Einhell

Einhell TC-WI 800 Manual Cable Winch

Model: TC-WI 800 (2260170)

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Einhell TC-WI 800 Manual Cable Winch. Please read this manual thoroughly before using the product to ensure proper handling and to prevent injury or damage.

The Einhell TC-WI 800 is a robust manual cable winch designed for pulling and lifting loads up to a maximum of 800 kg. It features a 20-meter non-torsion wire cable, a safety hook with a safety tongue, a reliable return lock, and an ergonomic non-slip handle for comfortable and secure operation. Its design allows for straightforward installation via a mounting plate with pre-drilled holes, making it suitable for various applications in workshops, garages, and around the home.

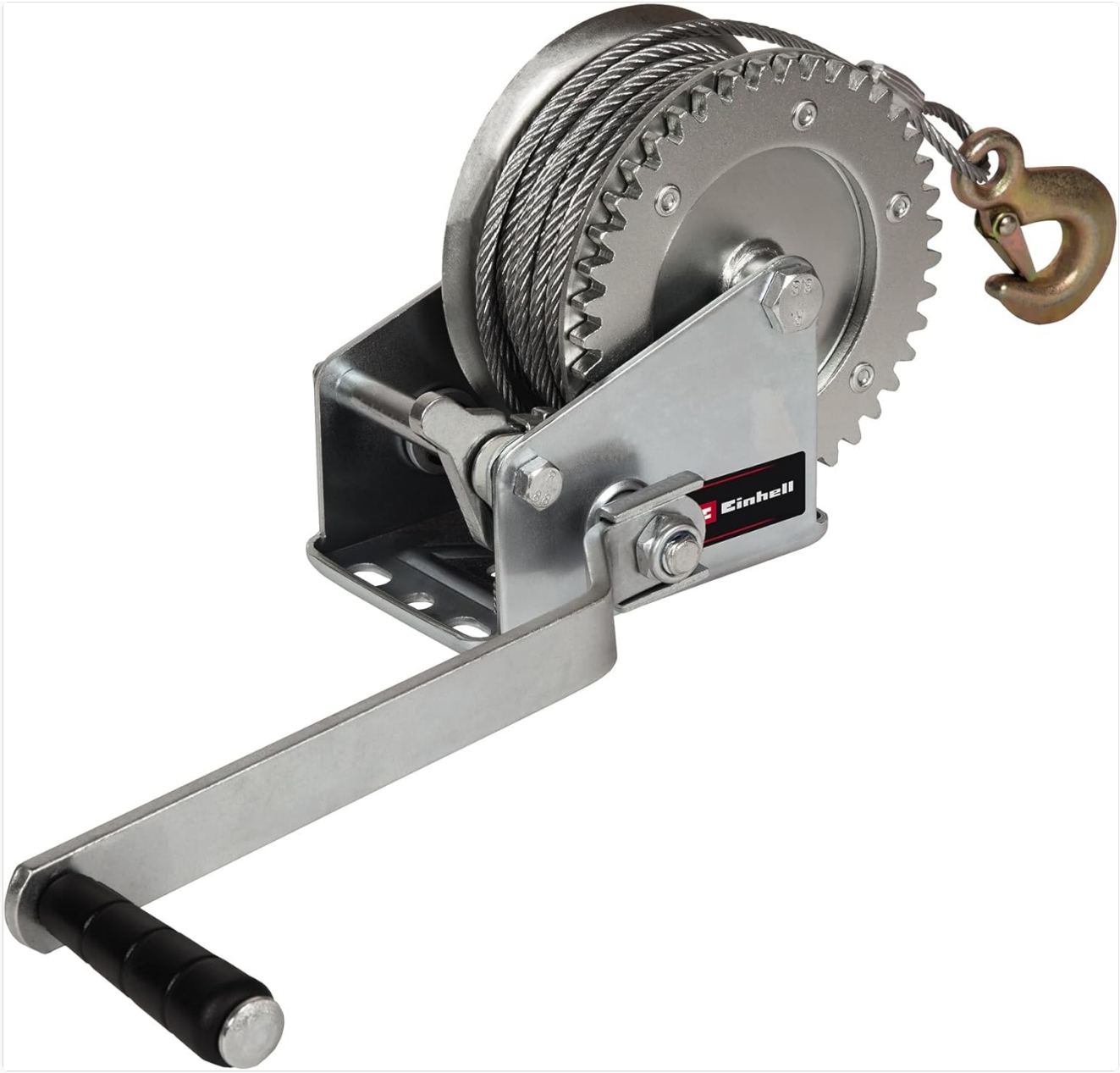

Figure 1: Overview of the Einhell TC-WI 800 Manual Cable Winch.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), such as safety gloves and eye protection, when operating the winch.
- Ensure the winch is securely mounted to a stable and appropriate surface capable of supporting the maximum load capacity (800 kg) before use.
- Never exceed the maximum load capacity of 800 kg. Overloading can cause equipment failure and severe injury.
- Inspect the wire cable, hook, and all components for wear, damage, or corrosion before each use. Do not use the winch if any part is damaged.
- Ensure the safety tongue on the hook is fully closed and secured before applying tension to the cable.
- Keep hands and clothing clear of moving parts, especially the cable and gear mechanism, during operation.
- Do not allow the cable to become twisted or kinked. This can weaken the cable and lead to failure.
- Use the return lock feature to safely stop and hold the load. Never rely solely on the handle to hold a load.

- Do not use the winch for lifting or moving people.
- Store the winch in a dry, secure location away from children and unauthorized users.

3. Components

Familiarize yourself with the main components of your Einhell TC-WI 800 Manual Cable Winch:

1. **Winch Body/Frame:** The main structural component that houses the internal mechanisms and provides mounting points.
2. **Cable Drum:** The spool around which the wire cable is wound.
3. **Wire Cable:** A 20-meter long, 4.8 mm diameter non-torsion steel wire for pulling and lifting.
4. **Safety Hook:** Attached to the end of the wire cable, used for securing loads. It includes a safety tongue.
5. **Safety Tongue:** A spring-loaded latch on the safety hook that prevents accidental disengagement of the load.
6. **Crank Handle:** Used to manually operate the winch, featuring a non-slip grip.
7. **Gear Mechanism:** Internal gears that provide mechanical advantage for pulling heavy loads.
8. **Return Lock/Brake:** A mechanism that prevents the cable drum from unwinding unintentionally, securing the load in position.
9. **Mounting Plate with Holes:** The base of the winch with pre-drilled holes for secure installation.

Figure 2: Detailed view of the safety hook with its protective tongue, ensuring secure attachment to loads.

