

INSPECTION, POINTS TO VERIFY

Inspection

User safety depends on equipment integrity. Equipment should be thoroughly inspected prior to being placed into service and before and after each use. Inspect the equipment according to your department's policy for inspecting life safety equipment. In addition, CMC recommends a detailed inspection by a competent person at least once every 12 months depending on current regulations and conditions of use. Record the date, inspector name, and inspection results in the equipment log as well as any other relevant information to track the usage history.

Before and after each use, the user should:

- Confirm the device is functioning properly.
- Verify the presence and legibility of the product markings.
- Verify there is no excessive wear or indications of damage such as deformation, corrosion, sharp edges, cracks, or burrs. Minor nicks or sharp spots may be smoothed with emery cloth or similar.
- Prolonged use with carabiners or other hardware can create dangerous wear and sharp edges that will decrease the safety of the device when used with textiles.
- Check for the presence of dirt or foreign objects that can affect or prevent normal operation such as grit, sand, rocks, and debris.
- Verify that the swivel top rotates normally and the swivel axle bolt has not loosened.
- Verify that the main axle bolt has not loosened.
- Verify smooth rotation of the sheaves and security of the main axle bolt.
- Verify rope cover is tight and the rope end is secure.
- Always check the quick release Prusik pin – it has small balls that must extend to lock it in place.
- Verify spring pins are present and in place.

During each use, the user should:

- Confirm all pieces of equipment in the system are correctly positioned with respect to each other.
- Monitor the condition of the device and its connections to other equipment in the system.
- Do not allow anything to interfere with the operation of the device or its components.
- Avoid placing the device and attached connectors against an edge or sharp corner.
- Reduce the risk of shock load by minimizing slack in the system.
- Ensure swivel axle bolt has not loosened.

Retirement

CMC does not specify an expiration date for hardware because the service life depends greatly on how and where it is used. The type of use, intensity of use, and environment of use are all factors in determining the serviceability of the equipment. A single exceptional event can be cause for retirement after only one use, such as exposure to sharp edges, extreme temperatures, chemicals, or harsh environments.

A device must be withdrawn from service when:

- It fails to pass inspection.
- Sheave or swivel does not rotate smoothly.
- It fails to function properly.
- It has illegible product markings.
- It shows signs of damage or excessive wear.
- It has been subjected to shock loads, falls, or abnormal use.
- It has been exposed to harsh chemical reagents or extreme environments.
- It has an unknown usage history.
- You have any doubt as to its condition or reliability.
- When it becomes obsolete due to changes in legislation, standards, technique, or incompatibility with other equipment.

Withdrawn equipment shall not be used again until confirmed in writing by a competent person that it is acceptable to do so. If the product shall be retired, remove it from service and mark it accordingly or destroy it to prevent further use.

PRODUCT USE

All pulleys are designed to specific performance criteria. Be aware of load limitations, manner used, and proper technique. Do not overload a pulley. Pulleys can fail under improper use conditions such as loading with a side plate open or applying a bending, shear, or torsional load to the pulley. If you are not sure of proper application or technique, seek proper training in pulley use and technical rope work. See below for additional product-specific guidance.

AZTEK pulleys are designed to be used in pairs in a pre-rigged mechanical advantage system using 8mm cord. The end of the cord can be secured around the "horn" of one of the pulleys and secured with the supplied end cap. A Prusik hitch can be used for progress capture and can be secured directly to the pulley via the plunger pin. Both the horn and the plunger pin have a minimum breaking strength of 12 kN. The AZTEK pulleys can be rigged in either a 5:1 or a 4:1 mechanical advantage configuration. At any given time only one Prusik hitch is used. When not in use the Prusik cord should be loosened and allowed to float on the cord.

Examples of Use:

(A) Prusik on Bottom Pulley: The bottom Prusik is active and the top Prusik is not attached. Prusiks are color-coded to indicate which pulley they are used with (tactical black gear is lettered). Do not use a Prusik with the mismatched color pulley. When the Prusik is holding the load, only 3 sides of the rope are sharing the load and therefore the Prusik is holding 33% of the load.

