



- **Non-marking plate clamps**

LJ

WLL 500 - 1500kgs

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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.

The Camlok LJ non-marking plate clamps are designed for lifting, turning and transporting of structural steel plates, stainless steel, iron, timber and aluminium without marking, damaging or leaving indentations on the surface. They can also be used for plates with extremely hard surfaces.

These clamps are available with two different types of pads. There is the option of rubber or leather lined pads dependant on the surface of the material.

Model	WLL kgs	Plate thickness mm	Weight kgs
LJ 500	25 - 500	0 - 10	3
LJ 1500	180 -1500	0 - 20	13

TYPE AND QUALITY OF PLATE

The Camlok LJ series of plate clamps can be used on all structural steel plates, stainless steel, iron and aluminium. The plate must have sufficient surface roughness for efficient grip. The plate must be flat and parallel. The clamp may not be suitable for lifting highly polished plates where the polishing process may leave behind lubricating compounds. For other materials or special operational conditions (high humidity, salty, caustic, alkaline, cold or elevated temperatures) consult your supplier or the manufacture before use.

For efficient grip, the weight of the plate MUST exceed the value for minimum load stamped on the side of the clamp.

FITTING

- Check that the plate is free from grease, standing water, oil, scale and is not coated with paint or film.
- For long plates use 2 clamps and a lifting beam.
- The LJ clamp is not suitable for use with a 2 leg chain sling.
- Take the weight of the clamp. Lifting sling must be slack.
- Turn the locking lever clockwise to lock the jaws open.
- Position the clamp on the edge of the plate over the centre of gravity and to the full depth of the mouth.
- Take care not to damage the lifting surfaces.
- Place the fixed jaw onto the plate and turn the lever anticlockwise to the 'LOCK' position.
- Check correct fitting and position before lifting.

LIFTING

- Check position and fitting of clamp as weight is applied.
- Lift slowly and smoothly at all times.
- When lifting from horizontal or lowering with the moving jaw on top of the plate the fixed pad may be seen to tilt. This can be avoided by using the fixed pad on top of the plate.
- Take extra care at the transition from horizontal to vertical lifting.
- Lifting slings must be vertical at all times
- Minimise side loading.
- Take precautions to stop the load from swinging.

TRANSPORTING

- Take precautions when transporting loads that the plate will not collide with any objects.
- Minimise load swing.
- Minimise the danger area by moving plates as close to the ground as possible

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.
- 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.

GENERAL

- *ALWAYS* check the operation of your Camlok lifting clamp before use.
- *NEVER* use a worn or damaged Camlok lifting clamp.
- *NEVER* lift more than one plate at a time.
- *NEVER* exceed the maximum working load limit.
- *NEVER* leave a suspended load unattended, or place a plate down on edge for a long period of time.
- *NEVER* fast lower, always gently lift and lower.
- *NEVER* force the locking lever.
- *NEVER* stand under a suspended load and if guiding a load by hand always place the palm of the hand on top of the load.
- *NEVER* grip the load with fingers on the underside.
- *ALWAYS* stand clear when lifting or lowering.
- *ALWAYS* keep a record of inspections and repairs.

TESTING

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

- DE-GREASE clamps regularly, take care not to contaminate the jaw surfaces.
- REMOVE all grit, dirt and mud on the jaws by brushing with a stiff brush.
- LUBRICATE all moving parts with a soft grease, take care not to contaminate the jaw surfaces.
- INSPECT every 1-4 weeks, depending on use.
- CHECK for contamination of the jaw surfaces.
- CHECK integrity of the friction material bond and tearing of the material.
- CHECK for wear in the cam faces, hooking and chain.
- CHECK for distortion in the shell plates, jaw bolt, internal links and the spring.
- CHECK any welds for cracks.
- CHECK for smooth operation.
- CHECK fasteners for integrity and tightness

- DO NOT use solvents to clean the jaw surfaces as this may effect the bond between the surface material and the metal of the jaw. Contaminated jaws MUST be replaced with genuine Camlok spare parts. Please consult your supplier.

All fasteners fitted to Camlok clamps are retained with Loctite 270 Thread Locking compound DO NOT use any other grade

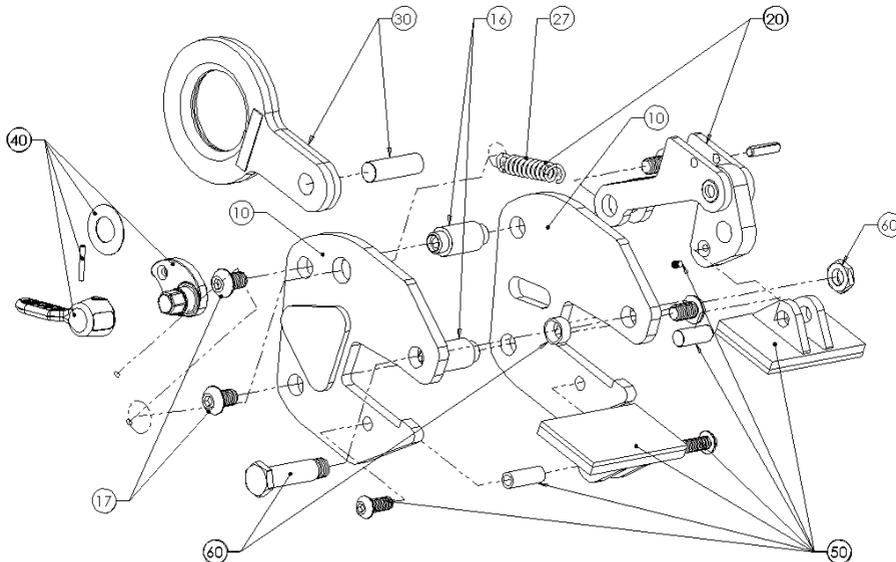
For guidance contact the manufacturer or visit www.camlok.co.uk resource library.

SPARE PARTS

No specialist tools are required to repair clamps. Heat may be required to release the bonding compound on some screws.

After repair use STUDLOCK on all screws removed.

Always quote clamp serial number, part description and model when ordering spares.



Item	Description	LJ-500	LJ-1500
10	Shell plates (pair)	N4300008467	N4300002457
16	Spacer pins (set of 2)	N4300001263	N4300001274
17	Shell screws (set of 4)	N4300001264	N4300001275
20	Internal assembly inc. spring	N59000269	N59000281
27	Spring only	N59210362	N4300001073
30	Hook ring	N4300001267	N4300008082
	Hook ring pin	N4300008464	N59000278
40	Cam assembly	N4300001260	N4300001268
50	Pad assembly and screws (leather)	N4300008466	N4300002454
50	Pad assembly and screws (rubber)	N4300002482	N59000283
60	Jaw bolt assembly	N59000268	N59000280