

 **GROUNDWORKS**

DAVIT ARM

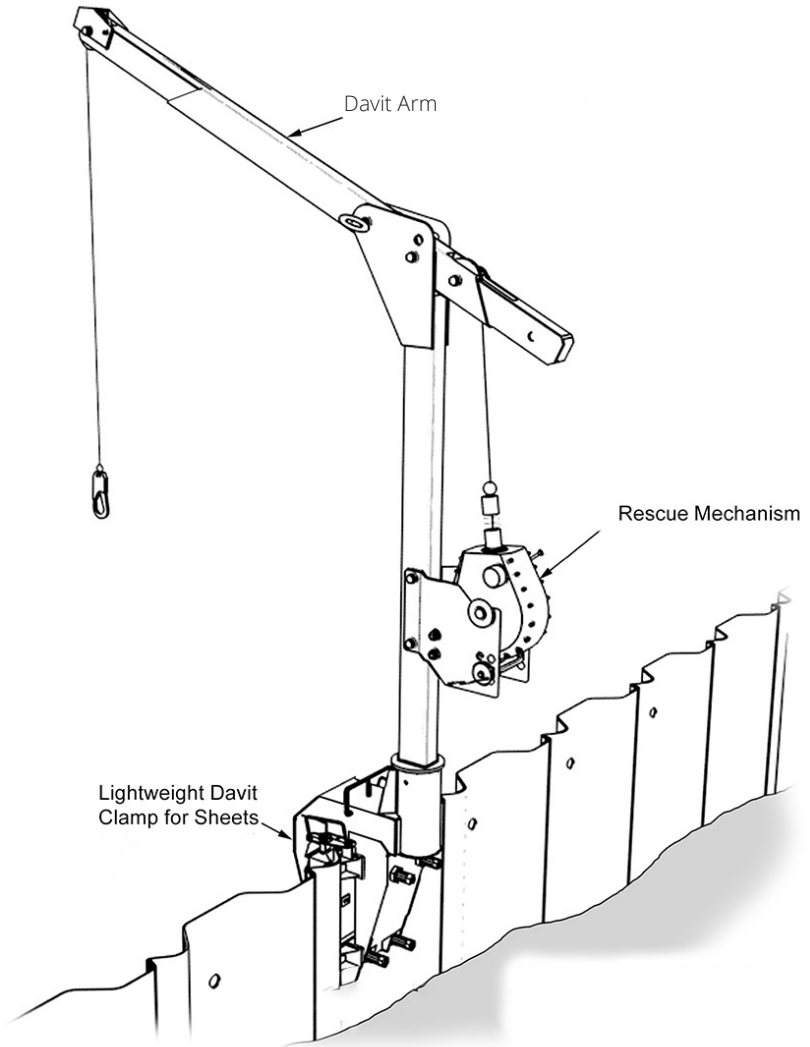
User Guide



GENERATION
HIRE & SALE

LW/03.23

Davit Arm and Lightweight Davit Clamp for Sheets



Please make sure that you have read and understood this section of the User Guide fully before using the device.

Setting up on Site Prior to Starting Work

The Lightweight Davit Clamp enables the Davit Arm to be positioned above the Trench Sheet or Box allowing its use as a fall arrest system or as a rescue system for personnel working within the excavation.

An emergency operations plan considering any possible emergency situation at the workplace MUST be available.

Note: Generation UK highly recommend that the Davit Bracket for Boxes, Davit Arm should be installed as soon as the Box is installed. It is assumed that the installation processes have been carried out. Please refer to the full installation details further on in the guide.

How to Use on Site

This User Guide is to be fully read and understood before using any part of the Davit Arm System. Non-observance of the User Guide will put lives at risk. The components, when installed, can be used as both a fall arrest system and as a rescue device.

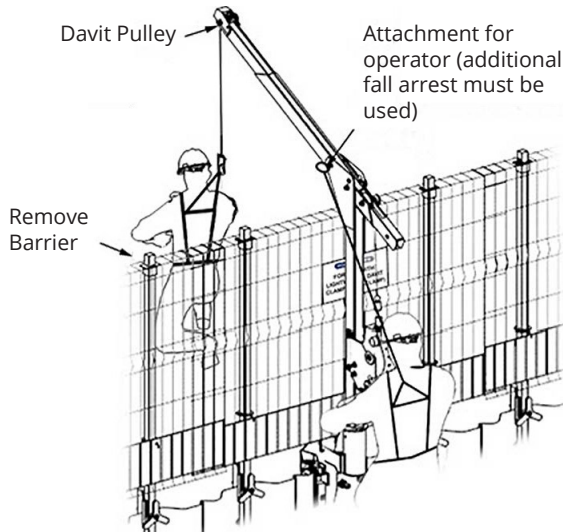
In an Emergency - Rescue

Engaging the Rescue Function:

- Open the sealed lock.
- Unfold the crank handle.
- Pull out the locking pin until the crank handle axis pops out audibly and visibly.
- Rotate the crank handle back and forth until the gear has engaged. The locking pin jumps back into its initial position.
- The "rescue function" of the Height Safety Device is established.
- The casualty can now be cranked up and down.

