

OUZVI PA500

OUZVI Micro Electric Hoist PA500 User Manual

Model: PA500 | Brand: OUZVI

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, installation, and maintenance of your OUZVI Micro Electric Hoist PA500. Please read all instructions carefully before use to ensure personal safety and optimal product performance. The PA500 model is designed for household and light construction lifting tasks, featuring a robust internal structure, a reinforced copper core motor, and an anti-rotational steel wire rope for reliable performance.

2. SAFETY INSTRUCTIONS

Your safety is paramount. Always adhere to the following safety guidelines:

- **Electrical Safety:** Ensure the power supply is 220V and matches the hoist's requirements. Do not operate with damaged power cords or plugs. Always connect to a grounded outlet.
- **Load Capacity:** Never exceed the rated load capacity of 250 kg for single line or 500 kg for double line operation. Overloading can cause severe damage to the hoist and lead to accidents.
- **Inspection:** Before each use, inspect the hoist, wire rope, hook, and all connections for signs of wear, damage, or corrosion. Do not use if any component is compromised.
- **Limit Device:** The hoist is equipped with a user-friendly limit device to prevent over-lifting. Ensure it is functioning correctly. This device automatically stops the hoist when the hook reaches its upper limit, protecting the machine from damage.
- **Wire Rope:** The aerospace-grade galvanized anti-rotational steel wire rope is designed for strength and durability. Avoid kinks, twists, or fraying. Replace the rope if any damage is observed.
- **Hook Safety:** The alloy steel anti-detachment hook is designed for strong load-bearing without deformation or accidental detachment. Always ensure the load is securely attached to the hook and the safety latch is closed.
- **Operation Environment:** Operate the hoist in a clear area, free from obstructions. Keep bystanders away from the lifting area. Avoid operating in adverse weather conditions or hazardous environments.
- **Emergency Stop:** Familiarize yourself with the control pendant and emergency stop procedures. The

hoist features a 0.1-second lightning brake for immediate stopping.

- **Maintenance:** Only qualified personnel should perform maintenance or repairs. Disconnect power before any maintenance.

3. PRODUCT OVERVIEW AND COMPONENTS

The OUZVI Micro Electric Hoist PA500 is a compact and powerful lifting solution. Key components include the motor, wire rope drum, control pendant, and lifting hook.



Figure 3.1: Overall view of the OUZVI Micro Electric Hoist PA500, showing the motor housing, wire rope drum, yellow control pendant, and lifting hook.

