

**USER MANUAL**  
**VERTICAL**  
**DCP RELEASE SHACKLE**



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## USER MANUAL VERTICAL DCP RELEASE SHACKLE:

### Use:

With the pin retracted, slide the shackle over the head of the sheet pile until the pile is approximately over the lifting hole. Press the ratchet pawl down with the thumb of one hand and turn the aluminium nut of the shackle with the other hand.

Turning in a clockwise direction will propel the pin through the lifting hole. The indicator bar should finish flush with the aluminium nut which means that the pin is fully entered into the opposite side of the shackle.

Two soft ropes should be attached to the small D-shackles at each end of the toothed belt.

The pile may then be pitched. It is prudent to tie the ends of the shackle release ropes to the bottom of the pile ( pile t header when in use) to prevent the ropes becoming snagged or being caught by the wind and become inaccessible.

After pitching the pile the shackle is released by pulling the release ropes first one way then the other five or six times. The ratchet action withdraws the pin. The stroke of the pull is limited by the D-shackles at the end of the toothed belt. ( 450 mm maximum length).

### Safety instructions:

The shackles are suitable for lifting all steel piles up to 28 mm thick and within the safe working load ( WLL ) of the shackle.

Ensure the lifting hole is at the correct distance relative to the top of the steelwork i.e. 150 mm for a 150 mm throat depth shackle, 250 mm for a 250 mm throat depth shackle.

The lifting hole should be neatly drilled or punched and of a suitable size to suit the lift being carried out.

The safe WLL rating of any shackle is based on a purely tensile ( vertical ) load. When lifting steelwork from horizontal to vertical or visa versa, remember that the shackle becomes de-rated by 50% i.e. a 10 ton safe WLL ratchet shackle should only be loaded to a 5 ton at the start of a horizontal lift.

As with all lifting equipment, the release shackle should be inspected before each lift.

Do not use the lifting shackles for pulling or extracting.

Ensure that the main pin has gone through both sides of the shackle body.

When lifting sheet piles in pairs or individual piles weighing more than the safe WLL of the shackle it is necessary to use a pair of shackles.

The ring at the top of the sling can be hooked directly onto a standard crane hook block, D-shackle or fork anchor.

Do not modify the release shackle or any part of the lifting apparatus. Keep the burning torch well clear!

Keep the release mechanism well lubricated.

At all times you must use the right lifting equipment with the correct working load limit.

Make sure that the load which needs to be loaded, on which the shackle will be set on, is clean and has no damages and/or shows no imperfections.

Care should be taken to avoid the pull ropes getting snagged.

The angle between the two legs of the lifting strap should not exceed 90°.

A vertical release shackle must be inspected and tested every year by an authorized expert body.

Never work with an untested release shackle.

Keep your distance when lifting and never stand under the load.

Ensure that the shackles are positioned so as to balance the load when it is being lifted ( see pictures).

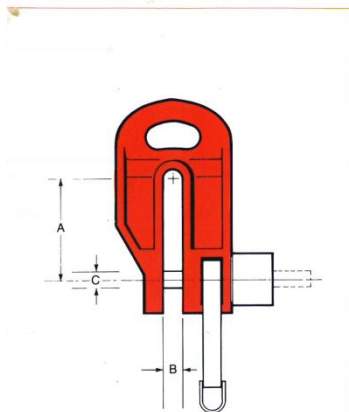


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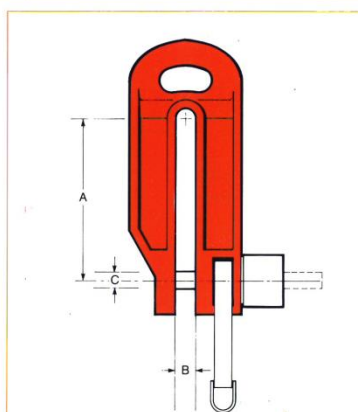
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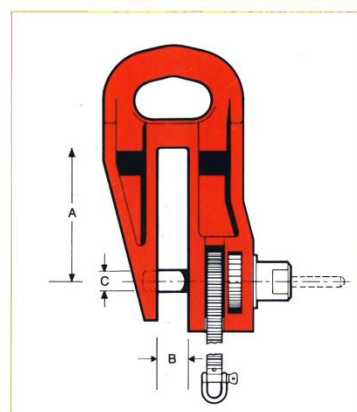
Type 150 / 3.5, 5.0, 7.5, 10 Tonnes

Type	Dimensions			S.W.L. tonnes	Weight k.g.
	A	B	C		
150/3.5T	150	30	20	3.5	14
150/5.0T	150	30	24	5.0	14
150/7.5T	150	30	27	7.5	14
150/10T	150	30	35	10.0	14



Type 250 / 3.5, 5.0, 7.5, 10 Tonnes

Type	Dimensions			S.W.L. tonnes	Weight k.g.
	A	B	C		
250/3.5T	250	30	20	3.5	19
250/5.0T	250	30	24	5.0	19
250/7.5T	250	30	27	7.5	19
250/10T	250	30	35	10.0	19

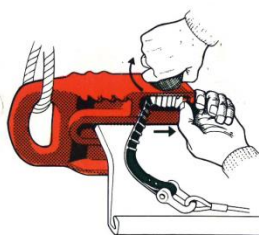


Type 250 / 40 Tonnes

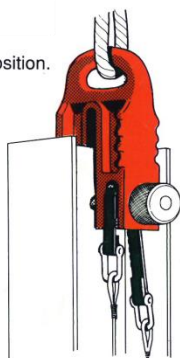
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	A	B	C		
250/40T	250	50	60	40	60

### METHOD OF OPERATION

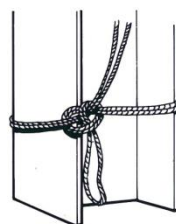
1. Insert pin.



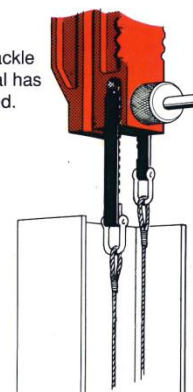
2. Hoist to position.



2a. Tie release ropes



3. Release shackle after material has been secured.



1. With the pin retracted, slide the shackle over the material to be lifted until the pin is approximately over the lifting hole. Press the ratchet pawl down with thumb of one hand and turn the release nut of the shackle with the other hand. Continue turning in a clockwise direction until the pin has gone through the hole in the member to be lifted and into the opposite side of the shackle. The indicator bar should not protrude from the face of the release nut.

2. Two soft ropes should be attached to the 'D' shackles at each end of the toothed belt. The material may then be lifted. It is prudent to tie the ends of the shackle release ropes to the bottom of the member (2a) to prevent the ropes from becoming snagged or being caught in the wind and becoming inaccessible.

3. After lifting the material, the shackle is released by pulling the release ropes first one way and then the other, five or six times. The ratchet action withdraws the pin. The stroke of the pull is limited by the 'D' shackles at each end of the toothed belt (450mm maximum length).



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