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> YATOINTO 1 Ton Cable Grip Steel Wire Puller Instruction Manual (Model SD-1t-STEEL)

YATOINTO SD-1t-STEEL

YATOINTO 1 Ton Cable Grip Steel Wire Puller Instruction Manual

Model: SD-1t-STEEL

1. INTRODUCTION

The YATOINTO 1 Ton Cable Grip Steel Wire Puller is a robust tool designed for securely gripping and pulling steel wire ropes. It is engineered for applications requiring tensioning or pulling of cables with diameters ranging from 2.5 mm to 16 mm. This manual provides essential information for the safe and effective use of your cable grip.

APPLICABLE LINE



Image 1: YATOINTO 1 Ton Cable Grip illustrating its compatibility with 2.5-16mm wire diameters.

Product Overview Video

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Video 1: An overview video demonstrating the YATOINTO Cable Grip Steel Wire Puller in action, highlighting its ease of use and application.

2. SAFETY INFORMATION

Always prioritize safety when operating any heavy-duty tool. Failure to follow these safety guidelines may result in injury or damage to equipment.

- **Read the Manual:** Thoroughly read and understand all instructions before using the cable grip.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety gloves, eye protection, and hard hats, as required by the work environment.
- **Inspect Tool:** Before each use, inspect the cable grip for any signs of wear, damage, cracks, or deformation. Do not use a damaged tool.
- **Load Capacity:** Never exceed the maximum rated load of 1 Ton (2200 lbs). Overloading can lead to tool failure and serious injury.
- **Cable Diameter:** Ensure the wire rope diameter is within the specified range of 2.5 mm to 16 mm. Using

incorrect cable sizes can cause slippage or damage.

- **Secure Anchoring:** Ensure all pulling and anchoring points are secure and capable of withstanding the applied forces.
- **Clear Area:** Keep hands, feet, and other body parts clear of the cable and grip during operation. Maintain a safe distance from tensioned lines.
- **Safety Latch:** Always ensure the safety latch is properly engaged to prevent accidental disconnection of the cable.
- **Avoid Shock Loading:** Apply tension gradually and avoid sudden jerks or shock loading, which can stress the tool and cable.

3. PRODUCT FEATURES

The YATOINTO Cable Grip is engineered with several key features to ensure reliable performance and user safety:

- **High-Quality Construction:** Manufactured from durable alloy steel, the grip undergoes special heat treatment for enhanced strength and longevity.
- **Secure Gripping Mechanism:** Designed with strong resistance and a high-bite jaw, it effectively prevents slippage and deformation of the wire rope during pulling operations.
- **Anti-Disconnection Safety Device:** The jaw is equipped with a safety device to prevent accidental release, ensuring the cable remains securely held.
- **Minimal Conductor Damage:** The design incorporates delicate and smooth tongs to minimize potential damage to the wire rope.
- **Versatile Application:** Suitable for various types of steel cables and widely used in electric power, industrial, and agricultural operations for tightening and adjusting rope lines.



WIDELY USED

- 1 Equipped with spring clamping device
- 2 The jaw is equipped with an anti disconnection safety device, which is safer to use
- 3 Little damage to conductor



Image 2: Examples of the YATOINTO cable grip's wide range of applications in various work environments.

