



GROUNDWORKS

QUICK RELEASE SHACKLE

User Guide



GENERATION
HIRE & SALE

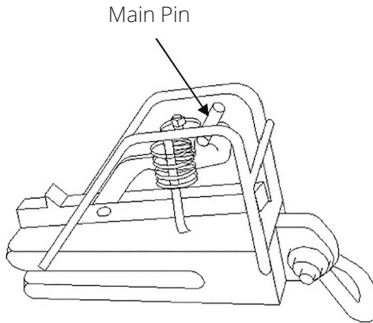
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Camlok Quick Release Shackle

This booklet is intended to provide basic information for users of Generation's Camlok Quick Release Shackle, and draw the clients attention to the practical aspects of using this. In particular, the clients attention is drawn to the size and weight of the Camlok Quick Release Shackle and the need for planning the lifting operations involved. It is assumed that clients are familiar with general safe practices applicable to this type of work. There are 2 different sizes of Camlok Quick Release Shackle available, 2 tonne and 3 tonne.

Identification of Components



2t SHACKLES

Code: 083002
Weight: 19kg.
SWL: 20kN.

3t SHACKLES

Code: 083003
Weight: 23kg
SWL: 30kN

Check the QRS has been supplied with a current Report of Thorough Examination and check its expiry date.

Usage

The Camlok Quick Release Shackle has been developed for lifting single steel sheet piles into position, and when the pile is held securely the shackle can be released safely from the ground.

The Camlok Quick Release Shackle should not be used for any other purpose. The S.W.L. which is stamped on the body of the shackle, and also referred to in the documentation supplied with the QRS, indicates the maximum safe load the shackle is intended to sustain as the piles are lifted into position.

Prior to Use

Check Trench Sheets for suitability for use with the Shackle.

The lifting hole size in the pile should be 25mm diameter or larger. The hole centre should not be less than 75mm from the top and not more than 150mm. Ensure that there is enough metal above the hole to prevent the metal tearing under the load and is not distorted to an extent that it will interfere with the safe operation of the shackle.

Method of Operation

1. Tie a length of soft rope to the pin lever on the Camlok Quick Release Shackle. The rope should be no longer than is required to control the operation of the release mechanism. Do NOT use a continuous loop as this will become snagged.
2. Before positioning the lifting shackle, it is necessary to retract the main pin. Pull the main pin lever until the trip mechanism holds the main pin in it's retracted position.
3. Separate the sheet piles on the stack to enable the main body of the shackle to be slid over the pile head. With the main pin retracted slide the fork of the shackle over the pile head with the pin in the throat of the shackle.
4. With the main pin mechanism over the pile lifting hole close the main pin lever mechanism. If the main pin does not locate directly through the hole move the main shackle body until the pin goes through the pile hole and into the main shackle body on the underside.
5. Take the weight of the pile with the crane and lift until the shackle is 750-1000mm above ground. OPERATIVES SHOULD KEEP WELL CLEAR . Block the pile up and lower onto the blocks which must be amply strong enough to take the weight of the pile. With no load on the shackle, check that the main pin has gone right through the lifting hole and into the body of the shackle on the underside. It is not safe to lift unless the pin is right through.
6. With the main pin properly located the pile can then be lifted into position (in guides or similar). OPERATIVES NOT INVOLVED WITH CONTROL OF THE RELEASE MECHANISM SHOULD KEEP WELL CLEAR UNTIL THE PILE IS SECURED.
7. To release the shackle after pitching/threading is complete, simply pull on the rope connected to the main pin lever. If there is a tendency to jam then take the weight of the shackle on the excavator / crane and pull again.

IT IS ESSENTIAL TO A VOID THE PULL ROPE SNAGGING AND CAUSING PREMATURE RELEASE OF THE LOAD. TIEING KNOTS IN THE ROPE, MAKING A LOOP IN THE END OR LEAVING IT FAR TOO LONG TO TRAIL ALONG GROUND OR OVER OBSTACLES, COULD CAUSE PREMATURE RELEASE OF THE LOAD.

Important Checks to be Carried Out During Use

1. Ensure that the main pin has gone through both sides of the shackle body.
2. Ensure there is enough metal above sling hole to prevent tear out.
3. Keep the main pin lever mechanism well lubricated.
4. Care should be taken to avoid the pull ropes getting snagged.
5. Do not use the shackle for pulling or extracting.
6. Ensure the pile is adequately supported before releasing the shackle

THE QUICK RELEASE SHACKLE SHOULD NOT BE MODIFIED/ ALTERED AS THIS WILL INVALIDATE THE INSPECTION TEST CERTIFICATE.

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