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SPECSTAR 10ft Manual Chain Block Hoist & 110V 440 Lbs Electric Hoist

SPECSTAR & VIVOHOME Hoist System User Manual

Model: 10ft Manual Chain Block Hoist & 110V 440 Lbs Electric Hoist

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation and maintenance of your SPECSTAR 10 Feet Manual Hand Chain Block Hoist and VIVOHOME 110V 440 Lbs Lift Electric Hoist. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and prevent injury or damage.

The SPECSTAR manual chain hoist is constructed from premium 20Mn2 alloy steel, featuring reinforced, black-oxidized chains for enhanced durability. The VIVOHOME electric hoist crane is designed with a rugged steel shell and a high-strength carbon steel cable, ensuring longevity and resistance to twisting.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always inspect the hoist, chains, hooks, and cables for damage or wear before each use. Do not use if any components are damaged.
- Do not exceed the rated load capacity of either hoist. Refer to the specifications section for details.
- Ensure the load is properly balanced and secured before lifting.
- Keep hands and body clear of moving parts, chains, and cables during operation.
- Do not use the hoist to lift people or objects over people.
- Ensure the mounting structure for the hoist is capable of supporting the hoist's weight plus the maximum rated load.
- For electric hoists, ensure the power supply matches the hoist's requirements and that all electrical connections are secure.
- Do not operate hoists in hazardous environments or where explosive fumes are present.
- Always use appropriate personal protective equipment (PPE) such as safety gloves and eye protection.

- The electric hoist is equipped with an emergency stop switch. Familiarize yourself with its location and function.
- The electric hoist features an automatic shut-off when the hook reaches its upper limit. Do not rely solely on this feature; monitor the lifting process.

3. PRODUCT OVERVIEW

3.1 SPECSTAR Manual Hand Chain Block Hoist

This manual chain hoist is designed for lifting small to medium engine blocks and other heavy items in garages, repair shops, and similar environments. It features a durable alloy steel construction and a 10-foot lift height.

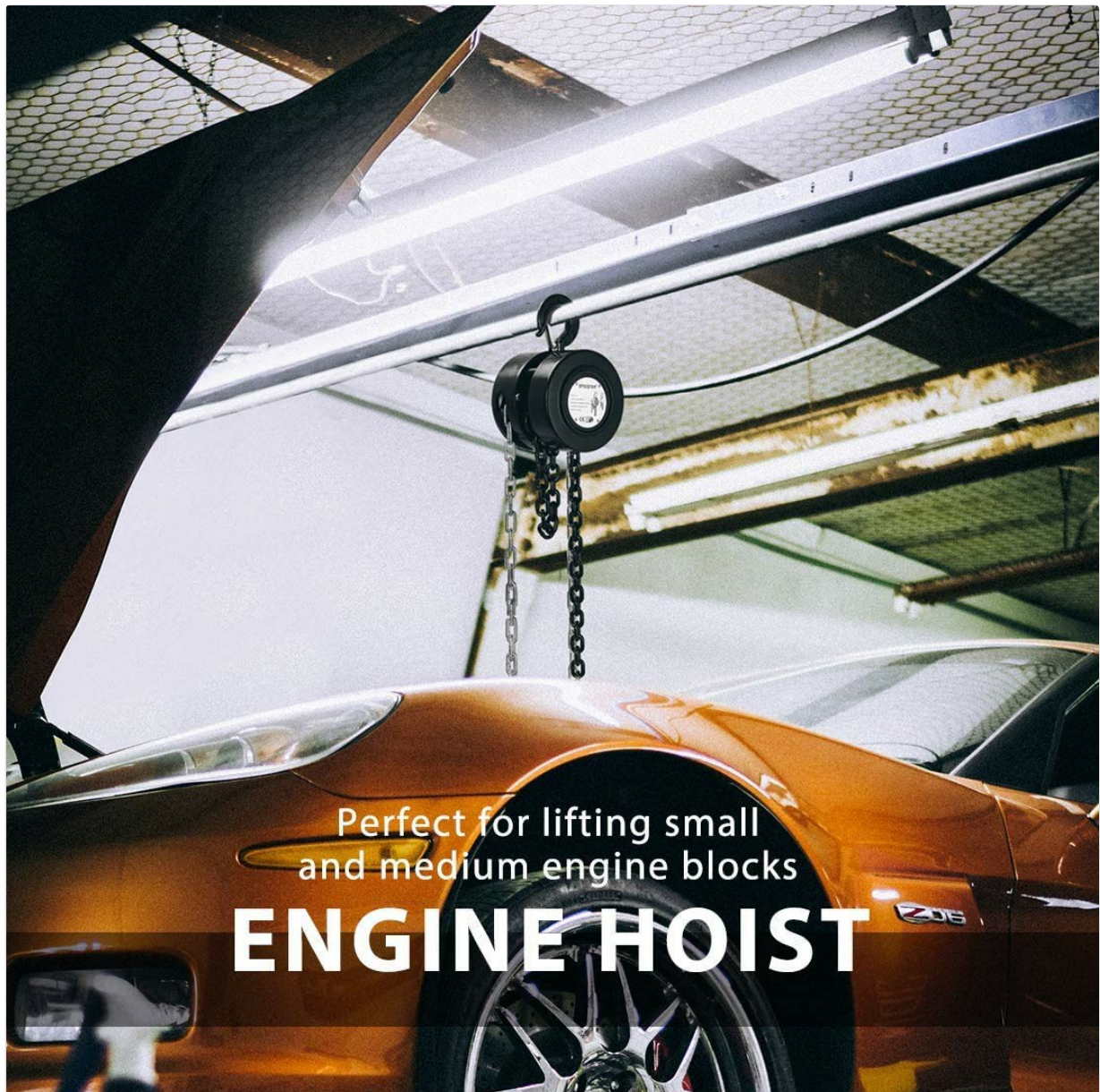
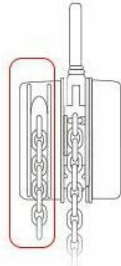


