Camlok®

PILE PITCHING CLAMP



CP CLAMP

WLL 2,000 - 5,000 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.

CP Clamp

Model	WLL kg	Jaw width mm	Throat depth mm	Pin diameter mm	Weight Kg
CP2	2000	20	228	20	19
CP3	3000	26	228	30	22
CP5	5000	35	228	30	28

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 CP pile pitching clamps are specifically designed for pitching sheet steel piling. These clamps come fitted with a 15 meter length of rope which allows the clamp to be released from the ground. The clamp comes fitted as standard with a shackle.

Fitting:

- Check that the pile 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.
- Pull the locking pin to free the locking lever, then turn the lever clockwise to lock the jaws open.
- Position the clamp on to the sheet pile with the lever raised in the open position.
- Take care not to damage the lifting surfaces.
- Position the clamp on the edge of the plate over the centre of gravity and to the full depth of the mouth.
- Place the fixed jaw onto the plate and turn the lever to the 'LOCK' position ensuring that the locking pin is properly engaged.
- Check correct fitting and position before lifting.
- Check chain sling for twisting.

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. As it is difficult to determine the force required use a load indicator to ensure not to exceed the weight limit.

Lifting & Transport:

- Check position and fitting of clamp as force 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 pile while lifting and transporting as the pile may kick or swing as it lifts from the floor.
- Minimise the danger area by moving the pile as close to the ground as possible.
- Take precautions to stop the pile from swinging.

Release:

- Place loads down gently. Fast lowering may release the clamp.
- DO NOT lower if the locking lever is not in the 'LOCK' position.
- The clamp can only be released when the entire load is removed.
- Pull the locking pin to free the locking lever.
- The lifting sling must have sufficient slack to allow the hookring to withdraw into the clamp.
- Push the hookring down and into the clamp shell while turning the locking lever.
- 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	Smooth operation	✓	✓	✓
B	Welds for cracks	✓	✓	✓
C	Distortion in the main body	✓	✓	✓
D	Check pin engages smoothly	✓	✓	✓
E	Lubricate all moving parts with a soft grease	-	✓	✓
F	Fasteners for integrity & tightness	-	✓	✓
G	Distortion in lever arms	-	-	✓
H	Check spring compression	-	-	✓
I	Check shackle for cracks and distortion	-	-	✓

Table 2

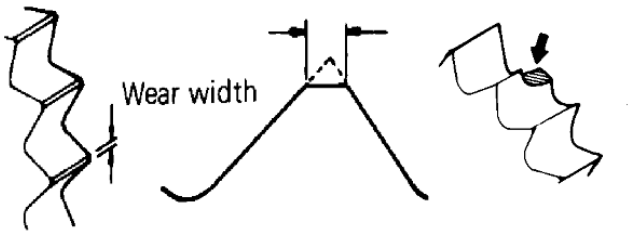


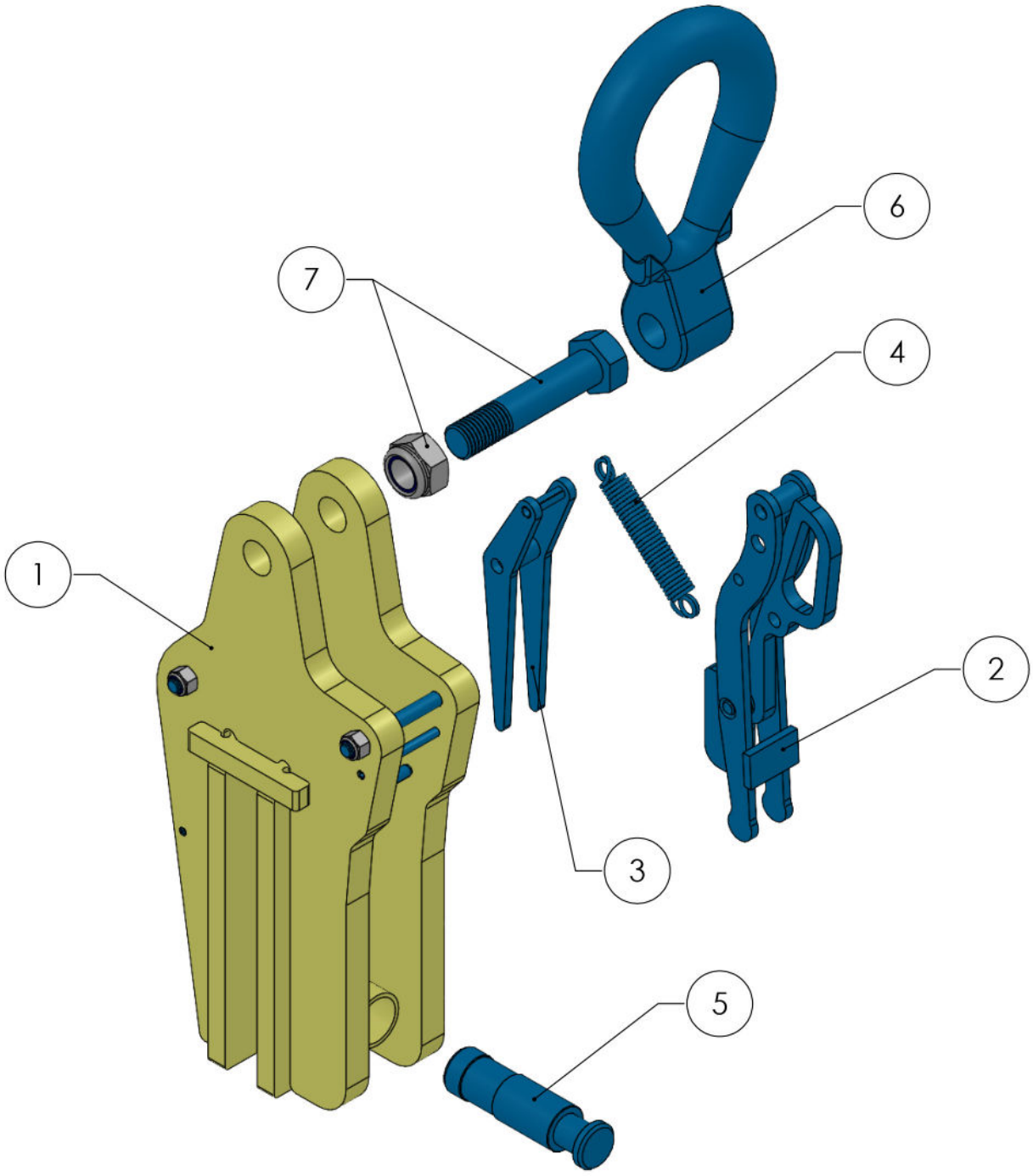
Figure 1 - The maximum wear width as shown above should not exceed the dimensions shown in the table below.

CP2	CP3	CP5
0.8-1.0 mm	0.8-1.0 mm	1.0-1.2 mm

Table 3

Note: Chipped teeth are only acceptable if the chip is less than half the width of the tooth and the adjoining teeth are undamaged.

CP Spares Breakdown:



REF	CP1500	CP3N	CP5.5 / CP6	Description
1	TBA	TBA	TBA	Shell Assembly
2	N59000416	N59000428	N59000440	Cam & Lever Assy
3	N590000421	N59000	N59000420	Spring Lever Assy
4		N59000414		Spring
5	N59000415	N59000427	N59000439	Load Pin
6	N59000411	N59000423	N59000435	Shackle
7	N59000419	N59000431	N59000443	Shackle Bolt C/w Nut
8		N59000412		Rope C/w Shackle

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