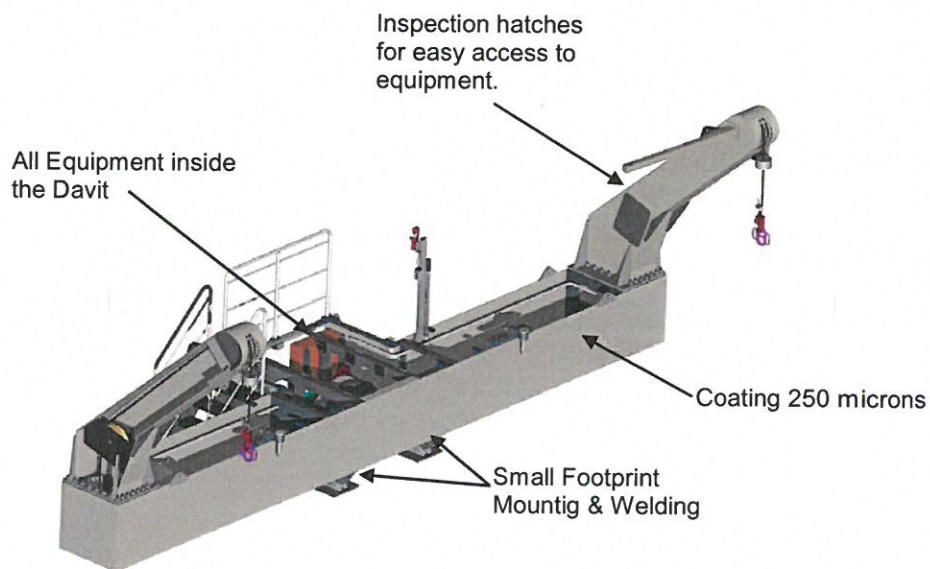


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Product Advantages

1. Harding davit construction is a compact plate construction. Given benefits is that all needed equipment is mounted inside the structure well protected against, -water, -ice, -sand etc.
2. Harding davit as standard is shot blasted to SA 2.5 and coated with three layer of paint.
3. Harding davit is provided with stainless steel bolts
4. Harding davit is fitted with several inspection/maintenance hatches for easy access to all equipments built inside. (Hydraulic components mounted on hatches!)
5. Harding davit is designed for easy installation with only four (4) welding points, can be delivered with 6 hinges as optional.



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1. General Description

The Harding NRD series davits are specifically designed for safe and efficient launch and retrieval of rescue and lifeboats. It is intended for long term, reliable operation in harsh and hazardous marine and offshore environments. The davit system is designed in accordance with latest IMO/SOLAS requirements, LSA Code and European Council Directive 96/98 on Marine Equipment (MED). It's carefully considered and epoch making design, gives advantages when it comes to maintenance and service, installation and deck preparations, and protecting of equipment in arctic and tropical climate. All equipment is integrated inside the davit structure.

Launching of the lifeboat/rescue boat is performed either from inside the boat or from remote control unit supplied as standard. For safe recovery of the lifeboat/rescue boat the system is delivered as standard with 2 speed electric/hydraulic driven winch.

2. System structure

Davit structure

Davit structure is of closed welded design, with all necessary equipment mounted inside and incorporates all required sheaves, winch , power pack , accumulator etc. The 2 arms are dismountable because of transport and mounting on board.

Winch structure

A winch with an integrated gear in a closed oil bath. The winch, suited for power driven hoisting and lowering procedures, consist of the following main parts:

- Double drum, supported in roller type bearings
- Planetary speed reducer gear with built-on brake
- Hydraulic motor with brake valve (see hydraulic system)

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Hydraulic system

The hydraulic system for controlling of the davit functions is consisting of the following units:

- Hydraulic power pack unit built inside the davit
- Electric motor (see electric system)
- Valve , sensors and blocks
- Hydraulic/electric motor on the winch, hoisting/lowering the boat with the desired low speed and high speed (see technical data sheet)
- Accumulator (stored power) for emergency handling.
- Hand pump for emergency hoisting and manual filling of accumulator.

Electric system

The electric system is consisting of the following units:

- Standard power is 380/50 Hz or 450/60 Hz
- Starter box with stand-by heating element placed inside davit structure with electric cables between starter box and removable control unit with a 5 meter cable.
- Electric motor with stand still heating directly driving the pump through a flexible coupling.
- Operation tableau is supplied as standard equipment
- Equipment inside davit structure has standard minimum IP grade 56 and equipment outside minimum IP grade 66

Wire and wire-components

Galvanized wire rope with wedge lock and ring in one end.

- Metalized wire sheaves with bearings

Lashing/guiding system

Lashing arrangement for the life boat is included on the davit.

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3. Conservation

All steelwork is shot blasted to SA 2.5 and coated with three layer of paint. One layer of primer and two layer of top coat. Total dry film thickness approx 250 microns. All finishing paint requirements can be met, ask for details and prices.

Product Name	Binder	VS %	Application Method	Site or Shop	DFT micron	Coverage %	TSR m2/l	Thinner	Comments
Interseal 670HS	Polyamide cured Epoxy	82	Airless Spray, Brush, Roller, Air Spray	Not Defined	100	100	6.56	International GTA220	Alu version
Interseal 670HS	Polyamide cured Epoxy	82	Airless Spray, Brush, Roller, Air Spray	Not Defined	100	100	6.56	International GTA220	Grey or RAL version
Interthane 990	Aliphatic acrylic Polyurethane	57	Airless Spray, Brush, Conventional Spray, Roller, Air Spray	Not Defined	50	100	11.40	International GTA713	RAL 9003
					250				

4. Optional Accessories

- Extra painting system
- Ex proof
- Electrical power type
- 42 V converter
- High speed winch 18 m/min