Figure 3.1: The SPECSTAR 10 Feet Manual Hand Chain Block Hoist, shown in a garage setting, ideal for lifting engine blocks.



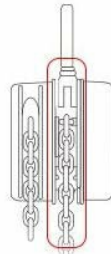
BALL BEARING

Principle of Mechanical Engineering



Outer ring

Push the stainless chains upwards to raise the chains



Inner ring

Coaxial and inner chain balance the hook



Figure 3.2: Detailed view of the manual hoist's ball bearing mechanism, showing the outer and inner rings for chain movement.

Manual operation

Easy to pull by hand



10FT
Lift Height



High max
weight

Used in factories & repair shops



Engines



Cars

Figure 3.3: Illustration of the manual hoist's 1.25 Ton maximum capacity and 10ft lift height, suitable for engines and cars.

3.2 VIVOHOME Electric Hoist

The VIVOHOME electric hoist provides powered lifting capabilities, suitable for garages, warehouses, and factories. It features a robust motor, zinc-plated steel wire, and an emergency stop switch for safe operation.

FAN & CLAMPS *With long operation time*



Figure 3.4: The VIVOHOME electric hoist, highlighting its large fan for cooling and ribbed design for overheat protection, along with the safety latch on the hook.

AUTOMATIC SHOT-OFF

Make work a safer place

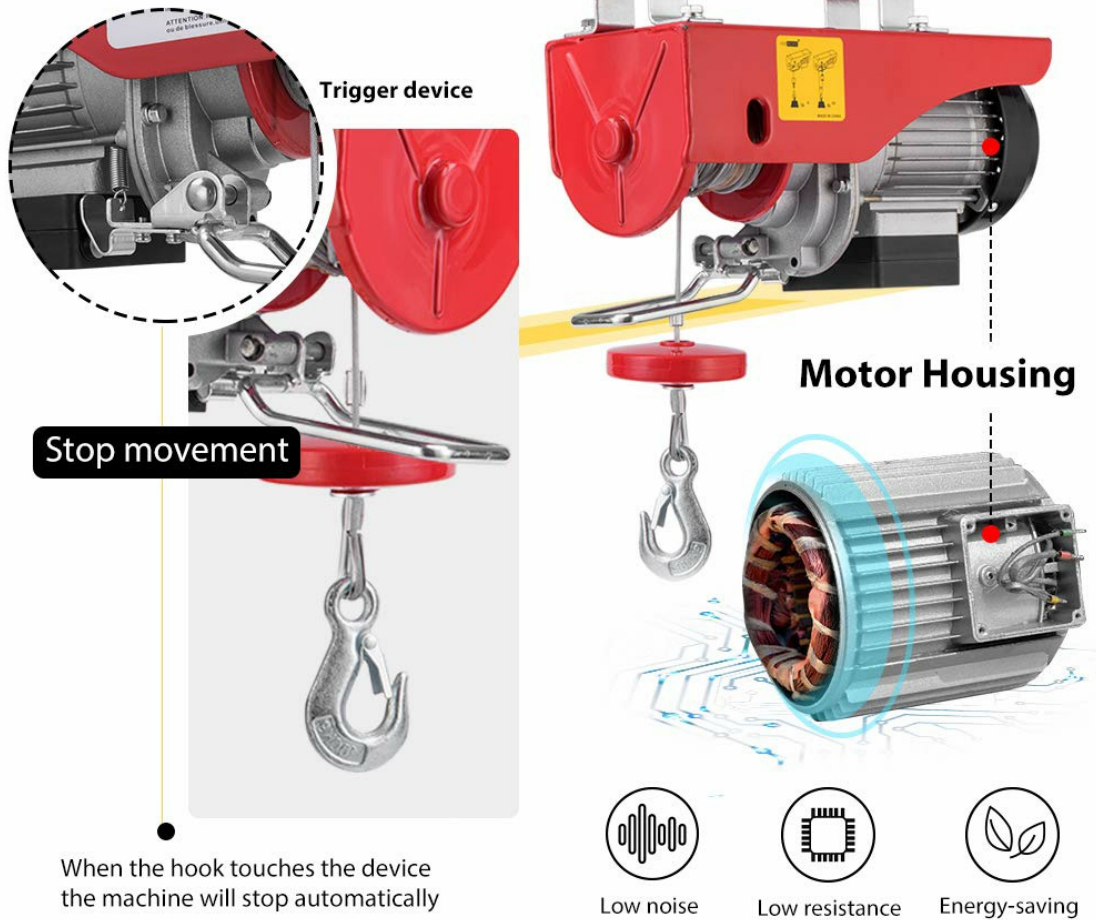


Figure 3.5: Diagram showing the electric hoist's automatic shut-off trigger device, which stops movement when the hook reaches its upper limit, contributing to safer operation.

