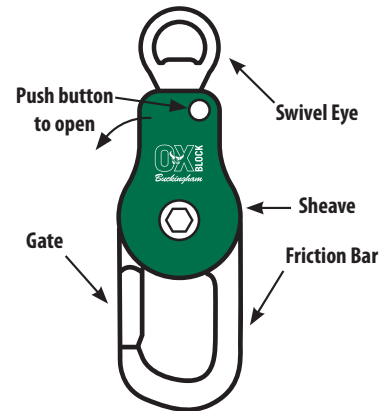


### OVERVIEW

The Buckingham OX BLOCK is a rope snatch block with an integrated friction bar used for lowering loads, snubbing loads, and raising loads. It allows the rigging professional to handle loads with greater control. When lowering loads, tension is transferred from the worker to the OX BLOCK. The OX BLOCK replaces standard handline blocks, parted blocks, and various snatch blocks. The OX BLOCK also has greater Working Load Limits than blocks of similar size.

Patent Pending



### ATTACHMENT METHODS

The Buckingham OX BLOCK is supplied as an independent unit or as shown below with a permanently attached sling. The section below outlines some of the basic configurations to attach the OX BLOCK. The supplied slings have a WLL of 2500 lbs. when rigged as shown.

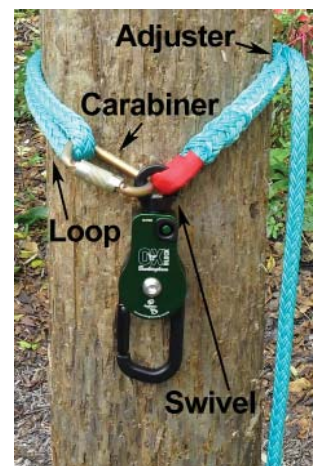
#### Choked Configuration:

1. Pass loop end around pole.
2. Then pass block through loop.
3. Pull on tail to tighten sling around pole.
4. Smooth out adjuster.



#### Basket Hitch Configuration:

1. Pass loop end around pole.
2. Connect carabiner from OX BLOCK swivel to loop (with gate facing outward).
3. Pull on tail to tighten sling around pole.
4. Smooth out adjuster.



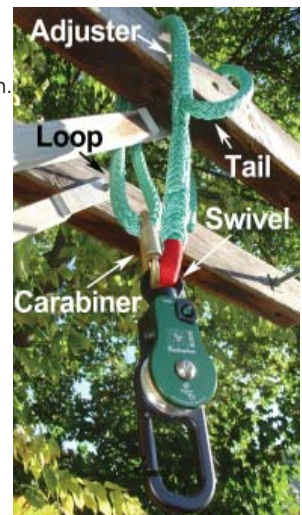
#### Double Basket Hitch Configuration:

1. Pass loop end around pole twice.
2. Connect carabiner from OX BLOCK swivel to loop (with gate facing outward).
3. Pull on tail to tighten sling around pole.
4. Smooth out adjuster.



#### Basket Hitch Over Cross Arm:

1. Pass loop end over cross arm.
2. Connect carabiner from OX BLOCK swivel to loop.
3. Pull on tail to shorten sling and raise OX BLOCK to desired height.
4. Smooth out adjuster.



