



1. General

The NED-DECK MARINE hydraulic slewing davits have been designed for long time operation under adverse and extreme conditions in a highly corrosive marine environment. The hydraulic slewing davits of the SCH-LR series are so-called "plug-in and play units" all guaranteeing easy installation on board.

The SCH-LR davit is a freestanding deck mounted davit consisting of a davit arm, column, winch and built-on hydraulic power pack unit.

The system is suitable for safe and efficient handling of a fully manned rescue boat or life raft against unfavourable conditions of trim of up to 10 degrees and a list of up to 20 degrees either way.

Slewing out the davit arm can be done in two ways, either by means of accumulated power obtained from a self-containing hydraulic power pack unit or manually by using the hand pump. Slewing out the fully manned rescue boat from its stowed position into launch position is realised by means of accumulated power. The slewing motion is actuated from within the rescue boat by means of a remote control pull wire.

For life raft handling, the davit arm is slewed into the correct position by using the hand pump.

The lowering procedure can be controlled in two ways, either by means of a remote control wire from within the rescue boat/life raft or by lifting the brake handle of the winch directly.

Lowering is realised by means of gravity.

Recovery of the rescue boat with its crew is realised by using the electric driven winch.

In case of a power failure or malfunctioning of the electric system, hoisting can also be done manually by using the crank handle of the winch.

The normal launching procedure - in case of an emergency - is to lower the rescue boat first and the life raft(s) afterwards. This in order to prevent that the rescue boat will be launched on top of the life raft.

For this purpose, and in order to save valuable time, the winch has been executed with a so-called "Quick-Return Unit" for easy and fast retrieval of the empty hook.

As soon as the rescue boat has become waterborne, the empty hook can be recovered rapidly by using the hand crank of this quick-return unit and by pulling the hook inboard by means of the jockey pulley lines which are attached to the davit arm and the wire rope.

Since the safe working load and outreach of the davit are normally determined by the size of the rescue boat or life raft, NED-DECK MARINE have chosen for a limited range of standard designs which can be adapted to some extent in order to meet individual and specific needs.

The SCH-LR series meets the latest IMO/SOLAS requirements and LSA Code as well as the European Council Directive 96/98 EC on Marine Equipment (M.E.D.).

2. Main Components:

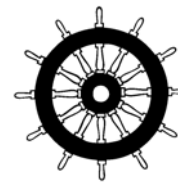
Davit column

The davit column is an assembly of an inner column, an outer column and a self-braking worm gear unit. The self-braking properties of the worm gear guarantees that the davit is kept in position even under extreme list and trim conditions.

The SCH-LR davit is delivered with a fixed inner column which should be flanged onto a counter foundation/pedestal.



SPECIFICATION HYDRAULIC SLEWING DAVIT SCH-LR Series



Davit arm

The davit arm is a welded construction of a hollow section, a pipe, steel plates and a flange and provided with all relevant accessories such as winch foundation, top sheave and lifting eye.

Winch

Each davit will be supplied with an electric driven winch built onto the davit arm.

The winch is a standard item and consists of the following main components;

- Closed gear casing;
- Built-on electric motor;
- Single winch drum with separate section for remote control wire;
- Speed reducer gear (conventional gear train);
- Centrifugal brake unit for gravity lowering;
- Stop brake of the “dead-man” type;
- Manual cranking gear with safety device;
- Quick-return unit for fast retrieval of empty hook.

Hydraulic power pack unit

The hydraulic power pack unit consists of the following main components:

- Stainless steel hydraulic tank (AISI 316) with drain valve;
- Hydraulic pump;
- Electric motor;
- Pressure switches;
- Pressure relief valve;
- Control valve;
- Accumulator;
- Hand pump.

3. Accessories:

Each davit system will be supplied with the following accessories:

Electric controls

- Motor starter built onto the davit arm and provided with main switch, push button and “power on” indicator;
- Limit switch

Wire rope

- Galvanised non-rotating steel wire rope provided with thimble at one end and of sufficient length for lowering the rescue boat into the water;

Jockey Pulley

- Jockey pulley block;
- Two (2) jockey pulley lines with thimbles at both ends;
- Shackles.

Remote control parts

- Stainless steel remote control wire of sufficient length;
- Handgrip for operating from within the rescue boat;
- Remote control sheaves;
- Loose items such as wire rope clips and shackles;



4. Conservation

Unless agreed otherwise, all steelwork will be shot blasted to SA 2,5 and coated with one layer of 2-component epoxy primer of brand **SIGMA**. Dry film thickness 60-80 microns.
This conservation is not suitable for outdoor storage for a long period of time.

5. Optional accessories

The following accessories are to be seen as non-standard but can be supplied optionally:

- Stainless steel automatic release hook (off-load type);
- Counter foundation/Pedestal;
- Cradle for rescue boat.