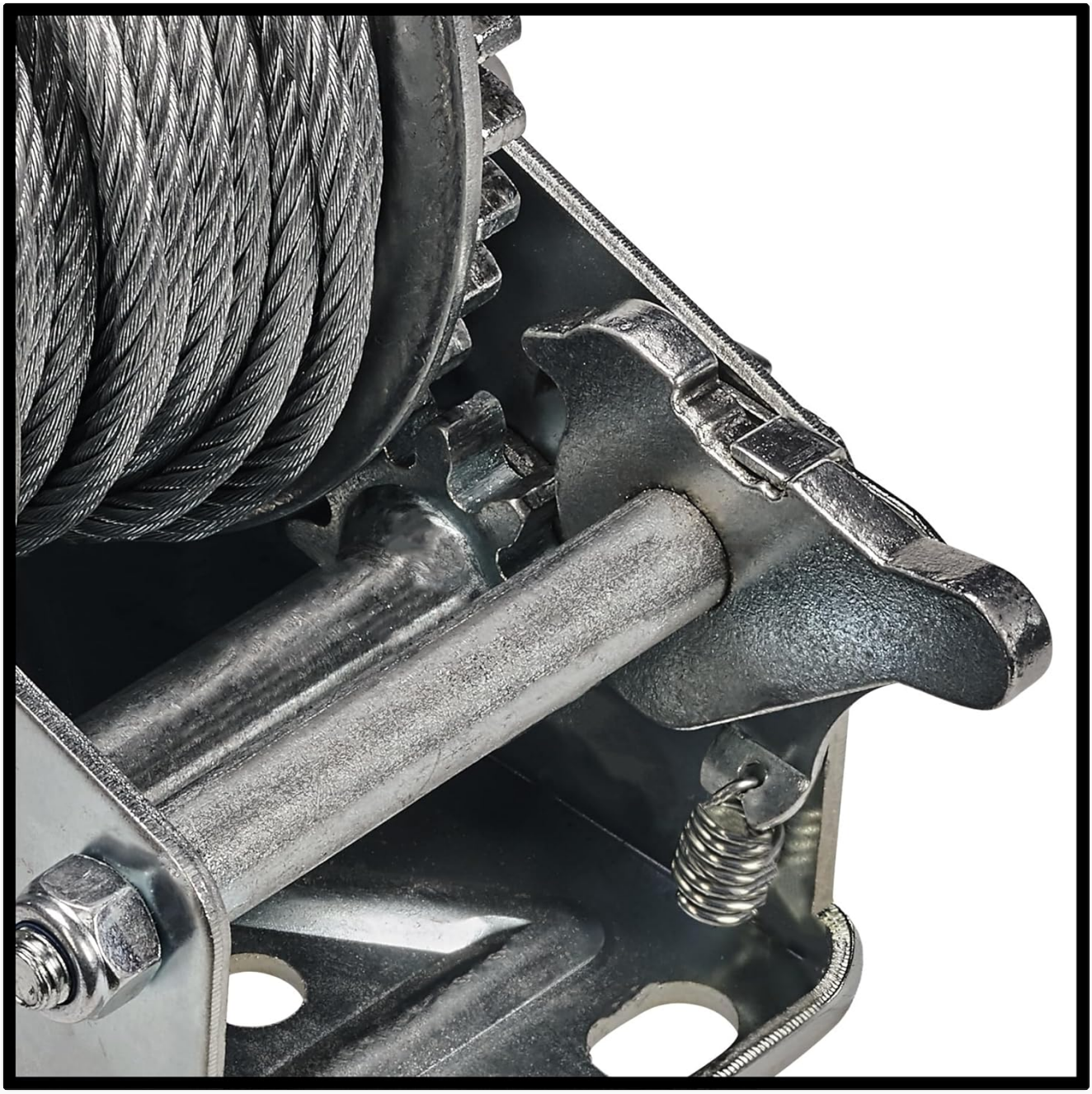

Figure 3: The robust gear mechanism and the return lock, which prevents unintended unwinding of the cable.

Figure 4: The ergonomic non-slip handle, designed for comfortable and secure grip during operation.

4. Setup and Installation

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

1. **Choose a Mounting Location:** Select a sturdy, flat surface capable of withstanding the maximum pulling force of 800 kg. This could be a workbench, a trailer frame, or a secure wall mount.
2. **Mark Drilling Points:** Place the winch's mounting plate on the chosen surface and mark the positions of the pre-drilled holes.
3. **Drill Holes:** Drill holes of appropriate size for your mounting hardware (bolts, nuts, washers - not included) at the marked positions.
4. **Secure the Winch:** Position the winch over the drilled holes and secure it firmly using high-strength bolts, nuts, and washers. Ensure all fasteners are tightened securely to prevent any movement during operation.
5. **Initial Cable Check:** Before first use, ensure the cable is properly wound on the drum and that the safety hook and safety tongue operate freely.

