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## RECIPROCATING SAW 20V

### POWDP25110

#### 1 INTENDED USE

The reciprocating saw is designed for cutting the wood, iron, nonferrous metals and plastics, using a standard saw blade. 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. Pivot shoe
2. Quick release blade clamp
3. LED work light
4. Quick change lever
5. Lock- off button
6. ON / Off switch trigger
7. Soft grip
8. Saw blade (NOT included)
9. Charger
10. Battery pack with battery capacity indicator
11. Battery pack release button
12. Button for battery capacity indicator

#### 3 PACKAGE CONTENT LIST

- Remove all packaging materials.
- Remove remaining packing and package 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 packing materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.



**WARNING:** Packaging materials are not toys! Children must not play with plastic bags! Danger of suffocation!

- 1 x Machine
- 1 x Manual
- 1 x Battery pack
- 1 x Charger



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.		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)
	Wear noise protection		Ambient temperature 40°C max. (only for battery)
	Wear eye protection		Use battery and charger only in closed rooms
	Wear a mask in dusty conditions		Do not expose charger and battery pack to water
	Wear gloves		Do not incinerate battery pack or charger

## 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 an electric shock.
- Avoid body contact with earthed surfaces such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of an 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 an 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 an 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 an 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 an 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.
- Maintain power tools. 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 RECIPROCATING SAW**

- Do not start the tool with the blade touching any surface. The blade action will bounce the tool and may cause body injury.
- Allow the tool to come to a complete stop before putting it down. A running tool will jerk when the blade tip contacts any surface.
- Do not cut oversized work pieces
- Do not cut nails or screws unless you are using a blade specifically designed for this purpose. Inspect your material before cutting
- Before switching on the tool, be sure the blade is not contacting the work piece.
- Keep hands away from moving parts and on the top surface of the work piece. Do not place hands below work surface while saw is operating.
- Hold tool by insulated grip surface when performing an operation where the cutting tool may contact the hidden wiring or its own cord. Contact the live wire make exposed the metal parts of the tool alive and shock the operator.
- Do not stare at the tool with the blade touching any surface. The blade action will bounce the tool and may cause bodily injury.
- Always wear safety glasses or goggles, normal prescription eye or sunglasses are not safety glasses
- Check your area for proper clearance before cutting. This will avoid cutting into your workbench, the floor, etc.
- This product is not a toy. Keep it out of reach of children.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - Avoid operating alone.
  - Do not use with power switch locked on.
  - Properly maintain and inspect to avoid electrical shock.

**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

- 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 machine is switched off or remove the battery pack.**

- Hold the tool with one hand and the battery pack (10) 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 (12). 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 ASSEMBLY

### 9.1 Install or remove the saw blade (Fig 4)



**WARNING: Before making any adjustments ensure the saw is switched off with the lock-off button in the centre position and remove the battery from the saw.**

- Rotate the Quick-release blade clamp (2) anticlockwise with hand.
- At the same time push blade (8) to the deepest position, then release the quick-release blade clamp (2). Make sure it is securely fastened.
- When removing the saw blade (8), follow the above procedure in reverse order.



**WARNING! Before plugging in battery pack, always pull on the blade to make sure it is securely locked in the clamp. Failure to do so may result in serious injury.**

## 10 OPERATION

### 10.1 Switch on/off (Fig. 5)

- Make sure the battery pack is installed.
- Push the lock-off button (5) towards left or right and squeeze the ON/OFF switch trigger (6).
- To switch off simply release the ON/OFF switch trigger (6).

### 10.2 To change angle of the pivot shoe assembly (Fig. 6)

The pivot shoe assembly can be adjusted in a suitable angle by hand which is convenient for operating this tool.

### 10.3 To change position of the pivot shoe assembly (Fig 7)

- Pull-open the quick-change lever (4) to the max. angle, pull or push the shoe (1) to a desired position.
- Push-back the lever to lock it, pull or push the shoe to ensure it is immovable.



