

chain clamp

owners manual
operators instructions
spare parts list
safety precautions
maintenance



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Original Instructions
Rev08



EC Declaration of Conformity

EC Declaration of Conformity according to
EC Machinery Directive 2006/42/EC of the 29th May 2006, Annex IIA.

We hereby declare that the machinery/equipment described below is designed and manufactured to comply with the Essential Health and Safety Requirements of the applicable EC Directive(s) and that the required conformity assessment procedures have been carried out. This declaration ceases to be valid if alterations are made to the machinery/equipment without agreement with Dawson Construction Plant Ltd.

Category: Lifting Equipment
Description: Chain Clamp
Type: [Part Number]
Serial number: [Serial Number]

Relevant Regulations:
2006/42/EC Machinery Directive

Applied harmonised standards, in particular:
EN ISO 12100:2010 Safety of machinery

Authorised representative for compiling the technical file:
D. A. Brown - contact details as per below.

**Signature for and on behalf
of Dawson Construction
Plant Limited:**

Name:

Date:

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Under Separate cover:	
· Individual Test Certificate	
· Pre-Despatch Examination Certificate if test certificate is older than 6 months	
· EC Declaration of Conformity	

options sheet



Part Number	Chain Type	Safe Working Load
TLR360	10 mm	3.2 tonnes
4130	16 mm	8 tonnes



features

The Chain Clamp has been designed to provide a quick and simple chain lock for lifting piles. It is fast to install and fast to release.

The Chain Clamp indexes along the links of the chain and locks into place, securing the load.

- . SWL: 3200 kg for the 10 mm Chain Clamp
8000 kg for the 16 mm Chain Clamp
- . Robust high strength steel body.
- . Designed to withstand vibration - no screws or bolts.
- . Proof loaded to 2x the Safe Working Load (SWL).
- . Quick coupling and quick release from load.

Disclaimer: The Chain Clamps are designed, tested & approved for use in conjunction with Dawson EMVs to lift piles within the limits of the specified Safe Working Load, and in accordance with the instructions in this manual. Dawson accept no responsibility for use of the Chain Clamps in any other application.

method of operation



1. Confirm that the load being lifted is suitable. It must have a lifting hole of $\text{Ø}40$ mm for the 10 mm chain and $\text{Ø}62$ mm for the 16 mm chain. The lifting hole must be 250 mm (10") down from the top edge of the load.
2. Ensure that the load is within the Safe Working Load of the lifting equipment.
3. Insert the lifting chain through the lifting hole in the load. Ensure there are no twists or knots.
4. Slide the Chain Clamp along the chain by depressing the trapping pin assembly by hand and passing the Chain Clamp over the chain links.
5. When the Chain Clamp is in the desired position, release the trapping pin, locking the Chain Clamp in position.



Ensure there are a minimum of 6 chain links below the Chain Clamp when in the installed position.

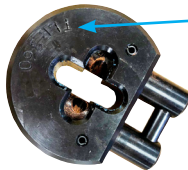


Exert several sharp pulls on the Chain Clamp to ensure the pin has returned and it has successfully clamped. If not, do not begin the lift.

Safety Notes:

Ensure the chain type is the correct size for the Chain Clamp.

Use 10 mm Chain for the 10mm Chain Clamp and use 16 mm chain for the 16 mm Chain Clamp. If in any doubt, contact Dawson Construction Plant.



This stamped number denotes the model number
TLR360 = 10 mm Chain Clamp
4130 = 16 mm Chain Clamp
See parts list page 11-12

Dawson supply Gunnebo chain. There can be dimensional variation and/or weld link protrusion from other manufacturers which will be detrimental to the functionality of the Chain Clamp. It is recommended that the chain is sourced directly from Dawson or Gunnebo.

When pile handling commences, ensure the Chain Clamp is not snagged or contacted by obstructions. It should only be in contact with the chain and the pile being handled.

cont'd - method of operation

Pile Installation

Check which way around the pile has to be lifted before inserting the lifting chain. Check whether the previous pile was pitched left- or right-handed.

Attach the Chain Clamp in accordance with the instructions on page 6.

Allow enough free chain length for the pile to rotate to vertical during the lifting process without it jamming against the underside of the EMV Clamp Body. Dawson recommend a 500 mm length of chain between the Coupler and the Chain Clamp.

