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Unicraft HZ 751

Unicraft HZ 751 Lever Hoist with Load Chain

INSTRUCTION MANUAL

1. Introduction and Safety Information

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Unicraft HZ 751 Lever Hoist. Read and understand all instructions before operating the hoist. Failure to follow these instructions may result in serious injury or property damage.

General Safety Warnings:

- **Never exceed the rated load capacity** of the hoist.
- **Inspect the hoist** before each use for any signs of damage, wear, or malfunction. Do not use if damaged.
- **Ensure the load is properly secured** and balanced before lifting or pulling.
- **Keep hands and body clear** of the load and moving parts during operation.
- **Do not use the hoist for lifting people** or for any purpose other than its intended use.
- **Operate the hoist smoothly**; avoid sudden jerks or impacts.
- **Ensure the suspension point** is capable of supporting the hoist and the maximum intended load.

2. Product Overview

The Unicraft HZ 751 Lever Hoist is designed for lifting and pulling loads. It features a robust construction and user-friendly mechanisms for efficient material handling.



Figure 1: Unicraft HZ 751 Lever Hoist. This image displays the complete lever hoist assembly, including the orange-painted steel housing, the operating lever with a black grip, the galvanized load chain, and both the suspension hook and the load hook, each equipped with a safety catch.

Key Features:

- **Chain Freewheel Mechanism:** Allows for quick engagement of the load or pulling through the load chain in both directions.
- **Load Pressure Brake:** Equipped with asbestos-free brake discs for secure holding of the load.
- **Forged Hooks:** Swivelable load and suspension hooks, each with a safety catch for secure attachment.
- **Galvanized Load Chain:** Manufactured according to DIN ISO 3077 for durability and corrosion resistance.
- **Durable Housing:** Features a very strong, painted steel housing.
- **Certified:** TÜV-GS tested for safety and quality.

3. Setup

Proper setup is crucial for safe operation.

1. **Inspect the Hoist:** Before initial use, thoroughly inspect the entire hoist for any visible damage, kinks

in the chain, or loose components. Ensure all safety catches on the hooks are functioning correctly.

2. **Secure Suspension:** Attach the suspension hook (upper hook) to a secure, load-bearing anchor point. This anchor point must be rated to safely support the combined weight of the hoist and the maximum intended load. Ensure the safety catch on the suspension hook is fully closed.
3. **Positioning:** Position the hoist directly above the center of gravity of the load to prevent swinging or instability during lifting.

4. Operating Instructions

Follow these steps for safe lifting and pulling operations.

4.1 Engaging the Load Chain (Freewheel Function)

1. Ensure the hoist is not under load.
2. Locate the freewheel selector switch (typically a lever or knob on the side of the hoist body).
3. Move the selector switch to the 'Freewheel' or 'Neutral' position. This disengages the brake, allowing the load chain to be pulled freely by hand.
4. Pull the load chain to adjust the load hook to the desired position, close to the load.
5. Once positioned, move the selector switch back to the 'Lift' or 'Lower' position to engage the brake mechanism.

4.2 Lifting a Load

1. Attach the load hook to the load, ensuring the safety catch is fully closed and the load is securely attached.
2. Verify the freewheel selector switch is in the 'Lift' position.
3. Operate the lever handle with smooth, steady strokes. Each stroke will incrementally lift the load.
4. Monitor the load for stability and ensure it does not snag on obstacles.
5. To hold the load at a specific height, simply release the lever. The load pressure brake will automatically hold the load in position.

4.3 Lowering a Load

1. Verify the freewheel selector switch is in the 'Lower' position.
2. Operate the lever handle with smooth, steady strokes. Each stroke will incrementally lower the load.
3. Control the descent carefully to prevent sudden drops or impacts.
4. Once the load is safely on the ground or at its destination, detach the load hook.

4.4 Pulling a Load (Horizontal Movement)

The hoist can also be used for horizontal pulling. Ensure the anchor point for the suspension hook is robust and can withstand horizontal forces. Follow the lifting/lowering procedures, adapting them for horizontal movement.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Unicraft HZ 751 Lever Hoist.

5.1 Daily/Before Use Inspection

- **Hooks:** Check for deformation, cracks, or excessive wear. Ensure safety catches operate freely and close fully.
- **Load Chain:** Inspect for kinks, twists, stretched links, corrosion, or nicks. The chain should run freely through the hoist mechanism.
- **Housing:** Check for cracks, dents, or damage to the steel housing.
- **Lever Handle:** Ensure it is securely attached and not bent or damaged.
- **Brake Function:** Test the brake by applying a light load and ensuring it holds securely.

5.2 Lubrication

Periodically lubricate the load chain with a light machine oil or chain lubricant to prevent corrosion and ensure smooth operation. Consult a qualified technician for internal lubrication of gears and brake components.

5.3 Storage

Store the hoist in a clean, dry environment, protected from dust, moisture, and corrosive substances. Avoid storing it in direct sunlight or extreme temperatures.

6. Troubleshooting

This section addresses common issues you might encounter with your lever hoist.

Problem	Possible Cause	Solution
Hoist does not lift/lower load	Freewheel engaged; brake malfunction; overloaded; damaged chain.	Ensure freewheel is disengaged. Check for overload. Inspect chain for damage. If brake issue, contact service.
Load slips or drops	Brake wear/malfunction; excessive load; improper chain seating.	Immediately lower load safely. Do not use. Contact qualified service for brake inspection. Ensure chain is correctly seated.
Chain jams or binds	Kinked chain; foreign object; lack of lubrication; damaged chain guide.	Lower load if possible. Inspect chain for kinks or foreign objects. Lubricate chain. If persistent, contact service.
Difficulty operating lever	Overloaded; internal mechanism issue; lack of lubrication.	Reduce load if overloaded. Do not force the lever. Contact qualified service for inspection.

For issues not listed or if solutions do not resolve the problem, discontinue use and contact a qualified service technician.

7. Specifications

- **Brand:** Unicraft
- **Model:** HZ 751
- **Item Weight:** 6.7 kg
- **Manufacturer Reference Number:** 6171175
- **First Available Date:** July 28, 2020

8. Warranty and Support

For warranty information, service, or technical support regarding your Unicraft HZ 751 Lever Hoist, please refer to the documentation provided at the time of purchase or contact Unicraft customer service directly. Keep your purchase receipt as proof of purchase.