

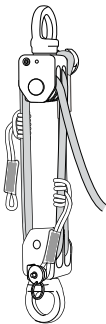


If you have any doubts or difficulties in understanding this manual, please contact XINDA.

400-8856993

No.19 Xinchao Road, Wangjiang Community, Baiyun Street,
Dongyang City, Jinhua City, Zhejiang Province, China

Ver.20260427



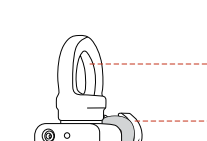
4:1省力滑轮组使用说明书

PULLEY MANUAL

Safety precautions

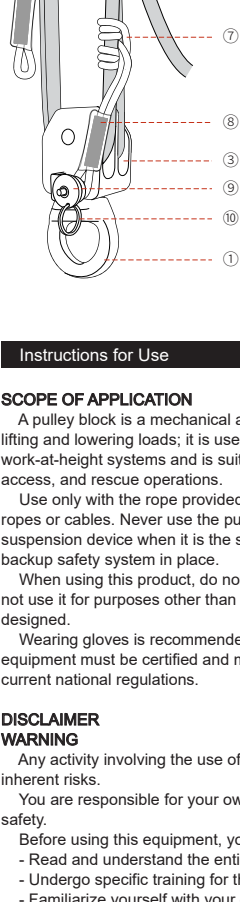
This manual explains how to use the equipment and only appropriate techniques and uses are described. Warning signs tell the potential risks but they don't cover everything. Please read every each warning carefully and use your equipment properly. Any misuse might lead to danger. If you are in doubt, please contact XINDA.

Applicable rope diameter



6 ≤ φ ≤ 8mm

Part Name



1. Rotating attachment
2. Rope end attachment
3. Pulley body;
4. Pulley;
5. Rope end;
6. 8mm rope;
7. 6mm lanyard;
8. Stitching;
9. Pin;
10. Safety lanyard

Instructions for Use

SCOPE OF APPLICATION

A pulley block is a mechanical advantage device used for lifting and lowering loads; it is used in fall protection or work-at-height systems and is suitable for work at height, access, and rescue operations.

Use only with the rope provided. Never use with steel wire ropes or cables. Never use the pulley block as a human suspension device when it is the sole support; always have a backup safety system in place.

When using this product, do not exceed its load limits, and do not use it for purposes other than those for which it was designed.

Wearing gloves is recommended. All personal protective equipment must be certified and marked in accordance with current national regulations.

DISCLAIMER

WARNING

Any activity involving the use of this equipment carries inherent risks.

You are responsible for your own actions, decisions, and safety.

Before using this equipment, you must:

- Read and understand the entire user manual;
- Undergo specific training for the use of this equipment;
- Familiarize yourself with your equipment, understand its performance, and be aware of its limitations;
- Understand and accept the risks involved.

Failure to heed any of the above warnings may result in serious injury or death.

This product must only be used by competent and responsible individuals, or under the direct visual supervision of such individuals.

You are responsible for your own actions, decisions, and safety, and must accept the consequences. If you are unable to assume this responsibility or fully understand these instructions, do not use this equipment.

KEY INSPECTION POINTS

Before each use:

- Ensure that the side plates and the area around the connection holes are free of marks, deformation, dents, damage, or corrosion.

- Check that the pulley moves freely.

- Ensure there are no foreign objects inside the mechanical structure.

- Visually inspect the condition of the entire rope sheath.

Ensure there are no cuts, burns, frayed strands, frayed areas, or traces of chemicals.

- Perform a tactile inspection of the entire rope core. This will help identify any damaged sections (such as hard lumps or uneven areas).

- Inspect the condition of the sewn ends: check for cuts, damage, or wear caused by exposure to high temperatures or contact with chemicals during use. Pay particular attention to any severed or damaged stitching.

Before each use:

- It is essential to regularly inspect the product's condition and its connections to other equipment within the system.

- Ensure that all equipment within the system is properly connected. Be alert for foreign objects (such as mud, snow, ice, or debris) that could interfere with cam operation. Warning: Braking effectiveness may vary depending on the condition of the rope (e.g., degree of wear, moisture, freezing, etc.).

- Ensure that the rope is not tangled between the pulleys.

MAIN MATERIALS:

Pulleys: Aluminum alloy; Rollers: 6061 aluminum alloy

Rope: Nylon.

EQUIPMENT:

This pulley block is a mechanical force-reducing system consisting of two rotating double pulleys and a rope provided by the manufacturer.

ROPE INSTALLATION:

① Remove the pin;

② Unscrew the screw and open the black protective cover;

③ Thread the sewn end of the rope through the rope attachment point to secure it;

④ Replace the black protective cover and tighten the screw;

⑤ Insert the pin;

⑥ Position the attachment points of the two double pulleys facing outward, aligning the right-angle side of one pulley with the rounded edge of the other, and thread the ropes through in sequence, ensuring the ropes do not cross;

⑦ Secure one end, then adjust the system length and rope tension;

⑧ Tie a Prusik knot on the rope near the pin; [To secure the knot: simply thread the end of the knot through the removable pin]

Extension system: First, release the tension on the rope, then slowly and steadily pull the pulley downward.

