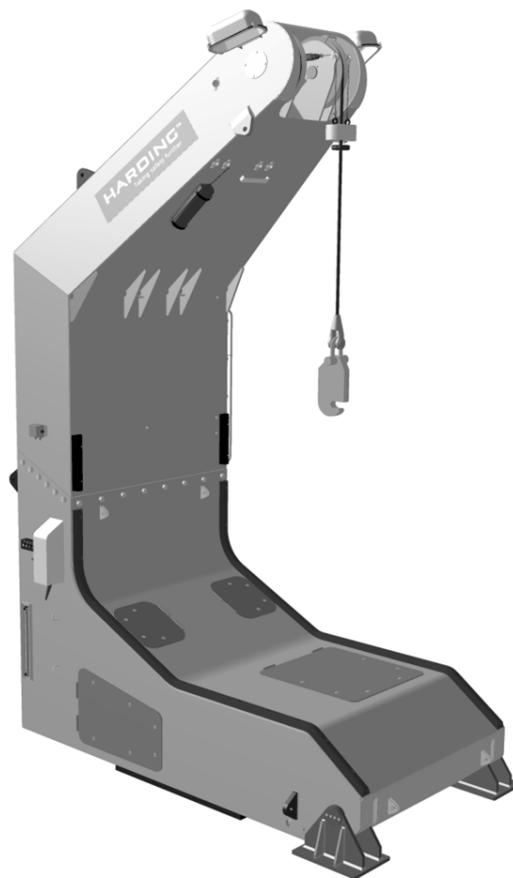


Installation manual NPDS 6000H, NPDS 6000H SV



Rev.:	Edition date:	Reason for issue:	Prep.	Check.	Appr.
00	01.03.2016	First issue	A.Lewadowski	BY	AE

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1. Introduction

1.1 General

This manual provides details for installation of the davit.

Harding Davits, according to the SOLAS standard, are designed to meet the requirements which are necessary for lowering and hoisting lifesaving equipment. The davit is delivered complete, function tested and ready for installation.

With the Harding Davits, all necessary components are inside the structure of the davit. The davit is operational when foot-hinges are welded to the deck and the power cable is connected.

1.2 Manufacturers contact details

Harding Safety AS

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N-5472 Seimsfoss, Norway

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sales.norway@harding.no

service.norway@harding.no

spares.norway@harding.no

1.3 Safety

Safety is the first priority at the job site. Davits and lifeboats are heavy constructions that could cause injury if not handled properly.



- ✓ Never insert objects of any description in rotating parts.
- ✓ Use the right tools in the right place.
- ✓ Immediately replace damaged pipes and hoses.
- ✓ Never work on pipes that are under pressure.
- ✓ Always wear protective clothing, hardhats, safety shoes and all-round visibility safety goggles.
- ✓ Never eat, drink or smoke when working.
- ✓ Ensure there is sufficient ventilation.
- ✓ Prevent hydraulic oil from coming into contact with your eyes.
- ✓ Do not use dirty clothes to remove oil from the skin.
- ✓ It is forbidden to weld oil-containing pipes and tanks.
- ✓ Keep a first aid kit.

Use the above suggestions as well as common sense to create a safe working environment. Take steps to prevent tripping or falling hazards. Protection from thrown or falling objects should be used at all times around a construction site. Keep the worksite and assembly area clean. Check tools periodically and replace tools that could break or malfunction. Follow instruction manuals for all power tools and beware of shock hazards that exist.

1.4 Measurement system

The Harding davits uses metric system of measurement and fittings.

1.5 Applicable rules and regulations

There is no need for special tools to install the Harding davits.

