

## VOLTZ VZ-EW-1500KG 50Mtr Winch

# VOLTZ VZ-EW-1500 KG 50Mtr Heavy Duty Electric Winch

Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your VOLTZ VZ-EW-1500 KG 50Mtr Heavy Duty Electric Winch. Please read this manual thoroughly before using the product to ensure proper function and to prevent injury or damage.

The VOLTZ VZ-EW-1500 is a robust electric winch designed for industrial applications, featuring a clutch type mechanism and a 50-meter wire rope, capable of handling loads between 750 kg and 1500 kg.

## 2. IMPORTANT SAFETY WARNINGS

**Failure to follow these safety instructions may result in serious injury or death.**

- **Read the Manual:** Always read and understand this instruction manual completely before operating the winch.
- **Power Supply:** Ensure the winch is connected to a stable 220V power supply as specified.
- **Load Capacity:** Never exceed the rated load capacity of 750-1500 kg. Do not attempt to lift or pull loads exceeding the winch's maximum capacity. It is forbidden to lift or pull two or more times the same weight.
- **Wire Rope Care:** Do not allow the wire rope to become tangled or knotted. Ensure at least three rows of wire rope remain on the drum at all times to prevent slipping.
- **Personnel Safety:** It is strictly forbidden for personnel to stand under or near suspended loads. Maintain a safe distance from the winch and the load during operation.
- **Inspection:** Regularly inspect the winch, wire rope, hook, and all components for signs of wear, damage, or corrosion before each use. Do not operate a damaged winch.
- **Environment:** Use the winch in a stable and secure environment. If operating in wet conditions, ensure the remote control and electrical connections are protected.
- **Unauthorized Modifications:** Do not modify the winch or its components. Use only genuine replacement parts.

# DIGITAL VOLTAGE METER



**Image:** Digital Voltage Meter with visible warning label. The label highlights critical safety instructions regarding power supply, load capacity, wire rope management, and personnel safety during operation.

## 3. PRODUCT OVERVIEW AND KEY FEATURES

The VOLTZ VZ-EW-1500 Electric Winch is engineered for reliability and performance. Below are its primary components and features:

### 3.1 Winch Assembly

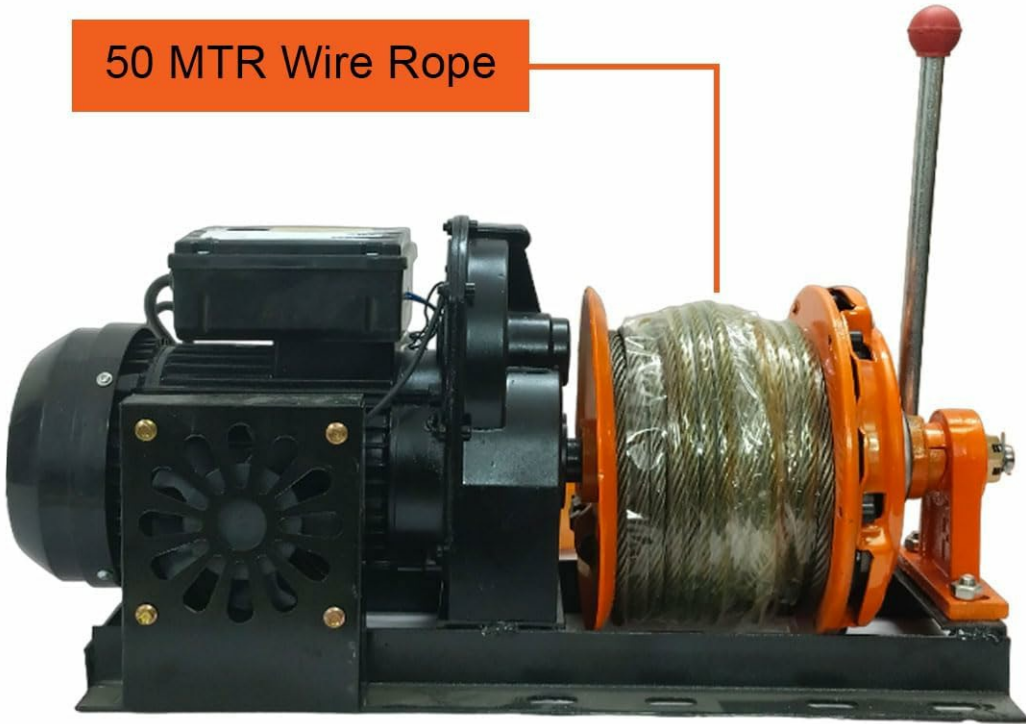


**Image:** The complete VOLTZ VZ-EW-1500 Electric Winch assembly, showing the motor, drum, clutch lever, and control unit.