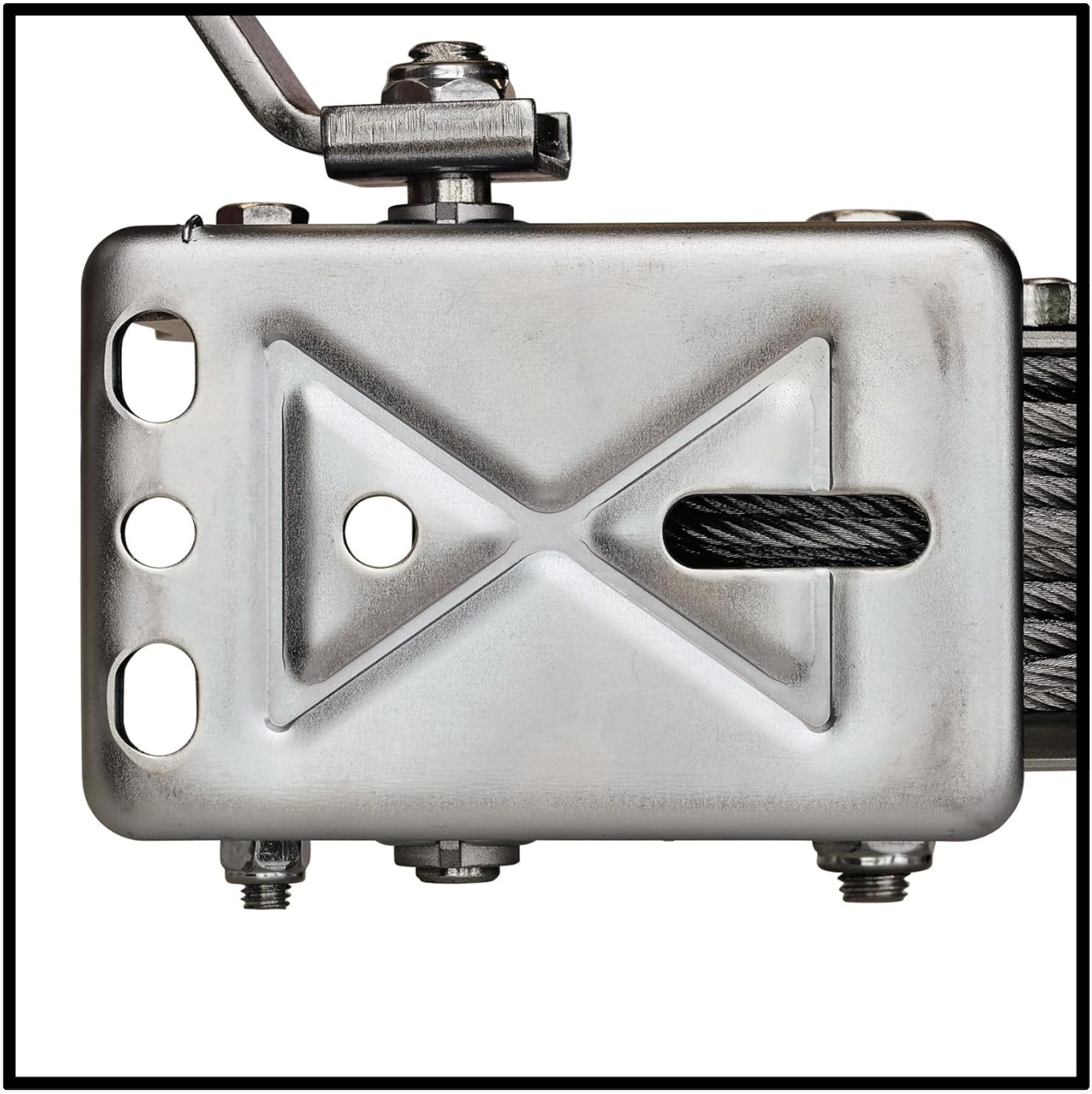

Figure 5: Top view of the winch base, highlighting the pre-drilled mounting holes for secure installation.

5. Operating Instructions

Follow these steps for safe and effective operation of your manual cable winch:

1. **Prepare the Load:** Ensure the load you intend to pull or lift is within the 800 kg capacity of the winch. Clear the path of any obstructions.
2. **Extend the Cable:** Release the return lock mechanism (if engaged) and carefully pull the wire cable out from the drum to the desired length.
3. **Attach the Hook:** Securely attach the safety hook to the load. Ensure the safety tongue is fully closed and latched to prevent accidental detachment.
4. **Engage the Return Lock:** Before beginning to crank, ensure the return lock is engaged. This mechanism prevents the cable from unwinding under load and acts as a brake.
5. **Crank the Handle:** Turn the crank handle clockwise to pull the cable in and move the load. Apply steady, even pressure.

6. **Monitor the Load and Cable:** Continuously observe the load, cable, and winch during operation. Stop immediately if you notice any unusual sounds, excessive strain, or cable damage.
7. **Stopping Operation:** To stop the load at any point, simply cease turning the crank handle. The return lock will hold the load in place.
8. **Releasing the Load:** To release the load, carefully disengage the return lock while maintaining control of the crank handle. Slowly turn the handle counter-clockwise to unwind the cable. Always maintain control of the handle to prevent rapid unwinding.
9. **Retract the Cable:** Once the load is released, fully retract the cable onto the drum, ensuring it winds evenly.