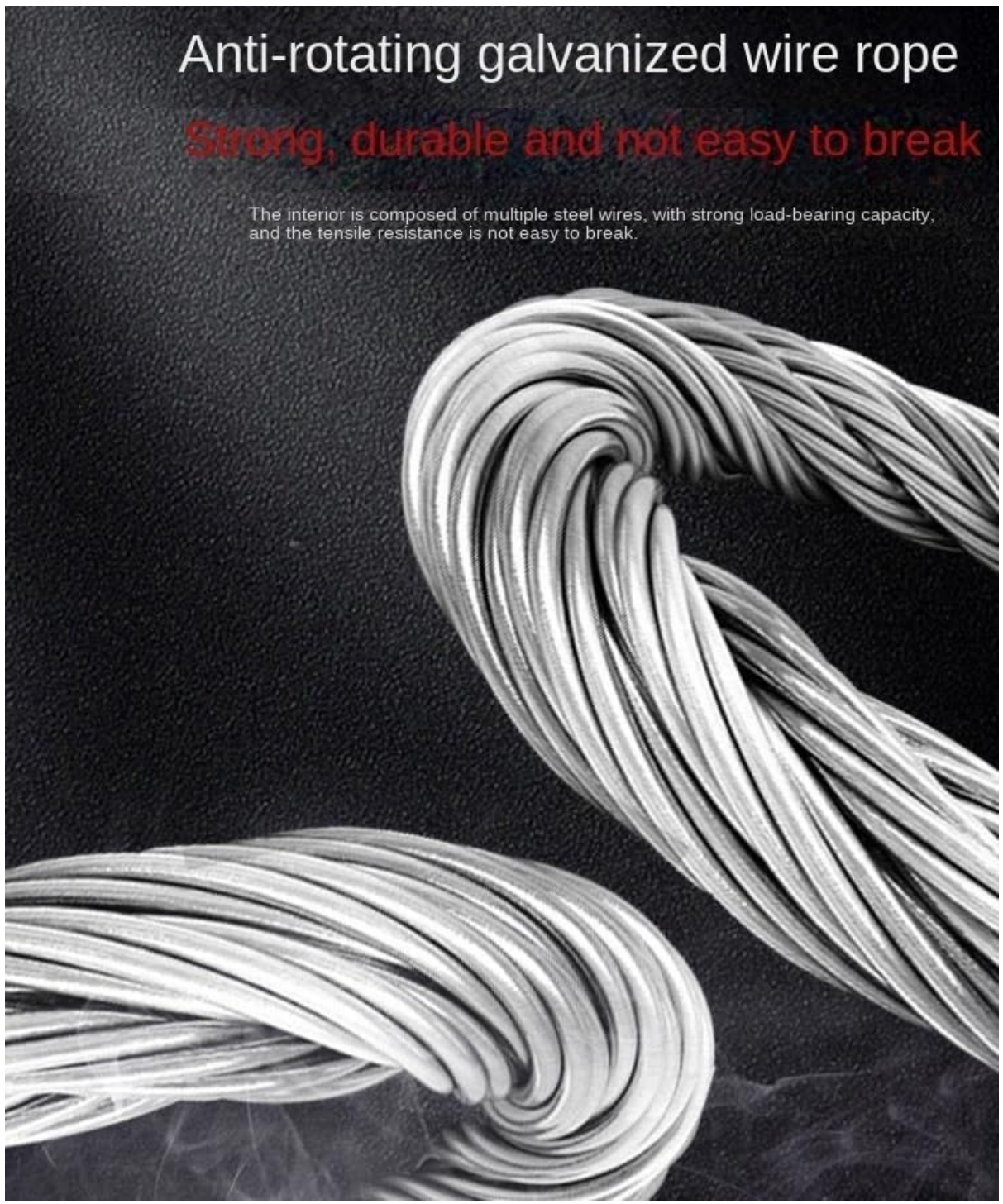


Figure 3.2: Detail of the lifting limit device, which automatically stops the hoist to prevent over-lifting and protect the mechanism.

Alloy steel forging gear

External gear secondary quenching process, strong pressure resistance and wear resistance