In an Emergency - Rescue

- During the rescue operation, there must always be direct or indirect visual or communicative contact with the person being rescued.
- In order to lift the casualty to safety the Trench Guard panel(s) will have to be removed. It is the responsibility of the Davit Arm operator to ensure an alternative method of protection against falls from height is available during this operation. If present the casualty can be lifted safely on to the Ladder Access Platform.
- The device can only lift one casualty at any one time.
- The Davit Pulley should be directly above the person to be rescued in order to prevent swinging.



Use as a Fall Arrest

When using the Davit Clamp, Davit Arm and Generation Ladder Access Platform as a fall arrest system, there needs to be visual inspection and a functional test before every use. To do so, once set up pull the rope. The ratchets must lock audibly and the device must lock. Firmly hold the rope and allow it to retract into the fall arrest block in a controlled manner.

Warning: If the wire rope is released, it may cause serious injury and damage by its quick and uncontrolled retraction into the housing.

Check the karabiner hook is functioning properly (self-closing, lockable). Check the device is free from damage. A Davit with a damaged connecting device, e.g. ropes with a kink or broken/torn strand, must not be used.

Once inspected, the user can be attached to the hook of the Davit via his/ her appropriate harness and using the Ladder Access Platform descend down the ladder.

When descending into the excavation the Davit Pulley should be in a perpendicular position above the head of the person in order to prevent swinging if a fall occurred. In order to allow this the Davit Arm must be allowed to rotate freely within the Davit Clamp.

WARNING : THIS SYSTEM IS NOT FOR LIFTING OR LOWERING OF LOADS.

Off Loading and Site Handling

Manpower

The Health and Safety Regulations require that personnel deployed are suitably trained, experienced and supervised by a competent person. Generation can provide suitable training, please contact Generation for details.

Handling

- It is advisable that protective gloves are worn at all times when using this equipment.
- The main parts of the Clamp have steel lifting handles. These can be used to lift the equipment manually, subject to a manual handling assessment by 2 or more people or mechanically using suitable equipment.

Return of Equipment Off-Hire

Clients should ensure that on removal, the equipment is returned as supplied in a safe manner.

Installation

Note: It is the responsibility of the installer to ensure an alternative method of protection against falls from height is available during this operation.

1. Make sure that the adaptor has been selected to be installed onto the trench sheet/ box. Ensuring that the adaptor is facing the correct way, place the adaptor so that the profile of the sheet is between the Outer and Inner sections. Slide the two sections together so that they are both touching the outside and inside face of the trench sheet.

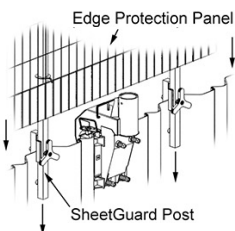
Note: An upstand on the trench sheet of greater than 350mm is required when installing the adaptors and Clamp.

2. Install the Edge Protection Panel onto the trench sheets making sure that two Trench Guard Posts are securely installed either side of the Davit Clamp.

Note: Refer to the Ladder Access and Barrier System User Guide for further details.

3. When using the Davit Clamp with a Ladder Access Platform

Note: Subject to a manual handling assessment, the Davit Arm may be lifted by 2 or more people



Storage and Maintenance

Storage

When not in use ALL equipment should be stored in a clean, dry and easily accessible environment, together with the User Guide and any other instructions relating to its use.

Maintenance

- all parts to be cleaned prior to inspection.
- all parts should be visually inspected for damage, which would include:
 - bent or distorted plates or sections
 - damaged thread bar or handles
 - missing items
 - damaged wire rope.

If damage is found to any component, remove the item from use and contact Generation UK immediately.

The lifeline shall only retract under load. On no account may the lifeline be fully pulled out and released because the karabiner hook jolting against the device may cause the retraction spring to break.

Components which have become wet during cleaning or use may only be dried naturally, not near a fire or similar heat sources.

Inspection

After every use as a fall arrest or a rescue system, the system must be inspected by an expert trained by the manufacturer.

ALL components (excluding edge protection) MUST be inspected and certified under the LOLER regulations every 6 months.

Do's and Don'ts

Do

- Regularly check ALL components for malfunctions.
- Regularly check the Clamp on the trench sheet is secure and tight.
- Regularly check that the Trench Guard panels and posts are securely fixed to the trench sheets.
- Store ALL components in a clean and dry area where they can be easily and quickly accessed.
- Advise Generation UK immediately if a fall arrest or rescue incident has occurred.
- Ensure all Locking Pins are correctly installed and undamaged.
- Use the additional securing point in conjunction with a fall arrest device to protect the operator from falls during use.
- Position the equipment directly above the casualty / 'person to be protected' to avoid any swing when being rescued or when falling.

Don't

- Use the Davit Arm System for lifting anything other than a casualty.
- Use damaged equipment.
- Modify the system or open the casing of ANY component in any circumstances.
- Re-use the equipment without being fully checked and signed off by a authorised party if a fall arrest or rescue situation has occurred.
- Allow ANY oil or grease onto the wire rope as this will stop the fall arrest function working.
- Strip down or take apart ANY component.
- Leave the casualty hanging.
- Use if you have not been appropriately trained or are competent to do so.
- Use the Davit Bracket with any other Davit Arm other than the one stated in section 3.
- Use without the correct edge protection in place.

Notes

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