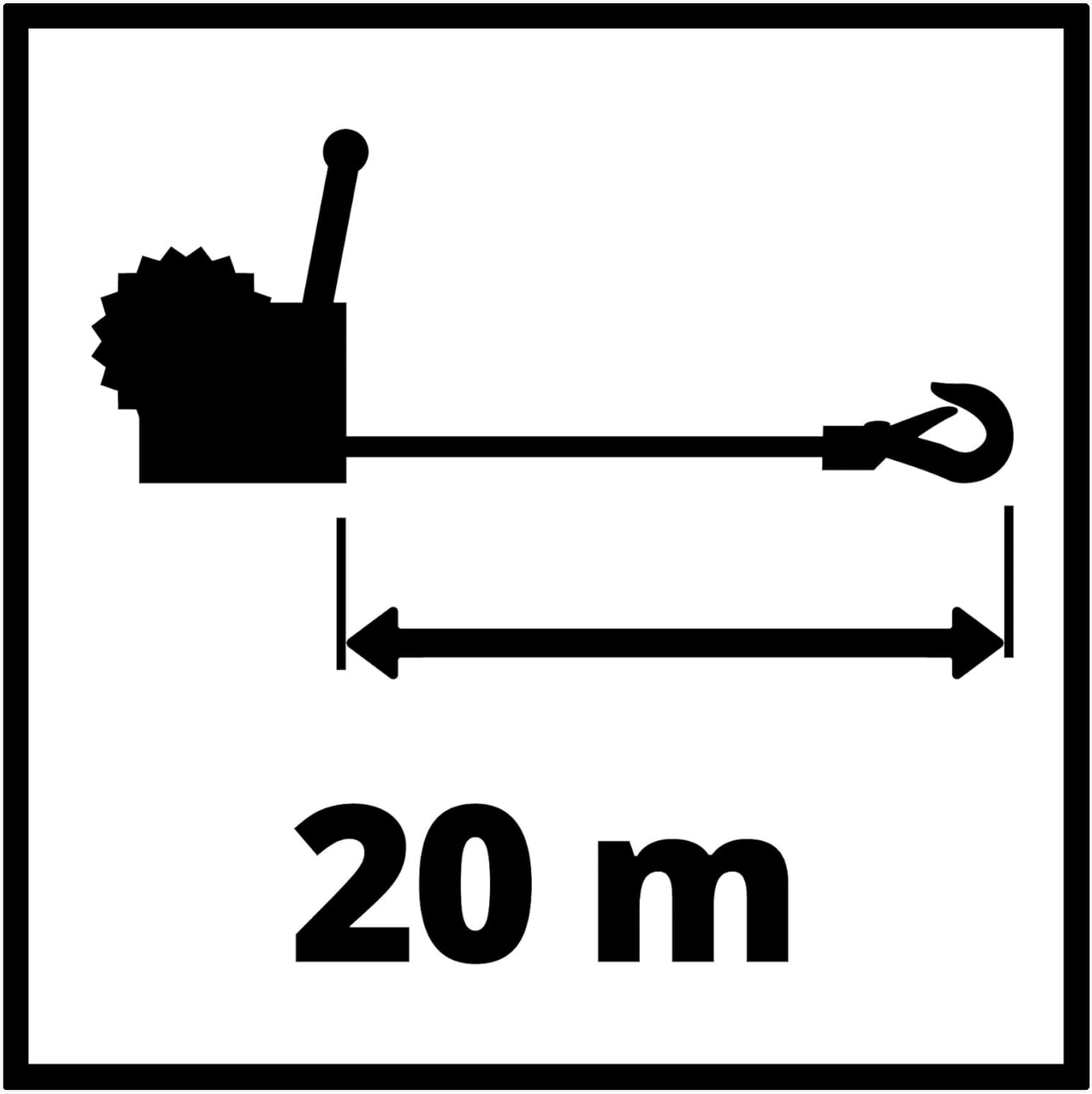

Figure 6: The winch is equipped with a 20-meter long wire cable.