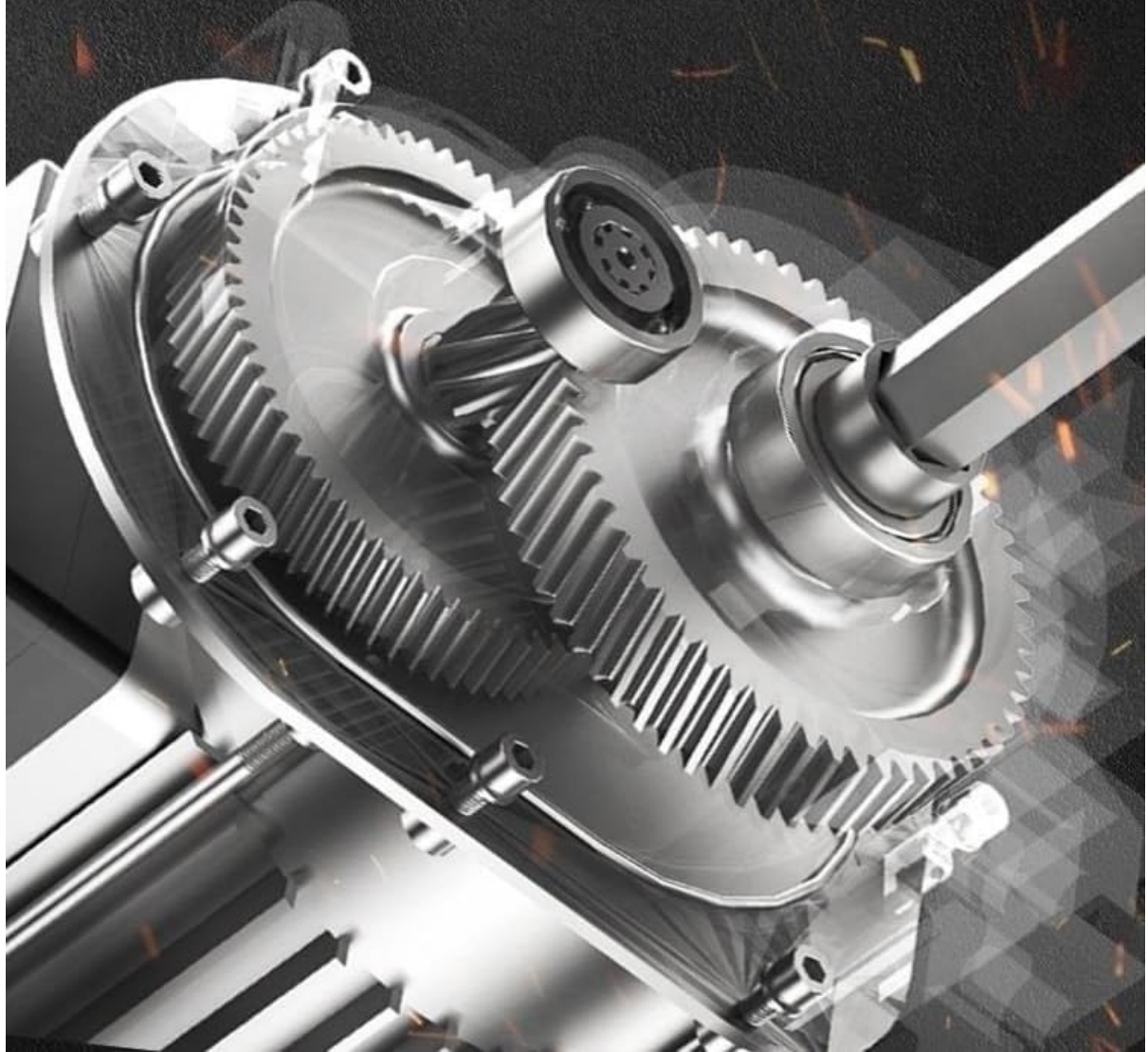


Figure 3.3: Illustration of the anti-rotating galvanized steel wire rope, designed for strength, durability, and resistance to twisting during lifting operations.

Thickened all-copper rewinding motor

Power up to 2500W

High quality pure copper wire to withstand high temperature of 200°C



Figure 3.4: Internal view showcasing the alloy steel forging gears, which undergo a secondary quenching process for enhanced pressure resistance and wear resistance.