FUNCTIONAL TESTING

Please check that the equipment is functioning properly; always use a backup safety system.

Secure one end of the pulley block, then gradually apply tension to it; the rope will slide in one direction through the pulley, while the locking mechanism will engage in the other direction, immediately bringing the rope to a stop and preventing it from slipping backward.

Compatibility

Check that this product is compatible with other equipment in your system and can be used correctly and appropriately.

- Connect the pulley using a carabiner with a locking mechanism; the locking mechanism must be engaged in all of the main attachment points on the pulley's side plates simultaneously.

- Single-axis double pulleys must operate with both wheels engaged at the same time; using only a single wheel will cause uneven stress distribution, leading to wear on the side plates.

- Do not subject the pulley to other lever forces.

- Select the appropriate rope diameter; incorrect use will cause rapid wear on the pulley. Note: Ropes with a small diameter may become caught between the pulley and the side plates.

- Ensure the rope remains taut at all times; dynamic impacts must be avoided.

- Be aware of sliding speed; excessive speed may result in severe collisions.

- Be aware that thin, flexible objects, such as hair or twigs, may become entangled in the pulley.

Warning: Dynamic impacts and high-ratio pulley systems can generate significant tensile forces on anchor points or the system. Check the strength of anchor points and the system to avoid exceeding their working load limits.

- Any equipment connected to the pulley (anchor points, ropes, carabiners, etc.) must comply with applicable standards and regulations. If you are unsure about the requirements for any equipment, please contact us.

ADDITIONAL INFORMATION

This product complies with the EU Regulation 2016/425 on personal protective equipment.

- You must establish the necessary rescue procedures in advance so that they can be implemented quickly in the event of an emergency.

- The system's anchor points should ideally be located above the user and must comply with the EN 795 standard (minimum strength of 12 kN).

- In a fall arrest system, you must check before each use that there is sufficient clearance below the user to prevent impact with the ground or obstacles in the event of a fall.

- In a fall arrest system, the length of the lanyard affects the fall distance.

- Ensure anchor points are correctly positioned to reduce the risk of a fall and minimize the fall distance.

- The fall arrest harness is the only piece of equipment in the fall arrest system designed to support the body.

- When multiple pieces of equipment are used in combination, the safety function of one piece may compromise the safety function of another, potentially leading to sudden hazardous situations.

Warning: Protect your equipment from direct friction with rough surfaces or sharp objects.

- The user must be physically fit for work at heights. Warning: Unintentionally hanging from the safety harness may result in serious physical injury or even death.

- When using any equipment in conjunction with this product, strictly follow the instructions for use of that equipment.

SERVICE LIFE, PERIODIC INSPECTIONS, AND EQUIPMENT RETIREMENT

- Metal equipment stored under proper conditions has no storage time limit. If the metal product contains plastic components, the storage life of these plastic components is 10 years; for rubber components, the storage life is 3 years.

- The product may be damaged during its first use due to improper operation, accidents, or compatibility issues between components.

- The actual service life of the product depends on the environment in which the equipment is used, the frequency of use, and the severity of environmental conditions (e.g., marine environments, extreme temperatures, sandy environments, etc.). Whether the product has reached the end of its service life depends on equipment inspections. In addition to inspections before, during, and after each use, PPE equipment must undergo a comprehensive inspection at least every 12 months; if the equipment is used frequently, the inspection frequency should be increased.

YOU SHOULD DISPOSE OF YOUR PRODUCT WHEN ANY OF THE FOLLOWING SITUATIONS OCCUR:

- The equipment's usage history is unknown;

- If you have concerns about the product's performance, strength, or safety;

- If the product fails a PPE inspection;

- If the product is malfunctioning;

- If the product no longer complies with updated regulations or standards;

- If the product has been subjected to a high-load impact or a severe fall.

HOW TO SCRAP YOUR EQUIPMENT:

Mark the product with a permanent label or intentionally damage it—such as by drilling holes or cutting it—to render it unusable; or return it to the manufacturer for disposal.

MAINTENANCE

Proper maintenance and storage can extend the service life of the equipment and ensure user safety.

- Handling Wear: If the pulley surface has come into contact with hard, sharp metal or has been slightly worn, resulting in scratches or a rough surface, use sandpaper to smooth the surface.

- Cleaning: Clean the pulley's surface or moving parts with clean water (20°C) and a soft-bristled brush. Do not use high-pressure water to clean the equipment, and do not use any industrial cleaning agents. After cleaning, rinse the equipment with clean water and allow it to air dry naturally; do not expose the equipment to heat sources for drying.

- Prolonged use may reduce the lubrication of the pulley's rotating shaft. Apply lubricating oil or grease to the rotating shaft to maintain lubrication.

Warning: Any unauthorized modification, replacement of parts, or repair of the product is strictly prohibited. Repairs may only be performed at Xinda's factory.

3-YEAR WARRANTY

We offer a 3-year warranty for defects in materials or workmanship. The warranty does not cover: wear and tear, deformation, oxidation, damage resulting from unauthorized modifications or repairs, improper operation, improper maintenance or storage, or damage caused by using the product for purposes other than those for which it was designed.