SLIDING MITRE SAW 1600 W-210 MM
POWX075710S

1 APPLICATION

This power tool is intended as a stationary machine for making straight and cross cuts in wood.
You can saw hard and soft wood as well as chip and fibre boards.
Only adults may use this tool.
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 & B)

1. Protective hood
2. Saw blade
3. Side support bar
4. Fence
5. Saw table
6. Lever
7. Table insert
8. Scale for mitre angle (horizontal)
9. Mounting hole
10. Lock for clamping device
11. Clamp
12. ON / OFF switch laser
13. Slide bar
14. Operating handle
15. ON / OFF switch
16. Release lever
17. Retaining pin
18. Dust collection bag
19. Angle scale
20. Angle lock lever
21. Slide bar lock
22. Side support bar screws
23. Laser
24. Spindle lock
25. Pointer
26. Turntable lock screw
27. Support bolt
28. Cutting depth gauge
29. Adjustable fence locking knob

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!

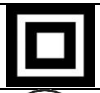
In this packaging, you can find:

1 sliding mitre saw
1pc 6mm hex spanner,
1 set clamp
1 Turntable lock screw
1 manual
2 side guides
1 dust bag

If any parts are missing or damaged, please contact your dealer.

4 SYMBOLS

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

	Denotes risk of personal injury or damage to the tool.		Wear ear guards and goggles.
	Read manual before use.		In accordance with essential requirements of the European directive(s).
	Class II - The machine is double insulated; Earthing wire is therefore not necessary.		
	Wear gloves.		Wear a mask In dusty conditions.

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.
- 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 tools 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

- Always wear eye protectors.
- Never use the equipment in the presence of flammable liquids or gases.
- NEVER use the equipment when a cutting disc (and not a saw disc) has been attached.
- Before each use, check the saw blade for small cracks or damages. Replace a cracked or damaged blade immediately.

- Only use saw blades that are recommended by the manufacturer and that fulfil the EN847-1 standard.
- Always use the accessories that are recommended by this manual.
- Select the correct saw blade for the material must be sawn.
- To reduce the generation of noise, always make sure that the blade is sharp and clean.
- Only use correctly sharpened saw blades. Never exceed the maximum speed that is indicated on the saw blade.
- Before installing the saw blade, clean the axle, the flanges (especially the assembly surfaces) and the hexagonal nut. Incorrect mounting can lead to vibrations/knocking or slipping of the saw blade.
- Prevent that the saw comes into contact with metals, such as nails and screws. Search for and remove all nails, screws and other foreign materials from the workpiece, before you start to work.
- Remove spanners, cut off pieces and the other items from the saw table, before turning on the switch.
- NEVER wear gloves while working; the wearing of gloves is only recommended while cutting tools are being replaced.
- Make sure that your hands stay clear of the cutting line of the saw blade.
- NEVER stand in the cutting line of the saw blade and NEVER let anyone else stand in that position.
- Let the saw run for a few moments before inserting a workpiece. Listen for vibrations or knocking of the saw blade, which can indicate improper mounting or balancing of the blade.
- The equipment may not be used for making grooves or recesses.
- Replace the table insert when it is worn out.
- NEVER make any adjustments on the machine while it is turning. Remove the plug from the socket before making any adjustments.
- If necessary, use a push block. A push block MUST be used for longitudinal sawing of smaller workpieces, so that your hands and fingers are kept well away from the saw blade.
- Always store your push block, whenever it is not in use.
- Pay special attention to the instructions that help to reduce the hazard of KICK BACK. KICK BACK is a sudden reaction to a jammed, bent or badly aligned saw blade. KICK BACK causes the workpiece to be thrown back in the direction of the operator. KICK BACK can lead to serious injuries. KICK BACK can be avoided by keeping your saw blade sharp, by keeping the rip fence parallel to the saw blade, by maintaining the riving knife and the saw guard in good condition and in the right position, by keeping a good grip on the workpiece until you have pushed it completely past the saw blade, and by not sawing any twisted or skewed wood pieces, or pieces that do not have a straight edge for moving along the rip fence, in a longitudinal direction.
- Do not carry out any free-hand operations. Free-hand means that you use your hands for supporting the workpiece, or for leading it with your hands, instead of using the rip fence or the mitre block.
- NEVER bend over or around the saw blade. NEVER reach for a workpiece, before the saw blade has come to a complete stop.
- Avoid a sudden or too quick infeed of a workpiece. Workpieces made of hard material should be fed in as slowly as possible. Never fold or turn a workpiece while feeding it into the saw. If the saw blade jams or ceases to turn while the workpiece is being fed in, turn the equipment off immediately. Remove the plug from the socket. Remove the piece that is blocking the saw.
- NEVER try to remove sawed off chips, and never touch the saw guard, as long as the saw blade is turning.
- Remove all lose knots from the workpiece, BEFORE starting to saw.

