

<b>1</b>	<b>APPLICATION</b> .....	<b>2</b>
<b>2</b>	<b>DESCRIPTION</b> .....	<b>2</b>
<b>3</b>	<b>PACKAGE CONTENT LIST</b> .....	<b>2</b>
<b>4</b>	<b>SYMBOLS</b> .....	<b>3</b>
<b>5</b>	<b>GENERAL POWER TOOL SAFETY WARNINGS</b> .....	<b>3</b>
5.1	<i>Working area</i> .....	3
5.2	<i>Electrical safety</i> .....	3
5.3	<i>Personal safety</i> .....	4
5.4	<i>Power tool use and care</i> .....	4
5.5	<i>Service</i> .....	4
<b>6</b>	<b>ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS</b> .....	<b>5</b>
6.1	<i>Batteries</i> .....	5
6.2	<i>Chargers</i> .....	5
<b>7</b>	<b>CHARGING AND INSERTION OR REMOVAL OF BATTERY</b> .....	<b>5</b>
7.1	<i>Charger indications (Fig. 1)</i> .....	5
7.2	<i>Removal / insertion of battery (Fig. 2)</i> .....	6
7.3	<i>Battery capacity indicator (Fig. 3)</i> .....	6
<b>8</b>	<b>OPERATING INSTRUCTIONS</b> .....	<b>6</b>
8.1	<i>Sanding</i> .....	6
8.2	<i>Switching On-off</i> .....	7
8.3	<i>Attaching the sandpaper</i> .....	7
8.4	<i>Using the dust collection box</i> .....	7
<b>9</b>	<b>TECHNICAL DATA</b> .....	<b>7</b>
<b>10</b>	<b>NOISE</b> .....	<b>7</b>
<b>11</b>	<b>CLEANING AND MAINTENANCE</b> .....	<b>8</b>
<b>12</b>	<b>STORAGE</b> .....	<b>8</b>
<b>13</b>	<b>WARRANTY</b> .....	<b>8</b>
<b>14</b>	<b>ENVIRONMENT</b> .....	<b>9</b>
<b>15</b>	<b>DECLARATION OF CONFORMITY</b> .....	<b>9</b>

# PALM SANDER 20V (NO ACCU) POWDP5020

## 1 APPLICATION

The sander is used to sand and buff wood, plastic and similar materials. It is very important to use the correct sandpaper!!!! Not suitable for professional use.



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

## 2 DESCRIPTION

1. Sandpaper
2. On/off switch
3. Soft grip
4. Release latch for battery pack
5. Battery pack
6. Sanding base
7. Dust collection box

## 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!**

1x palm sander 20V  
10x sandpaper(2x 80gr, 4x 120gr, 4x 240gr)  
manual



**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)
	Ambient temperature 40°C max. (only for battery)		Do not expose charger and battery pack to water
	Use battery and charger only in closed rooms		Do not incinerate battery pack or charger
	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 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 BATTERIES AND CHARGERS

### 6.1 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.**

### 6.2 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.

## 7 CHARGING AND INSERTION OR REMOVAL OF BATTERY

### 7.1 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.**

## **7.2 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 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.

## **7.3 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 (A) 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

# **8 OPERATING INSTRUCTIONS**

Before attempting to use your sander be sure to familiarize yourself with all its operating features and safety requirements.



**Warning! The sander should always be disconnected from the power supply when assembling parts, marking adjustments, cleaning or when the tool is not in use. Disconnecting the tool will prevent accidental starting that could cause serious injury.**



**Do not sand plaster surfaces, (WARNING: In this case your guarantee becomes void) this may clog the motor (brushes, ball bearings, ..).**

## **8.1 Sanding**

- Hold the sander in front and away from you, keeping it clear of the work piece.
- Start the sander
- Let the motor build up to speed then gradually lower it on to the work with a slight forward movement .

- Move the sander slowly over the work piece using forward and back or side to side strokes.
- Upon completion of the sanding operation remove the sander from the work piece before turning it off.

### 8.2 Switching On-off

Connect the battery pack (5) to the power tool by pushing the release latch (4). The tool is switched "On" by the ON/OFF switch (2) located on the front of the tool housing. Press On-off switch I/O

### 8.3 Attaching the sandpaper

- Select sandpaper with the correct grain size. Make sure the perforations in the paper coincide with those on the sanding base plate.
- The sandpaper should rest flush on the base plate and must not come loose.
- You can be sure to find the right sandpaper among our product range (see technical specifications).

### 8.4 Using the dust collection box

The dust extraction system extracts sanding dust from the work piece through the holes in the backing pad. The dust is then transferred through the dust extraction port on the rear of the sander housing. (Fig. 4)

- To install: Insert the dust box (7) into dust extraction port, rotate the dust box anti-clockwise by hand and lock on the correct position, make sure the dust bag is tightly fastened.
- To remove: When removing the dust box, follow the above procedure in reverse order. If the dust collection box is full, you can remove it from this tool and open the cover of box to empty and clean the dust collection box. (Fig. 5)
- To remove: Hold the top cover (a) with one hand and the lower cover (b) with the other. Disconnect the top cover from the lower cover.
- To install: When assembling the dust collection box, follow the above procedure in reverse order.

## 9 TECHNICAL DATA

Rated Voltage (DC)	20V
Rotation speed	12000min <sup>-1</sup>
Sanding surface	140x140x80mm
Carbon brush motor	Yes
Oscillation speed	24000min <sup>-1</sup>
Soft grip	Yes
Hook&loop system	Yes

## 10 NOISE

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

Acoustic pressure level LpA	71dB(A)
Acoustic power level LwA	82dB(A)



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

aw (Vibration):	7,3 m/s <sup>2</sup>	K = 1.5 m/s <sup>2</sup>
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## 11 CLEANING AND MAINTENANCE

- The machine does not require any special maintenance.
- For safe and efficient working, always keep the machine and the ventilation slots clean.
- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

## 12 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.

## 13 WARRANTY

- This product is warranted as provided by law 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.

## 14 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.

## 15 DECLARATION OF CONFORMITY



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

Product: Handpalm Sander 20V  
Trade mark: POWERplus  
Model: POWDP5020

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  
EN62841-2-4 : 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,

Hugo Cuypers  
Certification Manager  
Lier, 13/02/2019