### CONFIGURATIONS

Figure 1:  
**Common**

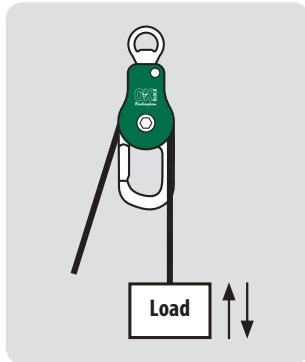


Figure 2:  
**Lowering Load With Friction**

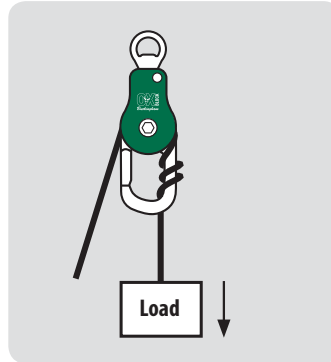


Figure 3:  
**Snubbing Load**

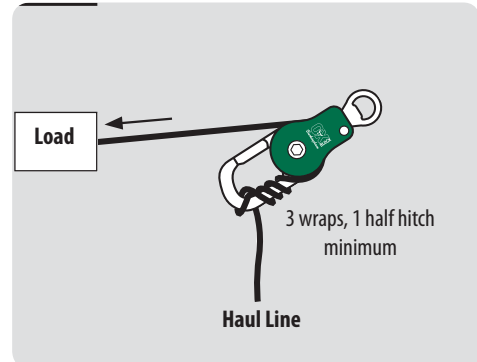
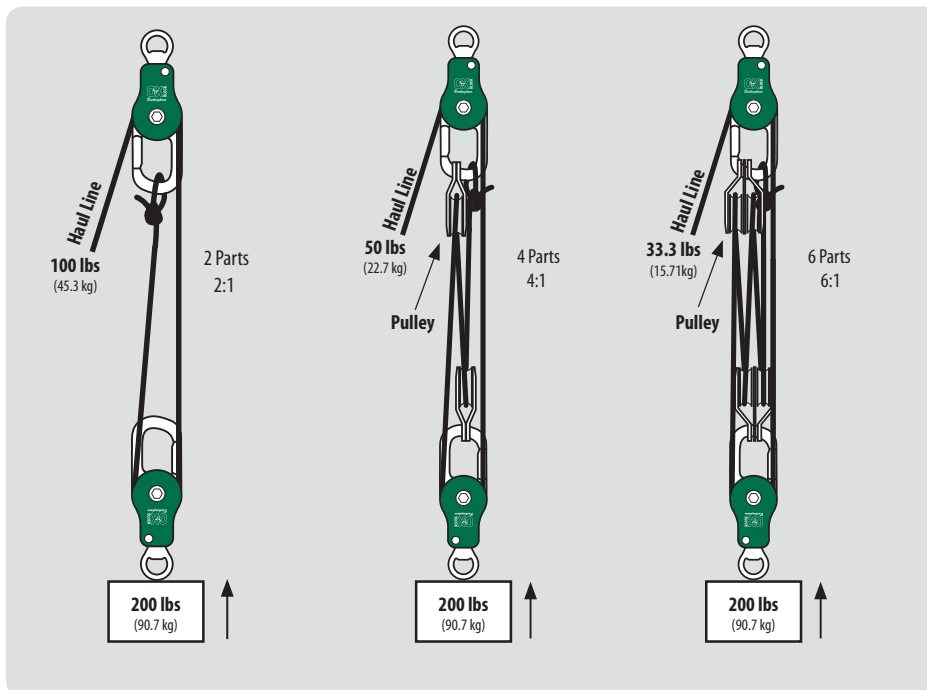


Figure 4:  
**Raising Load**



Approximate line length required: (lift length x number of pulleys) + 1 lift length.

**WARNING:**  
This equipment is intended for use by properly trained professionals only.

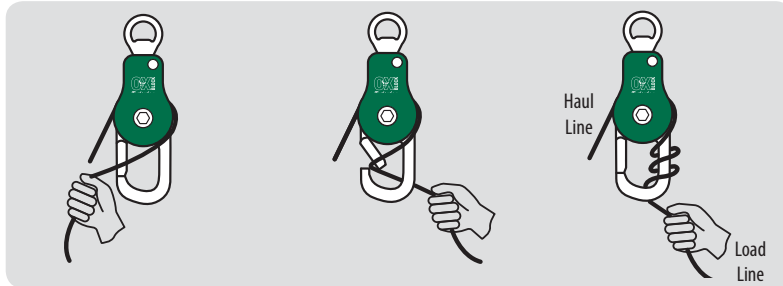
WATCH THE VIDEO



[www.buckinghammfg.com/OX](http://www.buckinghammfg.com/OX)

### FRICITION ASSISTANCE

For lowering loads with friction assistance, wrap the rope around the friction bar in the direction as shown (clockwise or counterclockwise):