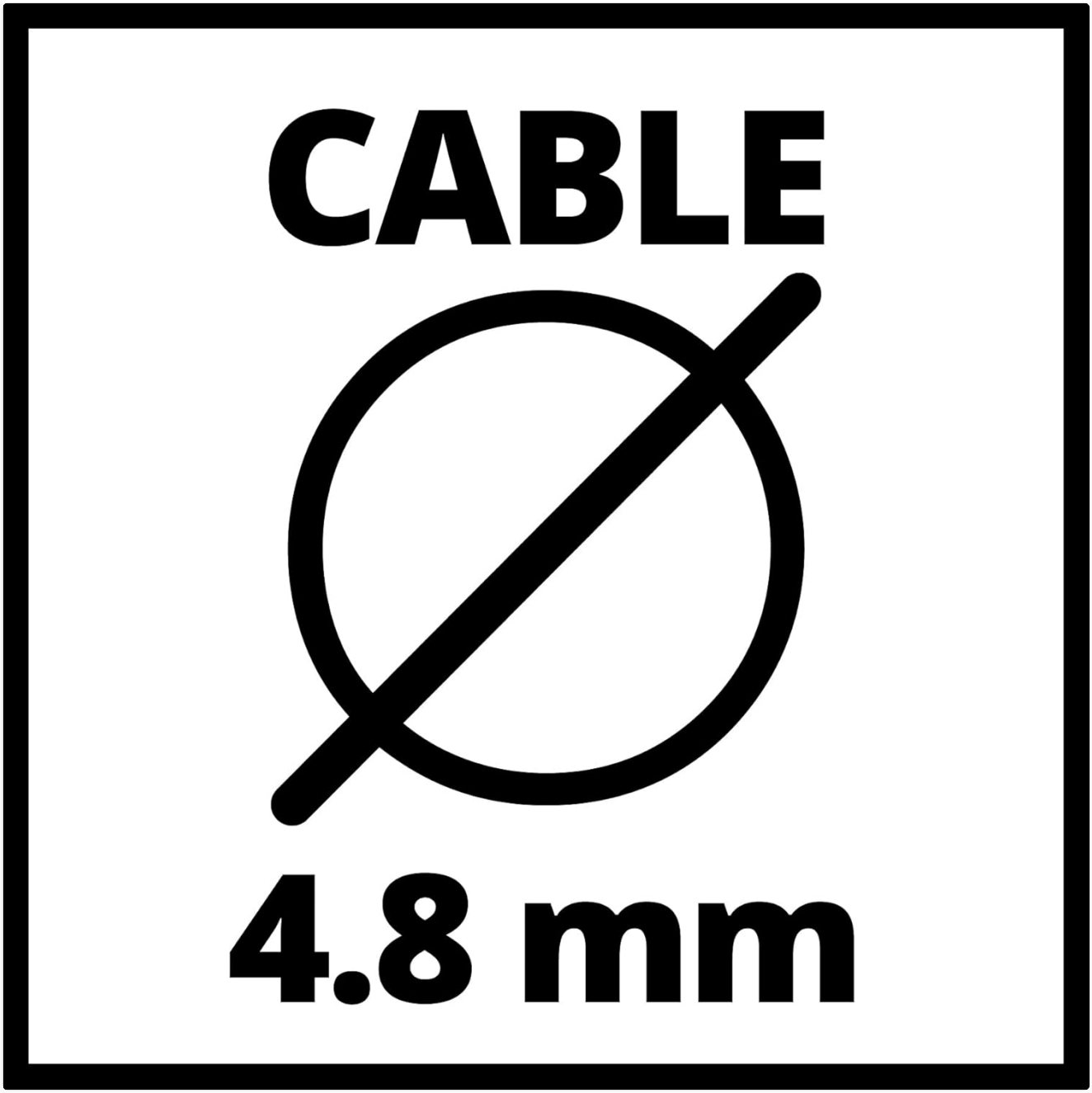

Figure 7: The wire cable has a diameter of 4.8 mm for strength and durability.

