Greteefor HLSS-100

Greteefor Heavy-Duty Double Block and Tackle Pulley System Instruction Manual

Model: HLSS-100 (1/2" x 100ft Rope)

Introduction | Safety Information | Product Overview | Setup | Operating Instructions | Maintenance | Troubleshooting | Specifications | Warranty | Support

1. Introduction

Thank you for choosing the Greteefor Heavy-Duty Double Block and Tackle Pulley System. This manual provides essential information for the safe and efficient use of your new equipment. This system is designed to provide a 4:1 mechanical advantage, significantly reducing the force required to lift heavy loads. It is suitable for various applications including lifting, rescue operations, attic or garage hoisting, logging, hunting, and vehicle or boat recovery.
Please read this manual thoroughly before operation and retain it for future reference.

2. Safety Information

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

- Always inspect all components (pulleys, rope, anchor points) for wear, damage, or defects before each use. Do not use if any component is compromised.
- Ensure the anchor point is structurally sound and capable of supporting the maximum load.
- Never exceed the rated working load limit of 7200 lbs (32 kN) for the pulleys and 7700 lbs (35 kN) for the rope.
- Keep hands and clothing clear of moving parts, especially during operation.
- Use appropriate personal protective equipment (PPE) such as gloves and safety glasses.
- Ensure the load is balanced and secured before lifting.
- Avoid sudden jerking motions when lifting or lowering. Operate smoothly and controllably.
- Do not use this system for climbing or human suspension. It is designed for lifting objects only.
- Store the pulley system and rope in a clean, dry place away from direct sunlight and chemicals when not in use.

3. Product Overview and Components

The Greteefor Double Block and Tackle Pulley System consists of the following main components:

- **Double Pulleys (x2):** Crafted from forged aluminum, CE-certified, designed for strength and smooth operation. Max rope diameter 15mm (3/5").
- **Polyester Braided Rope:** 1/2" (12mm) diameter, 100ft length, rated at 35 kN (7,700 lbs) breaking strength.



Image: Greteefor Double Pulley System showing two blue pulleys and the white and blue braided rope. The image highlights the maximum rope diameter of 15mm and the 32kN strong support of the pulleys.



Image: Close-up of the 1/2 inch (12mm) polyester braided rope, highlighting its 7700 lbs breaking strength, 48 core strands, smooth surface, and wear resistance. The rope length is 100 ft.



Image: Detailed dimensions of the double lifting pulley, showing its net weight of 14.8 Oz / 420 g, max rope diameter of 0.59 in/15 mm, sheave diameter of 2 in/50 mm, ball bearing material (Aluminum), and a 32kN (7200lbs) rating.

4. Setup Instructions

Setting up your Greteefor pulley system is designed to be quick and straightforward. Follow these steps for proper assembly:

4.1. Fixing the Rope to the Pulley

This section demonstrates how to securely attach the rope to one of the pulleys using a specific knot.

Your browser does not support the video tag.

Video: This video demonstrates how to securely fix the rope to the pulley. It shows a person tying a specific knot to ensure the rope is firmly attached and does not loosen. This is a preview video, approximately 7 seconds long, showing the knot-tying process.

1. **Step 1:** Wrap one end of the rope (Rope A) in a circle.
2. **Step 2:** Fold the other end of the rope (Rope B) in half and place it into the loop of Rope A.

3. **Step 3:** Fold Rope A in half and place it into the loop of Rope B.
4. **Step 4:** Pull the rope to press down on Rope A, tightening the knot.
5. **Step 5:** Adjust the rope shape and tighten the knot firmly.
6. **Step 6:** Pull the knot to ensure it is secure and does not loosen.

4.2. Linking the Pulleys

This section illustrates how to properly link the two pulleys with the rope to create the block and tackle system.

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Video: This video demonstrates the process of linking the two pulleys together with the rope. It shows how to thread the rope through each pulley to achieve the mechanical advantage. This is a preview video, approximately 7 seconds long, showing the pulley linking process.