- Do not maltreat the cable. Never pull on the cable, for removing the plug from the socket. Do not expose the cable to heat, oil, water or sharp edges.
- Some types of dust that is generated while working with the saw may contain chemicals, which can cause cancer, birth defects or other genetic damages. Some examples of these substances are:
- Lead derived from paints containing lead;
- Arsenic and chrome from chemically treated wood.
- The hazard to your health from such exposures is dependent on how frequently you do this kind of work.
- Measures for reducing your exposure to such chemicals: Always work in well-ventilated surroundings and with certified safety equipment, such as dust masks that have been specially designed for filtering out microscopic particles.
- For sawing operations, connect the equipment to a dust exhaust system.
- The guard may be lifted up while positioning a workpiece, or for easier access during maintenance works. Make sure that the saw guard has been lowered and is positioned flat against the sawing table, before connecting your tool to the mains supply.
- Ensure that the equipment for swinging the arm on mitre saws is securely fastened.
- The floor around the machine must be flat, clean and clear of loose particles such as ships and off-cuts.

7 ADDITIONAL SAFETY INSTRUCTIONS FOR LASERS

Warning! The laser beam potentially causes eye damage. Do not look or stare into the laser beam.

- During use, do not point the laser beam at people, directly or indirectly through reflecting surfaces.
- This laser complies with class 2 according to the relevant standard. The unit includes no servicing components. Do not open the housing for any reason. If the unit is damaged, have the damage repaired by an authorized repair agent.
- Laser viewing glasses are not protective glasses against laser radiation.

8 ASSEMBLY

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

Do not operate this mitre saw until it has been fully assembled and correctly prepared for use in accordance with this instruction manual.

8.1 Assembling the side support bars

- Place the two guide rails into the side supports and secure them.
- Loosen the screw and place the side support bars into the positioning holes.
- Secure the side support bars with the screw to prevent them sliding out of position.

8.2 Assembling the clamp

The clamp (11) can be installed on either left or right side of the guide fence. Insert the vise rod into the hole in the guide fence and fasten with locking screw

9 OPERATING INSTRUCTIONS

9.1 Transporting the mitre saw

To transport the power tool, use the retaining pin (17).

Pull the mitre saw downwards and lock it in the lowered position by pushing in the retaining pin. That way, the saw is secured.

9.2 Dust and chip extraction

For integrated dust extraction, place the dust bag (18) on the sawdust outlet.
For external dust, you can use a vacuum cleaner hose.

The dust bag is only for a partial dust removal! It is designed to break the dust extraction.

9.3 Clamping the work piece

Make sure the work piece can't be catapulted. The clamp(11) is the most perfect gadget to avoid this.

- Press the work piece against the fence (4) and between the clamp
- Tighten the clamp (11) clockwise to secure the work piece.

9.4 Horizontal mitre angle

The horizontal mitre angle can be set in the range from -45° to 45°. The horizontal mitre angle scale shows the currently set in degrees.

- To adjust the mitre angle, loosen the turntable locking handle (26) anticlockwise and uplift the adjustment lever (6).
- Then rotate the mitre table to the desired position.
- The mitre table features positive click stops at 0°, 15°, 22,5°, 31,6° and 45° for quick setting of the common angels.

9.5 Adjusting of the cutting angle

- Position the saw in the lower position and block it with the retaining pin.
- Now hold the try square (90°) against the guide rail and the saw blade. The latter must make complete contact with the try square. If this is not the case, then you can adjust the angle by loosening the counter nut and adjust with adjustment bolts until the angle between the blade and the turn table equals 90°.
- To carry out this step, use the delivered key for loosening the screws. Do not forget to re-tighten the screws afterwards.

9.6 Vertical bevel angle

The vertical bevel angle can be set in the range of 0° to 45°. The vertical bevel scale shows the currently set in degrees.

- Loosen the locking lever (20), if tightened.
- Swing the tool arm with the handle to the required angle.
- Tighten the locking lever (20).
- Place a protractor at the side of the saw blade and table, if the angle is not 45° bevel angle. Adjusting the height of the adjustment screw until the bevel angle is the correct angle. Finally tighten the nut and check the angle once more.

9.7 Slide lock adjustment

- To unlock and lock the slide bar (13), turn the slide bar lock knob (21) counterclockwise or clockwise

For long workpieces you should use the slide; loosen the locking knob for this purpose.

- Saw trough the work piece.
- Switch off the power tool.
- Wait until the saw blade (2) has come to a complete standstill before removing the work piece.

