



Manuals.plus /

› Strongway /

› Strongway Manual Chain Hoist - 6000-Lb. Capacity, 20ft. Lift User Manual

Strongway 3393583

Strongway Manual Chain Hoist User Manual

Model: 3393583 | 6000-Lb. Capacity, 20ft. Lift

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Strongway Manual Chain Hoist. Designed for heavy-duty lifting, this hoist features a 6000-Lb. capacity and a 20-foot lift height, making it suitable for various industrial and commercial applications. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent injury or damage.

2. SAFETY INFORMATION

Operating a chain hoist involves inherent risks. Adhering to safety guidelines is crucial to prevent accidents and ensure longevity of the equipment. Always prioritize safety during all stages of use.

General Safety Precautions:

- **Read the Entire Manual:** Understand all instructions and warnings before operating the hoist.
- **Inspect Before Each Use:** Check the hoist, chains, and hooks for any signs of wear, damage, or deformation. Do not use if any defects are found.
- **Do Not Exceed Rated Capacity:** The hoist is rated for a maximum of 6000 pounds (3 tons). Overloading can cause severe damage and injury.
- **Proper Rigging:** Ensure the load is securely attached and balanced. Use appropriate slings and attachments.
- **Maintain Clear Work Area:** Keep the area around the hoist and load clear of personnel and obstructions.
- **Avoid Shock Loading:** Do not drop or suddenly apply loads to the hoist. Lift and lower loads smoothly.
- **Never Lift People:** This hoist is designed for material lifting only.
- **Protect Chains:** Do not allow the load chain or hand chain to become twisted, kinked, or wrapped around sharp edges.
- **Environmental Conditions:** Use the hoist in a well-lit area, free from excessive moisture, corrosive environments, or extreme temperatures.

Safety Standards Compliance:

This Strongway Manual Chain Hoist meets **ASME B30.16/ASME HST-2:2014 safety standards**, ensuring a high level of operational safety when used as directed.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your manual chain hoist:

- **Suspension Hook:** The top hook used to attach the hoist to a secure anchor point.
- **Hand Chain:** The chain pulled by the operator to lift or lower the load.
- **Load Chain:** The chain that supports and lifts the load. Made from Grade 80 steel for durability.
- **Hoist Body/Gear Case:** Houses the lifting mechanism, including gears and braking system.
- **Load Hook (Bottom Hook):** The hook at the end of the load chain, designed to attach to the load. Features a safety latch and is drop-forged for strength.