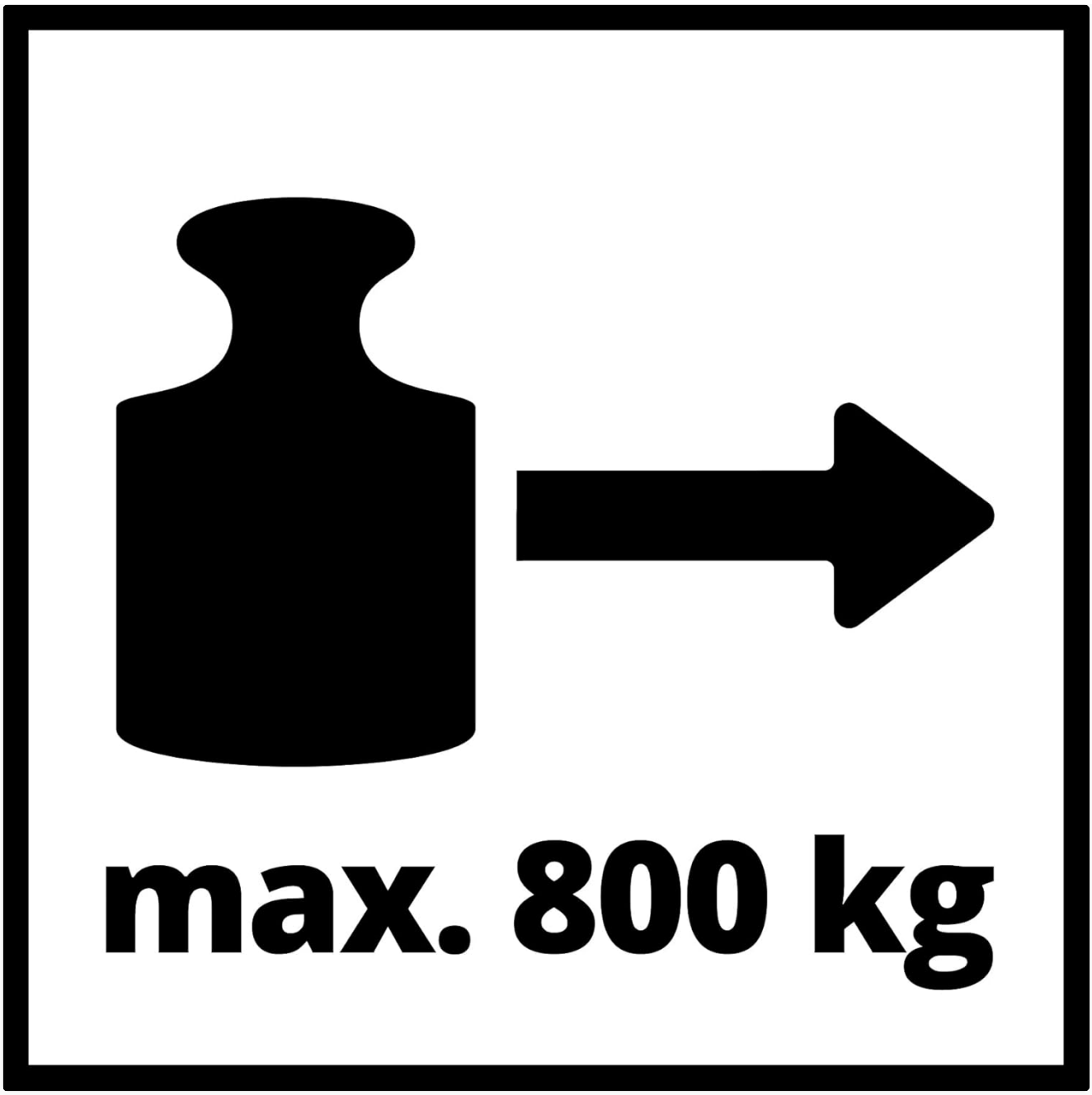

Figure 8: The winch is designed to handle a maximum load of 800 kg.

