

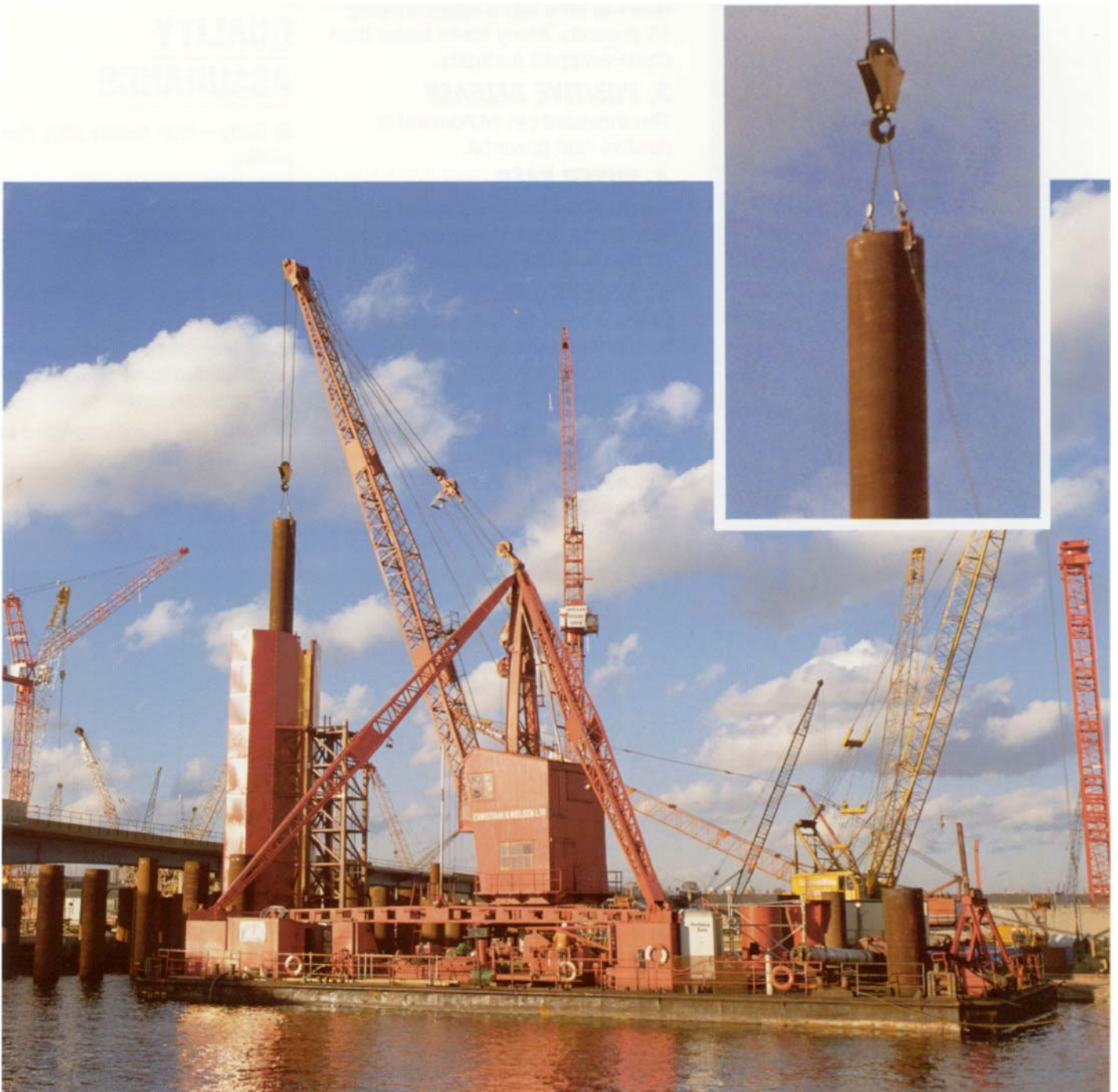
EURO



R.R.S.

DAWSON RATCHET RELEASE SHACKLE

FOR FASTER & SAFER PILE PITCHING





The Ratchet Release Shackle is designed to enable steel, timber or concrete elements to be lifted into position, any height above ground level and for the shackle to be disconnected safely and efficiently from a remote position. The purpose is to save the time taken and avoid the material costs of providing access for a man to disconnect the shackle. Achieving this result makes the work faster, more economical and inherently safe.

ADVANTAGES

1. FAST HOOK UP

Shackles straight on to holes or lugs provided. No need to get underneath to wrap chains.