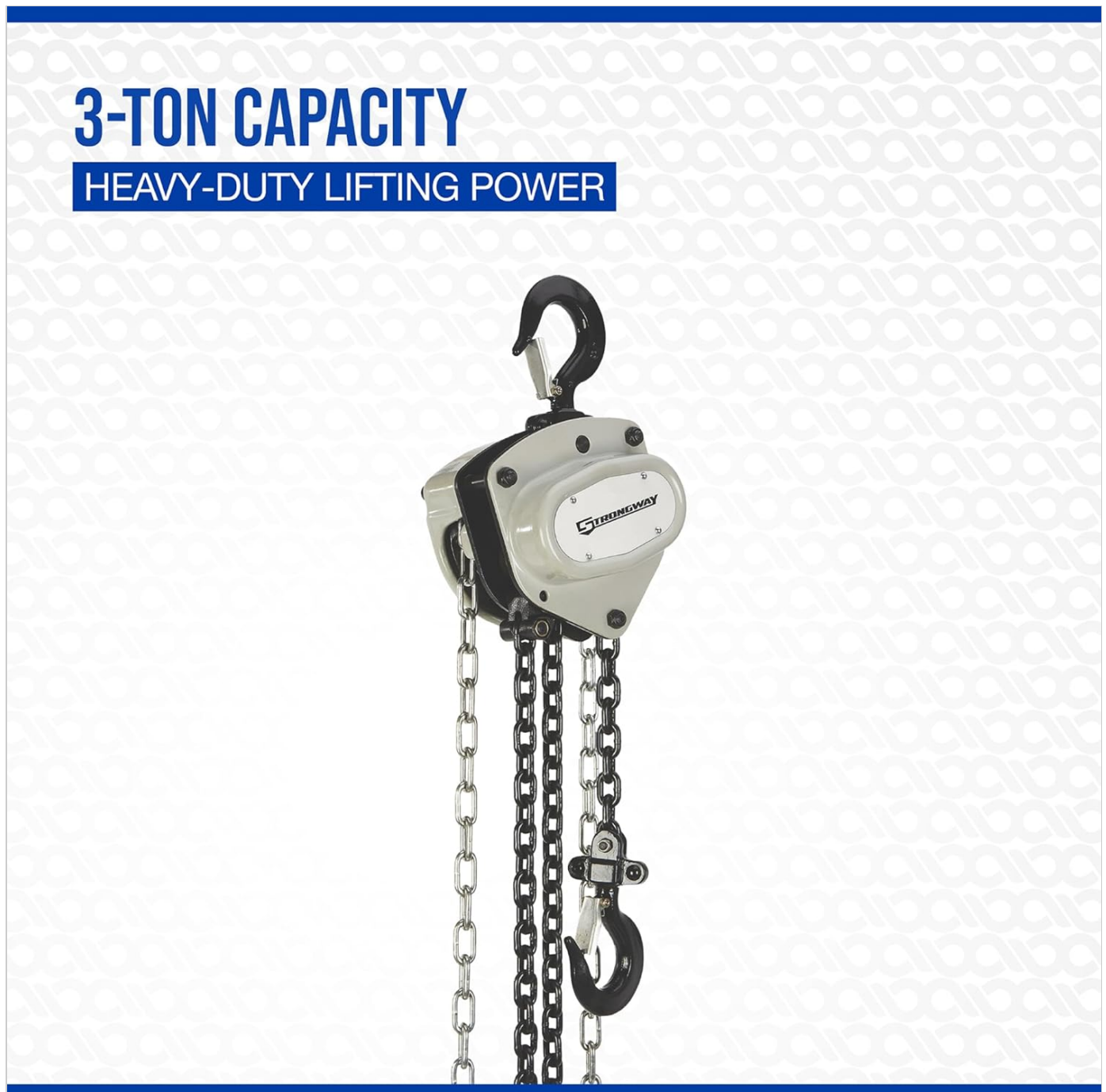


Figure 3.1: Overview of the Strongway Manual Chain Hoist, highlighting its 3-ton capacity and heavy-duty lifting power.



360° SWIVEL HOOK

FLEXIBLE AND SECURE HANDLING

Figure 3.2: Detail of the 360-degree swivel hook, designed for flexible and secure handling of loads.



Figure 3.3: The hoist's drop-forged hooks, which include a safety indicator feature to show excessive overload.



Figure 3.4: A close-up view of the Grade 80 load chain, emphasizing its robust and durable construction for reliable lifting.

4. SETUP

Proper setup is critical for safe and efficient operation.

Installation Steps:

1. **Select a Secure Anchor Point:** The overhead support structure must be capable of safely supporting the hoist's weight plus the maximum rated load, with an adequate safety factor.
2. **Attach Suspension Hook:** Securely attach the hoist's suspension hook to the chosen anchor point. Ensure the safety latch on the hook is fully closed and engaged.
3. **Inspect Chains:** Before first use, uncoil the load chain and hand chain, ensuring there are no twists, kinks, or obstructions.
4. **Test Operation:** Perform a test lift with a light load to confirm smooth operation of the lifting and lowering mechanisms and proper brake function.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your Strongway Manual Chain Hoist.

