## AB1653 Blockbuster

**Instructions for use**

**IMPORTANT!** Read carefully before use. Keep for future reference.

**CE0123 EN12278**

## PRODUCT DESCRIPTION

The AB1653 Blockbuster combines a pulley with a swivel and offers tremendous advantages. It can replace a conventional pulley, carabiner & swivel and is lighter, less expensive and saves valuable vertical space. It also allows installing/removing the rope while the pulley is still anchored, which prevents dropping it & is often easier when rigging mechanical advantage systems.

## IMPORTANT SAFETY INFORMATION

**WARNING** THIS PRODUCT IS FOR EXPERT USE ONLY.

**DANGER**
**Risk of severe injury or death.**
**Activities involving the use of this equipment are inherently dangerous.**
**For use by experienced professionals only.**

Before using this equipment, you must:
Read and understand all instructions and limitations of use
Be specifically trained and competent for the intended use
Understand and accept the risks and responsibilities involved in its use.

**WARNING**
Do not exceed maximum load limit.
Do exceed maximum rope diameter.
Do not use for any purpose other than those intended.
Do not use around electrical hazards, moving machinery or near sharp edges or abrasive surfaces.

**SAFE WORKING PRACTICES**

Appropriate task-based risk assessment(s) must be conducted by the user(s) prior to commencement of any activity.
All personnel using this equipment must read and thoroughly understand the instructions and refer to them before each use.
Ensure appropriate backup - never trust a life to a single tool.
You must have a rescue plan and the means to implement it.

## INTENDED USE

The Blockbuster is personal protective equipment (PPE) intended to protect from falls from height.

It is intended to 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.

The product must not be loaded beyond its strength rating, nor be used for any purpose other than that for which it is designed.

It is intended for use by medically fit, specifically trained, and experienced users. Thorough and specific training is essential before use. Being at height is dangerous and it is up to you to reduce the risks as much as possible - but the risks can never be eliminated.

## STRENGTH RATING AND LOAD LIMITS

**Maximum working load: 800KG**

**Breaking strength: 4000KG**

**Strength:** In a single pulley, half the load is on one side of the rope and half is on the other. The total load on the pulley is thus 2x the mass that is being raised or lowered.

This is illustrated on the pulley – see **Figure 1**.

Breaking Strength & Working Load are based on this equal loading. If the cheek is not fully locked by the button, the strength will be severely reduced, to about 10kN, but also, the rope may fall out. Pulleys must be free to align with the load, any restraint is dangerous. The central hole can be used as a becket, which would reduce the Working Load Limits by 33%.

**Working Load Limit:** Based on an approximate safety factor of 5:1. You must decide if that is sufficient in your situation or if you need to adjust the Working Load Limit.

## PRODUCT MARKINGS

The product markings are shown in **Figure 1** and **Figure 2**.

**FIGURE 1**

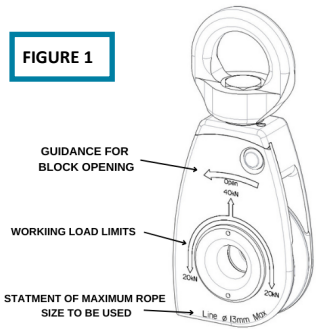
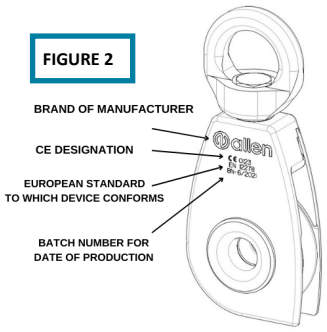



**FIGURE 2**




## COMPATIBILITY

**WARNING!** Incompatible connections can cause detachment, breakage, etc.

Check compatibility with other components of your system. Ensure any accessories connected to this product are suitably certified for the intended purpose.

Typical certification would include products certified in accordance with the following standards:

**EN12275, EN362 EN354, EN565, EN566, EN1891**.

## OPERATING INSTRUCTIONS

**ATTENTION! Inspect Product Before Use:**

Immediately before use, visually/functionally inspect to ensure that product is in a serviceable condition and operates correctly. Check all parts for cracks, deformation, corrosion, wear, etc. Check that the swivel top rotates normally and the axle screw has not loosened. Check for smooth rotation of the sheaves and security of the axle screw. Check that the cheek rotates normally and the button operates properly. The button must not be impaired by grit, ice, corrosion, etc. Check for smooth rotation of the sheave.