2. FAST RELEASE

Release time takes approximately 15 seconds. Many times faster than chain-wrapped methods.

3. POSITIVE RELEASE

The threaded pin withdrawal is positive and powerful.

4. SUPER SAFE

Ratchet mechanism ensures a fail-safe mode. Release action cannot be simulated by accident.

5. SAFETY CHECK

Shackle threaded pin is extended through the back of the shackle as an 'indicator bar'. This gives a tell-tale indication of the pin position.

● Stiff web section gives high strength/weight ratio on main steel casting.

● Top ring provides two dimensional flexible joint.

● Ratchet mechanism ensures failsafe mode.

● Minimum components for reliability and ease of maintenance.

QUALITY ASSURANCE

● Body – high quality alloy steel casting.

Inspection procedures:

– 20% batch x-ray

– 100% ultrasonic inspection

– 100% MPI

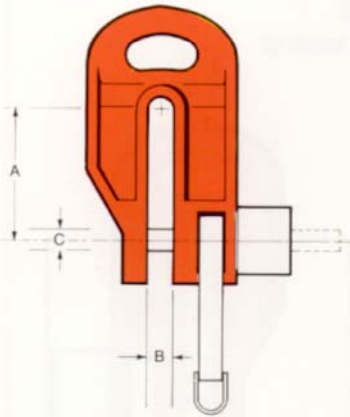
● Shear pin – high quality alloy steel.

● All shackles are independently proof loaded to twice safe working load and certified.

● Prototype shackles tested to five times safe working load.

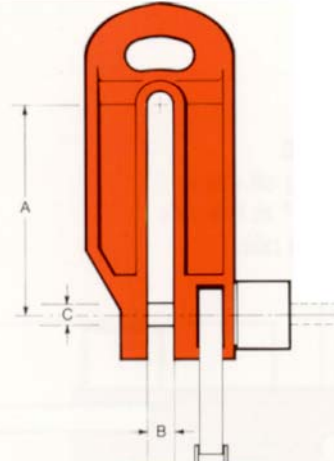
**EVERY SHACKLE IS TESTED
TO DOUBLE ITS SAFE WORKING LOAD**





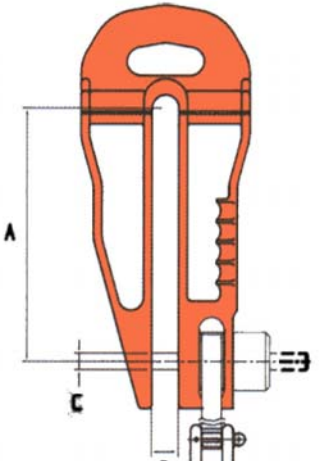
MODEL 150

Ref	Dimensions			S.W.L. tonnes <i>U.S. short T</i>	Weight k.g. <i>lbs</i>
	A	B	C		
150/3.5T	150	30	20	3.5	14
<i>inch units</i>	5.9	1.18	0.79	3.87	31
150/5.0T	150	30	24	5.0	14
<i>inch units</i>	5.9	1.18	0.94	5.51	31
150/7.5T	150	30	27	7.5	14
<i>inch units</i>	5.9	1.18	1.06	8.26	31
150/10T	150	30	35	10.0	15
<i>inch units</i>	5.9	1.18	1.38	11.02	33



MODEL 250

Ref	Dimensions			S.W.L. tonnes <i>U.S. short T</i>	Weight k.g. <i>lbs</i>
	A	B	C		
250/3.5T	250	30	20	3.5	18
<i>inch units</i>	9.84	1.18	0.79	3.87	40
250/5.0T	250	30	24	5.0	18
<i>inch units</i>	9.84	1.18	0.94	5.51	40
250/7.5T	250	30	27	7.5	18
<i>inch units</i>	9.84	1.18	1.06	8.26	40
250/10T	250	30	35	10.0	18
<i>inch units</i>	9.84	1.18	1.38	11.02	40
250/40T	250	50	60	40	67
<i>inch units</i>	9.84	1.97	2.39	44.08	148