If the pile jams, the chain will be overloaded and will be at risk of breaking, causing the pile to fall. This is a severe hazard to all site personnel and must be avoided at all times.

Ensure there is not an excessive length of chain between the EMV and the pile. If the top of the pile hangs too far away from the EMV Clamp when it is raised to the vertical, it will make it difficult to engage the pile in the Clamp.

The Chain Clamp should stay secured in position until the pile has been driven to the desired level. When the vibrator has stopped, and it is safe to do so, remove the Chain Clamp and lifting chain from the pile.

Pile Extraction

Attach the Chain Clamp in accordance with the instructions on page 6.

After the pile has been extracted, stand the pile upright on the ground and release the EMV Jaws. Slowly remove the EMV from the pile, ensuring that there is no snatch on the lifting chain. Then slowly lower the pile to horizontal on the ground. When the pile is at rest, it is safe to remove the Chain Clamp and lifting chain from the pile.



Under no circumstances should a pile be extracted using the chain or chain clamp to bear the load during extraction.



**Always read and understand the operators' manual for the pile driving equipment being used.
See also: Dawson's EMV manuals.**

safety check list

1. PRE-INSTALLATION CHECKS

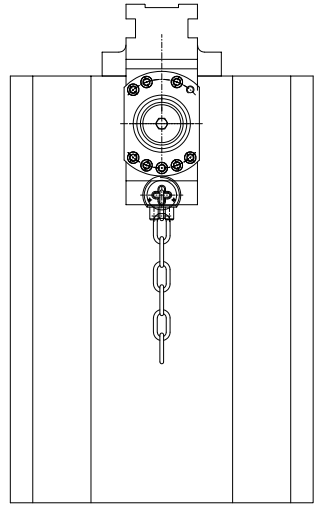
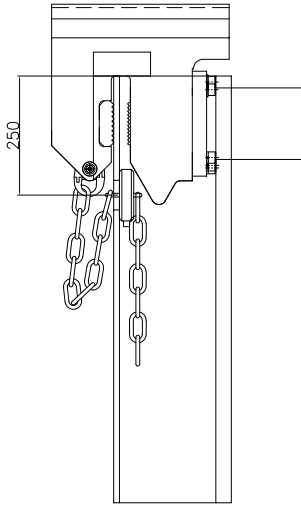
Prior to installing a Chain Clamp onto any steelwork, check the following:

- a. Establish the weight of the lift involved and check against the SWL of the equipment.
 - b. Ensure the lifting hole is at the correct distance relative to the top of the load.
2. Do not modify the Chain Clamp or any part of the lifting apparatus. Keep the burning torch well clear!
 3. Keep the mechanism well lubricated with a light oil (WD40 type).
 4. The Chain Clamp should be visually inspected before each and every lift. This is in addition to the formal inspections and maintenance points listed in this manual.
 5. Ensure appropriate Personal Protection Equipment is used, including gloves.
 6. Ensure that all appropriate laws, bye-laws and regulations are complied with.

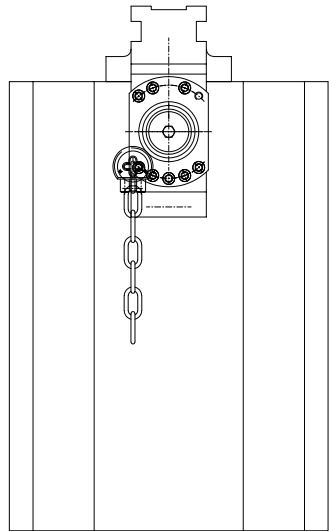
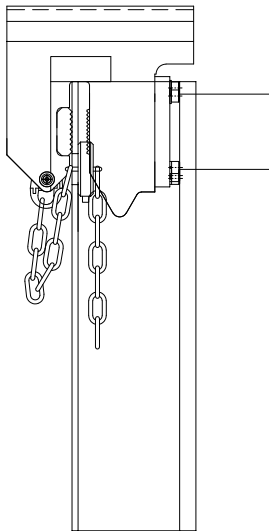


Keep all personnel out of the danger zones / fall zones at all times, unless unavoidable.

cont'd - safety check list



HOLE SET 250 mm IN PILE FROM TOP EDGE. CENTRAL IN PILE WITH CHAIN / CLAMP CLEAR OF EMV JAWS.