(B) Prusik on Bottom Pulley - opposite side: This is the same setup as illustration (A) viewed from the opposite side. The bottom Prusik is pinned to the bottom pulley. NOTE: Extra pins are available to keep as a spare, but don't pin both Prusiks at the same time or you will be stuck.

(C) Prusik on Top Pulley: The top Prusik is pinned and the bottom Prusik is not attached. When the Prusik is holding the load, 4 sides of the rope are sharing the load and therefore the Prusik is holding 25% of the load.

Warnings

- When using a Prusik hitch in conjunction with a pulley, care must be taken to prevent the Prusik knot from being pulled in between the side plates of the pulley. Prusiks must be properly tended.
- Make sure the quick release Prusik pin is locked in place. Verify the small balls extend. Insert the pin fully and then make sure it won't pull out.
- Do not use a double sheave pulley with only one sheave loaded.
- To prevent roll-out, use only locking carabiners. Do not allow ropes or objects to rub or twist the sleeve because this could unlock it. Vibration can also unlock a sleeve. Sleeves must be locked to achieve full strength.
- Check that the sheave is in good condition and freely rotates. Confirm security of the main axle bolt.
- Do not let an object in between the sideplates and never rig your system so that the pulley is forced against something that could break or open the sideplate.
- Verify that the swivel top rotates normally, and the swivel axle bolt has not loosened.
- Verify spring pin or set screws are in place and have not been removed. Confirm swivel top does not move up or down.
- Pulleys must be free to align with the load. Any restraint is dangerous. Do not allow any bending force on the pulley or it may break or break the connectors.
- Keep snagging hazards away from device. Beware that rope traveling through this device can draw in hair, fingers, clothing, etc., causing injury and jamming the device.
- Moisture, ice, salt, sand, snow, chemicals, and other factors can prevent proper operation or can greatly accelerate wear.
- Swivels are for orientation only. Not for high speed or multi-rotations. Verify swivel is rotating freely.
- Do not use with wire rope or steel cable.
- Slack must be kept out of the system to prevent high impact falls.
- Use in Fall Arrest Systems
- The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (12kN minimum strength).
- In a fall arrest system, it is essential to check the required clearance below the user before each use, to avoid hitting the ground or an obstacle in the event of a fall.
- Make sure that the anchor point is correctly positioned to limit the risk and the length of a fall.
- A full body harness is the only device allowable for supporting the body in a fall arrest system.

MAINTENANCE AND CARE

Carrying, Storage and Transport

During all use, carrying, storage and transport, protect the equipment from sharp edges, flame, extreme temperatures, rust, strong chemicals, and mechanical damage. Clean equipment using clean fresh water to remove any dust or debris. Do not use a pressure washer for cleaning. If the equipment gets wet, remove excess moisture with a non-abrasive cloth and allow to air dry at temperatures between 10° C and 30° C. Do not use an automatic dyer, tumble dyer, or direct heat. During storage and transport, protect the equipment from heat, direct sunlight, moisture, chemicals, oils, and external loads or impacts. Do not store where the equipment may be exposed to moist air.

Warranty and Repairs

If your CMC product has a defect due to workmanship or materials, please contact CMC Customer Support at info@cmcpro.com for warranty information and service. CMC's warranty does not cover damages caused by improper care, improper use, alterations and modifica-

tions, accidental damage or the natural breakdown of material over extended use and time.

The equipment should not be modified in any way or altered to allow attachment of additional parts without the manufacturer's written recommendation. If original components are modified or removed from the product, its safety aspects may be restricted. All repair work shall be performed by the manufacturer. All other work or modifications void the warranty and releases CMC and Rock Exotica from all liability and responsibility.

EQUIPMENT RECORDS

Record the results of your detailed periodic inspection using the sample table provided in this section. Relevant information includes: type, model, manufacturer contact info, serial number or individual number, dates: manufacture, purchase, first use, next periodic inspection; problems, comments, inspector's name and signature. If equipment fails inspection, it should be withdrawn from service and marked accordingly or destroyed to prevent further use.

Declaration of Conformity

CMC Rescue, Inc. declares that this article is in conformity with the essential requirements and the relevant provisions of EU regulations. The Declaration of Conformity can be downloaded at the following website: cmcpro.com



AZTEK DOUBLE PULLEY



⚠ WARNINGS

Activities involving the use of this device are potentially dangerous. You are responsible for your own actions and decisions. Before using this device, you must:

- Read and understand these user instructions, labels, and warnings.
- Familiarize yourself with its capabilities and limitations.
- Obtain specific training in its proper use.
- Understand and accept the risks involved.

FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.



Find the latest version and translations of this manual at cmcpro.com



MEETS THE PULLEY REQUIREMENTS OF NFPA 1983, INCORPORATED IN THE 2022 EDITION OF NFPA 2500.

- 30032X-02 PULLEY, AZTEK DOUBLE, CMC, TECHNICAL USE (T) MBS 36 KN (8,093 LBF)



0598

EN12278:2007



0120

Scan for the latest version and translations of this manual.



CMC Rescue, Inc.


6740 Cortona Drive

Goleta, CA 93117, USA

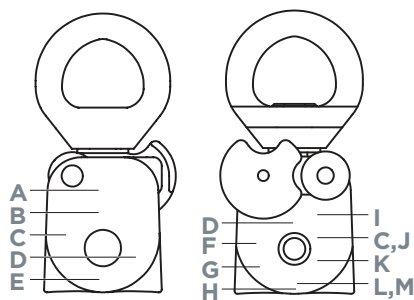
805-562-9120 / 800-235-5741
cmcpro.com

ISO 9001 Certified

© CMC Rescue, Inc. All rights reserved

CMC and  are registered marks of CMC Rescue Inc.
CMC Control No.: 30032X-02IN01_Rev00

Traceability & Markings



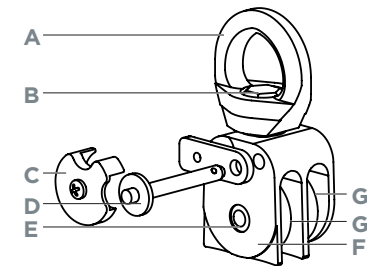
- A** Manufacturer of Record
CMC
- B** Product Name
AZTEK
- C** Mark and Information of NFPA certification body:

Standard Markings:
NFPA 2500 (1983), 2022 ED.
- D** Notified Body Controlling Production of this Personal Protective Equipment to EN12278:2007:

SGS Fimko Ltd,
Notified Body 0598
Takomotie 8
00380 Helsinki, Finland
Tel. +358.9.696361
- E** Mark and Information of the approved body in charge of certification:

SGS United Kingdom Limited.
Rossmore Business Park, Ellesmere Port,
Cheshire CH65 3EN.
- F** Rope Load Diagram
- G** Carefully Read the Instructions for Use:
- H** Country of Manufacture
- I** Becket MBS
- J** Minimum Breaking Strength (MBS)
- K** Manufacturing Site
- L** Model Identification
- M** Individual Number

Nomenclature

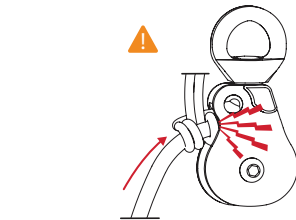
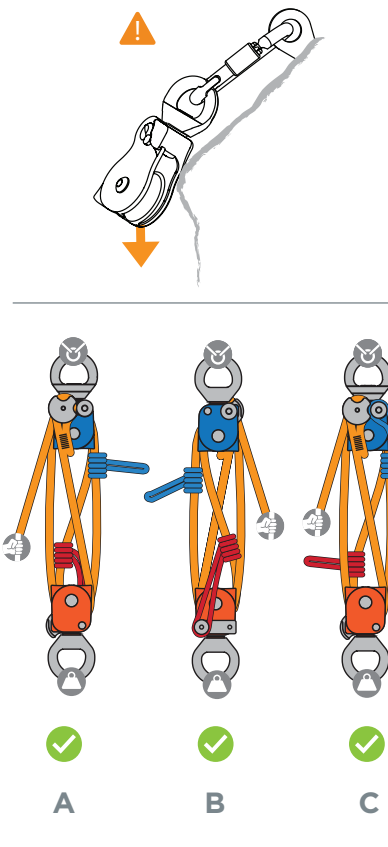


- A** Swivel
- B** Swivel Axle Bolt
- C** Rope Cover to Secure End of Rope
- D** Pin to Attach Prusik to Desired Pulley
- E** Main Axle Bolt
- F** Chassis
- G** Sheaves

Legend

- Imminent risk of serious injury or death.
- Appropriate function or use.
- Imminent risk of accident or injury.
- Equipment incompatibility.