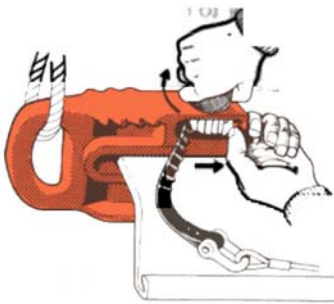


MODEL 300

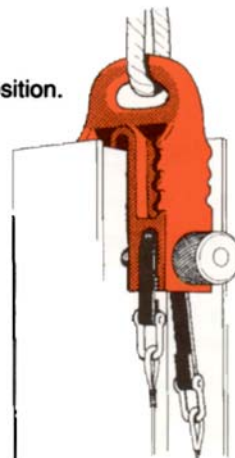
Ref	Dimensions			S.W.L. tonnes <i>U.S. short T</i>	Weight k.g. <i>lbs</i>
	A	B	C		
300/7.5T	250	30	27	7.5	23
<i>inch units</i>	12	1.18	1.06	8.26	51
300/10T	300	30	35	10.0	23
<i>inch units</i>	12	1.18	1.38	11.02	51

METHOD OF OPERATION

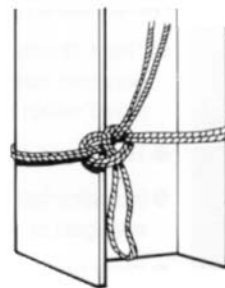
1. Insert pin.



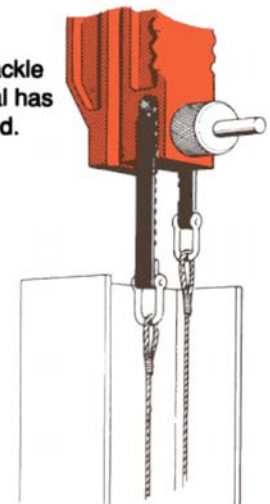
2. Hoist to position.



2a. Tie release ropes



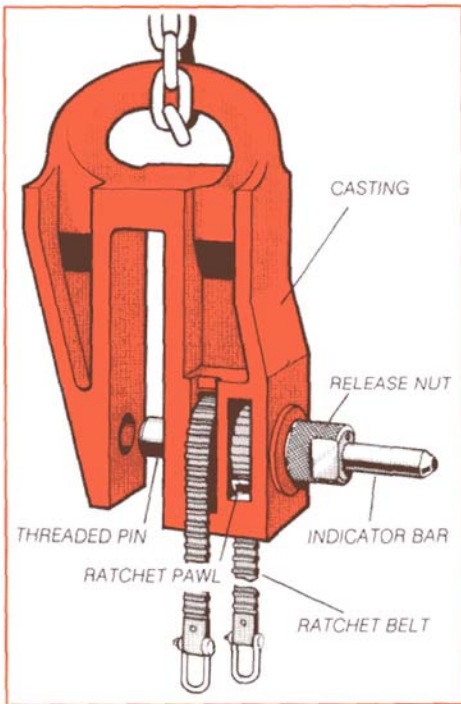
3. Release shackle after material has been secured.



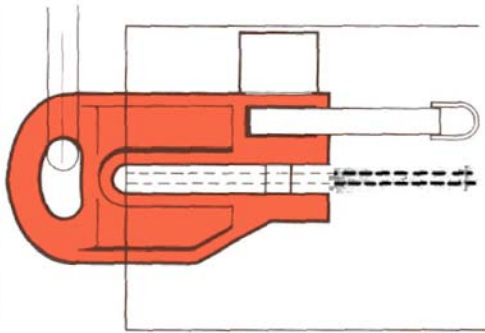
1. With the pin retracted, slide the shackle over the material to be lifted until the pin is approximately over the lifting hole. Press the ratchet pawl down with thumb of one hand and turn the release nut of the shackle with the other hand. Continue turning in a clockwise direction until the pin has 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.

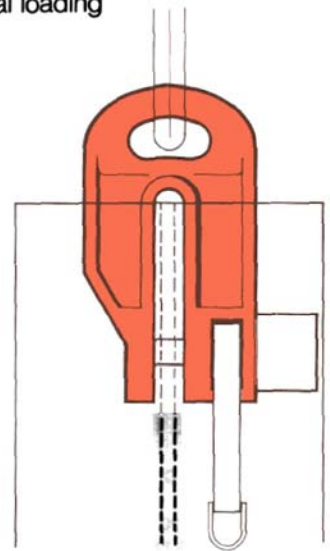
3. After lifting the material, the shackle is released by pulling the release ropes first one way and then the other, five or six times. The ratchet action withdraws the pin. The stroke of the pull is limited by the 'D' shackles at each end of the toothed belt (450mm maximum length).



SAFE
Lifting off stack
at 90° to the axis
of the pile.



SAFE
Axial loading



CE This product complies with 89/392 EEC Machinery Directive



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