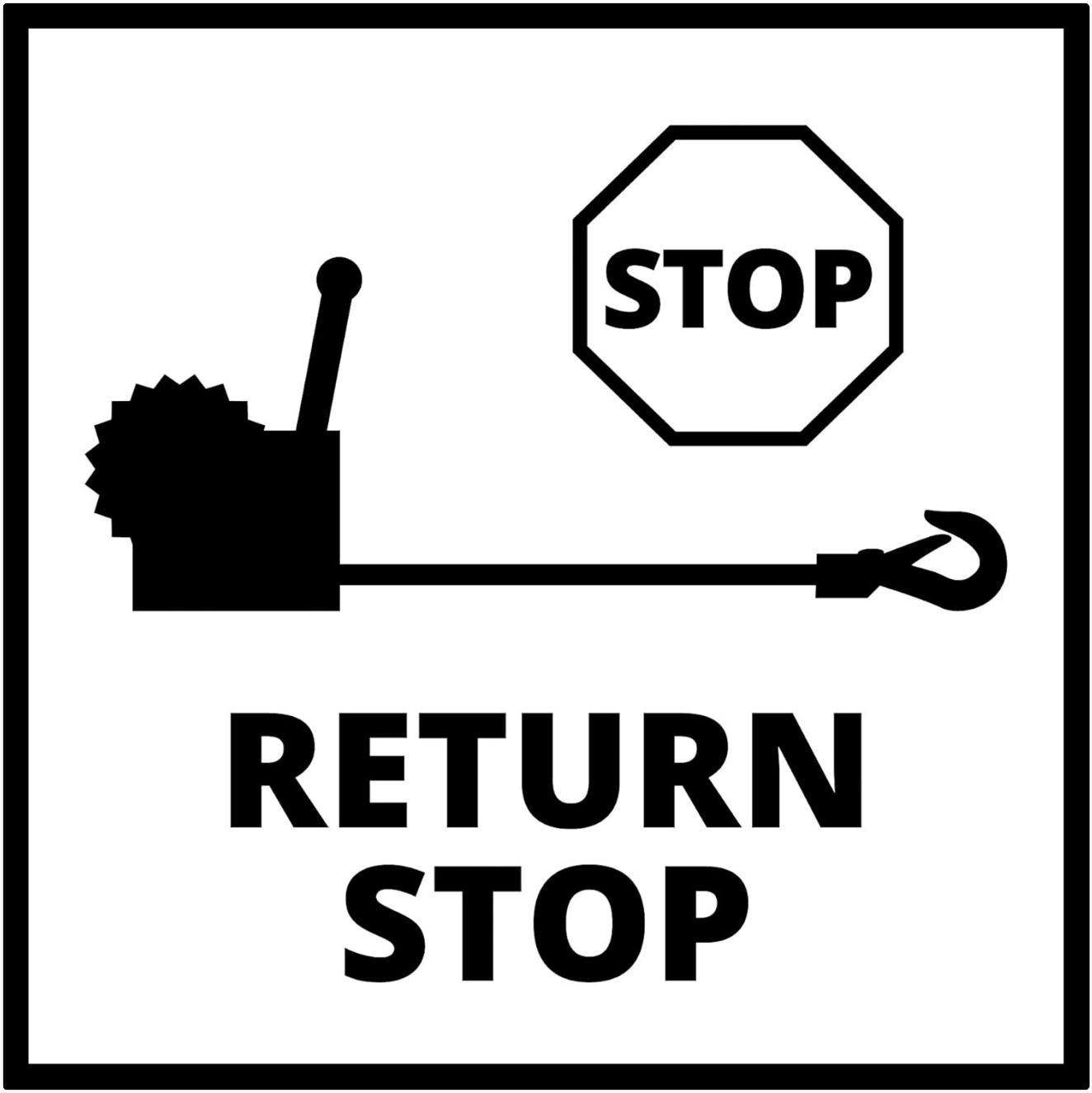

Figure 9: The return stop mechanism ensures the load can be securely held at any point.

Product Demonstration Video

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Video 1: A visual demonstration of the Einhell TC-WI 800 Manual Cable Winch, showcasing its features and operation. This video provides a dynamic overview of the product's capabilities and how its components function during use.

6. Maintenance

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

- **Cleaning:** After each use, clean the winch to remove dirt, debris, and moisture. Use a dry cloth or a soft brush. Avoid using harsh chemicals that could damage the finish or components.
- **Lubrication:** Periodically apply a light coat of general-purpose lubricant to the gear mechanism and moving parts to ensure smooth operation and prevent corrosion. Do not over-lubricate.
- **Cable Inspection:** Regularly inspect the entire length of the wire cable for signs of fraying, kinks, broken strands, or corrosion. If significant damage is found, the cable must be replaced by a qualified professional.

- **Hook and Latch Inspection:** Check the safety hook and its safety tongue for deformation, cracks, or wear. Ensure the safety tongue operates freely and springs back into place.
- **Mounting Hardware:** Periodically check that all mounting bolts are tight and secure. Re-tighten if necessary.
- **Storage:** Store the winch in a clean, dry environment when not in use to prevent rust and damage.

7. Troubleshooting

This section addresses common issues you might encounter with your winch.

