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# POWERPLUS

## BENCH GRINDER (WET/DRY)

### POWE80085

POWE80085

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## 1 APPLICATION

This grinder is a combination tool for coarse and fine grinding. The tool was developed mainly for the machining and sharpening of knives, scissors, shears, chisels, etc. and tools with cutting edges. All other applications are expressly excluded.



**Attention! Only grinding discs must be used which have been tested to DSA standards and WHICH carry information about the maker, kind of bond, dimensions and permissible rotary speed.**



**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

1. Water tank
2. Wet grinding stone
3. Protective shield
4. Spark screen
5. Dry grinding stone
6. Rest
7. Mounting holes
8. On/of button

## 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!**





1PC machine  
1SET holder  
1SET screw  
1PC transparent eye guides  
1PC filler  
1PC manual



**When parts are missing or damaged, please contact your dealer.**

## 4 EXPLANATION OF SYMBOLS

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

	In accordance with essential applicable safety standards of European directives
	Read manual before usage
	Denotes risk of personal injury or damage to the tool.
	Wear 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

- 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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery 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 ADDITIONAL SAFETY INSTRUCTIONS FOR BENCH GRINDERS**

- The machine is equipped with a three-core power supply cable and a plug with an earth pin. It is therefore essential that it should be plugged into a standard socket, properly earthed and protected upstream against overloads (by a 16A fuse or a 16A magneto thermal safety device). If you use an extension cable, make sure it is also three-core with earth.
- The supply cable is intended for normal conditions of use. It is designed to resist normal mechanical stresses. Do not make loops in the cable or put objects which might damage it on top of it. Also make sure that the cable does not come into contact with any liquid or any source of heat and that it is not used in a damp environment. Do not withdraw the plug from the socket by pulling on the cable.

- Before any maintenance operation, manipulation or any intervention on the machine (such as assembly, disassembly, adjustment, etc), always disconnect the power supply plug and wait until the machine has come to a standstill.
- It is compulsory to wear certified gloves and protective goggles when using the device.
- Never use the machine without its protective guard and “spark guards”.
- Always check that the work supports are firmly fixed before using the machine.
- As the wheel wears down, adjust the work support and screen slide:
  - 1.5mm between the work support and the wheel
  - 2mm between the slide and the wheel
- When using the grinder, stand in a stable, balanced position, without stretching, and keep children at a distance.
- Never leave the machine running unsupervised. Keep the workshop clean and tidy.
- Before use, make sure the grinding wheels are not damaged or cracked. If there is the slightest doubt, replace at once (a damaged grinding wheel can fly apart at speed).
- Replacement grinding wheels must be identical in characteristics and dimensions.
- This machine is not suitable for grinding soft substances such as lead, magnesium or light alloys.

## 7 ASSEMBLY



**ATTENTION! Disconnect the power plug before carrying out any adjustments or maintenance.**

Secure the bench grinder to the workbench by inserting suitable bolts through the mounting holes (7). Check that the bench grinder is securely attached and level. If required, a piece of soft wood can be inserted between the bench grinder and workbench during assembly to damp vibrations.

Adjust the rest (6), so that it is a maximum of 2 mm from the dry grinding stone (5).

Attach the spark screen (4) to the protective shield by mounting the base of the screen (d) so that it is a maximum of 2 mm from the dry grinding stone, and securing it with the screw ©, nut washers and the nut (a). Tilt the spark screen forward on its hinge (b) and check that it is correctly positioned. Insert the plug into the mains socket.

## 8 GRINDING

- For dry grinding: adjust the rest as described above.
- For wet grinding: fill the water tank (1) with water until the water comes halfway up to the centre of the wet grinding stone.
- Switch the bench grinder on using the on/off button (8) and allow the grinder to reach full speed before beginning to work on the item.
- Present the item to the stone slowly and evenly and then gently increase the pressure against the stone.



**Never present the item abruptly to the stone, as this may cause the item to kick back and damage the grinding stone or cause injury to the user or other people.**

- Hold the item firmly with both hands to prevent it getting stuck between the grinding stone and rest, which can damage the stone.
- Do not use the bench grinder for more than 30 minutes at a time. Allow the machine to cool down before using it again.
- Check the water level in the tank regularly and refill with clean water.
- Switch off the bench grinder after use.

- Empty the water tank by removing the plug on the underside of the tank. Make sure that the water does not get into the motor!

### **8.1 General information on grinding**

- Use the dry grinding stone for rough grinding and the wet grinding stone for fine grinding.
- Never grinds materials such as wood, plastic or very soft metals (e.g. lead), as they can block the pores of grinding stones, reducing their effectiveness.
- Use dry grinding stones for soft metals and wet grinding stones for hard metals.
- Cool the item in water at regular intervals when working for extended periods.
- When grinding tools, never allow the metal to blue.

## **9 REPLACING GRINDING STONES**

Grinding stones must be replaced when they have worn more than 40mm or if they become damaged.

### **9.1 Wet grinding stone**

- Empty the water tank by removing the plug (h) on the underside of the tank. Make sure that the water does not get into the motor! Remove the water tank.
- Loosen the nut (i) and remove the outer flange (f) and the old wet grinding stone.
- Clean the flanges (f and g).
- Attach the new wet grinding stone, to tighten the grinding wheel, hold the grinding wheel firmly by hand and tighten the nut (the thread is opposite-handed to the direction of rotation causing automatic tightening) fit the outer flange and secure it with the nut
- Reattach the water tank and insert the plug.

### **9.2 Dry grinding stone**

- Remove the protective shield and the spark screen. Loosen the nut (l) and remove the outer flange (k) and the old dry grinding stone.
- Attach the new dry grinding stone, to tighten the grinding wheel, hold the grinding wheel firmly by hand and tighten the nut (the thread is opposite-handed to the direction of rotation causing automatic tightening) fit the outer flange and secure it with the nut.
- Replace the protective shield and the spark screen.
- Start the bench grinder and let it run freely for a few minutes to check that the stone is fitted correctly.

## **10 CLEANING AND MAINTENANCE**

Clean the bench grinder by wiping its exterior parts with a damp cloth. Grinding dust and filings can be removed using a brush or compressed air.

Do not use corrosive or abrasive cleaning agents.

### **10.1 Lubrication**

- The transmission gear for wet grinding stone must be lubricated regularly.
- Remove the water tank and the cover (m) from the gearbox (o).
- Lubricate the transmission gear (n) with plenty of ball bearing grease.
- Replace the cover and water tank.
- Do not lubricate the rest of the bench grinder.

**11 TECHNICAL SPECIFICATIONS**

Rated Voltage	230V
Rated frequency	50Hz
Rated Power	250W (S2:30min)
Protection class	Class I
Dry grinding stone	
Rotation speed	2950 min <sup>-1</sup>
Diameter	150 mm
Hole diameter	12.7 mm
Thickness	20 mm
Wet grinding stone	
Diameter	200 mm
Hole diameter	20 mm
Thickness	40 mm

**12 NOISE**

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

Acoustic pressure level LpA	63 dB(A)
Acoustic power level LwA	76 dB(A)



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

## 13 WARRANTY

- This product is warranted as provided by law 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.

## 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.

# POWERPLUS

## 15 DECLARATION OF CONFORMITY

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**VARO N.V.** - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,  
product BENCH GRINDER (WET/DRY)  
trade mark PowerPlus  
model POWE80085

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);  
EN61029-1 : 2009  
EN61029-2-4 : 2011  
EN55014-1 : 2006  
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,

Hugo Cuypers  
Regulatory Affairs – Compliance Manager  
22/12/17