

Revision no: 00 Rev date: 06.07.2009	<b>Technical description</b>  <b>NRD series</b>	
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## 1. General Description

The Noreq NRD series davits are specifically designed for safe and efficient launch and retrieval of 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 Directive96/98 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 also for heating in arctic 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. Recovery of the lifeboat/rescue boat is performed by the electric/hydraulic driven winch.

## 2. System structure

### **Davit structure**

Davit structure is of closed welded design. The structure is positioned by the hydraulic cylinder and incorporates all required sheaves, pivot shafts and connection shafts. The foundation for the winch has been integrated.

### **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 drums, 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 and manometer
- Hydraulic cylinders of the double acting type, containing self aligning bearings on each side and executed with over centre valve.
- Hydraulic/electric motor on the winch, hoisting/lowering the boat with the desired speed (see technical data sheet)
- Accumulator (stored power) for emergency handling.

### **Electric system**

The electric system is consisting of the following units:

- 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 directly driving the pump through a flexible coupling.
- Operation tableau is supplied as standard equipment
- Standard encapsulation IP 56

### **Wire and wire-components**

Galvanized wire rope with spliced in thimble in one end.

### **Lashing/guiding system**

Lashing/guiding arrangement for the rescue boat is included on the davit.

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### 3. Conservation

All steelwork is shot blasted to SA 2.5 and coated with two layer of paint. One layer of primer and one layer of top coat. Total dry film thickness approx 150 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
					<b>250</b>				

### 4. Optional Accessories

- Extra painting system
- 42V Converter
- Radio control
- Ex proof
- Power type
- Alert for battery change
- High speed winch 18m / min