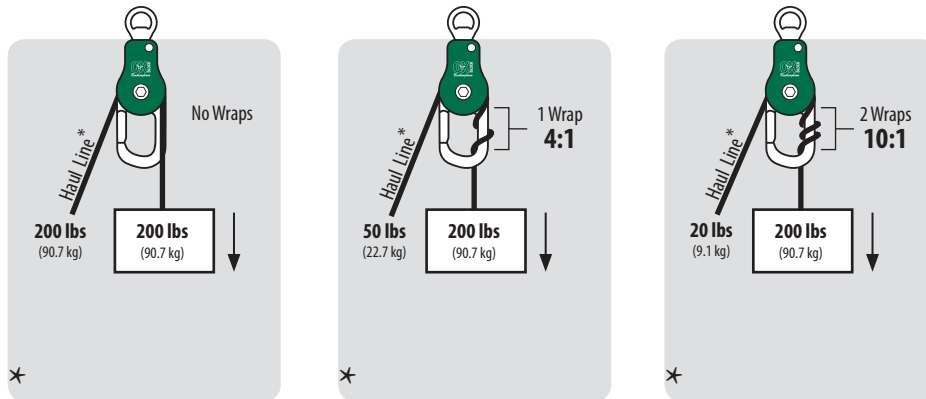
Two times through the gate (2 audible clicks) provides one full wrap.  
Three times through the gate (3 audible clicks) provides two wraps.

### HAUL-LINE TENSION REDUCTION (WHEN LOWERING LOADS)

On average, one wrap will reduce haul-line tension by a factor of 4:1.

On average, two wraps will reduce haul-line tension by a factor of 10:1.

Cautiously lower the load with extra belay friction to ensure the load can be adequately handled. Weight consideration must be given when lowering loads. i.e. if lowering a 600 lb. load with the haul line over only the sheave the user would be holding the entire 600 lb. load, if using 1 wrap (4 to 1 ratio) the user is holding 150 lbs., using 2 wraps (10 to 1 ratio) the user is holding only 60 lbs. Heavy loads require additional rope wraps on the friction bar as shown below or may require the use of an additional mechanical advantage.



\*using 1/2" Duraplex

### FRICITION ASSISTANCE CAN BE USED WITH THE OX BLOCK WHEN:

- the load must be lowered under controlled conditions and/or needs to be periodically stopped during descent.
- the weight ground personnel must hold back needs to be minimized.
- rescuing the injured from heights.
- the load can be transferred to the OX BLOCK without having to first lift the load, or the load can be safely lifted by one person and transferred to the OX BLOCK (for heavier loads that need to be lifted before being lowered, configure two OX BLOCKS into a parted configuration).
- avoiding damage to trees, fences, vehicles (and other items commonly used to reduce friction when lowering loads with ropes ) is desired.
- ergonomic benefits are desired for personnel that regularly work with ropes, blocks, and rigged loads.

### WARNING:

Faceplate must be fully latched, the button engaged and the gate fully closed before applying load.

Friction will vary depending upon on rope material, size and condition. Always test your OX BLOCK rigging in a safe manner to determine hold back force desired and number of wraps you will use on OX BLOCK friction bar.

Haul line tension will vary based on these factors: Diameter of rope, construction of rope, material of rope, clean, dirty, wet or dry rope.

### WARNING:

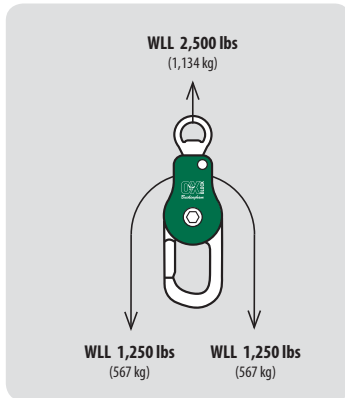
For loads that must be lifted before being lowered, friction assistance should not be used unless one person can safely lift the load, or the load must be lifted mechanically first and then lowered using friction assistance of the OX BLOCK.