2 DIFFERENT HOOKS

Choose the best one for your purpose

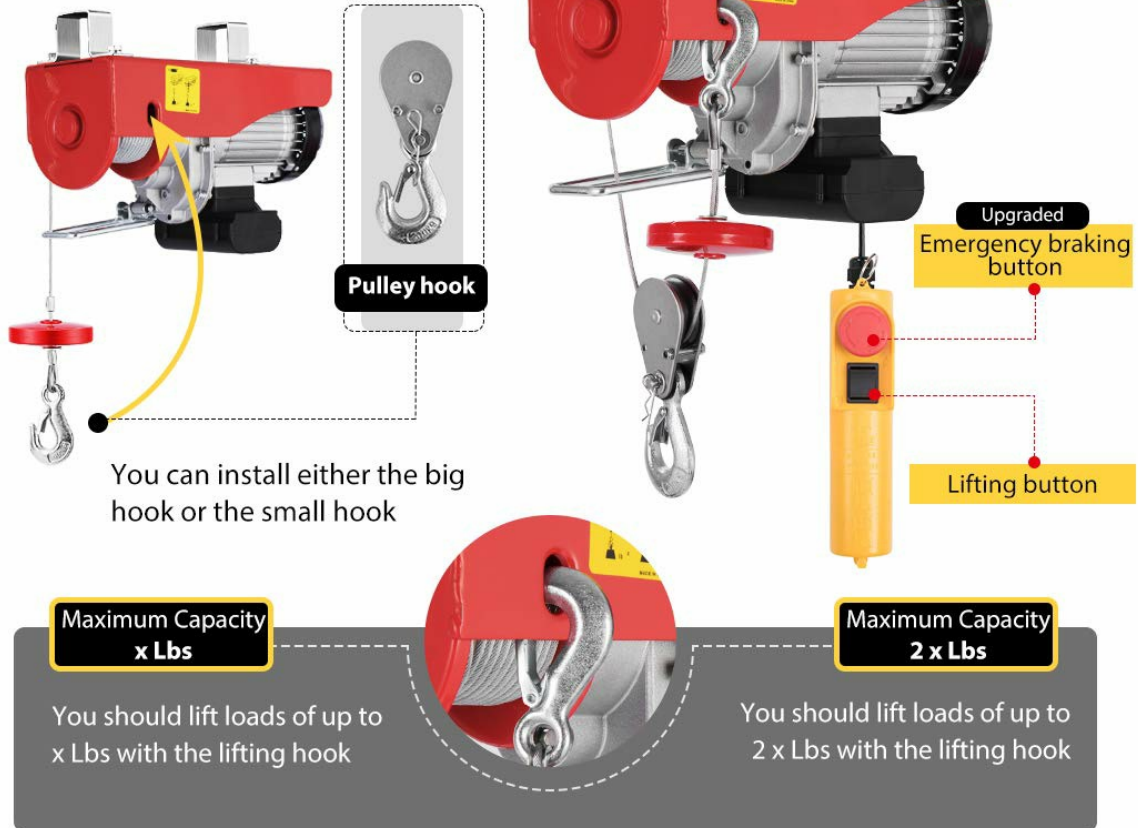


Figure 3.6: Illustration of the electric hoist's two hook configurations: single line for 220 Lbs capacity and double line with a pulley hook for 440 Lbs capacity, along with the lifting button and emergency braking button.

4. SETUP AND INSTALLATION

4.1 SPECSTAR Manual Hand Chain Block Hoist Installation

1. **Inspect Mounting Point:** Ensure the overhead beam or structure where the hoist will be attached is structurally sound and rated to support the hoist's weight plus the maximum load.
2. **Attach Top Hook:** Securely attach the top hook of the manual hoist to the designated mounting point. Ensure the safety latch on the hook is fully closed.
3. **Verify Stability:** Before lifting any load, gently pull the hand chain to ensure the hoist is stable and securely mounted.

4.2 VIVOHOME Electric Hoist Installation

The electric hoist requires secure mounting to an overhead structure using the provided fixing rings and hardware.

