

**Aztek Pulley**  
**P41**  
**Ball Bearing**

**CE 0120**  
**EN12278 EN795**  
Manufactured in **USA** using domestic & foreign materials

**WARNING!** 

**For expert use only!**

- These activities are inherently dangerous and carry a significant risk of injury or death that cannot be eliminated.

- It is the user's responsibility to obtain specific training and to use it safely. These instructions DO NOT tell you everything you need to know.

- Do not use unless you can and will understand and assume all risks and responsibilities for all damage/injury/death that may result from use of this equipment or the activities undertaken with it.

- Any device is subject to failure-carefully check before and after each use.

- You must always have a backup-never trust a life to a single tool.

- Everyone using this equipment must be given and thoroughly understand the instructions and refer to them before each use.

- You must have a rescue plan and the means to implement it. Inert suspension in a harness can quickly result in death!

- Do not use around electrical hazards, moving machinery or near sharp edges or abrasive surfaces.

- We are not responsible for any direct, indirect or accidental consequences or damage resulting from the use of our products.

**rockexotica.com**

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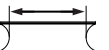
**INTRODUCTION**

Thank you for purchasing this Rock Exotica product. The Aztek Pulley System is the most advanced compact mechanical advantage system available. Its versatility has made it a favorite around the world. These pulleys are compact and extremely strong for their size. They are CNC machined out of a solid block. This lets us leave material where it is needed for strength and remove it where it's not needed for lighter weight. Sheaves are equipped with ball bearings for efficiency. The Aztek uses Prusiks and they can be activated on either the top or bottom pulley, which allows extreme flexibility. Rather than a traditional becket, the rope end is held on the side of the pulley, allowing the pulleys to be pulled very close together for compact storage.

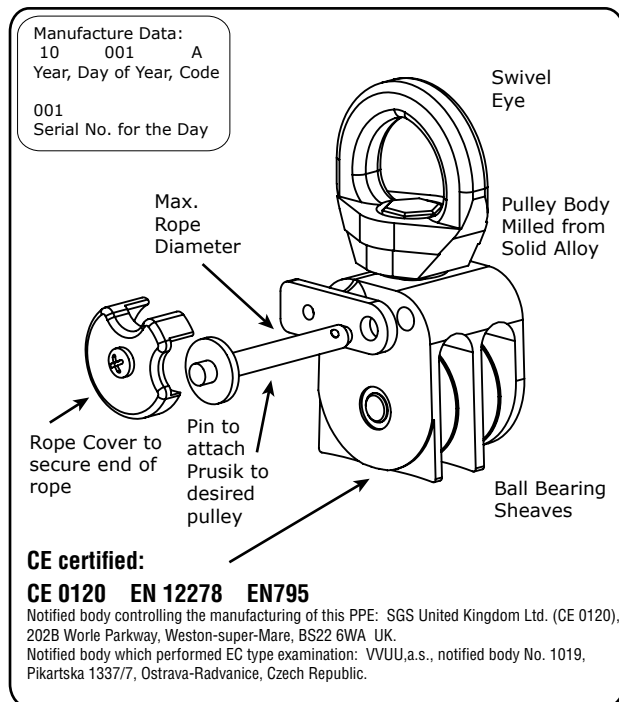
**Strength:** In a double pulley, like the Aztek, the total load is 4x the load on the 4 individual ropes. Breaking Strength & Working Load are based on this equal loading.

Pulleys must be free to align with the load, **any restraint is dangerous.** NEVER allow any bending force on the pulley or it may break or break your connectors.

**Working Load Limit:** Assumes equipment/rope/Prusiks in good condition and conservative, experienced user.

|   | <b>P41 Aztek Double Pulley</b>      |
|---|-------------------------------------|
|  | 1.1" (28mm)                         |
| <b>Max Rope</b>   | 8mm                                 |
| <b>Strength</b>   | *                                   |
| <b>WLL</b>  | 3kN Human Load<br>5kN non-Live Load |
| <b>Height**</b>   | 4.1" (104mm)                        |
| <b>Width</b>  | 2" (50mm)                           |
| <b>Weight (pulley)</b>  | 7.5 oz (210gm)                      |

\* Breaking Strength:  
36kN with top Prusik.  
30kN with bottom Prusik.  
18kN when tested only on one sheave, no Prusik.



**Prusik Use - Caution!**

Prusiks must always have an experienced person tending them. Never allow a jammed Prusik to be pulled in between the sideplates. This can bend or break the pulley and allow the rope to fall out.