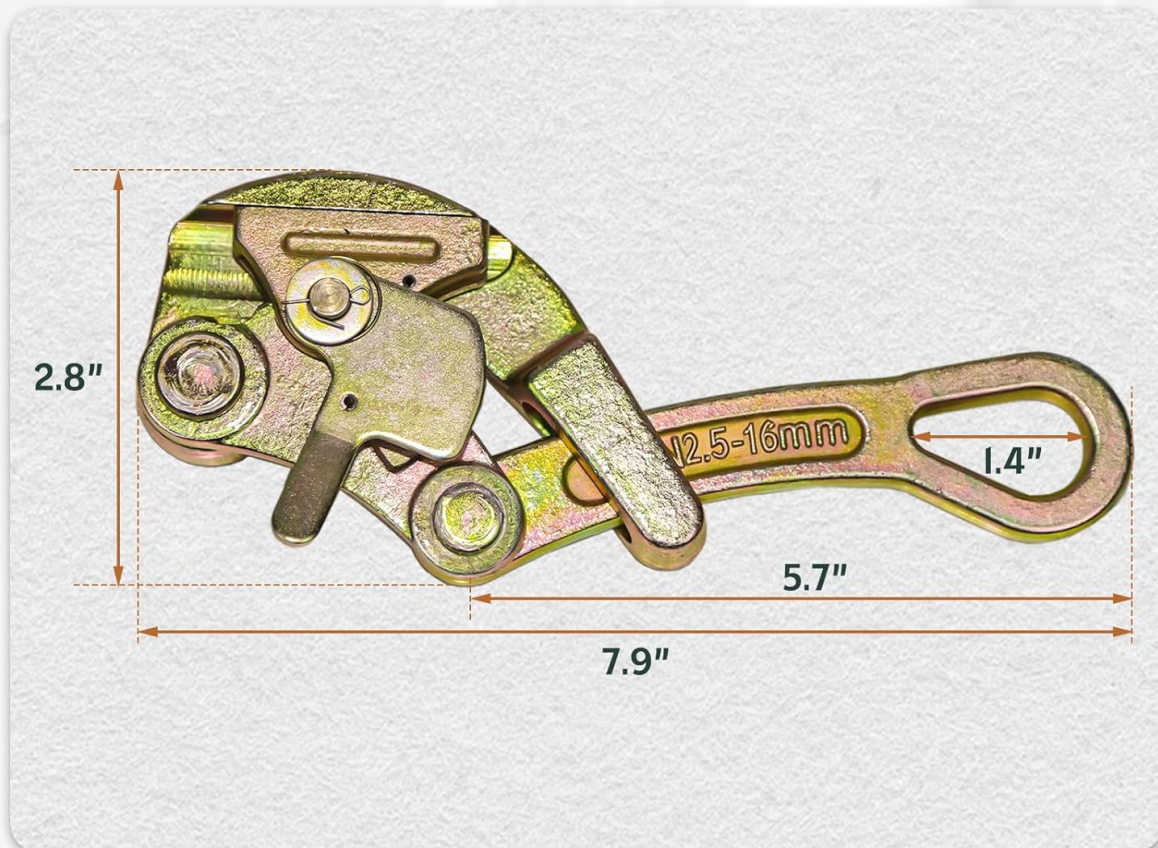


Image 3: Detailed view of the YATOINTO cable grip components, including the product gear, flat sheet metal, safety latch, and spring clip.

4. SPECIFICATIONS

Specification	Detail
Manufacturer	YATOINTO
Part Number	SD-1t-STEEL
Item Weight	1.67 pounds (0.76 kg)
Package Dimensions	7.68 x 3.35 x 1.77 inches (19.5 x 8.5 x 4.5 cm)
Size / Capacity	1 Ton (2200 lbs)
Applicable Wire Diameter	2.5 mm - 16 mm (0.1 - 0.6 inches)
Material	Alloy Steel
Item Package Quantity	1

PRODUCT SIZE



Rated load:10KN

Weight:0.8KG

Image 4: Product dimensions of the YATOINTO 1 Ton Cable Grip.

5. SETUP

Proper setup is crucial for safe and effective operation.

1. **Initial Inspection:** Before each use, visually inspect the cable grip for any signs of damage, wear, or corrosion. Ensure all moving parts operate smoothly.
2. **Verify Cable Compatibility:** Confirm that the diameter of the wire rope you intend to pull is within the tool's specified range of 2.5 mm to 16 mm.
3. **Clean Jaws:** Ensure the gripping jaws are clean and free from dirt, grease, or debris that could reduce friction and cause slippage.
4. **Prepare Pulling System:** Attach your pulling mechanism (e.g., winch, hoist, come-along) to a secure and stable anchor point. Ensure the pulling mechanism has a sufficient capacity for the task.

6. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of the YATOINTO Cable Grip:

1. **Open the Grip:** Manually open the jaws of the cable grip.
2. **Insert Wire Rope:** Carefully insert the wire rope into the open jaws of the grip. Ensure the cable is seated deeply and centrally within the gripping area.

3. **Engage Safety Latch:** Close the jaws and ensure the safety latch is fully engaged to prevent the cable from accidentally disengaging. The grip should hold the cable firmly without tension.
4. **Attach to Pulling Mechanism:** Connect the eye of the cable grip to your pulling mechanism (e.g., hook of a hoist or winch).
5. **Apply Tension:** Gradually apply tension using your pulling mechanism. The grip's jaws will tighten further as tension increases, providing a secure hold. Monitor the cable and grip for any signs of slippage or distress.
6. **Maintain Tension:** Once the desired tension or position is achieved, maintain it securely.
7. **Release Tension:** Before attempting to remove the grip, carefully release all tension from the cable. Once tension is fully released, the grip's jaws will loosen.
8. **Remove Grip:** Open the jaws and carefully remove the cable grip from the wire rope.

How-to-Use Video

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Video 2: A demonstration video showing the step-by-step process of using the YATOINTO Cable Grip Steel Wire Puller to secure and pull a wire rope. Note: This video features a 2-ton model, but the operational principles are identical for the 1-ton model.

7. MAINTENANCE

Regular maintenance will extend the life of your YATOINTO Cable Grip and ensure its continued safe operation.

- **Cleaning:** After each use, clean the grip thoroughly to remove any dirt, mud, or debris, especially from the gripping jaws and pivot points. Use a stiff brush and mild detergent if necessary, then rinse and dry completely.
- **Inspection:** Periodically inspect the entire tool for signs of wear, corrosion, cracks, bends, or other damage. Pay close attention to the jaws, pivot pins, and the safety latch mechanism.
- **Lubrication:** Apply a light coat of machine oil or grease to all pivot points and moving parts to ensure smooth operation and prevent rust.
- **Storage:** Store the cable grip in a clean, dry place away from corrosive chemicals and extreme temperatures.
- **Damaged Parts:** If any part of the grip is damaged or shows excessive wear, discontinue use immediately and replace the tool. Do not attempt to repair damaged components.



Image 5: Various close-up views of the YATOINTO cable grip, showcasing its construction and overall appearance for inspection.

8. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

- **Issue: Cable is slipping from the grip.**

Solution:

- Verify that the wire rope diameter is within the specified range (2.5-16 mm).
- Ensure the gripping jaws are clean and free of oil, grease, or debris.
- Confirm that the safety latch is fully engaged.
- Do not exceed the maximum rated load of 1 Ton.
- Inspect the jaws for excessive wear or damage; replace the tool if jaws are worn.

- **Issue: Difficulty opening or closing the grip jaws.**

Solution:

- Check for any foreign objects or debris obstructing the mechanism.
- Apply a small amount of lubricant to the pivot points and hinges.
- Ensure no tension is applied to the cable when attempting to open or close the grip.

9. WARRANTY AND SUPPORT

For specific warranty information, product support, or to inquire about replacement parts, please refer to the documentation included with your purchase or contact YATOINTO customer service directly. Contact details can typically be found on the manufacturer's official website or through your retailer.