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Irudek TRN1 101509400003

Irudek TRN1 101509400003 Tripod Winch Instruction Manual

Model: TRN1 101509400003 | Brand: Irudek

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1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the Irudek TRN1 101509400003 Tripod Winch. This device is designed for lowering and raising personnel or equipment in confined spaces, functioning as a rescue winch or material handling device when used with an automatic fall arrester (EN 360 compliant) to form a fall arrest system. Read this manual thoroughly before use to ensure proper understanding and to prevent accidents or damage.

Important Safety Notice

Always adhere to local regulations, safety standards, and best practices for confined space entry and rescue operations. Only trained and competent personnel should operate this equipment. Failure to follow these instructions can result in serious injury or death.

2. PRODUCT OVERVIEW

The Irudek TRN1 Tripod Winch is a robust and reliable device constructed from aluminum, featuring a galvanized steel cable for durability and strength. It is engineered with an automatic safety brake mechanism to prevent uncontrolled descent.



Figure 1: Irudek TRN1 Tripod Winch. This image displays the main unit of the winch, including the housing, crank handle, and the steel cable extending from the drum.

Key Features:

- **Automatic Brake System:** Engages automatically upon release of the lever, preventing uncontrolled lowering.
- **Galvanized Steel Cable:** Includes 20 meters of Ø6.3 mm steel cable for high strength and corrosion resistance.
- **High Load Capacity:** Certified for a maximum load of 140 kg.
- **Durable Construction:** Manufactured from lightweight yet strong aluminum.
- **European Certification:** Complies with European standard EN 1496.
- **Tripod Compatibility:** Easily mounts onto TRIP1 and TRIP2 tripods.

3. SETUP AND INSTALLATION

The TRN1 winch is designed for quick and secure attachment to compatible tripods. Ensure the tripod is stable and

correctly set up according to its own instruction manual before mounting the winch.

Installation Steps:

1. **Inspect Equipment:** Before each use, thoroughly inspect the winch, cable, and tripod for any signs of damage, wear, or corrosion. Do not use if any defects are found.
2. **Position Tripod:** Set up the compatible tripod (TRIP1 or TRIP2) over the confined space opening, ensuring its legs are fully extended and locked, and the base is stable on a firm, level surface.
3. **Mount Winch:** Locate the designated mounting point on the tripod leg or head. Align the winch's mounting bracket with this point.
4. **Secure Winch:** Use the provided fasteners (pins, bolts, or clamps, depending on tripod model) to securely attach the winch to the tripod. Ensure all connections are tight and properly engaged. Refer to your tripod's manual for specific mounting instructions.
5. **Cable Routing:** Ensure the steel cable is correctly routed through any guides or pulleys on the tripod head, if applicable, to prevent chafing or entanglement.
6. **Final Check:** Perform a final visual inspection to confirm the winch is securely mounted and the cable is free from obstructions.

Warning: Never attempt to modify the winch or its mounting system. Use only original or approved replacement parts.

4. OPERATING INSTRUCTIONS

Operating the Irudek TRN1 winch requires careful attention to safety and proper technique. Always maintain control of the crank handle during operation.

General Operation:

1. **Connect Load:** Securely attach the load (person or equipment) to the end of the steel cable using appropriate connectors (e.g., carabiners, harnesses) that comply with relevant safety standards. Ensure the connection is robust and cannot accidentally detach.
2. **Lowering the Load:**
 - To lower, slowly rotate the crank handle counter-clockwise. The automatic brake will control the descent speed.
 - If the handle is released, the automatic brake will engage immediately, stopping the descent. To resume lowering, re-engage the handle and continue rotating.
 - Maintain a smooth, controlled descent. Avoid sudden movements.
3. **Raising the Load:**
 - To raise, slowly rotate the crank handle clockwise.
 - Apply steady, consistent force. Do not exceed the winch's rated load capacity (140 kg).
4. **Stopping Operation:** To stop the movement at any point, simply release the crank handle. The automatic brake will lock the cable in position.
5. **Emergency Stop:** In an emergency, releasing the handle will immediately engage the brake.

Caution: Never allow the cable to run out completely or retract fully into the winch without a load. Always leave at least three wraps of cable on the drum. Do not use the winch if the cable shows signs of fraying, kinking, or damage.

5. MAINTENANCE

Regular inspection and maintenance are crucial for the safe and reliable operation of your Irudek TRN1 winch. A qualified person must perform all maintenance procedures.