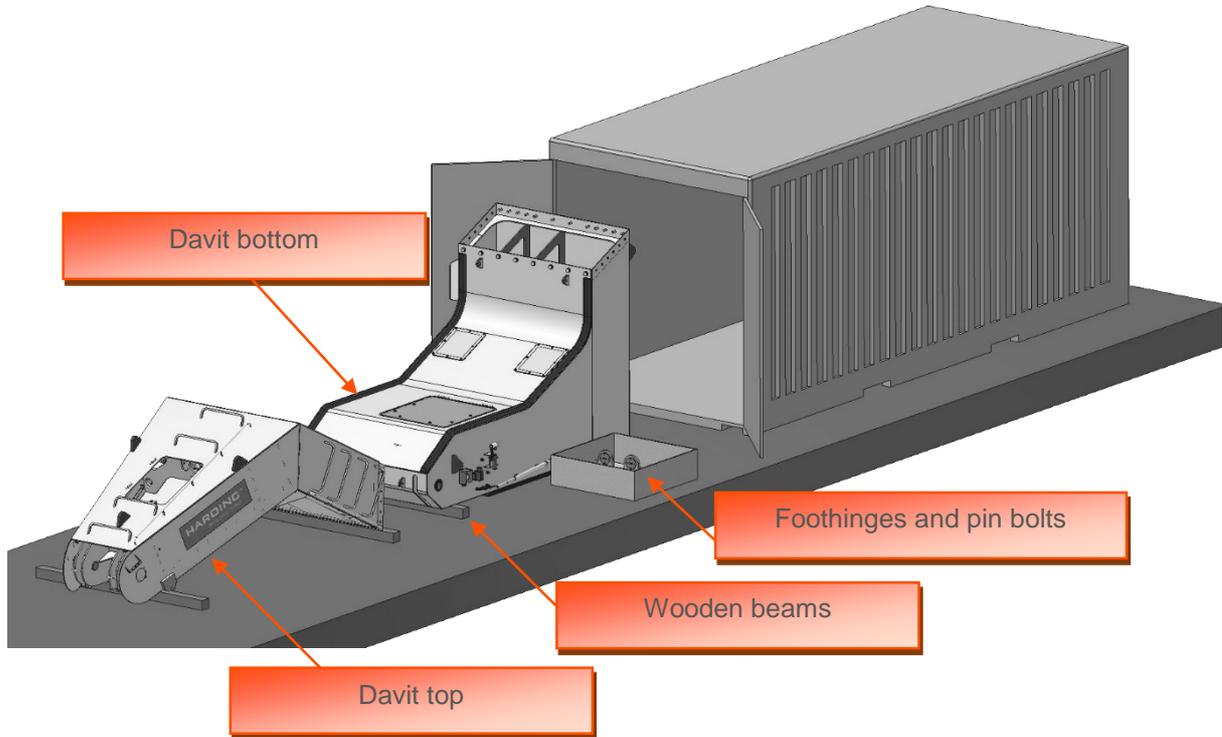
- ✓ Combination wrenches, socket wrench set, impact wrenches (electric or pneumatic), pipe wrenches, allen wrenches, torque wrench, portable stair, ladder etc.
- ✓ 1 Nylon rope 20 m.

1.6 Chemicals

Use Loctite®, or similar product, to secure tightness of all bolts and nuts. This product to be supplied by Yard.

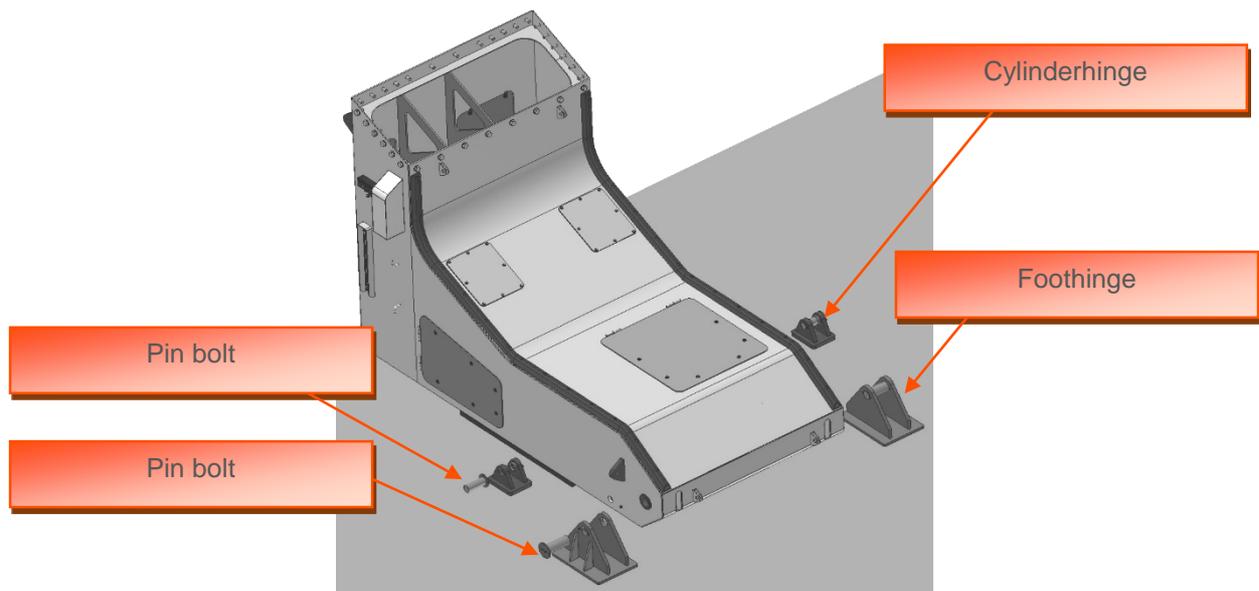
2. Installation procedure

- A. Unload container (picture 2.1). Place davit bottom and davit top on temporary wooden beams to avoid damage of davit surfaces.