**WARNING! Ensure that you understand how the side plate and locking button work before you begin.**

**OPERATING INSTRUCTION CONTINUED ON NEXT PAGE.**

## OPERATING INSTRUCTIONS

**LOCKING PROCEDURE**

**Follow each step in the procedure every time you operate the product:**

**1. Open Cheek:** Depress the locking button & rotate cheek anti-clockwise 90 degrees. See **FIGURE 3** for location of locking button.

**2. Insert Rope:** With the Cheek in the fully open position place your rope around the sheave. **FIGURE 4** shows the rope inserted with an open cheek.

**3. Close Cheek:** Rotate the cheek clockwise to the fully closed position.

**4. Test to ensure full lock:** Check the button extends fully through the hole in the side cheek and test that the cheek is fully locked and secure by trying to twist the cheek anti-clockwise to open it. **See FIGURE 5.**

**(**You should be able to close the cheek one-handed, but the components will last longer if you depress the locking button a little to help it when closing.)
**WARNING!** The side plate (cheek) must be closed and locked with the button fully extended, or strength will be greatly reduced.

**FIGURE 3**

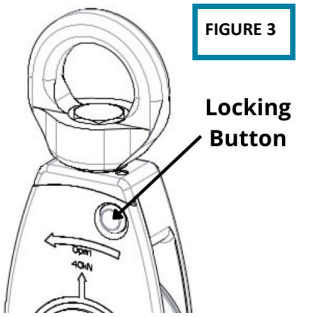
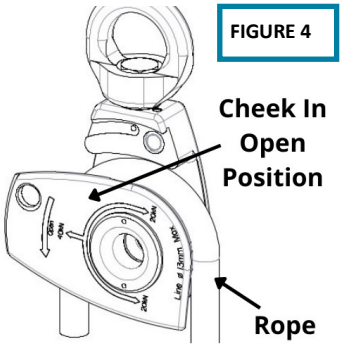



**FIGURE 4**



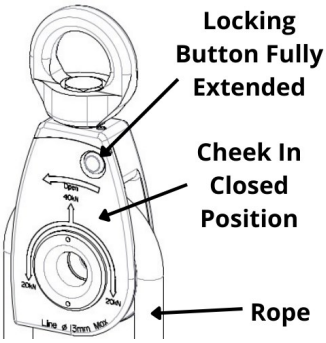




**FIGURE 5**

**DURING USE**

**WARNING! Breakage hazard**
Do not allow an object to become positioned in between the cheeks.
Never rig your system so that the pulley is forced against something that could break or open the cheeks, allowing the rope to fall out.
Do not allow anything to press the locking button and accidentally unlock the cheek.

**WARNING! Pinching Hazard**
Rope travelling through a pulley can suck in hair, fingers, clothing, etc., causing injury and jamming the pulley. Guard against this.

**Inspection During Use:** Regularly inspect and monitor your system, confirming proper connections, position, fully locked cheeks & fully extended buttons.

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

## CARE AND MAINTENANCE

**Inspection:** In addition to inspection before and during use, a thorough inspection to verify the product's integrity should be performed at least once every 6 months by a competent person (this may be the manufacturer).

**Cleaning:** If necessary, clean the pulley with fresh water, then allow to dry completely before storing.
The button may be cleaned by holding it upside down & spraying a light lubricant into it whilst operating. WD40 or a similar oil product will surface. Do not use thick grease as this can clog the mechanism and result in a faulty unit.

**Storage:** Store in a dry place away from extremes of heat and cold and avoid chemical exposure.

## PRODUCT LIFE

**WARNING:** If the product has been used to arrest a fall, thorough examination by a competent person must be performed to ascertain its suitability for continued use. If in any doubt about the safe condition of this product, withdraw from use immediately, destroy and replace.

**Environmental Factors**: Moisture, ice, salt, sand, snow, chemicals and other factors can prevent proper operation or can greatly accelerate wear. Lifetime Unlimited for metal products but will often be much less depending on conditions and frequency of use; it could even be a single use in some cases.

**Allen 2-year guarantee:** If your Allen product has a defect due to workmanship or materials, please contact us for warranty service. This, warranty does not cover damages caused by improper care, improper use, alterations and modifications, accidental damage or the natural breakdown of material over extended use and time.

**Retire from Service & Destroy if the product:** 1. Has been significantly loaded. 2. Does not pass inspection or there is any doubt about its safety. 3. Has been misused, altered, damaged, exposed to harmful chemicals, etc. 4. Button fails to extend fully.

Consult the manufacturer if you have any doubts or concerns.

This product conforms to EU regulation 2016/425. Declaration of Conformity available at www.allenbrothers.co.uk

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