Inspection Schedule:

- **Before Each Use:**
 - Check the entire length of the steel cable for cuts, kinks, fraying, corrosion, or deformation.
 - Inspect the winch housing for cracks, dents, or damage.
 - Verify the crank handle operates smoothly and the automatic brake engages correctly.
 - Ensure all mounting hardware is secure and free from damage.
- **Periodically (e.g., every 3-6 months or as required by local regulations):**
 - Perform a more thorough inspection of all components, including internal mechanisms if accessible and recommended by the manufacturer.
 - Check for excessive wear on moving parts.
 - Clean the winch exterior to remove dirt, dust, and debris.
 - Lubricate moving parts as specified by the manufacturer (if applicable, no specific info provided here).

Cleaning and Storage:

- Clean the winch with a damp cloth and mild detergent. Avoid using harsh chemicals or solvents.
- Ensure the winch is completely dry before storage.
- Store the winch in a clean, dry place, away from direct sunlight, extreme temperatures, and corrosive environments.
- Protect the cable from damage during storage.

Note: If any damage or excessive wear is detected, immediately remove the winch from service and contact a qualified service technician or the manufacturer for repair or replacement.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the Irudek TRN1 winch. For problems not listed here, or if solutions do not resolve the issue, contact customer support.

Problem	Possible Cause	Solution
Winch not operating smoothly / Sticking	Dirt or debris in mechanism; lack of lubrication; damaged internal components.	Clean the exterior. If issue persists, remove from service and have it inspected by a qualified technician.
Automatic brake not engaging	Brake mechanism malfunction; excessive wear.	Immediately remove from service. Do not use. Contact a qualified technician for repair.
Cable appears damaged (frayed, kinked)	Wear and tear; improper handling; excessive load.	Immediately remove from service. The cable must be replaced by a qualified technician or the manufacturer.

Problem	Possible Cause	Solution
Difficulty mounting winch to tripod	Incorrect tripod model; improper alignment; missing or damaged mounting hardware.	Ensure tripod is compatible (TRIP1, TRIP2). Verify correct alignment and use all necessary hardware. Refer to tripod manual.

7. SPECIFICATIONS

Feature	Detail
Model Number	TRN1 (Article No. 101509400003)
Brand	Irudek
Manufacturer	Irudek 2000 S.L.
Cable Length	20 meters
Cable Diameter	Ø6.3 mm
Cable Material	Galvanized Steel
Load Capacity	140 kg
Construction Material	Aluminum
Certification	EN 1496
Compatible Tripods	TRIP1, TRIP2
Components Included	Winch unit, 20m steel cable

8. GENERAL SAFETY INFORMATION

This section outlines critical safety precautions that must be observed at all times when using the Irudek TRN1 Tripod Winch.

- **Training:** Only individuals who have received proper training in confined space entry, rescue procedures, and the use of this specific equipment should operate the winch.
- **Pre-Use Inspection:** Always perform a thorough inspection of the winch, cable, tripod, and all associated equipment before each use. Any damaged equipment must be immediately removed from service.
- **Load Capacity:** Never exceed the maximum rated load capacity of 140 kg. Overloading can lead to equipment failure and severe injury.
- **Fall Arrest System:** When used for personnel rescue, the winch must be integrated into a complete fall arrest system that complies with EN 360 and other relevant standards.
- **Clearance:** Ensure adequate clearance below the confined space opening for safe lowering and raising operations.
- **Environmental Conditions:** Do not use the winch in hazardous environments (e.g., explosive atmospheres)

unless it is specifically certified for such conditions. Protect the equipment from extreme weather.

- **Unauthorized Modifications:** Never attempt to modify the winch. Unauthorized modifications can compromise safety and void the warranty.
- **Cable Management:** Always ensure the cable is properly spooled on the drum. Avoid kinking, twisting, or running the cable over sharp edges.
- **Emergency Plan:** Have a comprehensive emergency rescue plan in place before commencing any confined space work.

9. WARRANTY AND SUPPORT

Specific warranty information for the Irudek TRN1 101509400003 Tripod Winch is not provided in this document. Please refer to your purchase documentation or contact your authorized Irudek dealer or the manufacturer directly for details regarding warranty coverage, terms, and conditions.

Customer Support:

For technical assistance, spare parts, or service inquiries, please contact Irudek 2000 S.L. or your local distributor. Ensure you have the model number (TRN1) and article number (101509400003) available when contacting support.