

合页机械抓结二级滑轮

THE MATCHING PULLEY

Safety precautions

Warning

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.



Risk of severe injury or death



Risk of accident or harm

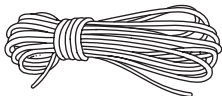
OK!

Appropriate way of use



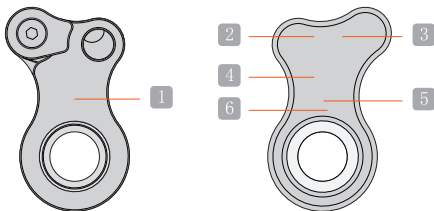
Incorrect way of use

Compatible rope diameter



$$10 \leq \phi \leq 12 \text{mm}$$

Marking



1.The name of the manufacturer or the brand;

3.Logo to remind the user to read the instructions;

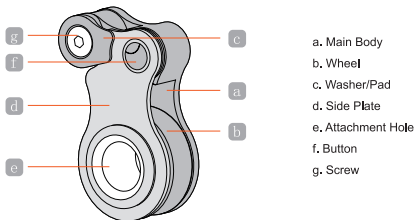
5.Production Date;

2.Applicable rope diameter;

4.breaking load;

6.Place of production.

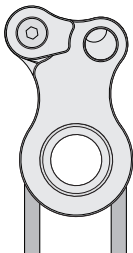
Nomenclature



ISO9001 Standards Complied



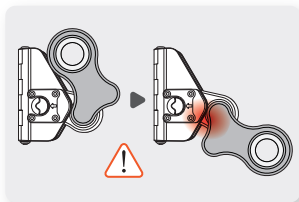
Load

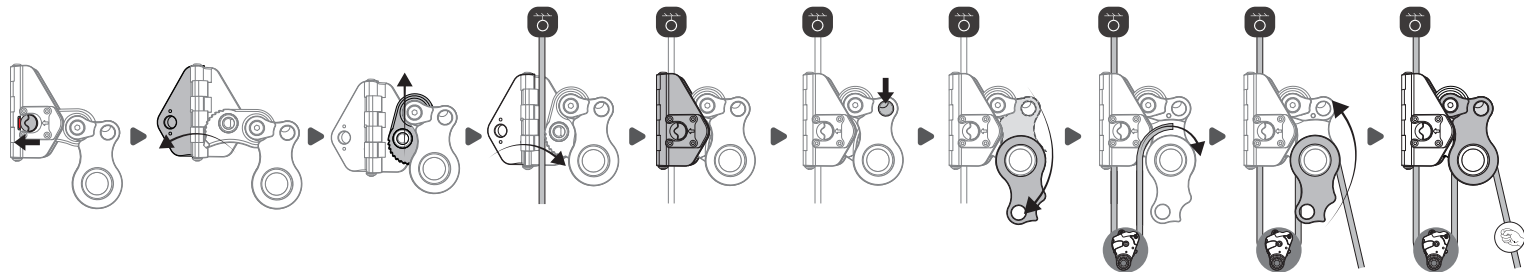
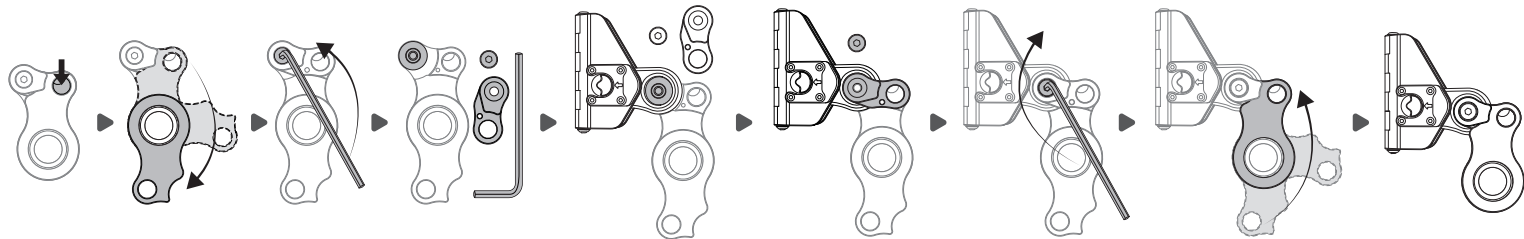


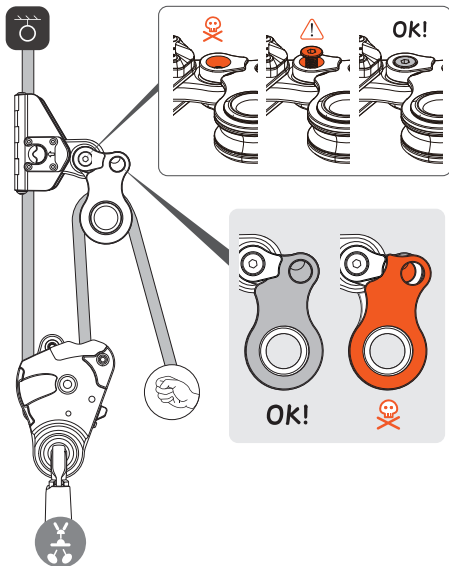
Pulley Load:
 $4\text{kN} + 4\text{kN} = 8\text{kN}$



Notes







FIELD OF APPLICATION

Those pulleys are used as PPE which is designed for climbing, caving, canyoning and increasing the efficiency of the hauling system.

THE PULLEY MUST BE USED TOGETHER WITH A PRUSIK KNOT AND IS NOT SUITABLE FOR STANDALONE USE!

The pulleys are used with ropes and must not be used beyond its limits, nor be used for any purpose other than for which it is designed.