### PROPER USE

1. Sheave-to-eye and hook-to-eye Working Load Limits must not be exceeded.

#### SHEAVE-TO-EYE

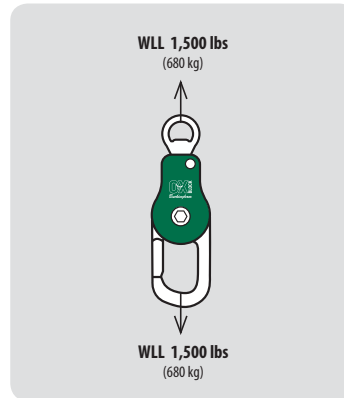
**MBS = 10,000 lbs** (4,536 kg)  
**WLL = 2,500 lbs** (1,134 kg)



MBS (Minimum Breaking Strength) WLL (Working Load Limit)

#### HOOK-TO-EYE

**MBS = 6,000 lbs** (2,722 kg)  
**WLL = 1,500 lbs** (680 kg)



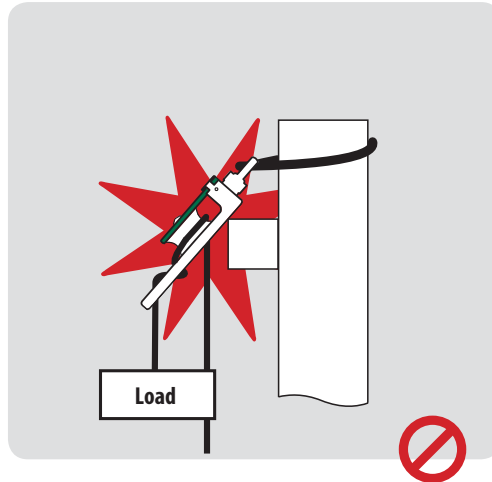
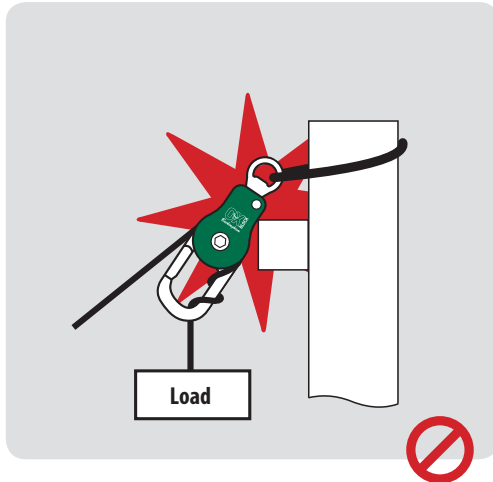
#### WARNING:

Use synthetic ropes only. Not to be used with wire rope or natural fiber ropes.

Maximum rope diameter is 5/8".

Always use adequate anchorage.

2. The OX BLOCK must free to align with its load, without obstruction of the body or friction bar.



3. The OX BLOCK is designed for multi-braid synthetic ropes (maximum size 5/8") and should not be used with wire ropes or natural fiber ropes.
4. Always ensure the OX BLOCK is attached to an adequate anchorage point that is capable of safely supporting the load and that all rigging components (e.g. carabiners, hardware, pulleys, ropes, slings, etc.) are rated and intended for use with the specific rigging application. In order to get the full WLL from the OX BLOCK (sheave to eye) all components of the system must have a 10,000 lb. rating and be configured so as not to reduce that rating. Ropes which have a higher safety factor (generally 5 to 1) must have a 12,500 lb. rating to maintain the full WLL (sheave to eye) from the OX BLOCK. The system components should be a minimum of 4 to 1 safety factor for exposure to heavier loads. For example, if lowering 1000 lbs. the weakest link must be rated to 4000 lbs. minimum breaking strength.
5. Loads being lowered with friction assistance should be lowered under control; never allow running or free falling of a load. Use a hand over hand method to control the rope.