HOLE IN PILE NOT CENTRAL AND CHAIN / CLAMP COMPROMISED BY EMV JAWS.

training

Before allowing operators to use the Chain Clamp, it is important to ensure they have received basic training in lifting and control of heavy loads.

It is strongly recommended that the following areas are covered:

1. Basic safety in lifting operations
2. Supervision during lifting operations
3. Instruction on how the Chain Clamp works
4. Dangers and Mal-practices

maintenance & storage

The Chain Clamp is manufactured from high quality material and assembled in a manner designed to offer long service with minimal maintenance.

In order to preserve the product in this state, it is necessary to ensure that it is not mis-used or used for purposes outside the approved use.

Light oil (WD40 type) should be regularly applied to the internals to lubricate and flush out any dirt or debris.

The Chain Clamp must be visually & functionally inspected before every use by a competent person. There should be no visible signs of distortion. The mechanism should be operable in the palm of the user's hand, and should return smoothly & freely under spring pressure. If this is not the case, apply a light oil to the mechanism and try again. If the Chain Clamp still fails to operate, do not use. Return it to the manufacturer for inspection.

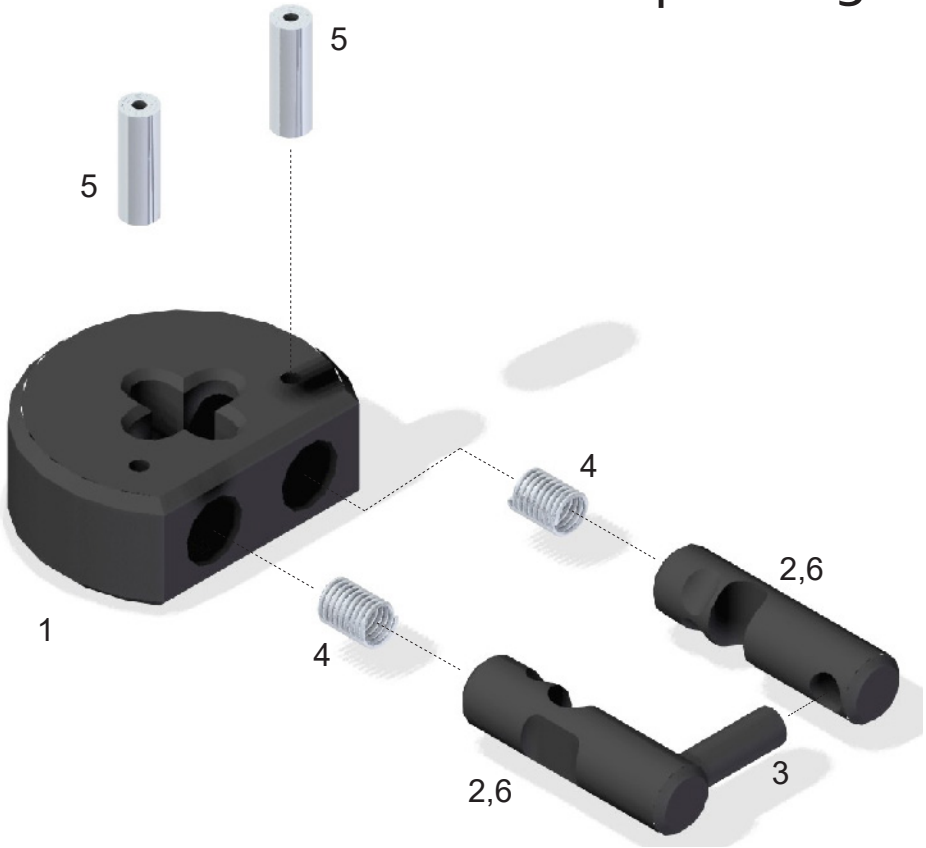
The Chain Clamp must be thoroughly examined in accordance with local regulations & jurisdiction. DCP recommend a thorough examination every 6 months.

If the product does not operate perfectly, contact the manufacturer for advice, or return for immediate attention.

If any parts of the Chain Clamp are replaced with non-standard parts or in a non-approved manner, the certificate is no longer valid.

