

# Camlok®

PILE PULLING CLAMP

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## PP CLAMP

WLL 3,000 - 8,000 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.

**PP Clamp**

Model	WLL kg	Jaw capacity Z mm	Throat depth mm	Weight Kg
PP3	3000	0-16	147	12
PP8	8000	0-30	194	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 PP pile pulling clamps are designed to pull out driven piles or trench shielding. The clamps have a narrow opening and a deep slot to ensure that the pile is gripped firmly. It is extremely difficult to determine the forces required to pull out driven piles, so it is recommended that a load indicator is used to ensure the WLL of the clamp is not exceeded. The PP clamp is supplied as standard with a double locking mechanism to ensure that the clamp remains locked on and cannot become unlocked during the extraction of the pile.

**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.
- 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 hooking to withdraw into the clamp.
- Push the hooking 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 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

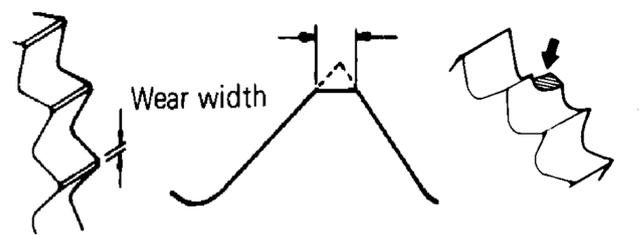


Figure 1 - The maximum wear width as shown above should not exceed the dimensions shown in the table below.

PP3	PP8
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.

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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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