

# BUCKINGHAM MFG.

Instructions for Use

## BuckRigger Swivel Pulleys

Size 1.5" (38 mm)

CE 0120 EN12278

Patented

For more information, visit

BuckinghamMfg.com/Patents

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.

Buckingham Mfg. Co. Inc.

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5007R15007R2.doc  
PN 230347 Rev. 5-21-18

## INTRODUCTION

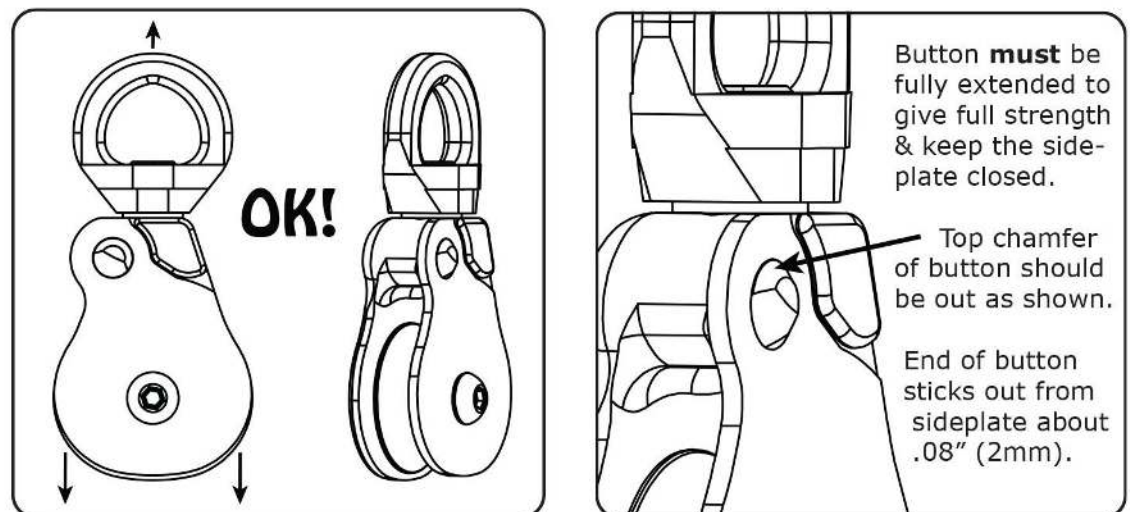
Thank you for purchasing this Buckingham Mfg. product. The BuckRigger combines a pulley with a swivel and offers tremendous advantages. It can replace a conventional pulley, carabiner & swivel and is lighter, less expensive and saves valuable vertical space. It also allows installing/removing the rope while the pulley is still anchored, which prevents dropping it & is often easier when rigging mechanical advantage systems. It does require that the user understand how it works and takes responsibility for making sure the sideplates are closed & locked.

**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. In a double pulley the total load is 4x the load on the 4 individual ropes. This is illustrated on the pulley. Breaking Strength & Working Load are based on this equal loading. *If the sideplate is not fully locked by the button, the strength will be severely reduced, to about 2250 lbf. (10kN), but also, the rope may fall out.* Pulleys must be free to align with the load, *any restraint is dangerous.*

**Working Load Limit:** Is based on about a 4.4 : 1 safety factor. You must decide if that is sufficient in your situation or if you need to adjust the WLL.

	5007R1 (Single Sheave)	5007R2 (Double Sheave)
	1.5" (38mm)	1.5" (38mm)
<b>Max Rope</b>	.5" (13mm)	.5" (13mm)
<b>Strength</b>	8000 lbf. (36kN)	8000 lbf. (36kN)
<b>WLL</b>	1800 lbf. (8kN)	1800 lbf. (8kN)
<b>Height</b>	5.3" (135mm)	6.4" (163mm)
<b>Width</b>	2.5" (63mm)	2.5" (63mm)
<b>Thickness</b>	1.2" (30mm)	2.25" (58mm)

Views shown are of the single & front side of the double. The back side of the double is reversed from these views.



## ! Mandatory Locking Procedure !

The sideplate must be closed and locked with the button fully extended, or strength will be greatly reduced and the rope may fall out with catastrophic results. You must understand how the sideplate & locking button work & must faithfully do the following every time you use it:

1. Visually confirm the sideplate is fully closed and the locking button is fully extended.
2. Test the sideplate by attempting to rotate it to confirm by touch that it is locked.

