 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 particular connecting cable which is available from our service department. Replacement of the connecting cable must only be carried out by our service department (see last page) or by a qualified person (qualified electrician).

15 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.

16 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 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), inexperienced 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.

17 ENVIRONMENT



Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it 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.

18 DECLARATION OF CONFORMITY



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

Product: CIRCULAR SAW 165mm 20V
trade mark: POWERplus
model: POWDP25200

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);

EN62841 : 2015

EN62841-2-5 : 2014

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
Date: 14/10/2020, Lier-Belgium