9.8 Switching ON / OFF

For your safety use both hands to switch the power tool on and off.

- Connect the power tool to the power supply.
- Unlock the lock-off button and depress the on/off switch (15) in the direction of the handle. The saw blade rotates as long as you keep the switch engaged.
- When you want to turn off the machine, you have to release the on/off switch (15).

9.9 Laser

- You can switch the laser ON and OFF with the switch (12)
- The laser (23) directs a beam onto the workpiece
- Extremely precise cuts can be made using the laser function.

9.10 Dust bag

To attach the dust bag (18), fit it onto the dust extraction adapter. When the dust bag is about half full, remove the dust bag from the tool and empty it.

9.11 Sawing

Make sure the saw blade doesn't block while you are sawing. It causes damage to and burning of the motor. If there is a blockade of the saw blade, please loosen the switch immediately to prevent damage at the motor.

- Clamp the work piece firmly.
- Set the required horizontal mitre angle or the required vertical bevel angle.
- Switch on the power tool.
- Move the handle (14) slowly downwards. You have to push the safety switch (16) before you can do this.
- Saw trough the work piece.
- Switch off the power tool.
- Wait until the saw blade (2) has come to a complete standstill before removing the work piece.

9.12 Sawing special work pieces

Curved or round work pieces need to be secured against slipping.
Make sure there is no gap between the work piece and the fence (4) or the saw table (5).

9.13 Replacing the saw blade (Fig. 1)

Disconnect the tool from the outlet before working on the saw blade.

Wait a while before touching the saw blade. It can be very hot.

The teeth of the saw blade are very sharp.

- Press the blade guard release lever (16) and then rotate the lower retractable blade guard (1) upwards to expose the screw.
- Loosen the screw on the guard mounting plate with the provided multi tool.
- Slide the guard mounting plate upwards to expose the saw blade (2). The lower retractable blade guard (1) will be held by the blade guard the lower retractable blade guard (1) will be held by the blade guard.
- Press the spindle lock button (24) fully and hold it in position.
- Turn the clamping screw slightly with the provided multi tool until the spindle is locked.

- Loosen the clamping screw in clockwise direction and remove it together with the outer flange and saw blade (2). Do not remove the inner flange from the spindle
- Place a new saw blade on the spindle and make sure that the bore of the saw blade properly fits the inner flange . Ensure that the rotational direction indicated on the saw blade is the same as the one shown on the upper fixed blade guard.
- Secure the saw blade (2) with the outer flange and clamping screw. Tighten the clamping screw in anti-clockwise direction with the provided tool.
- Turn the saw blade by hand to test if it is rotating smoothly. It should not flutter.
- Secure the guard mounting plate and lower retractable blade guard (1) in reverse order as described above.

When replacing the saw blade, you can tighten the slide bar with the locking knob (21).

10 CLEANING AND MAINTENANCE

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

10.1 Cleaning

- Regularly clean the machine housing with a soft cloth, preferably after each use.
- 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.

Make sure no water can reach the inside of the power tool!

10.2 Connecting cable

If the connecting cable (or mains plug) is damaged, it must be replaced. Replacement of the connecting cable should only be carried out by a qualified specialist (qualified electrician).

11 TECHNICAL DATA

Nominal Voltage	220-240 V ~ 50 Hz
Power rating	1600 W (S6 25%)
No load speed	5000 min-1
Protection class	II
Blade size	210 mm x 30 mm x 2.6 mm

12 CUTTING CAPACITY

Worktable tilting angle	Head tilting angle	Height x width (mm)
90°	90°	70 x 305 mm
45°	90°	70 x 210 mm
90°	45°	35 x 305 mm
45°	45°	35 x 210 mm

13 NOISE

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

Acoustic pressure level LpA	97 dB(A)
Acoustic power level LwA	108 dB(A)

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

14 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.

15 TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor does not run.	No electricity arrives at the machine. The motor is overloaded or overheated.	Check the power supply and the power line. Allow the machine to run idle for about 2 minutes to cool down.
Vibrations are too strong.	Screws or parts are loose. The mitre saw is not correctly mounted. Work piece is not properly supported.	Tighten all screws. Mount the mitre saw correctly. Secure the work piece.

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 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, erroneus 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.

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

CE

varo

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

product: Sliding mitre saw
trade mark: POWERplus
model: POWX075710S

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
EN62841-3-9 : 2015
EN55014-1 : 2017
EN55014-2 : 2015
EN61000-3-2 : 2014
EN61000-3-11 : 2000

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

The undersigned acts on behalf of the company CEO,

Mertens Ludo

Ludo Mertens
Regulatory Affairs – Compliance Manager
21/01/2021, Lier - Belgium