The main body of the winch includes the motor, gear assembly, wire rope drum, and the clutch mechanism. It is designed for heavy-duty industrial use.

### 3.2 50-Meter Winch Rope

## 50 MTR Wire Rope



**Image:** Close-up of the 50-meter wire rope spooled on the winch drum. This length is suitable for a wide range of lifting and pulling applications.

The winch comes equipped with a durable 50-meter wire rope, providing ample length for various applications. Ensure the rope is properly spooled and maintained.

### 3.3 Waterproof Remote Control

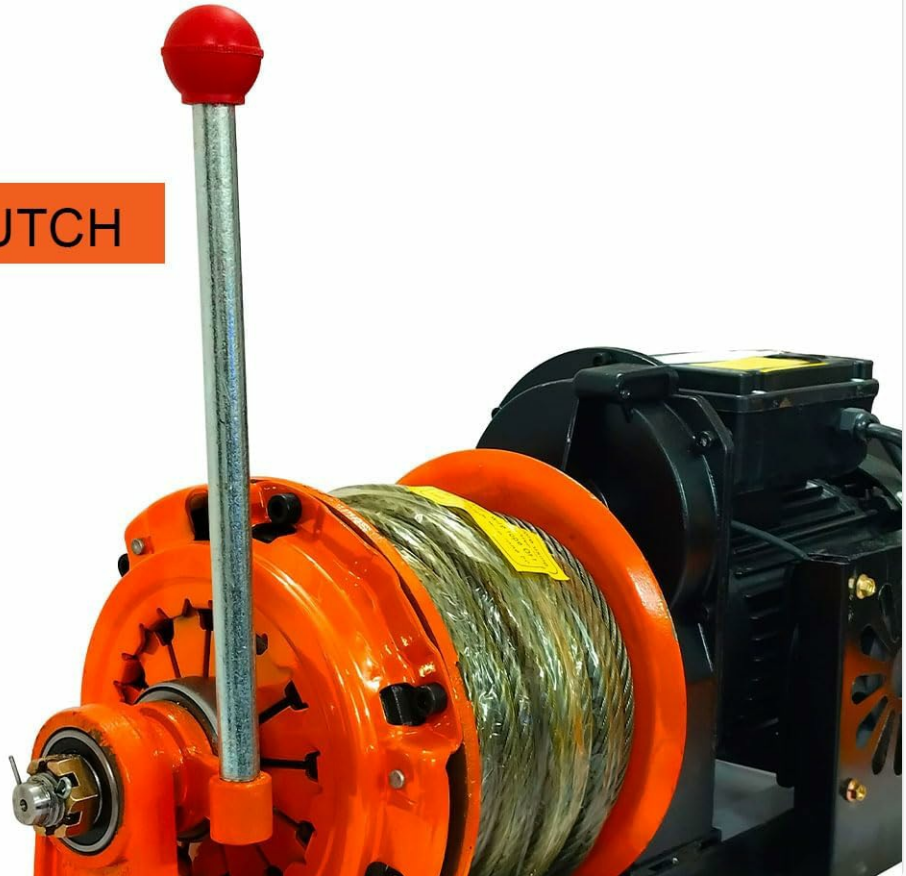


**Image:** Detailed view of the waterproof remote control unit. This feature is crucial for safe operation in wet or challenging environments, preventing damage from moisture.

The included remote control is designed with water-resistant features, making it suitable for use in various environmental conditions and enhancing operational safety.

### **3.4 Clutch Mechanism**

## WINCH CLUTCH



**Image:** Close-up of the winch clutch lever. This lever allows the operator to engage or disengage the drum, providing control over the wire rope's movement.

The clutch mechanism allows for manual disengagement of the drum, enabling free-spooling of the wire rope. This is essential for quick deployment and retraction.

