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VEVOR PA250

VEVOR PA250 Electric Hoist User Manual

Model: PA250

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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your VEVOR PA250 Electric Hoist. Please read and understand all instructions before using the product. Keep this manual for future reference.



Figure 1: VEVOR PA250 Electric Hoist with key dimensions (Length: 13.5", Width: 5.5", Height: 7.8"). This image shows the overall structure of the hoist, including the motor, cable drum, hook, and remote control.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating the electric hoist. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Manual:** Ensure all operators have read and understood this manual before use.
- **Weight Limits:** Never exceed the rated lifting capacity of the hoist (125 kg / 275 lbs for single line, 250 kg / 550 lbs for double line with pulley hook).
- **Inspection:** Before each use, inspect the hoist, cable, hook, and mounting for any signs of wear, damage, or malfunction. Do not use if damaged.
- **Stable Mounting:** Ensure the hoist is securely mounted to a structure capable of supporting the hoist's weight plus the maximum load.
- **Clear Area:** Keep the lifting area clear of personnel and obstructions. Never lift loads over people.
- **Balanced Load:** Ensure the load is properly balanced and secured before lifting.

- **Power Supply:** Connect the hoist to a grounded power outlet with the correct voltage (220 Volts) and frequency.
- **Emergency Stop:** Familiarize yourself with the emergency stop procedure.
- **Avoid Side Pulling:** Do not use the hoist for side pulling or dragging loads. Lift vertically only.
- **Environmental Conditions:** Do not operate the hoist in hazardous environments, such as those with explosive atmospheres or excessive moisture.

3. PRODUCT OVERVIEW

The VEVOR PA250 Electric Hoist is designed for efficient and reliable lifting operations in various settings.

3.1 Key Components and Features

- **Full Copper Motor:** Equipped with a robust copper wire motor for enhanced durability and performance.



REMOTE CONTROL

Figure 2: Detail of the hoist's motor, highlighting its full copper winding for improved efficiency and lifespan.

- **High-Efficient Lifting:** Offers versatile lifting capacities depending on the configuration.



Figure 3: Illustration of the hoist's lifting capabilities: 275 lbs (125 kg) with a single line and 550 lbs (250 kg) with a double line using the pulley hook.

- **Durable Pulley Hook & Cable:** Features a strong steel cable and a robust hook, with an additional pulley hook for increased capacity.



WIDELY USED

Figure 4: Detailed view of the heavy-duty pulley hook and the durable steel cable, essential for secure lifting operations.

- **Remote Control:** Wired remote control for safe operation from a distance, featuring intuitive 'UP' and 'DOWN' buttons.

