



## TRU GRAB

WLL 100 - 4,000 KG (PER PIECE)

## TPR GRAB

WLL 500 - 3,000 KG (PER PIECE)

EN- OPERATING MANUAL  
(ALSO APPLICABLE FOR SPECIAL VERSIONS)

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**CMCO**  
INTELLIGENT MOTION  
Columbus McKinnon

### 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 them 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.

### TRU & TPR Grab

Model	WLL kg	Jaw capacity Z mm	Weight kg
TRU100	100	50-150	3.9
TRU500	500	35-200	13.6
TRU1000	1000	35-200	13.6
TRU1500	1500	80-300	27.0
TRU3000	3000	80-300	49.0
TRU4000	4000	200-600	208.0
TPR500	500	0-200	15
TPR1500	1500	0-300	24
TPR3000	3000	0-300	47

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 TRU roundstock grab picks up roundstock and pipe material up to 600mm in diameter quickly and safely. The roundstock grab is used for safely transporting horizontal round material, bundles of round material, pipes and other loads with symmetrical rotation. Grabs with (optional) protective lining are particularly suitable for loads with sensitive surfaces such as e.g. carpet or paper reels.

The TPR steel grab is designed for transport of girders, profile steel, etc. It boasts a large jaw capacity, which makes it useful for various flange widths.

### Fitting:

- Check that the product is free from grease, standing water, oil, scale and is not coated with paint or film.
- Position the grab over the center of the load.
- Lower the grab onto the load and continue to lower until the hoisting sling is slack, this will release the latch or if the product has a manual latch lower the grab onto the load and lift the latch handle.
- Hoist up to grip the load. DO NOT hold any part of the grab whilst lifting or lowering.
- If the grab requires repositioning lower the hoisting sling until slack. This will re-engage the latch
- Take care not to damage the lifting surfaces.
- Check correct fitting and position before lifting.
- Check chain sling for twisting.

### Lifting & Transport:

- Never lift more than one load at a time.
- For short roundstock/girder, a single clamp can be used. For long products two clamps and a lifting beam must be used.
- If the Hook is too big, use a master link and a drop chain fitted to a clamp with a chain link.

**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 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 there may be kicking or swinging as it is lifted from the floor.
- Minimise the danger area by moving as close to the ground as possible.
- Take precautions to stop the load from swinging.
- Loads weighing the maximum working load limit may be lifted and turned through 180° in the plane of the clamp.
- The materials shall only be lifted vertically.

**Release:**

- Place loads down gently. Fast lowering may release the clamp.
- Continue to lower until the lifting sling is slack. This will engage the latch.
- Take care when lowering that the load will be stable when it is released from the grab.
- Take care when lowering that the grab has sufficient room to open completely.
- Push the latch down and lift the grab again to remove it.
- 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 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 bolt is secured with a nylon nut. DO NOT use any other grade. For maintenance, use heat to loosen locking compound (up to 80°C). Always keep a record of inspections and repairs.

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

	Check	Daily	Weekly	3 Months
A	Smooth operation	✓	✓	✓
B	Welds for cracks	✓	✓	✓
C	Distortion in the shell plates	✓	✓	✓
D	Obvious signs of damage	✓	✓	✓
E	Clean teeth, remove all grit, dirt & mud	-	✓	✓
F	Lubricate all moving parts with a soft grease	-	✓	✓
G	Fasteners for integrity & tightness	-	-	✓
H	Distortion in jaw bolt, internal links & spring	-	-	✓
I	Jaw & pad wear	-	-	✓
J	Locking cam handle for wear	-	-	✓
K	Spring tension	-	-	✓

Table 2

**Check the latch for any faults:**

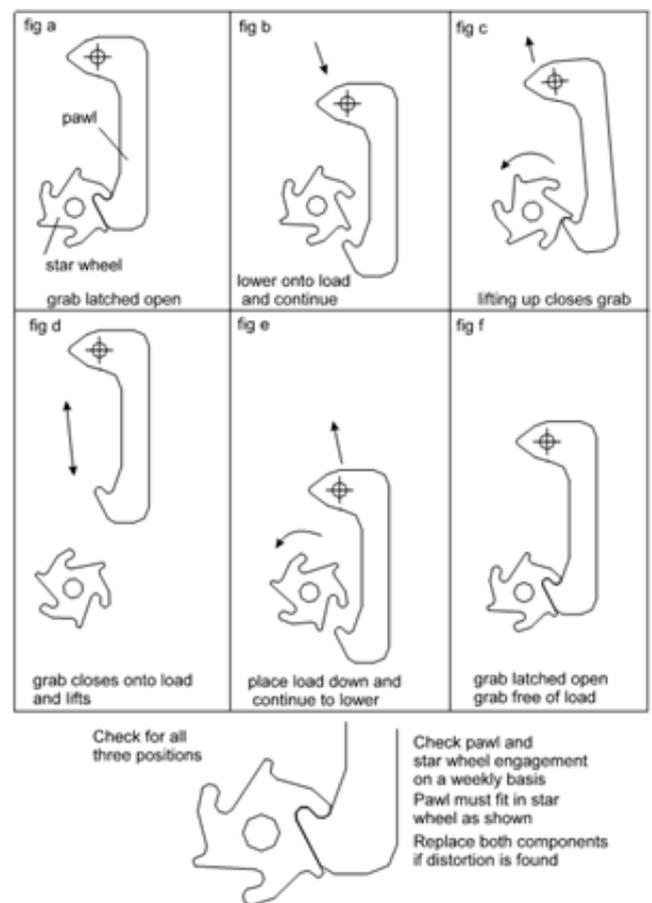


Figure 1 - How to check the latch for faults

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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, Dörner, 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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