YATOINTO 4W-BLUE

YATOINTO Rope Hoist Pulley System Instruction Manual

Model: 4W-BLUE

1. Introduction

This manual provides instructions for the safe and effective use of the YATOINTO Rope Hoist Pulley System, Model 4W-BLUE. This heavy-duty pulley block and tackle system is designed for lifting and moving heavy objects with an 8:1 lifting power ratio, featuring a 65ft diamond-braided polypropylene fiber rope and a 2200 lbs (4400 lbs breaking strength) load capacity. Please read this manual thoroughly before operation.

Safety Information

- Always inspect the pulley system, rope, and hooks for damage before each use. Do not use if any components are worn or damaged.
- Ensure the anchor point for the pulley system is secure and rated for the load being lifted.
- Do not exceed the maximum working load of 2200 lbs (1000 kg).
- Keep hands and clothing clear of moving parts during operation.
- Always maintain control of the rope. Do not allow the load to drop freely.
- Wear appropriate personal protective equipment (PPE), such as gloves and safety glasses.
- This system is not designed for overhead lifting where people are present underneath the load.

2. Product Components

The YATOINTO Rope Hoist Pulley System consists of the following main components:

- **Pulley Blocks:** Two blocks, each with multiple metal wheels and bearings, designed for smooth rope movement.
- **Rope:** 65 ft (19.8 m) of diamond-braided polypropylene fiber rope, known for its strength and lightweight properties.
- **Hooks:** Galvanized alloy steel hooks on each pulley block for secure attachment to anchor points and loads.
- **Housing:** Black-coated housing with an electrophoretic coating process for enhanced rust and scratch resistance.



Figure 2.1: Overview of the YATOINTO Rope Hoist Pulley System.

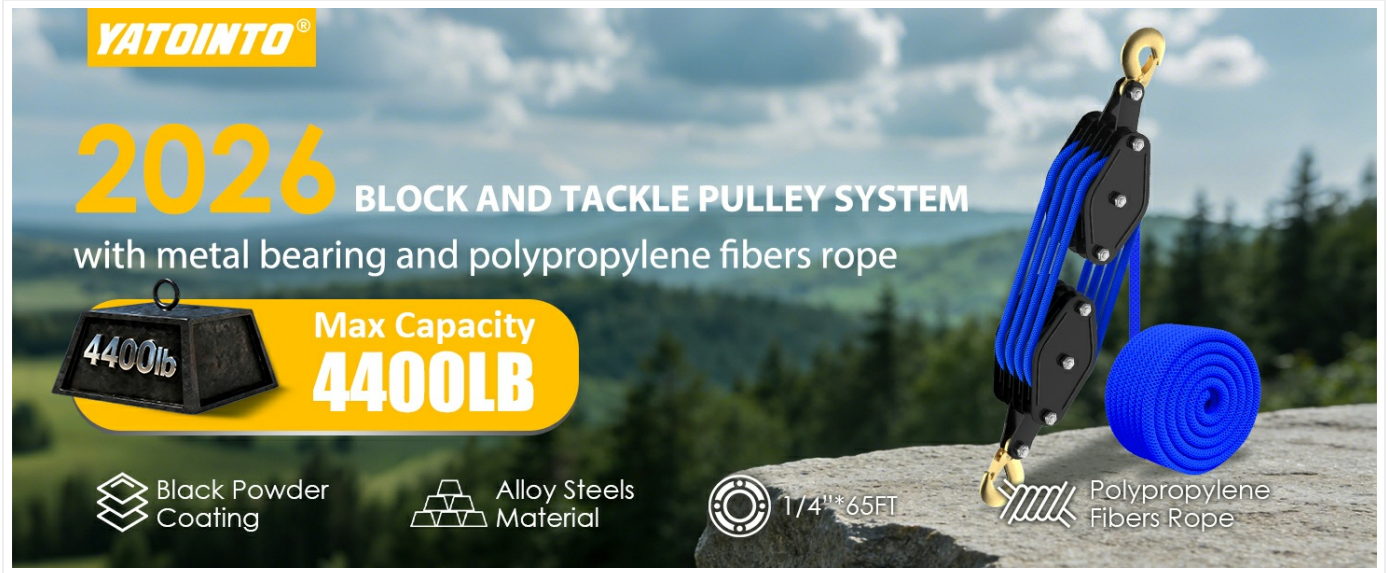


Figure 2.2: Key features of the pulley system components.

3. Specifications

Feature	Detail
Model Number	4W-BLUE
Max Working Load	2200 lbs (1000 kg)
Breaking Strength	4400 lbs (2000 kg)
Lifting Ratio	8:1
Rope Material	High-Density Polypropylene
Rope Diameter	1/4 inch
Rope Length	65 ft (19.8 m)
Housing Material	Anti-rust electrophoretic coating housing
Bearing Type	Metal Needle Bearings
Item Weight	3.65 pounds
Package Dimensions	8.46 x 5.2 x 4.37 inches



Figure 3.1: Product dimensions and key specifications.

4. Setup Instructions

Follow these steps to set up your YATOINTO Rope Hoist Pulley System:

1. **Identify Anchor Points:** Select a strong, stable overhead anchor point for the upper pulley block and a secure attachment point on the load for the lower pulley block. Ensure both points can safely support the intended load.
2. **Attach Upper Pulley:** Securely attach the hook of the upper pulley block to your chosen overhead anchor point. Verify that the hook is fully closed and locked, if applicable.
3. **Attach Lower Pulley:** Securely attach the hook of the lower pulley block to the load you intend to lift. Ensure the hook is fully closed and locked.
4. **Rope Management:** Ensure the 65ft rope is free of tangles and knots. The rope should be threaded through the pulley blocks as shown in the product diagrams to achieve the 8:1 mechanical advantage.
5. **Test Connection:** Before lifting the full load, apply a small amount of tension to the rope to ensure all connections

are secure and the system is stable.