RESPONSIBILITY

WARNING

Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions, decisions and safety.

Before using this equipment, you must:

- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

Failure to heed any of these warnings may result in severe injury or death.

This product must only be used by competent and responsible persons, or those placed under the direct and visual control of a competent and responsible person.

You are responsible for your actions, your decisions and your safety and you assume the consequences of same. If you are not able, or not in a position to assume this responsibility, or if you do not fully understand the Instructions for Use, do not use this equipment.

The user must consider rescue options in the event of difficulties encountered while using this product.

SAFETY CHECK

Before each use:

Check if the product is free of cracks, deformation and corrosion etc. Verify that the pulley runs well and check the space between the side plates and wheels. Check if the wheel, side plates and attachment holes wear.

During each use:

Check if the pulley is tensioned normally, the carabiner is loaded from the main axle, the rope is pulled straight. Make sure that no foreign object comes into contact with the pulley.

NOTE: SAND, WATER OR OTHER STAIN WILL LOWER THE EFFICIENCY OR EVEN STOP THE PULLEY FROM ROTATING.

Main materials: Aluminum, steel

LOAD

The pulley will break at its minimum breaking strength (MBS), a resultant force generated from the ropes on the two ends. Efficiency: It means the efficiency when the rope turns 180° within the pulley's work load limit (WLL). Pulley efficiency in practice can vary depending on the angle of the rope, load and friction. Overly great load will break the ball bearing, increase the friction or stop the wheel.

USE AND COMPATIBILITY

Verify that the product is used properly with other equipment in the system.

THE PULLEY MUST BE USED TOGETHER WITH A PRUSIK KNOT AND IS NOT SUITABLE FOR STANDALONE USE!

- No other leverage on the pulley. **NOTE: ROPES WITH SMALL DIAMETER (Q < 4MM) MAY GET STUCK BETWEEN THE WHEEL AND SIDE PLATE.**

- Pay attention to the tension, angle and load of the traverse system. Overly great load will fail the system.

- Verify that no thin and soft objects are stuck inside the pulley, such as hair or twigs.

WARNING: DYNAMIC IMPACT AND HIGHLY PROPORTIONED PULLEY SYSTEM WILL GENERATE VERY HIGH LOADING ON THE ANCHORS OR THE SYSTEM. PLEASE CHECK THE ANCHORS AND SYSTEM STRENGTH AS TO AVOID ANY OVERLOAD.

- Verify that all the equipment working with the pulley (anchors, ropes and carabiners etc.) meet necessary standards and regulations. If you have any doubts, please contact Xinda.

ADDITIONAL SAFETY INFORMATION:

- The user's health and body condition must be fit for working at heights. Unconscious suspension at height can lead to severe injury or even death.
 - In the industrial environment, the ascender must be used with a fall arrest system when it is applied to a rope access system. It is essential to check the required clearance below the user in order to avoid any impact with the ground or with an obstacle in case of a fall.
 - In the industrial use, the breaking load of a single anchor point must be 12kN at least or meet the standards of EN 795.
 - In a safety system, the weakest component determines the strength of the whole system.
 - Avoid that the rope and other braided fabric rub against sharp edges or rough surfaces.
 - A risk assessment is needed and protection measures should be taken.
- before use.
- Working alone is not allowed and you should have a rescue plan and the means to implement it in case of encountered difficulties.

LIFE SPAN, REGULAR INSPECTION AND RETIREMENT:

- No storage limit for the metal in the proper environment; the plastic parts of the equipment can be stored up to 10 years.
- The equipment may need to be retired only after one use because of misuse, accidents or compatibility problems.
- The practical lifespan depends on the type and intensity of usage, harsh environment (marine environment, extreme temperatures, sand and mud etc). Equipment check has great effect on the lifespan. The comprehensive inspection is required once every 12 months minimum, apart from normal check before use, during use and after use. The greater the intensity of use, the more checks are needed.

When to retire your equipment:

- You don't know its usage history; You doubt about its performance, strength or safety;
- It fails to pass PPE inspection; Malfunctions are found;
- It fails to meet updated regulations or standards;
- It has been subjected to a major fall or load;

How to retire your equipment:

Mark it with irremovable labels or destroy it as to prevent further use. For instance drill or cut it. Or return it to the manufacturer for disposal.

RESPONSIBILITIES

- You are responsible for your actions and decisions. If you can not take the responsibilities, don't use it.
- Only qualified person or the person under supervision of a competent and experienced party can use this product.
- You must take training course including theory and practice, basics for working at height, proper ways to use and relevant safety system knowledge before use.
- When it is resold to other countries or regions, the instruction manual must be made in local languages.
- XINDA is not responsible for any direct or indirect non-quality induced consequences.

MAINTENANCE

Proper maintenance and storage can extend the lifespan of the equipment and also guarantee the user's safety.

- Cleaning: Use clean water (20°C) and soft brush to rinse the external and internal of the product. No high-pressure water. No industrial-grade cleansers. Rinse afterwards and dry it naturally. No heat drying.

- Long time use of the equipment will reduce the lubrication of the parts such as pivots. Lubricating oil or grease is suggested to be in use.

WARNING: NO MODIFICATION, ALTERNATION OR IMPROPER MAINTENANCE IS ALLOWED. LTCAN ONLY BE REPAIRED IN THE XINDA FACTORY.

LIMITED WARRANTY:

XINDA provides a 3-year warranty against any material or manufacturing defects. Exclusions: normal wear and tear, deformation, oxidation, modifications or alterations, misuses, incorrect storage, poor maintenance, uses for which this product is not designed.