One top and three top. The
power is as good as before

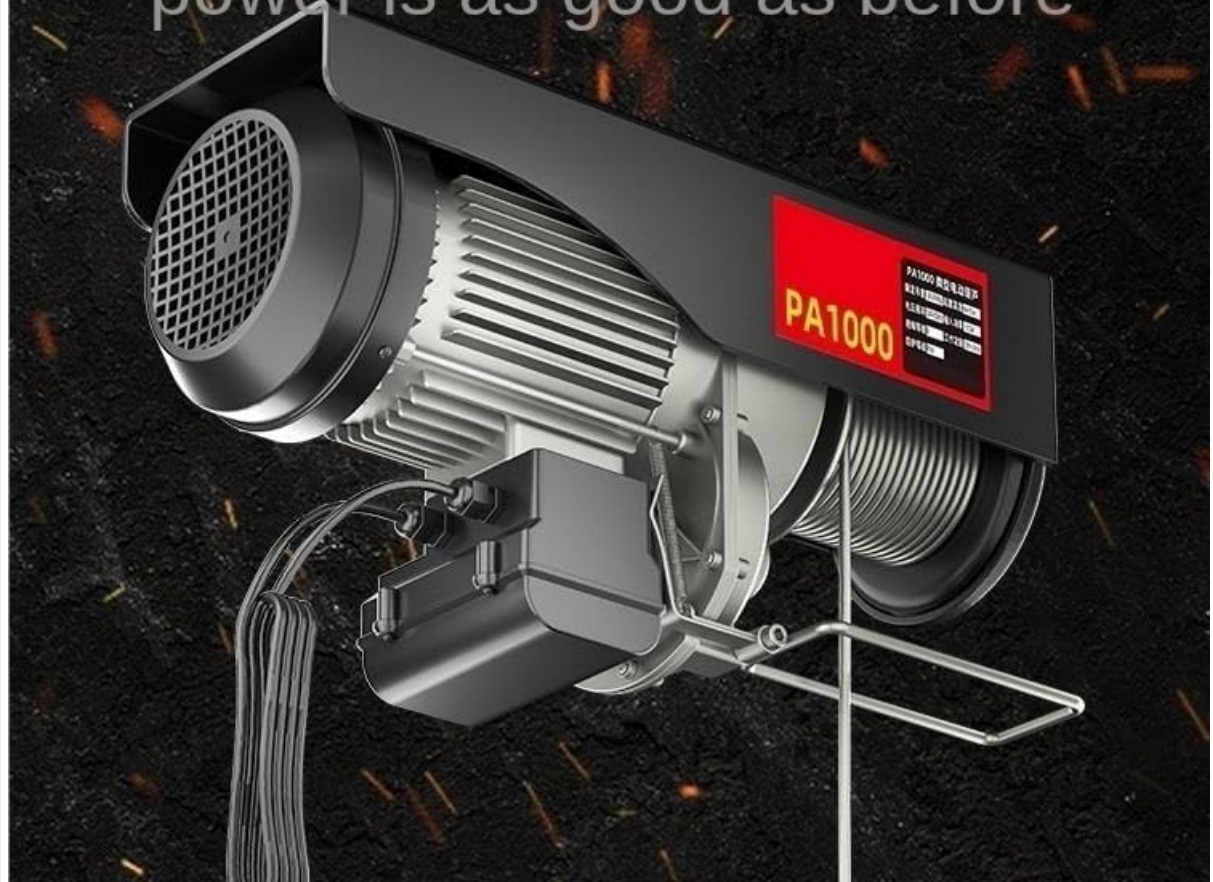


Figure 3.5: Cross-section illustrating the thickened all-copper rewinding motor, indicating high-quality copper wire capable of withstanding temperatures up to 200°C for reliable power delivery.

4. SPECIFICATIONS

Technical data for the OUZVI Micro Electric Hoist PA500:

PA500

Model	Standard rope length	Single/Double Crane load	Single/Double Crane speed	Recommended floor
PA500	12 m	250/500	12/6 per minute	Floor 1-4
Motor Power	Motor voltage	Starting capacitor	Handle line length	Recommended lifting
1150W	220V	30UF	3 M	Grain lifting

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- Strong lifting ear
- Mounting screw
- Double Rope hook
- Open wrench
- Hexagon socket
- Labor Protection Gloves

Figure 4.1: Detailed specifications table for the PA500 model.