### 3.5 Copper Core Motor

# COPPER CORE MOTOR



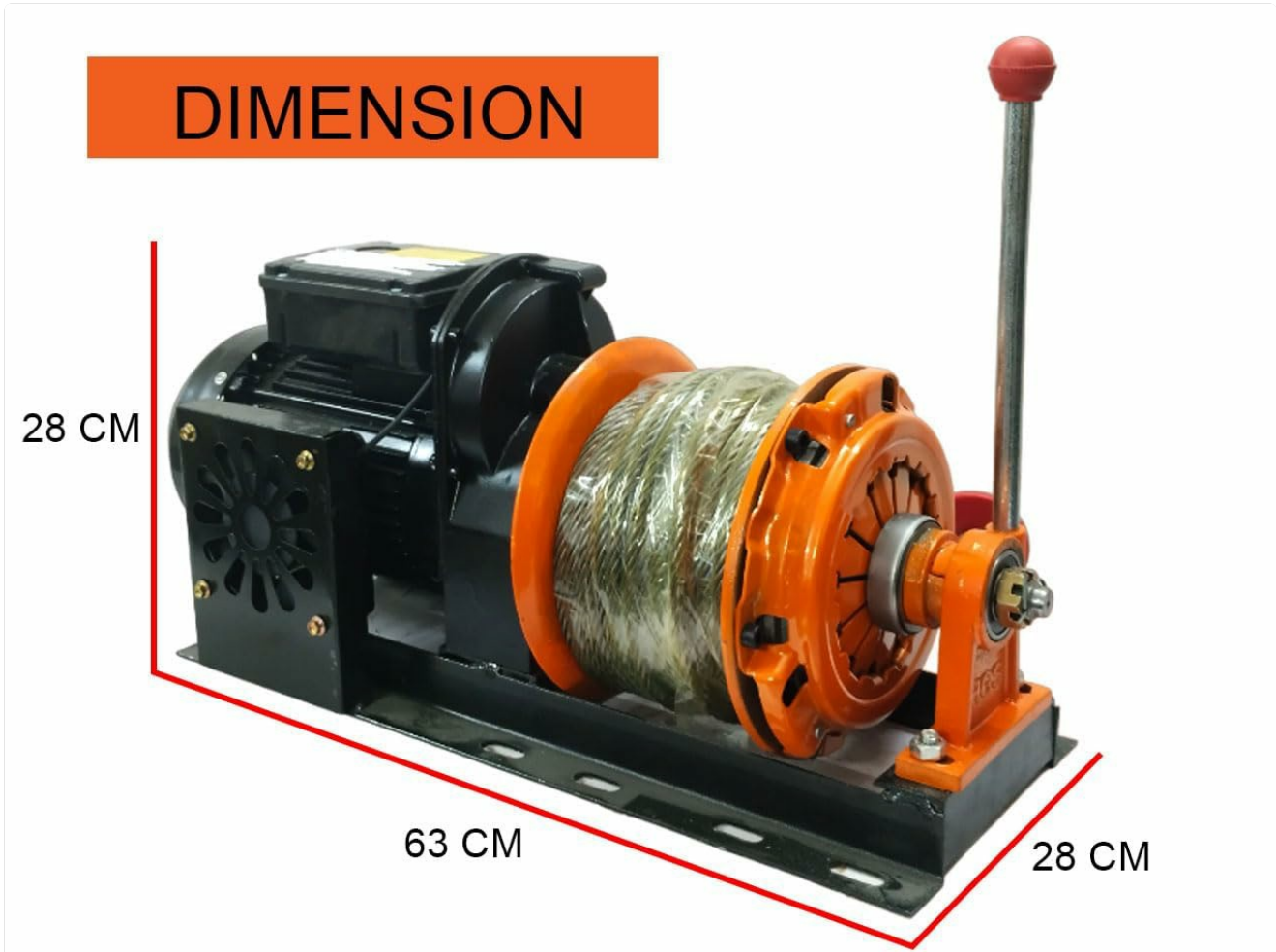
**Image:** Internal view of the winch motor, highlighting the copper core windings. Copper windings enhance conductivity and efficiency, leading to improved performance and durability.

The winch is powered by a high-efficiency motor with copper core windings, ensuring reliable performance and durability under heavy loads.