FIXING RING

To fix the machine to the roof

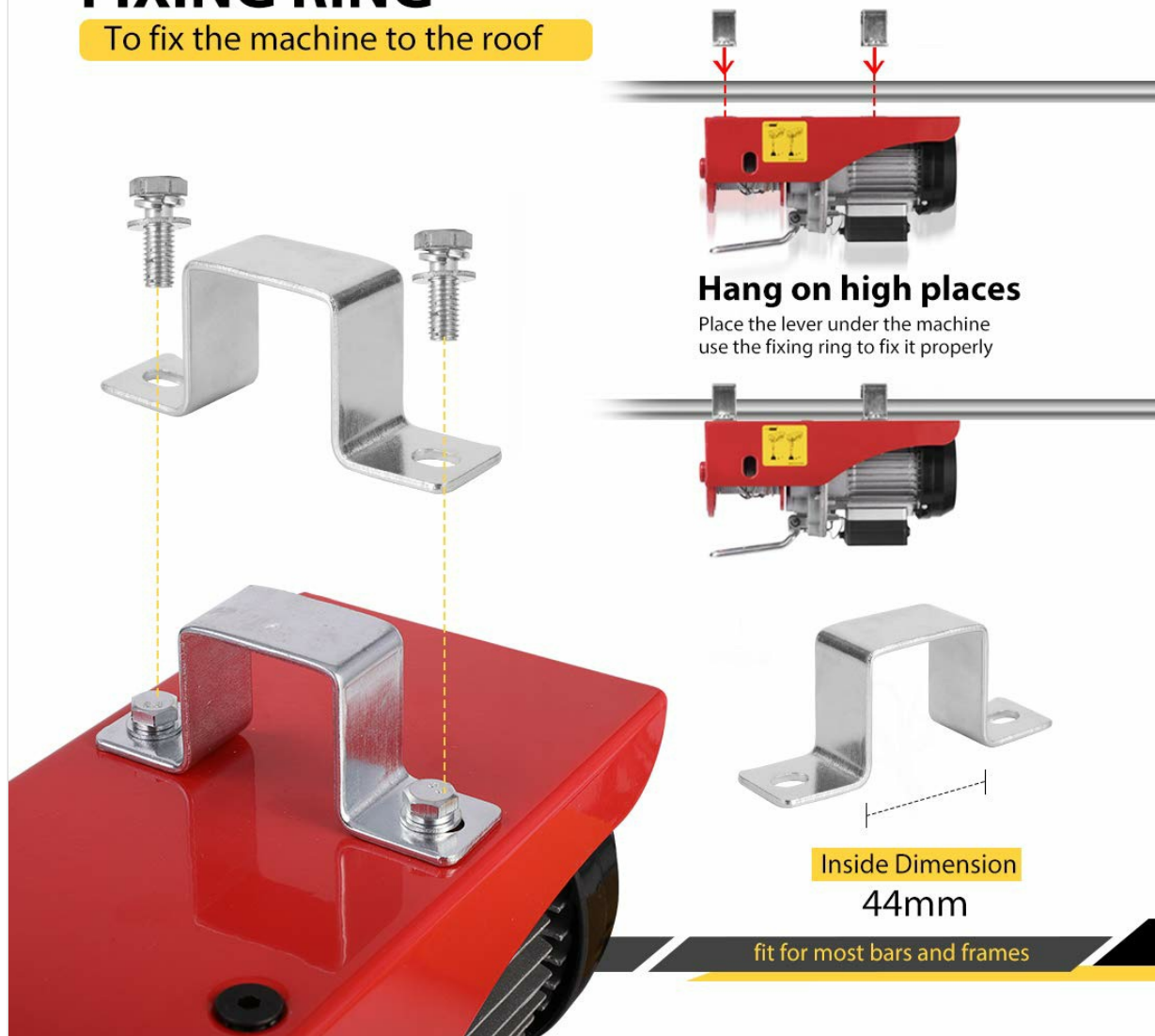


Figure 4.1: Instructions for using the fixing ring to securely attach the electric hoist to an overhead bar or frame. The inside dimension of the fixing ring is 44mm.

1. **Select Mounting Location:** Choose a robust overhead beam or structure capable of supporting the hoist and its maximum load.
2. **Install Fixing Rings:** Attach the fixing rings to the hoist body using the provided bolts.
3. **Mount Hoist:** Hang the hoist onto the overhead bar or frame using the fixing rings. Ensure the rings are properly seated and the hoist is stable.
4. **Electrical Connection:** Connect the hoist to a compatible 110V power outlet. Ensure the power cord is not pinched or damaged.
5. **Test Operation:** Before lifting a load, perform a test run by pressing the ascending and descending buttons on the control panel to ensure smooth operation and verify the emergency stop function.

5. OPERATING INSTRUCTIONS

5.1 Operating the SPECSTAR Manual Hand Chain Block Hoist

1. **Attach Load:** Securely attach the load to the bottom hook of the hoist. Ensure the safety latch is closed.

2. **Lift Load:** Pull the hand chain downwards to raise the load. The chain mechanism will engage, lifting the load incrementally.
3. **Lower Load:** To lower the load, gently pull the other side of the hand chain. Control the descent speed by regulating the pull.
4. **Positioning:** Use the hand chain to precisely position the load as needed.
5. **Never release the hand chain abruptly when a load is suspended.**

5.2 Operating the VIVOHOME Electric Hoist

1. **Power On:** Ensure the hoist is properly connected to a 110V power source.
2. **Attach Load:** Securely attach the load to the hoist hook. For heavier loads, consider using the pulley hook configuration (double line) to increase capacity. Ensure the safety latch is closed.