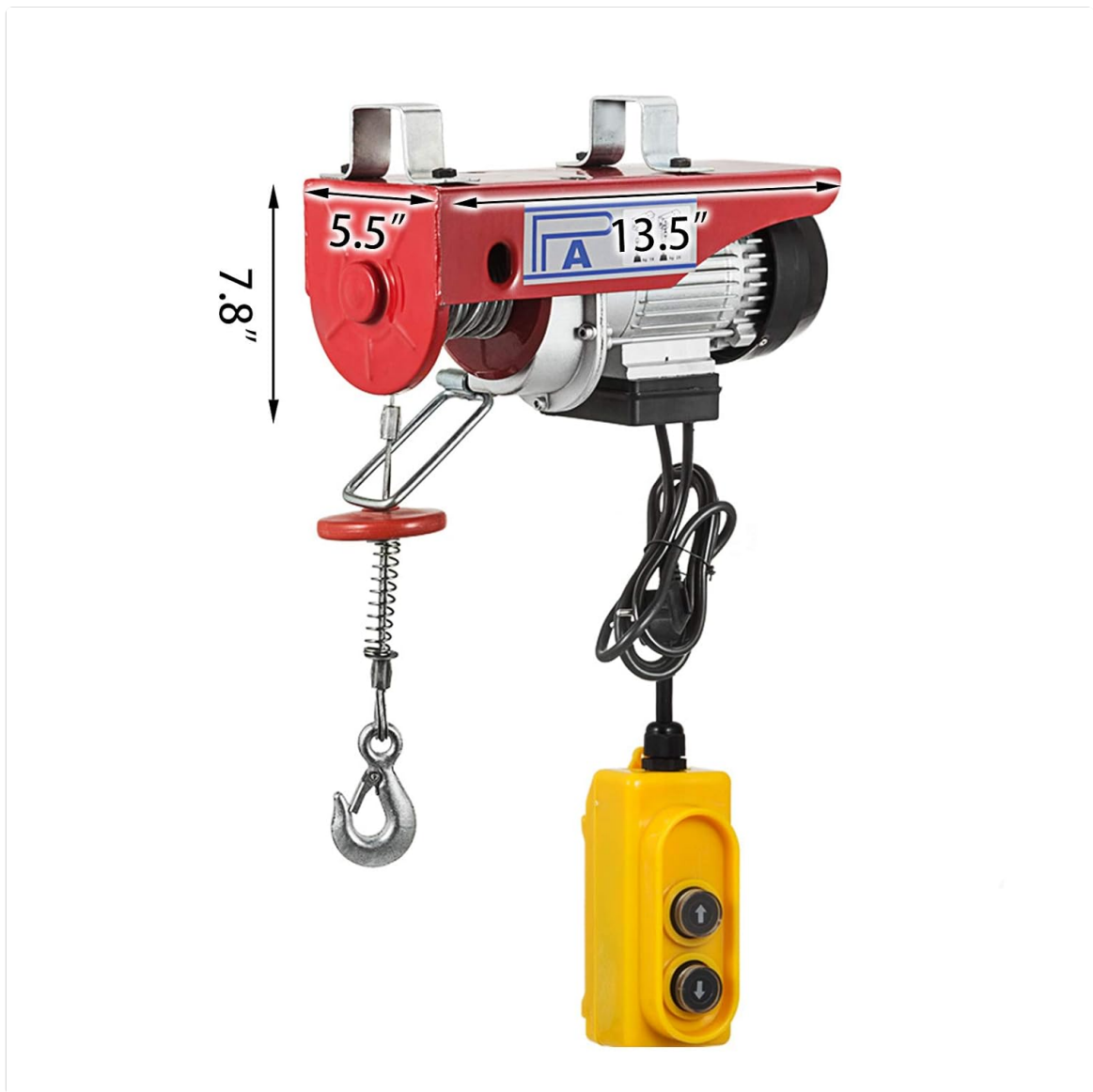


Figure 5: The wired remote control unit, showing the 'UP' and 'DOWN' buttons for precise load manipulation.

- **Limit Switch:** Integrated safety limit switch to prevent over-lifting or over-lowering, protecting the hoist and the load.



Figure 6: The limit switch, a crucial safety feature that automatically stops the hoist when the hook reaches its upper or lower travel limits.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your electric hoist.

4.1 Mounting the Hoist

1. **Select Location:** Choose a mounting location that is structurally sound and capable of supporting at least 1.5 times the maximum rated load of the hoist.
2. **Mounting Brackets:** Securely attach the hoist's mounting brackets to a suitable beam or support structure using appropriate hardware (not included). Ensure all bolts are tightened to the manufacturer's specifications.
3. **Clearance:** Ensure there is adequate clearance around the hoist for operation and maintenance, and that the cable can move freely without obstruction.

4.2 Electrical Connection

1. **Power Requirements:** Verify that your power supply matches the hoist's requirements (220 Volts, 500 Watts).

2. **Grounded Outlet:** Plug the hoist into a properly grounded electrical outlet. Do not use extension cords unless absolutely necessary and ensure they are rated for the hoist's power requirements.
3. **Cable Management:** Route the power cable and remote control cable to prevent entanglement or damage during operation.

4.3 Pulley Hook Installation (for Double Line Operation)

To achieve the maximum lifting capacity (250 kg / 550 lbs), install the pulley hook:

1. Loop the steel cable through the pulley wheel of the auxiliary hook.
2. Attach the end of the cable back to the hoist body at the designated anchor point.
3. Ensure the cable is seated correctly in all grooves and the hook is free to move.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your VEVOR PA250 Electric Hoist.

1. **Pre-Operation Check:** Before each use, perform a visual inspection of the hoist, cable, hooks, and mounting points for any damage or wear.
2. **Secure the Load:** Attach the load securely to the hook. Ensure the load is balanced and the hook's safety latch is closed. For double line operation, ensure the pulley hook is correctly installed.
3. **Position Yourself:** Stand at a safe distance from the load and the hoist, ensuring a clear view of the lifting area.
4. **Lift the Load:** Press the 'UP' button on the remote control to slowly raise the load. Observe the load's stability. If the load swings or is unbalanced, lower it and re-secure it.
5. **Lower the Load:** Press the 'DOWN' button to slowly lower the load. Guide the load if necessary, but never use your hands directly on the load while it is moving.
6. **Limit Switch Activation:** The hoist will automatically stop if the limit switch is activated (e.g., when the hook reaches its highest or lowest point). Do not attempt to override this safety feature.
7. **After Operation:** Once the task is complete, lower the hook to a safe position, disconnect the power, and store the remote control safely.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hoist.

- **Daily Inspection:** Visually inspect the cable for fraying, kinks, or corrosion. Check the hook for deformation or cracks. Ensure all fasteners are tight.
- **Cable Lubrication:** Periodically lubricate the steel cable according to the manufacturer's recommendations to prevent rust and wear.
- **Cleaning:** Keep the hoist body clean and free of dust, dirt, and debris. Do not use high-pressure water or solvents that could damage electrical components.
- **Motor Ventilation:** Ensure the motor's ventilation openings are clear to prevent overheating.
- **Professional Service:** For any complex repairs or internal component issues, contact qualified

service personnel.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your electric hoist.

Problem	Possible Cause	Solution
Hoist does not operate	No power supply Emergency stop engaged Overload protection activated	Check power connection and circuit breaker Release emergency stop button Reduce load, allow motor to cool
Motor runs but cable does not move	Cable jammed Brake malfunction	Inspect cable for obstructions, ensure it's properly wound Contact service personnel
Hoist stops during operation	Overload protection Limit switch activated Power interruption	Reduce load, allow motor to cool Move hook away from limit position Check power supply
Unusual noise during operation	Lack of lubrication Worn components Loose fasteners	Lubricate moving parts Inspect for worn parts, contact service Check and tighten all fasteners

8. SPECIFICATIONS

Technical details for the VEVOR PA250 Electric Hoist.

Feature	Detail
Model	PA250
Manufacturer	VEVOR
Voltage	220 Volts
Power	500 Watts
Single Line Lifting Capacity	125 kg (275 lbs)
Double Line Lifting Capacity	250 kg (550 lbs)
Product Dimensions (L x W x H)	39.12 x 24.89 x 16 cm (15.4 x 9.8 x 6.3 inches)
Product Weight	9.07 kg (20 lbs)

Feature	Detail
Reference Product Number	www123



Figure 7: Examples of typical environments where the VEVOR electric hoist can be effectively used, including workshops, garages, and industrial settings.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact VEVOR customer service through their official website or the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