6. Always close the faceplate before applying any force or load to the OX BLOCK.
7. Always ensure the friction bar safety gate is closed before applying any force or load to the OX BLOCK.
8. Wear to the friction bar is minimized when ropes are clean and descent speed is minimized; loads must never be allowed to run or free fall.
9. Slack must be kept out of the system to prevent high-impact falls.
10. The OX BLOCK is intended for use by medically fit, specifically trained, experienced users.
11. Thorough and specific training is absolutely essential before use. Heights are dangerous. It is up to you to reduce risks as much as possible, but risks can never be completely eliminated. There are many ways to misuse this equipment—too many to list or even 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.

### WARNING:

Thorough and specific training is absolutely essential before use.

## INSPECT BEFORE AND AFTER EACH USE

The inspection should include, but not be limited to the following: Check all parts to ensure no corrosion, cracks, deformation, gouges or scratches, rough areas or sharp edges that may abraid the rope or excessive wear exists. 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 and proper operation of the gate.

### INSPECT DURING USE

Regularly inspect and monitor OX BLOCK while in use, confirming proper connections, position, fully locked faceplates and gate, and fully extended buttons.

The OX BLOCK 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 OX BLOCK. Due to the rigorous strain the OX BLOCK endures, it should be replaced at the earliest signs of wear. OX BLOCK inspection is extremely important and must as a minimum be performed as stated.

If any evidence of wear or deterioration as outlined is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. Co. for clarification.

## MAINTENANCE & STORAGE

Clean if necessary with fresh water, then allow to dry completely without using excessive heat. 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

Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs / modifications to this equipment. Therefore, do not alter, modify or repair this product.

Always refer to rope manufacturer's instructions and warnings.







### WARNINGS

- This equipment is intended for use by properly trained professionals only.
- Manufacturer's instructions shall be provided to the user of this product. If additional copy is needed, contact Buckingham Mfg. Co.
- Completely read, understand, and follow all instructions, warnings, and guidelines pertaining to this and all associated equipment before use. Failure to do so could result in your serious injury or death.
- Employer - instruct your employees as to proper use, warnings and cautions before use of this equipment.
- FOR RESCUE PURPOSES ONLY: This product is designed to be used by a person with a maximum weight of 350 lbs. when fully equipped.
- Personal protection and rigging equipment, (i.e. fall arrest, work positioning, retrieval, suspension, travel restraint, hoisting etc.) should not be resold or provided to others for re-use after use by original user as assurance can not be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- All components used with the OX BLOCK (carabiners, pulleys, rope, slings, etc.) shall be authorized Buckingham products. Selection of components / products should be such that they aid the worker in the performance of their job and particular work situation. Therefore, be certain this equipment is suitable for the intended use and work environment. It should only be used for intended uses. If suitability for intended use is questionable, always consult your Supervisor, Safety Director or contact Buckingham Mfg. at (607) 773-2400 or 1-800-937-2825.
- Destroy any and all equipment subjected to impact loading.
- As outlined by OSHA 1926.502 (e)(2) positioning devices shall be secured to an anchorage capable of supporting at least twice the potential impact load of an employee's fall or 3,000 lbf. (13.3 kN), whichever is greater versus fall arrest anchor points which must support a minimum of 5,000 lbf. (22.2 kN) per attached worker and be Independent of worker support.
- Avoid rubbing of unit components against abrasive surfaces and sharp edges.
- Avoid contact of this equipment with high temperature surfaces, welding or other heat sources.
- Use this product only in combination with compatible equipment.
- Use this equipment only for the specific purpose for which it is designed and intended.
- Wearing gloves while using this product is highly recommended.
- Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs / modifications to this equipment.
- Product covered under these instructions / warnings should not be resold / redistributed or reused after use by original user.
- Employer - instruct employees as to proper use, warnings and cautions before use of this equipment.

### 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; keep the other with the equipment. It is best to issue new gear to each user so they know its entire history.

Date of Purchase		Date of 1st Use	User
Date	Condition	Inspector	

**BUCKINGHAM MFG. CO., INC.**

BINGHAMTON, NY

1-800-937-2825

[www.buckinghammfg.com](http://www.buckinghammfg.com)