Product Use



Periodic Inspection Checklist

Check Date	Notes/ Results	Inspector Name & Signature	Date of Next Check

Equipment Record Table

Product Name, Model	
Manufacturer	CMC RESCUE, INC 6740 Cortona Drive Goleta, CA 93117 USA
Manufacturer Contact Information	Tel: 800-235-5741 / 805-562-9120 Fax: 800-235-8951 / 805-562-9870 Email: info@cmcpro.com Web: cmcpro.com
User (company, name, and address)	
Product Serial #	
Year of Manufacture	
Purchase Date	
Date of First Use	
Expiration Date	

Manufacturer of Record CMC Rescue, Inc. 6740 Cortona Drive Goleta, CA 93117, USA Manufacturing Site Rock Exotica LLC POB 160470 Freepoint Center, E-16 Clearfield, UT 84016, USA Notified Body conducting the EU type examination: SGS Fimko Oy – Notified Body 0598 Takomotie 8 Helsinki, 00380 Finland Notified body controlling the manufacturing of this PPE: SGS Fimko Oy – Notified Body 0598 Takomotie 8 Helsinki, 00380, Finland	Approved body controlling the manufacturing of this PPE: SGS United Kingdom Limited – Notified Body 0120 Rossmore Business Park, Ellesmere Port, Cheshire CH65 3EN *Applicable Products Only Declaration of Conformity CMC Rescue, Inc. declares that this article is in conformity with the essential requirements and the relevant provisions of EU regulations. The Declaration of Conformity can be downloaded at the following website: cmcpro.com
--	---

FIELD OF APPLICATION

The AZTEK Double Pulleys are designed and manufactured as personal protective equipment (PPE) used for fall protection during work and rescue. They are in accordance with EN12278:2007, and Regulation (EU) 2016/425. This product is also classified to NFPA 2500 (1983), 2022 Edition as Load Bearing Pulleys. This product shall not be used outside of its limitations, or for any purpose other than that for which they are intended.

Responsibility

These instructions explain the correct use of your equipment. The warning symbols inform you of some potential dangers related to the use of your equipment, but it is impossible to describe them all. You are responsible for heeding each warning and using your equipment correctly. Any misuse of this equipment will create additional dangers. Contact CMC if you have any questions or difficulty understanding these instructions. Check cmcpro.com for updates and additional information.

Before using this equipment, you must have a rescue plan in place to deal with any emergencies that could arise and be medically fit and capable of controlling your own security in emergency situations. Motionless suspension in a harness may cause severe injury or death. Check equipment before and after use.

User Information

User Information shall be provided to the user of the product. NFPA 1983, incorporated into the 2022 edition of NFPA 2500 recommends separating the User Information from the equipment and retaining the information in a permanent record. The standard also recommends making a copy of the User Information to keep with the equipment and that the information should be referred to before and after each use.

Additional information regarding life safety equipment can be found in NFPA 1550, and NFPA 1858 and NFPA 1983, incorporated in the 2022 edition of NFPA 2500. This document must be provided to the user by the retailer in the respective country's language and must be kept with the equipment while it is in use. Observe relevant national regulations.

TRACEABILITY AND MARKINGS

See image.

NOMENCLATURE

See image.

COMPATIBILITY

Verify that this product is compatible with the other equipment in the system and that its intended applications meet current standards. Equipment used with this product must meet regulatory requirements in your jurisdiction and/or country, and provide safe, functional interaction.

All connections should be evaluated for risk based on the loads, redundancy, and rigging practices involved. Always verify that connectors are properly positioned before loading them. Equipment used with this product must meet current standards in your country. When combining this product with other equipment and/or using this product in a rescue/fall arrest system, users must understand the instructions of all components prior to use and comply with them to ensure that safety aspects of these items do not interfere with each other.

Danger may arise and functionality may be compromised by combining other equipment with this product. User assumes all responsibility for non-standard use or added components. Contact CMC if you are uncertain about the compatibility of your equipment.