Problem	Possible Cause	Solution
Winch is difficult to crank or feels stiff.	Lack of lubrication, dirt/debris in gears, overloaded.	Lubricate moving parts. Clean gears. Reduce load to within capacity.
Cable does not retract or extend smoothly.	Cable kinked or tangled, drum obstructed, damaged cable.	Untangle/straighten cable. Check for obstructions. Inspect cable for damage; replace if necessary.
Return lock (brake) is not holding the load.	Mechanism worn or damaged, debris preventing engagement.	Clean the mechanism. If worn, seek professional repair or replacement. Do not use if brake is faulty.
Safety hook detaches from load.	Safety tongue not engaged, hook damaged, improper attachment.	Ensure safety tongue is fully closed. Inspect hook for damage. Re-attach hook correctly.

If you encounter problems not listed here or if solutions do not resolve the issue, contact Einhell customer support or a qualified service technician.

8. Specifications

Feature	Detail
Manufacturer	Einhell
Model Number	TC-WI 800 (2260170)
Maximum Load Capacity	800 kg
Wire Cable Length	20 meters
Wire Cable Diameter	4.8 mm
Product Dimensions (L x W x H)	35.3 x 21.2 x 15.3 cm
Product Weight	4.7 kg
Color	Red, Black
Components Included	Manual cable winch
Batteries Required	No

9. Warranty and Support

For information regarding warranty coverage, claims, or technical support, please refer to the official Einhell website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty-related inquiries.

Einhell Official Website: www.einhell.com

For further assistance, you may also contact the retailer from whom you purchased the product.