3. **Lift Load:** Press and hold the "UP" button on the control panel to raise the load.
4. **Lower Load:** Press and hold the "DOWN" button on the control panel to lower the load.
5. **Emergency Stop:** In case of an emergency or malfunction, press the red emergency stop button immediately. This will cut power to the hoist.
6. **Automatic Shut-off:** The hoist will automatically stop when the hook reaches its maximum upper travel limit. Do not rely on this as the primary stopping method during normal operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hoist system.

- **Daily Inspection:** Before each use, visually inspect all components, including chains, cables, hooks, safety latches, and the hoist body, for any signs of wear, damage, or deformation.
- **Lubrication:**
 - **Manual Hoist:** Periodically lubricate the load chain and internal gears with a suitable lubricant to ensure smooth operation and prevent corrosion.
 - **Electric Hoist:** Inspect the wire rope for fraying or kinks. Lubricate the wire rope and any exposed moving parts as recommended by a qualified technician.
- **Cleaning:** Keep both hoists clean and free from dirt, dust, and debris.
- **Electrical Check (Electric Hoist):** Regularly check the power cord and control panel for damage. Ensure all connections are secure.
- **Professional Inspection:** It is recommended to have both hoists inspected by a qualified professional at least once a year, or more frequently with heavy use.
- **Storage:** When not in use, store the hoists in a clean, dry environment, protected from extreme temperatures and moisture.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Manual Hoist: Chain jams or is difficult to pull.	Load chain is twisted, dirty, or improperly seated. Lack of lubrication. Overload.	Check for twists and clear any obstructions. Clean and lubricate the chain. Reduce load to within capacity.

