Camlok®

BULB BAR ANCHORS



# BA BULB BAR ANCHOR

## WLL 750 – 6,000 KG (PER PIECE)

EN- OPERATING MANUAL
(ALSO APPLICABLE FOR SPECIAL VERSIONS)

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## Introduction

Products of Columbus McKinnon Corporation Limited have been built in accordance with the state-of-the-art and generally accepted engineering standards. Nonetheless, incorrect handling when using the products may cause dangers to life and limb of the user or third parties and/or damage to the hoist or other property.

The operating company is responsible for the proper and professional instruction of the operating personnel. For this purpose, all operators must read these operating instructions carefully prior to the initial operation.

These operating instructions are intended to acquaint the user with the product and enable him to use it to the full extent of its intended capabilities. The operating instructions contain important information on how to operate the product in a safe, correct and economic way. Acting in accordance with these instructions helps to avoid dangers, reduce repair costs and downtimes and to increase the reliability and lifetime of the product. The operating instructions must always be available at the place where the product is operated. Apart from the operating instructions and the accident prevention act valid for the respective country and area where the product is used, the commonly accepted regulations for safe and professional work must also be adhered to.

The personnel responsible for operation, maintenance or repair of the product must read, understand and follow these operating instructions.

The indicated protective measures will only provide the necessary safety, if the product is operated correctly and installed and/or maintained according to the instructions. The operating company is committed to ensure safe and trouble-free operation of the product.

## BA Bulb bar anchor

| Model | WLL kg | Max. bulb hp | Weight kg |
|---|---|---|---|
| BA0.75 | 750 | 80-160 | 3 |
| BA1.5 | 1500 | 160-240 | 4 |
| BA3.0 | 3000 | 240-320 | 5.5 |
| BA6.0 | 6000 | 320-430 | 12.5 |

**Table 1**

## General Safety

- ALWAYS wear practical, protective clothing, gloves and footwear as a minimum.
- ALWAYS bear in mind your safety and the safety of others while using this equipment.
- DO NOT operate this equipment, if you feel Ill, tired or are under the influence of alcohol or drugs.
- This equipment MUST NOT be used to carry or lift personnel.

## General Safety

**ALWAYS** check the operation of your Camlok lifting clamp before use.

**ALWAYS** place the palm of the hand on top of the load.

**ALWAYS** stand clear when lifting or lowering.

**ALWAYS** keep a record of inspections and repairs.

**ALWAYS** transport the load as close to the floor as possible.

**NEVER** use a worn or damaged Camlok lifting clamp.

**NEVER** lift more than one plate/ product at a time.

**NEVER** leave a suspended load unattended or place a plate down on edge for a long period of time.
**NEVER** exceed the maximum working load limit

**NEVER** lower fast, **ALWAYS** lift and lower gently.

**NEVER** stand under a suspended load and if guiding a load by hand, **NEVER** grip the load with fingers on the underside.

**NEVER** pull or push the load where the crane cannot reach
**NEVER** force the locking lever.

## Product Overview

The BA bulb bar anchor has been designed for attachment to bulb profiles, often found in ship compartments and engine rooms. It provides a semipermanent suspension point. The clamp can be quickly and easily attached via the screw mechanism. The fabricated light weight design ensures a firm grip onto the bulb section. The unique large bow hook ring gives easy connection for all types of lifting equipment.

## Fitting:

- Check that the beam is free from grease, standing water, oil, scale and is not coated with paint or film.
- The width of the beam flange to which the anchors is to be fitted must be within the range on the clamp
- For long beams use 2 anchors and a lifting beam.
- Check the weight of the anchors and ensure the lifting sling is slack.
- The anchors need to be placed on the bar with the screw side touching the vertical plate.
- The anchors is then closed by reversing the rotation of the screw
- Take care not to damage the lifting surfaces.
- By applying weight the anchors locks itself on the bar
- The load must be applied to the center of the groove in the clamp suspension bar and side pulling must be avoided
- Check chain sling for twisting.

## Lifting & Transport:

- This model must not be used for lifting. It is a suspension point
- Never suspend more than one plate at a time.

## Lifting & Transport:

- Never exceed the maximum working load limit or pick up loads weighing less than the minimum working load limit as marked on each clamp.
- Check position and fitting of clamp as weight is applied
- Check for obstacles prior to suspend. Always suspend slowly and smoothly.
- Suspension slings must be vertical at all times.
- Always keep clear of the area below and surrounding the load while suspending as the plate may kick or swing as it reaches the floor.
- Minimise the danger area by moving plates as close to the ground as possible.
- Take precautions to stop the load from swinging.
- Only use the clamp from below to pull down, never use it in the other direction to lift a beam.

## Release:

- Place loads down gently. Fast lowering may release the clamp.
- Make sure that when depositing the load, there is enough space for freely turning the thread spindle
- The clamp can only be released when the entire load is removed.
- In order to remove the load lifting attachment from the load after the transport process, travel the suspension (e.g. hook, shackle, etc.) downwards until it is unloaded and the shackle moves freely.
- Do not force or hit the lever.

## Testing/Service:

All Camlok lifting clamps are tested before sale to a proof load of twice the working load limit. Any clamp that has been repaired must be tested.

## Care and Maintenance:

The maintenance schedule is based on normal usage of clamps operating in a workshop environment. Maintenance frequency must be increased if clamps are subject to heavy usage or operated in adverse conditions.

Fasteners fitted to 'Camlok' clamps are retained with Loctite 270 Thread Locking Compound unless the bolt is secured with a nylon nut. DO NOT use any other grade. For maintenance, use heat to loosen locking compound (up to 80°). Always keep a record of inspections and repairs.

The components which need to be inspected are detailed in table 2 with the correct frequency.

| | Check | Daily | Weekly | 3 Months |
|---|---|---|---|---|
| A | Welds for cracks | ✓ | ✓ | ✓ |
| B | Distortion in the side plates | ✓ | ✓ | ✓ |
| C | Obvious signs of damage | ✓ | ✓ | ✓ |
| D | Fasteners for integrity & tightness | - | ✓ | ✓ |
| E | Distortion in hook bolt | - | - | ✓ |
| F | Remove locking screw – check for damage and clean thread | - | - | ✓ |

**Table 2**

## Screw Replacement:

- Open clamp as wide as possible
- Knock out pin in handle
- Rotate screw until fully disengaged
- Remove old nuts by pushing through the clamp arms. Remove and clean spacer tubes.
- Fit new nuts with existing spacer tubes.
- Fit new screwed bar ensuring that entry into both nuts occurs simultaneously
- Rotate screw until the handle can be fitted with new lock pin
- Close clamp in normal manner.

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Columbus McKinnon has a history of over 150 years and is a world leader in lifting and intelligent motion control technology. The innovative portfolio of high-quality brands, including Stahl CraneSystems, Magnetek, Pfaff-silberblau, Duff-Norton, Yale, Dorner, CM and montratec addresses the needs of our customers by enhancing safety and promoting growth and efficiency. Experience, expertise and innovation combined with a deep understanding of user needs are the formula for success that has long underpinned our portfolio of hoists, material handling equipment and lifting accessories. Columbus McKinnon is a global organization headquartered in Charlotte, USA (North Carolina). Its global presence includes offices and manufacturing facilities in North America, Latin America, Europe, Africa and Asia.

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