

Camlok®

BOARD CLAMPS



TPZ BOARD CLAMP

WLL 20 – 750 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.

TPZ Board clamp

Model	WLL kg	Jaw capacity Z mm	Weight kg
TPZ400	20-400	5-50	8
TPZ400L	20-400	50-100	9
TPZ750	40-750	5-60	12
TPZ750L	40-750	50-120	14

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

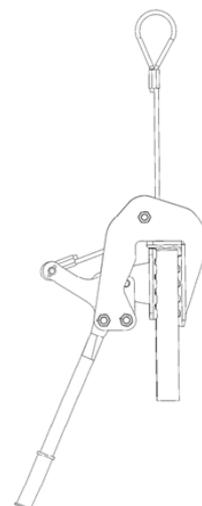
NEVER lower fast, **ALWAYS** lift and lower gently.

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

TPZ board clamps offer a simple and effective way to vertically lift and transport a variety of materials such as wood, MDF, plasterboard, stone, and plastics. The clamp has been designed with large rubber pads to minimize damage to loads and the handle enables the operator to guide the load easily during operation.



Fitting:

- Check that the plate is free from grease, standing water, oil, scale and is not coated with paint or film.
- Check the weight of the clamp and ensure the lifting sling is slack.
- Position the board clamp suspended in the suspension (e.g. hook, shackle, etc.) over the load to be picked up in such a way that it is suspended perpendicularly above the assumed load center of gravity.
- Lower it until it can be raised on the handle in order to unload the rope. As a consequence, the clamping jaw opens.
- If this is not the case, the board clamp can be easily opened by pulling on the handle section of the clamping jaw. Place the load lifting attachment in this condition onto the load.
- Take care not to damage the lifting surfaces.
- Check correct fitting and position before lifting.
- Check chain sling for twisting.

Lifting & Transport:

- By lifting the suspension (e.g. hook, shackle, etc.), the rope is tensioned and the clamping jaw safely grips the load.
- 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 the plate may kick or swing as it lifts from the floor.
- Minimise the danger area by moving plates as close to the ground as possible.
- Take precautions to stop the load from swinging.
- The maximum chain sling angle, shown in following, must not exceed 15°- 90°

Release:

- Place loads down gently. Fast lowering may release the clamp.
- To remove the board clamp from the load you need to lower the until the rope is completely unloaded, the clamping jaw can be opened and the load lifting attachment is free.

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.

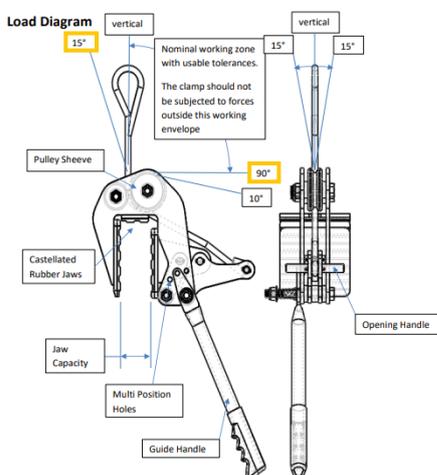
Care and Maintenance:

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.