Lifting a Load:

1. **Attach Load:** Securely attach the load to the bottom hook. Ensure the load is centered and the safety latch is closed.
2. **Position Yourself:** Stand in a stable position, clear of the load, and with a clear view of the lifting operation.
3. **Pull Hand Chain:** Pull the hand chain downwards steadily to lift the load. The hoist's internal mechanism will engage, and the load will rise.
4. **Monitor Load:** Continuously observe the load for stability and balance during lifting.
5. **Stop Lifting:** Release the hand chain to stop the load at the desired height. The automatic brake will hold the load in position.

Lowering a Load:

1. **Pull Hand Chain (Opposite Direction):** Gently pull the hand chain in the opposite direction (usually the other side of the loop) to lower the load.
2. **Control Speed:** Control the lowering speed by the rate at which you pull the hand chain. Avoid rapid lowering.
3. **Release Load:** Once the load is safely on the ground or desired surface, release the hand chain and detach the load from the hook.



Figure 5.1: The Strongway Manual Chain Hoist in operation, demonstrating its 20-foot lift height for extended range operations, here lifting a barrel from a truck bed.

6. MAINTENANCE

Regular maintenance ensures the hoist remains in safe and optimal working condition.

Inspection Schedule:

- **Daily/Before Each Use:**
 - Check load chain for wear, nicks, gouges, twists, or corrosion.
 - Inspect hooks for deformation, cracks, or bent safety latches.
 - Verify smooth operation of the hand chain and load chain.
 - Test brake function by lifting a light load and ensuring it holds.
- **Monthly/Quarterly:**
 - Perform a more thorough inspection of all components, including the hoist body, gears, and internal mechanisms (if

accessible and safe to do so).

- Check for loose fasteners.
- Lubricate the load chain and internal moving parts with lithium grease as recommended.

Lubrication:

The hoist uses lithium grease for high performance. Apply a thin layer of lithium grease to the load chain periodically, especially in dusty or corrosive environments. Consult a qualified technician for internal lubrication of gears and bearings.



Figure 6.1: An internal view of the hoist mechanism, showing the gears and chain path, which require periodic inspection and lubrication.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Difficulty pulling hand chain / Hoist jams	Overload; Twisted or kinked load chain; Obstruction in chain path; Dry chain.	Reduce load (do not exceed capacity); Inspect and untwist chain; Clear any obstructions; Lubricate chain.
Load slips or drifts	Brake wear or malfunction; Contamination on brake surfaces; Excessive load.	Immediately lower load and cease operation. Have a qualified technician inspect and repair or replace brake components. Do not use until repaired.
Hooks are bent or deformed	Overloading; Improper rigging.	Immediately cease operation. Replace damaged hooks with genuine Strongway replacement parts. Review proper loading procedures.
Unusual noises during operation	Lack of lubrication; Worn gears or bearings; Loose components.	Lubricate moving parts. If noise persists, cease operation and have a qualified technician inspect the hoist.

For issues not listed or if solutions do not resolve the problem, contact customer support.

8. SPECIFICATIONS

Key technical specifications for the Strongway Manual Chain Hoist, Model 3393583.

- **Model Number:** 3393583
- **Capacity:** 6000 Lb. (3 Ton)
- **Lift Height:** 20 ft.
- **Load Chain Grade:** Grade 80
- **Brake System:** Heat-treated double pawls
- **Hooks:** Ductile drop-forged with safety indicator
- **Frame Material:** High-strength steel
- **Lubricant:** Lithium grease
- **Item Weight:** 78 pounds
- **Package Dimensions:** 14 x 13 x 8 inches
- **Safety Standards:** Meets ASME B30.16/ASME HST-2:2014

9. WARRANTY AND SUPPORT

For warranty information, product support, or to inquire about replacement parts, please contact the seller, Northern Tool + Equipment. This product typically includes a 30-day easy return policy from the seller.

Seller: Northern Tool + Equipment

Refer to your purchase documentation for specific warranty terms and contact details.

