

# Camlok<sup>®</sup>

TURNING DRUM GRABS

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## DBT300 DRUM GRAB

WLL 300 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.

## DA/DAF Drum grab

Model	WLL kg	Jaw capacity mm	Weight kg
DBT300	300	400-600	83

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 DBT drum grab with tipping device has been designed for the transportation of drums. It is specifically designed to turn over and empty contents from the drum. In order to tip the drums easily, they must be picked up at the correct centre of gravity.

## Fitting:

- Check that the drum is free from grease, standing water, oil, scale and is not coated with paint or film.
- Adjust the feet so that the pivoting point of the jaw aligns with the centre of gravity of the drum – this will make the tipping operation easier
- Lower the grab onto the floor and lift the latch handle. Now lift the grab until the latch passes the latching pin/bolt
- Lift the grab slowly until the round rubber line jaws locate onto the drum and lift again smoothly.
- DO NOT hold any part of the grab whilst lifting the drum
- If the drum does require repositioning, lower the grab until the drum seats onto the floor

## Tipping:

- Release the spring-loaded plunger from the locking plate
- Standing on the handle side of the grab, pull the handles away from the grab to initiate the turn
- When rotated through to the correct position, use the plunger to lock the drum into position.
- Take care if pouring liquid out as not having the locking plunger engaged will allow the drum to spin quickly as the liquid moves towards the top of the drum

**Transport:**

- Ensure the drum remains vertical as it lifts off the floor.
- Check for obstacles prior to lift. Lift slowly and smoothly at all times.
- Lifting slings must be vertical at all times.
- Always keep clear of the area below and surrounding the load while lifting and transporting as the plate may kick or swing as it lifts from the floor.
- Minimise the danger area by moving drums as close to the ground as possible.
- Take precautions to stop the drum from swinging.

	Check	Daily	Weekly	3 Months
A	Smooth operation	✓	✓	✓
B	Welds for cracks	✓	✓	✓
C	Damage to lifting jaws and rubber	✓	✓	✓
D	Obvious signs of damage	✓	✓	✓
E	Clean rubber lightly with some	-	✓	✓
F	Lubricate all moving parts with a soft grease	-	✓	✓
G	Fasteners for integrity & tightness	-	✓	✓
H	Check latch operation and ensure free to rotate	-	✓	✓
I	Check plunger operation and engagement	-	✓	✓

Table 2

**Release:**

- Place the drum down gently
- As the drum hits the floor continue to lower until the latch travels past its engagement pin
- Lifting the grab up will now engage the latch and allow the grab to be lifted up and away from the drum

**Testing/Service:**

All Camlok lifting grabs are tested before sale to a proof load of twice the working load limit. Any clamp that has been repaired must be tested to this load before re-entering service.

**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.

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## COLUMBUS MCKINNON

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, Dornier, 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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