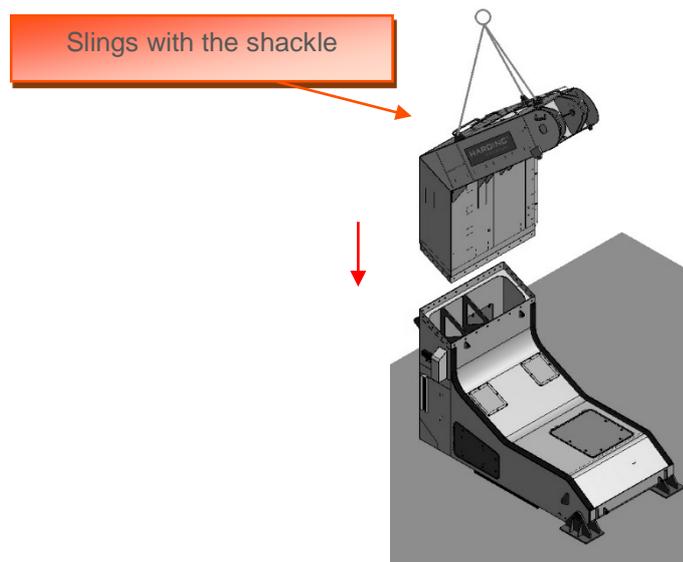
Picture 2.1 – Unloading from container

- B. Connect the footings and cylinderhinge to the davit bottom, by its pin bolts (picture 2.2).



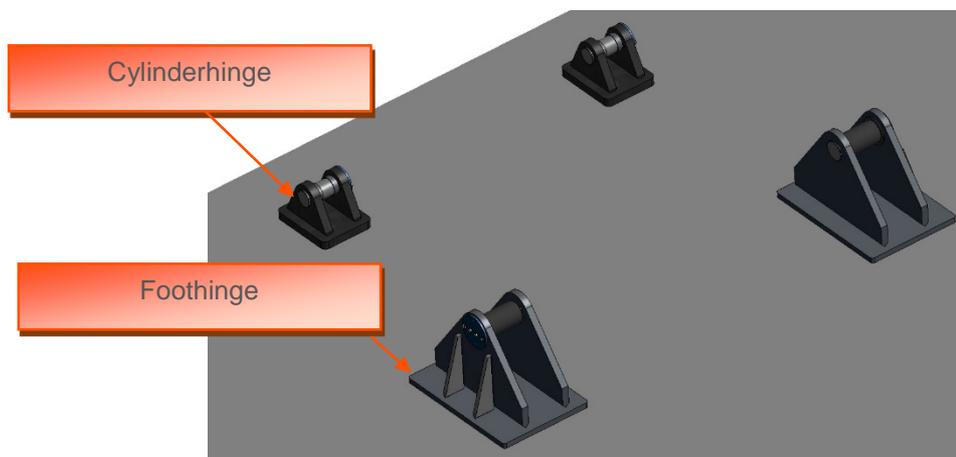
Picture 2.2 – Connecting footings and cylinderhinge to davit

- C. Put a nylon rope through the davit top before assembly it to the davit bottom. This will help guiding the wires after arms been assembled
- D. Lift the davit top by using a crane and lifting beam. The slings can be connected to davits top by 2 correct dimensioned shackles mounted in the lugs (picture 2.3). Lift the davit top up and install in davit bottom. Tightening torque to be used as advised, depending on bolt size and type. Use Loctite® or similar product on all bolts connections. Than locate the davit on its position on the deck to determine exact position.



Picture 2.3 – Connecting davit top to the davit bottom

- E. After the davit is placed on the deck make a spot welds for foothinges and cylinderhinge.
- F. Remove connection pin bolts from all hinges.
- G. Remove the davit.
- H. Finish welding of all foothinges and cylinderhinges. Touch up paint welded area.



Picture 2.4 – Welding of foothinges and cylinderhinge to the deck.

- I. By using the crane reinstall davit on already welded to the deck hinges, connect with the pin bolts. Tightening torque to be used as advised, depending on bolt size and type. Use Loctite® or similar product on all bolts connections.



Important! Be aware of the heating when you weld the footplates, this can cause buckling in the deck.