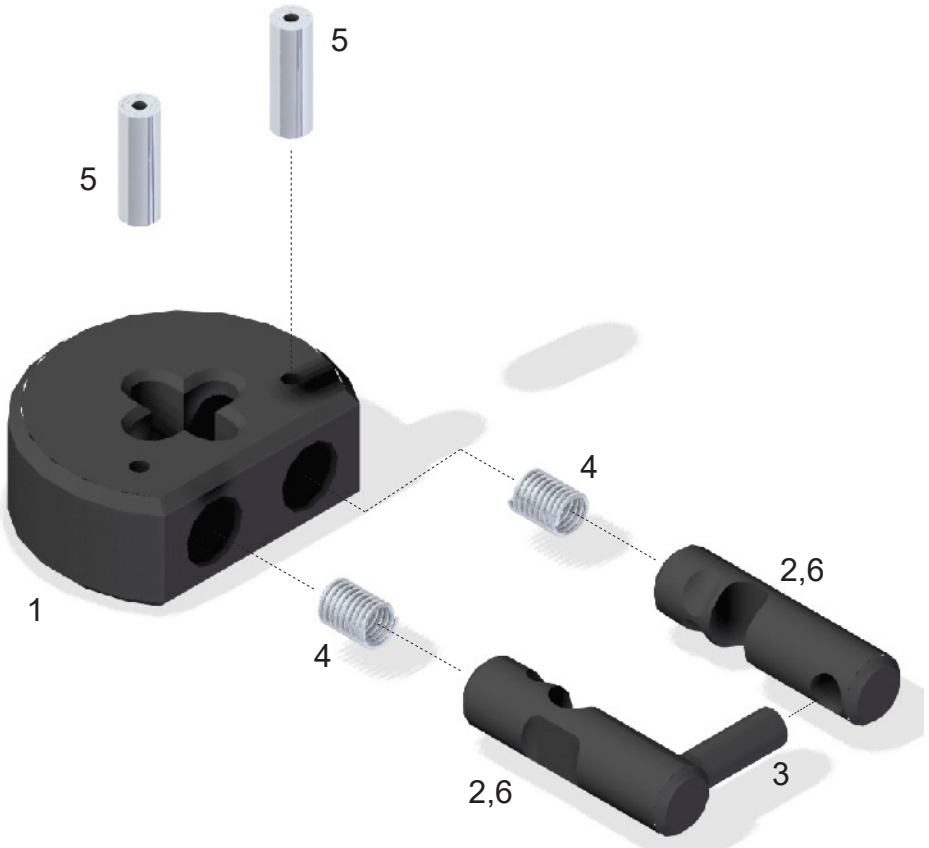
The Chain Clamp should be stored in a dry & secure environment, ensuring that it is protected from adverse weather & accidental damage.

10mm chain clamp - TLR360



Ref. No.	Qn't	Part Name	Part No.
1	1	Body	TLR363
2	2	Trapping Pin	4091
3	1	Spacer Bar	TLR364
4	2	Spring	4093
5	2	Spring Pin	0M05-030-22
6	A/R	Anti Seize Compound J166 ROCOL	-

16mm chain clamp - 4130



Ref. No.	Qn't	Part Name	Part No.
1	1	Body	4131
2	2	Trapping Pin	4132
3	1	Spacer Bar	4133
4	2	Spring	4135
5	2	Spring Pin	0M06-045-22
6	A/R	Anti Seize Compound J166 ROCOL	-



D.C.P. RESERVES THE RIGHT TO DISCONTINUE EQUIPMENT AT ANY TIME, OR CHANGE SPECIFICATIONS OR DESIGNS WITHOUT NOTICE OR INCURRING OBLIGATIONS

INNOVATIVE PILING EQUIPMENT

HYDRAULIC PILING HAMMERS

EXCAVATOR MOUNTED VIBRATORS

EXCAVATOR MOUNTED DRILLS

QUIET, VIBRATIONLESS PUSH-PULL PILING

PILE EXTRACTION

SHEET PILE GUIDE FRAMES

SHEET PILE CAPPING SYSTEMS

CFA CLEANERS

PILE POINTS & SPLICERS

SAFETY HANDLING / LIFTING EQUIPMENT

SHEET PILE THREADERS

CHAIN CLAMPS

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