1. **Step 1: Secure the Rope:** Firmly attach one end of the rope to the top pulley.
2. **Step 2: Guide the Rope:** Swing the movable pulley (bottom pulley) and pass the rope around its back.
3. **Step 3: Complete the Loop:** Guide the rope back towards the fixed pulley (top pulley), passing it around its front groove.
4. **Step 4: Ready to Lift:** Your pulley system is now ready to use. Attach the object you want to lift to the movable pulley.



Image: A four-panel image illustrating the setup steps for the Greteefor pulley system. Panel 1 shows securing the rope to the top pulley. Panel 2 shows guiding the rope around the back of the movable pulley. Panel 3 shows completing the loop by guiding the rope around the front of the fixed pulley. Panel 4 shows the fully assembled system ready for lifting.

5. Operating Instructions

Once the pulley system is correctly set up and the load is securely attached, you can begin operation.

- **Lifting:** Pull the free end of the rope steadily and smoothly to lift the attached load. The 4:1 mechanical advantage will significantly reduce the effort required.
- **Lowering:** Slowly release the free end of the rope, maintaining control over the load's descent. Do not let the rope slip freely.
- **Securing the Load:** When the load is at the desired height, secure the free end of the rope to a sturdy anchor point using a reliable knot to prevent accidental lowering.



Image: The Greteefor Double Pulley System in action, demonstrating its 4X power to lift a heavy object, specifically a motorcycle, with reduced effort. The image shows the rope threaded through the two pulleys, with one end attached to the motorcycle and the other being pulled by a person.

Your browser does not support the video tag.

Video: This video demonstrates the pulley system in action, showing a heavy object being lifted with ease. It highlights the mechanical advantage provided by the double block and tackle setup. This is a preview video, approximately 7 seconds long, showing the lifting process.

6. Maintenance

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

- **Cleaning:** Clean the pulleys and rope after each use, especially if exposed to dirt, mud, or saltwater. Use mild soap and water, then rinse thoroughly.
- **Drying:** Allow all components to air dry completely before storage. Do not use heat to dry the rope.
- **Inspection:** Regularly inspect the rope for fraying, cuts, excessive wear, or discoloration. Inspect pulleys for cracks,

deformation, or excessive wear on the sheaves. Check that the axles rotate freely.

- **Lubrication:** The pulley axles are designed for smooth operation. If any squeaking or stiffness occurs, a light lubricant can be applied to the axle points.
- **Storage:** Store the pulley system and rope in a cool, dry, and well-ventilated area, away from direct sunlight, chemicals, and sharp objects.

7. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Rope is difficult to pull.	Friction in pulleys, rope entanglement, overloaded system.	Check for rope twists or knots. Ensure pulleys are clean and rotating freely. Verify load is within capacity.
Pulleys are squeaking or stiff.	Lack of lubrication, dirt/debris in bearings.	Clean pulleys thoroughly. Apply a light lubricant to the axle points.
Rope appears frayed or damaged.	Wear and tear, improper use, sharp edges.	Immediately replace the rope. Inspect pulleys for any sharp edges that might be damaging the rope.
Load is not lifting evenly.	Unbalanced load, improper attachment.	Re-position the load to ensure even distribution. Verify all attachment points are secure and balanced.

8. Specifications

Feature	Detail
Model Number	HLSS-100
Rope Length	100 ft
Rope Diameter	1/2" (12mm)
Rope Material	Polyester Braided
Rope Breaking Strength	7700 LB (35 kN)
Pulley System Type	Double Block and Tackle
Mechanical Advantage	4:1
Pulley Material	Forged Aluminum
Pulley Max Load (Working)	7200 lbs (32 kN)
Max Rope Diameter for Pulleys	15mm (3/5")
Item Weight	3.98 kg
Manufacturer	Greteefor

9. Warranty Information

Greteefor products are manufactured to high-quality standards. For specific warranty details, please refer to the product packaging or contact our customer support team. Keep your purchase receipt as proof of purchase for any warranty claims.

10. Customer Support

If you have any questions, concerns, or require assistance with your Greteefor Heavy-Duty Double Block and Tackle Pulley System, please do not hesitate to contact our support team.
Email: Support@greteefor.com
Our support team is available to assist you.

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