Feature	Specification
Model	PA500
Standard Rope Length	12 m
Single Crane Load Capacity	250 kg
Double Crane Load Capacity	500 kg
Single Crane Speed	12 m/minute
Double Crane Speed	6 m/minute
Recommended Lifting Height	Floors 1-4
Motor Power	1150 W
Motor Voltage	220 V

Feature	Specification
Starting Capacitor	30 UF
Handle Line Length	3 m
Manufacturer	OUZVI

5. SETUP

Proper installation is crucial for safe operation. Follow these steps:

- Mounting Location:** Select a sturdy and stable overhead structure capable of supporting the hoist's weight plus the maximum intended load with a sufficient safety factor.
- Secure Mounting:** Use the strong lifting ears and appropriate mounting screws (often included, refer to accessories in Figure 4.1) to securely attach the hoist to the chosen support. Ensure all bolts are tightened to the manufacturer's specifications.
- Electrical Connection:** Connect the hoist to a dedicated 220V grounded power outlet. Verify that the power supply matches the hoist's voltage requirements.
- Wire Rope Configuration:** Decide whether to use a single line or double line configuration based on your lifting needs. For double line operation, use the double rope hook and re-route the wire rope as instructed in the diagram (not provided, but generally involves looping the rope through the hook's pulley).
- Initial Check:** Before lifting any load, perform a test run with no load to ensure the hoist operates smoothly, the limit device functions, and the control pendant responds correctly.

6. OPERATING INSTRUCTIONS

Operating the OUZVI Micro Electric Hoist PA500 is straightforward:

- Power On:** Connect the hoist to the power supply.
- Attach Load:** Securely attach the load to the alloy steel anti-detachment hook. Ensure the safety latch on the hook is closed.
- Control Pendant:** Use the control pendant to operate the hoist. It typically has 'UP' and 'DOWN' buttons.
- Lifting:** Press and hold the 'UP' button to lift the load. Release the button to stop. The hoist will automatically stop if the limit device is activated.
- Lowering:** Press and hold the 'DOWN' button to lower the load. Release the button to stop.
- Smooth Operation:** Operate the hoist smoothly. Avoid sudden starts or stops, especially with heavy loads.
- Monitor Load:** Always keep the load in sight during operation. Do not leave a suspended load unattended.
- Power Off:** Disconnect the hoist from the power supply when not in use.

7. MAINTENANCE

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

- Daily Checks:** Visually inspect the wire rope, hook, control pendant, and power cord for any damage or wear before each use.

- **Wire Rope:** Check for fraying, kinks, corrosion, or broken strands. Replace the wire rope if any damage is found.
- **Hook:** Inspect the hook for deformation, cracks, or a malfunctioning safety latch.
- **Electrical Components:** Ensure all electrical connections are secure and free from damage.
- **Cleaning:** Keep the hoist clean and free from dust, dirt, and debris. Use a dry cloth for cleaning. Do not use water or harsh chemicals.
- **Lubrication:** Periodically lubricate moving parts, such as the wire rope and internal gears, according to general hoist maintenance practices. Consult a qualified technician if unsure.
- **Storage:** Store the hoist in a dry, clean, and secure location when not in use.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
Hoist does not operate	No power supply; Emergency stop engaged; Overload protection activated; Damaged power cord/control pendant.	Check power connection; Release emergency stop; Reduce load; Inspect and replace damaged components.
Hoist stops during operation	Limit device activated; Overload protection activated; Motor overheating.	Check load position; Reduce load; Allow motor to cool down.
Unusual noises during operation	Lack of lubrication; Worn gears; Loose components.	Lubricate moving parts; Inspect gears for wear; Tighten loose components. If noise persists, contact support.
Wire rope fraying or kinking	Improper use; Wear and tear; Overloading.	Immediately cease operation and replace the wire rope. Ensure proper loading and usage.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact OUZVI customer service. Keep your purchase receipt as proof of purchase. Do not attempt to repair the hoist yourself if you are not qualified, as this may void the warranty and pose safety risks.

For further assistance, please visit the official OUZVI website or contact their customer support directly.