**Breakage Hazard**

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 the sideplates or your connector.

**Leverage Hazard**

A pulley or other equipment can lever against a connector (such as a carabiner) and break it, opening the connector and allowing the pulley to fall out. Guard against this at all times!

**Pinching Hazard**

Rope travelling through a pulley can suck in hair, fingers, clothing, etc., causing injury & jamming the pulley. Guard against this.

**Stay Up To Date!**

Regularly go to our website and read the latest user instructions.

**The Aztek system requires advanced skills, training and experience!**

There are many ways to use this versatile system and it is impossible to learn to use it only by reading instructions. You must be able at all times to access that what you are doing is safe. Do not use in any situation unless you are sure you are able to use it safely and that you are accepting full responsibility for its use.

Using Prusiks requires experience. They require tending or they can get stuck or they can fail to catch.

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.

**Rope**

The Aztek was designed for use with sewn Prusiks made by Sterling Rope and an 8mm main rope with a sewn end to attach to the side of the pulley.

Note that the Prusik is a special "3 on 2". This is used because it cannot come off the rope like a traditional Prusik can.

**Intended Use**

This Personal Protective Equipment (PPE) should only be used with energy absorbing systems such as dynamic ropes, energy absorbers, etc. & slack must be kept out of the system to prevent high impact falls. It is intended for use by medically fit, specifically trained and experienced users.

**Compatibility**

Verify compatibility with other components of your system. Incompatible connections can cause detachment, breakage, etc.

**Lifetime**

10 years maximum, but will often be much less depending on conditions and use; it could even be a single use in some cases.

**Retire from Service & Destroy if it:**

1. Is significantly loaded.
2. Does not pass inspection or there is any doubt about its safety.
3. Is misused, altered, damaged, exposed to harmful chemicals, etc.
4. Sheave or swivel does not rotate smoothly. Consult the manufacturer if you have any doubts or concerns.

**Maintenance & Storage**

Clean if necessary with fresh water, then allow to dry completely. Store in a dry place away from extremes of heat and cold and avoid chemical exposure.

**Principal Material**

Aluminum alloy, anodized.

**Repairs or Modifications to Equipment**

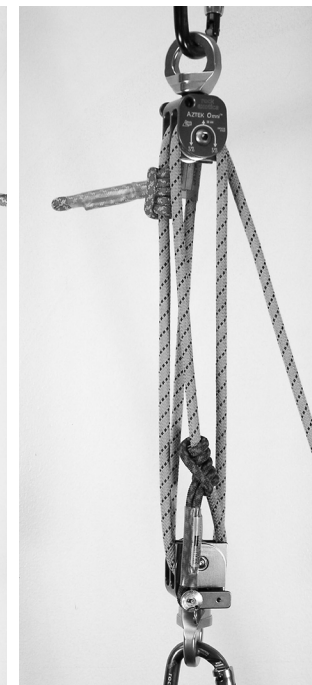
Are only allowed by the manufacturer or those authorized in writing by the manufacturer.



**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 wrong 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.



**Prusik on Bottom-view from opposite side**

This is the same setup as the picture at the left, 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 (this should be obvious) don't pin both Prusiks at the same time or you will be stuck.



**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.

**Inspect Before & After Use**

Check all parts for cracks, deformation, corrosion, wear, etc. Verify that the swivel top rotates normally & the axle screw has not loosened. Verify smooth rotation of the sheaves & security of the axle screw. Verify rope cover is tight & the rope end is secure. Always check the quick release Prusik pin - it has small balls that must extend to lock it in place. Pins can malfunction or get dirty and fail to lock.

**Inspection During Use**

Regularly inspect and monitor your system, confirming proper connections, equipment position, fully locked connectors, etc.

**Environmental Factors**

Moisture, ice, salt, sand, snow, chemicals and other factors can prevent proper operation or can greatly accelerate wear.

**Detailed Inspection**

In addition to inspection before, during and after each use, a detailed inspection by a competent inspector must be done at least every 3 months or more frequently depending on amount and type of use. Make a copy of these instructions and use one as the permanent inspection record and keep the other with the equipment. It is best to issue new gear to each user so they know its entire history.

| PURCHASE RECORD     |  | DATE | CONDITION | INSPECTOR |
|---------------------|--|------|-----------|-----------|
| Model               |  |      |           |           |
| Complete Batch #    |  |      |           |           |
| Year of Manufacture |  |      |           |           |
| Purchase Date       |  |      |           |           |
| Date of 1st Use     |  |      |           |           |
| User                |  |      |           |           |