Do not allow anything to contact the button in use. Regularly check that the sideplate is locked and the pulley is positioned properly. If the pulley cannot be kept in sight, use a conventional pulley.

## Exploded View

Swivel Top with  
Steel Washer on  
Nylon Bushing

Manufacture Data:  
09 001 A  
Year, Day of Year, Code

001  
Serial No. for the Day

Button

Milled  
from  
Solid  
Alloy

Sideplate

Ball Bearing Sheave

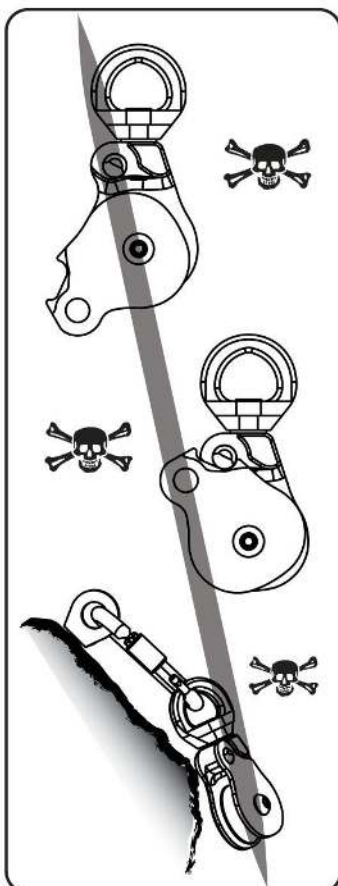
Maximum Rope Diameter

## CE 0120 EN12278

Notified body controlling the manufacturing of this PPE: SGS United Kingdom Ltd. (CE 0120),  
202B Worle Parkway, Weston-super-Mare, BS22 6WA UK.  
Notified body which performed EC type examination: VVUU,a.s., notified body No. 1019,  
Pikartská 1337/7, Ostrava-Radvanice, Czech Republic.

## Stay Up To Date!

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



### 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 or open the sideplate, allowing the rope to fall out.

## To Open Sideplate

Depress the button & rotate sideplate counterclockwise (clockwise for the back side of the double). It should stop at the 2nd button detent. In this position the strength is severely reduced, but the rope will not fall out as easily as it can in the fully open position. To fully open, just depress the button again & rotate.

## To Close Sideplate

Rotate sideplate past the 2nd detent to the fully closed position. Verify the button extends fully through the hole & test that the sideplate is really locked & secure.

You should be able to close it one-handed, but the components will last longer if you depress the button a little to help it when closing.

## In Use

Do not allow anything to press button & accidentally unlock sideplate. Do not allow anything to pry the sideplates apart, or opening or breakage may occur.

## Pinching Hazard

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

## Inspect Before & After Use

Check all parts for cracks, deformation, corrosion, wear, etc. Verify that the sideplate rotates normally & the button operates properly. The button must not be impaired by dirt, ice, corrosion, etc. Verify smooth rotation of the sheave.

## Inspection During Use

Regularly inspect and monitor your system, confirming proper connections, position, fully locked sideplates & fully extended buttons.

## 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.

## Thorough and specific training is absolutely 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. There are many ways to misuse this equipment, too many to list or imagine. You must personally understand and assume all risks and responsibilities of using this equipment. If you cannot or do not want to do this, do not use this equipment.

## Environmental Factors

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

## Compatibility

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

## Lifetime

BuckRiggers like all equipment must be replaced by the user at regular intervals. This interval should be dictated by the amount of use and type of service the product receives rather than a set time frame. Therefore the manufacturer does not place a time limit on replacement of the BuckRiggers. Due to the rigorous strain the BuckRigger endures, it should be replaced at the earliest signs of wear. BuckRigger inspection is extremely important and must as a minimum be performed as stated.

## 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. Button fails to extend fully. Consult the manufacturer if you have any doubts or concerns.

## Maintenance & Storage

Clean if necessary with fresh water, then allow to dry completely. The button may be cleaned by holding it upside down & spraying a light lubricant into it while operating it. 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.

## 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				