- J. Remove all hatches on davit bottom and davit top.
- K. Assembly emergency wire.
- L. Connect limit switch cables in junction box.
- M. Guide main power cable through cable gland, and connect cable and earth inside electro cabinet.



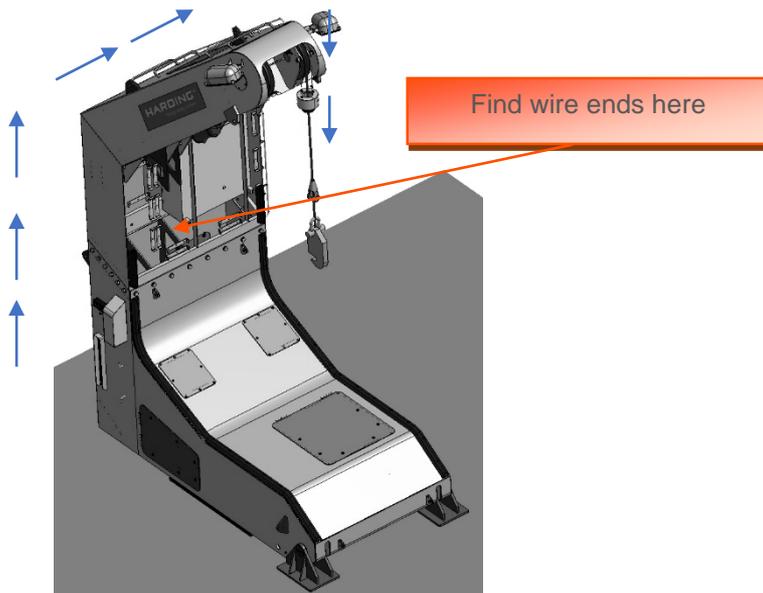
Important! During connection, the electrical power to be switched off.

- N. Connect the 3 phases and earth in the starter box.



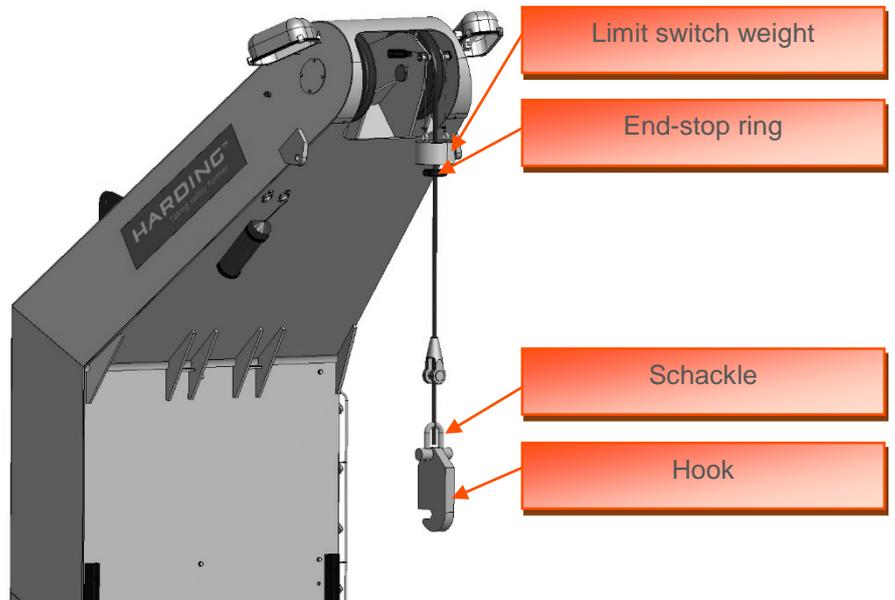
Important! Connection to be done by certified electrical personell, and according to attached electrical drawing. If the electrical motor is running, but you get no pressure, the rotating direction is then incorrect. Stop the electrical motor immediately, and change two phases.

- O. Fill oil tank with specified hydraulic oil.
- P. Set the main switch and automatic fuses on, then the pump will start automatically and the accumulator will be filled. The pump will stop when the correct pressure (250 bar) is reached.
- Q. Assemble the wire. Tie the nylon rope to the wire and guide it through the davit top, by running the winch careful. Make sure it hit the wire sheaves.



Picture 2.5 – Assemble the wire

R. Assemble on the wire limit switch weight, end-stop ring, shackle and hook (optional).



Picture 2.6 – Davit instalation

- S. Install all additional davits parts: hatches, protection fences, etc.
- T. The davit is ready for use.

3. Attachments

Document No.:	Title
	General arrangement drawing
	Bolt torques