

YOUR LES®

QUICK GUIDE

TO

MANUAL CHAIN HOISTS



WHAT IS A MANUAL CHAIN HOIST?

It's a simple mechanical device that can be used to pull or lift objects and loads of all shapes and sizes that include bulky, awkward shaped, sharp, and heavy wide objects.

You'll find that the rigging equipment uses a gear transmission and chain to lift a load to ensure a smooth and level lifting process.

You'll find that this item has breaks that prevent the load from slipping which should minimise the potential for the load to slip or cause injury to you, the operator, your team, or anyone else for that matter. This means you can have complete confidence in this product to secure your load. Additionally, the great factor about this item is that it requires minimal effort and is a great alternative hoist for lower capacities.

COMPONENTS OF A MANUAL CHAIN HOIST

Load Chain: The load chain is a durable chain designed to lift heavy objects. It is made from high-strength steel and is available in various lengths and capacities to suit different requirements.

Lifting Hook: The lifting hook is attached to the load chain and is used to secure the load being lifted. It usually has a safety latch to prevent accidental disengagement of the load.

Hand Chain: The hand chain is used to manually operate the hoist. Pulling the hand chain moves the load chain through the gears, lifting or lowering the load.

Gearing Mechanism: Manual chain hoists contain a set of gears that multiply the force applied to the hand chain, allowing users to lift heavy loads with minimal effort.

Load Brake: A load brake is a safety feature that prevents the load from slipping for falling in the event of a sudden stop or release of the hand chain.

HOW DO THEY WORK?

Manual chain hoists are a simple yet effective piece of equipment for you and your team to use. They are different in the way they work to electric chain hoists with the main difference they are manually operated.

You will find that at the top of the chain, the drive wheel and the drive chain sit in the grooves of the wheel. This allows the chain to create a force to turn the wheel. From there, there's a shaft that runs through the entire wheel to a gear that is situated in the middle of the wheel. This then drives the two gears on either side.

The small gear has a lower number of teeth, but this isn't an issue because when one gear is not engaged the other is. There is also a ratchet that has teeth and when rotated it stops any back dragging from occurring.

However, you can manually back drag if you need. There is a clutch that disengaged the ratchet wheel and allows you to turn the wheel anticlockwise to lower the load if necessary.

CONSIDERATIONS & USAGE

Here is a short few steps on how to properly use a manual hand chain hoist.

Inspecting the Hoist: Before every use, we recommend inspecting the hoist for any signs of damage or wear. Check the load chain, lifting hook, and gears for any defects that could affect safety or performance.

Choosing the Right Hoist: You must select a hand chain hoist with the appropriate load capacity and height of lift for the job at hand. Using a hoist with insufficient capacity can be dangerous and may result in equipment and personal damage.

Attaching the Hoist: Securely anchor the hoist to a suitable mounting point using a sturdy beam or overhead support structure. Ensure that the mounting point can withstand the weight of the load and the forces generated during lifting.

Attaching the Load: Attach the lifting hook to the load, making sure it is properly engaged and securely positioned. Use rigging accessories such as slings or shackles if necessary to ensure a safe and secure connection.

Operating the Hoist: Grasp the hand chain and pull it steadily and evenly to lift your load. Use smooth, controlled movements to avoid jerking or sudden changes in load position. To lower the load, slowly release the hand chain while maintaining control to prevent sudden drops.

Monitoring the Load: Always keep an eye on the load and surroundings throughout every lifting operation. Watch for any signs of instability or shifting and be prepared to stop and reassess if necessary.

Lowering the Load Safely: When the lifting operation is complete, lower the load carefully to the ground or to a stable resting position. Avoid dropping or releasing the load suddenly to prevent any damage or injury.

Storing the Hoist: After use, store your manual chain hoist in a clean, dry environment away from any moisture, corrosive chemicals, or extreme temperatures. Proper storage will help prolong the life of your hoist and ensure its ready for safe and efficient use when needed.

SAFETY TIPS

We always advise our valued customers on the safety considerations to ensure a safe, easy, and effective lifting process takes place. If you're unsure, use the below as guidance.

- Always follow the manufacturer's instructions and guidelines for proper hoist operation and maintenance.
- Inspect the hoist and lifting equipment before each use. Never use a hoist that shows any signs of damage.
- Use appropriated personal protective equipment (PPE) such as gloves and safety googles when operating a manual chain hoist.
- Ensure that the load is properly balanced and securely attached to the lifting hook before lifting.
- Never exceed the rated load capacity of the hoist and avoid overloading or side loading.
- Keep bystanders clear of the lifting area and ensure that there are no obstructions or overhead hazards that could interfere with the lifting operation.
- Use caution when operating the hoist near electrical hazards or in confined spaces, and be aware of potential pinch points or entanglement hazards.
- If the hoist experiences any unusual noises, vibrations, or difficulties during operation, stop immediately and investigate the cause before continuing.

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