## 4. TECHNICAL SPECIFICATIONS

Attribute	Detail
Brand	VOLTZ
Model Number	VZ-EW-1500KG 50Mtr Winch
Country of Origin	India
Item Weight	45 kg
Product Dimensions (LxWxH)	63 x 28 x 28 cm

Attribute	Detail
Winch Rope Length	50 meters
Capacity (Single Line)	750 kg
Capacity (Double Line)	1500 kg
Included Components	VZ-EW-1500KG 50Mtr Winch



**Image:** Diagram illustrating the dimensions of the VOLTZ VZ-EW-1500 Electric Winch: 63 cm length, 28 cm width, and 28 cm height.

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your electric winch. Follow these steps carefully:

- Mounting Location:** Select a sturdy, flat, and secure surface capable of supporting the winch's weight and the maximum pulling force. Ensure there is adequate space around the winch for operation and maintenance.
- Secure Mounting:** Use appropriate high-strength bolts and hardware to securely fasten the winch to the mounting surface. Ensure all bolts are tightened to the manufacturer's specifications.
- Electrical Connection:** Connect the winch to a dedicated 220V power supply. Ensure all electrical connections are secure, insulated, and protected from moisture. If you are unsure, consult a qualified electrician.
- Wire Rope Inspection:** Before first use, unspool the wire rope and inspect it for any kinks, frays, or damage. Respool it neatly under light tension.

5. **Hook Attachment:** Ensure the hook is securely attached to the end of the wire rope and that its safety latch operates freely.

## 6. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and follow these steps for safe operation:

### 1. Pre-Operation Check:

- Verify the winch is securely mounted.
- Inspect the wire rope, hook, and remote control for any damage.
- Ensure the area is clear of personnel and obstructions.

2. **Engaging the Clutch:** To engage the clutch, move the clutch lever to the "engaged" position. This connects the drum to the motor, allowing the winch to pull or lift.

3. **Disengaging the Clutch (Free Spool):** To disengage the clutch for free-spooling, move the clutch lever to the "disengaged" position. This allows the wire rope to be pulled out manually without motor power. Always ensure the clutch is engaged before applying power to lift or pull.

### 4. Using the Remote Control:



**Image:** The VOLTZ winch with its remote control and hook. The remote allows for precise control of the winch's movement.

- The remote control has buttons for "Up" (winch in) and "Down" (winch out).
- Press and hold the appropriate button to control the movement of the wire rope.
- Release the button to stop the winch.

5. **Monitoring Load:** Pay attention to the digital voltmeter to monitor the system's status during operation. Do

not overload the winch.

6. **Post-Operation:** Once the task is complete, ensure the load is safely secured or lowered. Disengage the clutch if necessary and store the remote control safely.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your VOLTZ electric winch:

- **Wire Rope Inspection:** Regularly inspect the entire length of the wire rope for frays, broken strands, kinks, or corrosion. Replace the rope immediately if any damage is found.
- **Lubrication:** Periodically lubricate moving parts, such as the gear assembly and clutch mechanism, according to standard industrial practices.
- **Electrical Connections:** Check all electrical connections for tightness and signs of corrosion. Ensure the power cord and remote control cable are undamaged.
- **Cleaning:** Keep the winch clean and free from dirt, debris, and excessive moisture. Use a damp cloth for cleaning; avoid high-pressure washing directly on electrical components.
- **Storage:** When not in use, store the winch in a dry, clean environment, protected from extreme temperatures and direct sunlight.

## 8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter:

Problem	Possible Cause	Solution
Winch does not operate	No power supply; Loose electrical connections; Remote control malfunction; Motor overload protection activated.	Check power source and circuit breaker; Tighten all connections; Test remote control; Allow motor to cool down.
Winch operates slowly or with reduced power	Overload; Low voltage; Motor overheating; Worn motor brushes (if applicable).	Reduce load; Check power supply voltage; Allow motor to cool; Consult service for brush replacement.
Wire rope does not spool correctly	Kinked or damaged rope; Improper tension during spooling; Drum obstruction.	Inspect and replace damaged rope; Respool rope under light tension; Clear any obstructions from the drum area.
Clutch does not engage/disengage	Mechanism jammed; Debris in clutch assembly.	Inspect for debris and clear; Apply light lubricant if stiff. Do not force the lever.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact VOLTZ customer support.

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact VOLTZ directly using the details below:

- **Toll Free No.:** 1800-572-8672
- **Whatsapp:** 9625417892
- **Email:** [vcare@voltztools.com](mailto:vcare@voltztools.com)

Please have your product model number (VZ-EW-1500KG 50Mtr Winch) and purchase details ready when contacting support.