Problem	Possible Cause	Solution
Electric Hoist: Hoist does not operate.	No power. Emergency stop engaged. Overload protection activated. Motor overheating.	Check power connection and circuit breaker. Release emergency stop. Reduce load. Allow motor to cool down.
Electric Hoist: Hoist stops during operation.	Overload protection activated. Upper limit switch triggered. Power interruption.	Reduce load. Check if hook reached upper limit. Check power supply.
Both Hoists: Unusual noises during operation.	Lack of lubrication. Worn components. Misalignment.	Lubricate moving parts. Inspect for worn components and replace if necessary. Consult a professional if noise persists.

If you encounter problems not listed here or if solutions do not resolve the issue, contact customer support or a qualified technician.

8. SPECIFICATIONS

8.1 SPECSTAR Manual Hand Chain Block Hoist

PRODUCT SPECIFICATIONS:

SPECSTAR

PACKAGE DIMENSION: 10.2*7.1*5.9 Inch

PACKAGE WEIGHT: 21 Lbs

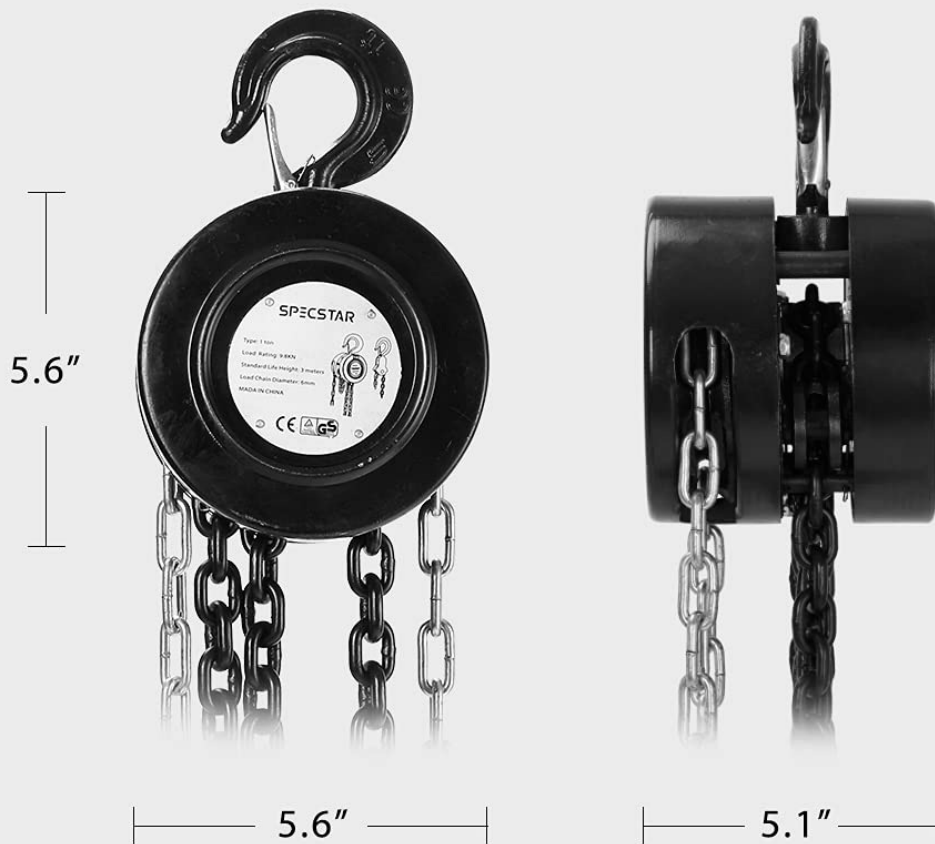


Figure 8.1: Dimensions of the SPECSTAR Manual Hand Chain Block Hoist, showing a width of 5.6 inches and a height of 5.6 inches for the main body, and a depth of 5.1 inches.

- **Capacity:** 1 Ton (2000 lbs)
- **Lift Height:** 10 Feet
- **Material:** 20Mn2 Alloy Steel (chains), Cold-rolled steel (cover)
- **Dimensions (Main Body):** Approximately 5.6" (W) x 5.6" (H) x 5.1" (D)
- **Weight:** Approximately 21 Lbs (Package Weight)
- **Safety Standards:** Meets ASME B30.16 Overhead Hoist Safety Standards

8.2 VIVOHOME Electric Hoist

- **Voltage:** 110V
- **Lift Capacity (Single Line):** 220 Lbs
- **Lift Capacity (Double Line with Pulley):** 440 Lbs
- **Cable Material:** Zinc-Plated Steel Wire
- **Features:** Emergency Stop Switch, Automatic Shut-off, Overheat Protection (ribbed design, large fan)
- **Fixing Ring Inside Dimension:** 44mm

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