**WARNING: Cutting into electrical wiring in walls can cause blade, blade clamp, and saw bar assembly to become electrically live. Do not touch metal parts when cutting into a wall; grasp only the insulated gripping surfaces provided by the tool. Make sure hidden electrical wiring, water pipes, and mechanical hazards are not in the blade path when cutting into a wall.**

**10.4 LED work-light (Fig. 8)**

The LED work light (3), comes on when you press the switch, which keep the work area to be lighted for checking clearly at first, and it lights also during your operation.



**NOTE:** The LED work-light delay about 5s to extinguish after turn off the tool.



**WARNING:** Do not stare directly at the light beam. Never aim the beam at any person or an object other than the work piece.



**Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person for longer than 0.25s.**

**11 GENERAL OPERATING INSTRUCTIONS**

- Slide a fully charged battery pack into the bottom of the handle, making sure that it clicks into place. Be sure the battery pack is securely seated into the saw handle so it will not fall off during use.
- Firmly hold the reciprocating saw with both hands. Position the Blade near the work piece, depress the lock-off button (5) and hold the ON/OFF switch trigger (6) down.
- Release the lock-off button once the tool has power. Allow the saw to come up to full speed before addressing it to the work piece.



**IMPORTANT: Do not start the saw if the saw blade is in contact with anything before operation. If necessary, lift the tool from the work piece before squeezing the ON/OFF switch trigger.**

- In preparation for making a cut, place the pivot shoe assembly (1) on the surface to be cut. Align the saw blade with the direction of the cut and slowly lower the saw blade onto the cut line to begin the cut. Do not attempt to cut with the tip of the blade; kickback and damage to the blade could result.
- When finished cutting, release the ON/OFF switch trigger to stop the tool.
- Remove the battery pack and the saw blade.
- Clean, then store the saw indoors and out of children's reach.

**11.1 General cutting**

Clamp your work piece if it is portable. Rest the front shoe of the saw on your work piece (be sure the blade is not contacting the work piece) and start the saw, exerting enough pressure in the direction of the cut to keep the shoe pressed firmly against the work piece at all times. Do not force the cut or stall the saw. Don't bend or twist the blade, let the tool and the blade do the work.

In general, coarser blades are for wood, plastics, and composites, and finer blades are for cutting metal. Chattering or vibration may indicate you need a finer blade or higher speed. If the blade overheats or clogs, it may indicate you need a coarser blade. Replace blades when they become dull. Dull blades will produce poor results and may overheat the saw.

**11.2 Metal cutting**

Blades specifically designated for cutting metals must be used for this purpose. You may use light oil as a coolant when cutting metal, this will prevent overheating of the blade, help the blade cut faster, and promote longer blade life.

## 12 CLEANING AND MAINTENANCE

### 12.1 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.

## 13 TECHNICAL DETAILS

Model nr.	POWDP25100
Rotation speed	0-2800min <sup>-1</sup>
Rated voltage	20V
Battery connection	Slide-on
Cutting depth steel	10mm
Cutting depth wood	120mm
Adjustable pivot shoe	Yes
Quick change blade	Yes
Soft grip	Yes
Soft touch	Yes
LED light	Yes
Reciprocating stroke	28mm

## 14 NOISE

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

Acoustic pressure level LpA	78dB(A)
Acoustic power level LwA	89dB(A)



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

aw (Vibration)	10.8m/s <sup>2</sup>	K = 1,5 m/s <sup>2</sup>
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**15 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), 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.

**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 Rompu N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM,  
declares that,

Product: Reciprocating saw 20V  
Trade mark: PowerPlus  
Model: POWDP25100

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);

EN62841-1 : 2015  
EN62841-2-11 : 2016  
EN55014-1 : 2017  
EN55014-2 : 2015

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

The undersigned acts on behalf of the company CEO,

Ludo Mertens  
Regulatory Affairs – Compliance Manager  
26/11/2020, Lier - Belgium