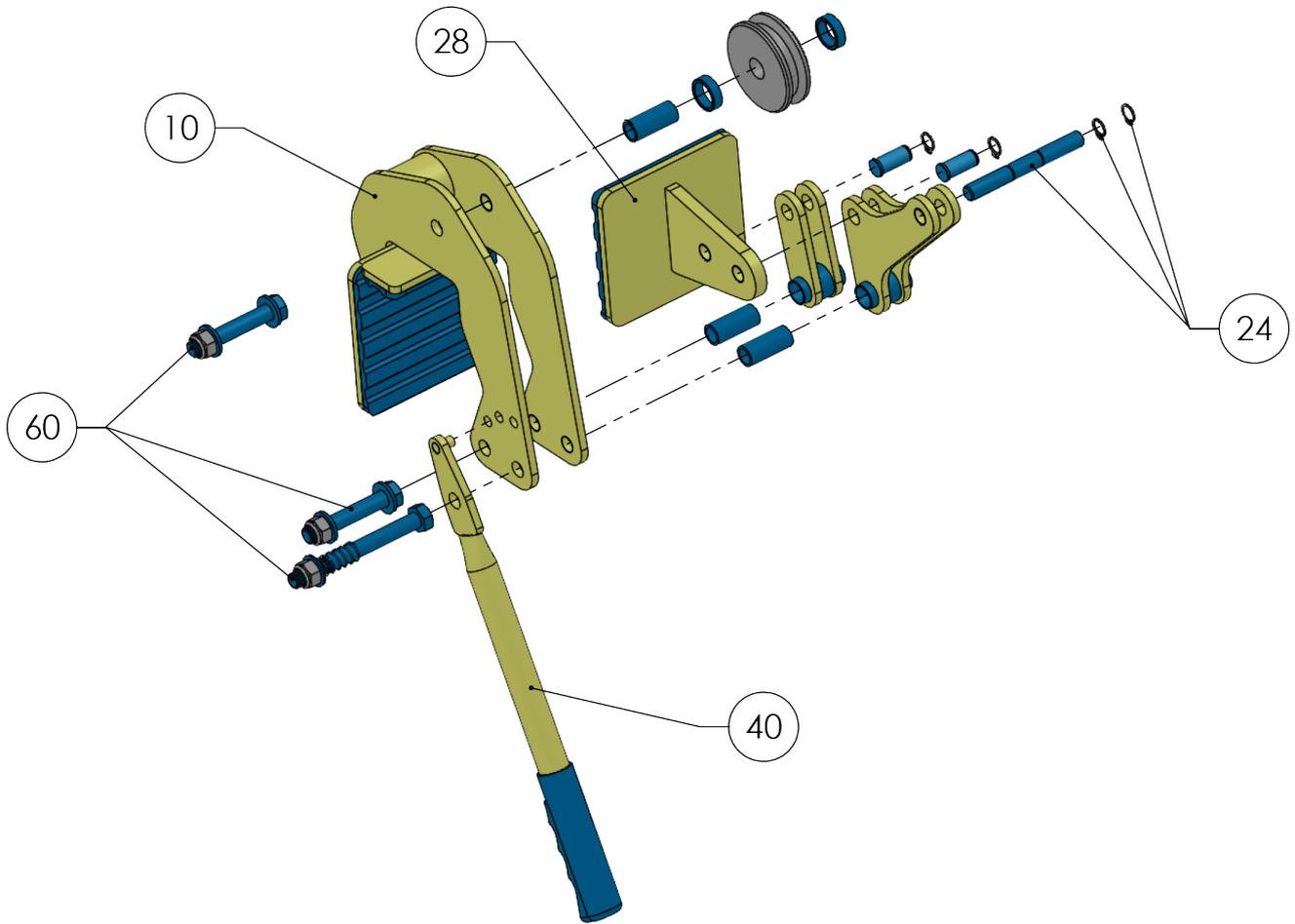
	Check	Daily	Weekly	3 Months
A	Smooth operation of jaw	✓	✓	✓
B	Check rubber pads for damage and foreign bodies	✓	✓	✓
C	Distortion in the shell plates	✓	✓	✓
D	Obvious signs of damage	✓	✓	✓
F	Lubricate all moving parts with a soft grease	-	✓	✓
G	Fasteners for integrity & tightness	-	✓	✓
J	Check chain roller spins freely	-	-	✓
K	Spring compression on handle	-	-	✓

Table 2



The clamp can be used to lift board from the horizontal up to the vertical through 90° only

TPZ Spares Breakdown:



REF No.	TPZ400/50	TPZ400/100	TPZ750/60	DESCRIPTION
10	N59000398	TBA	192092503	Shell Assembly
24		N59000405		Handle Bar C/w Circlips
28	N59000401		TBA	Jaw Assembly
31	N59000400	N4300005139	TBA	Wire Rope / Chain Assy
40		N59000399		Handle Assembly
60	N59000404		TBA	Shell Bolts C/w Nuts

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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, 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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