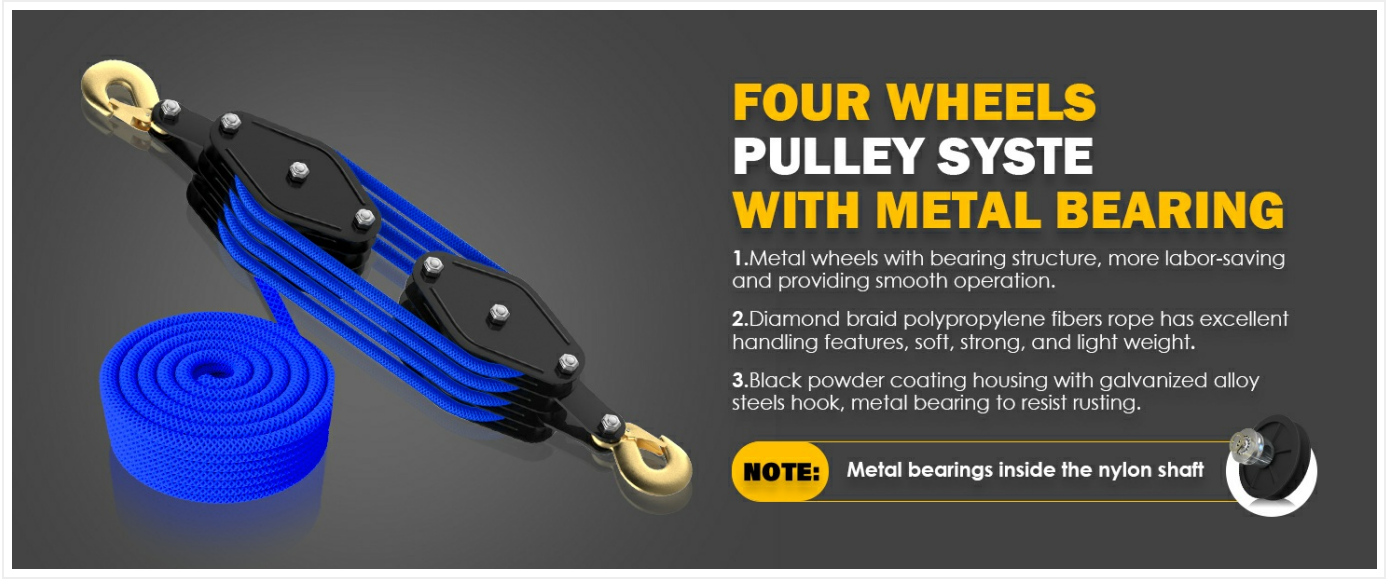


Figure 4.1: The rope and its specifications for safe setup.

5. Operating Instructions

Once the pulley system is securely set up, follow these steps for safe operation:

1. **Clear the Area:** Ensure the lifting path is clear of obstructions and personnel.
2. **Apply Lifting Force:** Pull the free end of the rope steadily and smoothly to lift the load. The 8:1 ratio significantly reduces the effort required.
3. **Control the Load:** Maintain a firm grip on the rope at all times. Avoid sudden jerks or releases.
4. **Secure the Load:** Once the load is at the desired height, secure the rope to prevent accidental lowering. This can be done by tying off the rope to a secure point or using a friction hitch if you are experienced with such knots.
5. **Lowering the Load:** To lower the load, slowly release the rope while maintaining control. Ensure a clear path below the load.
6. **Disassembly:** After use, carefully lower the load, unhook the pulley blocks, and coil the rope neatly for storage.



Figure 5.1: Examples of suitable applications for the pulley system.

6. Maintenance

Proper maintenance ensures the longevity and safe operation of your pulley system:

- **Regular Inspection:** Before and after each use, inspect the rope for fraying, cuts, or excessive wear. Check pulley blocks for cracks, bends, or loose components. Ensure hooks are not deformed and their safety latches (if present) operate correctly.
- **Cleaning:** Clean the rope and pulley blocks with mild soap and water if they become dirty. Rinse thoroughly and allow to air dry completely before storage.
- **Lubrication:** The metal needle bearings are designed for smooth operation. If any squeaking or stiffness occurs, a light application of a suitable lubricant to the bearing points may be beneficial.
- **Storage:** Store the pulley system in a dry, clean place, away from direct sunlight and extreme temperatures. Coil the rope neatly to prevent tangles.

7. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Difficulty pulling rope / Stiff operation	Rope tangled or twisted; Pulleys dirty or dry; Load too heavy.	Untangle rope; Clean and lubricate pulleys; Reduce load to within specifications.
Rope fraying or showing wear	Friction against sharp edges; Overloading; Age/wear.	Inspect anchor points and load for sharp edges; Ensure load is within limits; Replace rope if significantly worn.
Load not lifting smoothly	Uneven pulling force; Rope not properly seated in pulleys.	Apply steady, even force; Re-thread rope to ensure it sits correctly in all pulley grooves.

8. Customer Support

If you have any questions or require assistance with your YATOINTO Rope Hoist Pulley System, please contact our customer satisfaction team. Refer to your product packaging or the retailer's website for specific contact information.

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