

A. General

The NED-DECK MARINE free-fall lifeboat davits of the FFH series have been designed for long time operation under adverse and extreme circumstances in a highly corrosive marine environment.

The FFH davit is a deck to wall mounted davit, placed at the stern of the ship, and consists of a launch ramp, davit arm (A-frame), winch and hydraulic unit.

The system is suitable for safe and efficient launching of a fully manned free-fall lifeboat against unfavourable conditions of trim of up to 10 degrees and a list of up to 20 degrees either way. The launch ramp has been provided with sliding pads, made of high density polyethylene, taking care after a smooth acceleration of the boat.

In those cases where free-fall launch appears to be unpractical or unsafe, the system has also been provided with a secondary means to launch the lifeboat by falls against unfavourable conditions of trim of up to 2 degrees and a list of up to 5 degrees either way.

Recovery of the lifeboat with its launching crew (4 persons) can be realised by using the hydraulic driven winch. For easy positioning of the lifeboat back onto its launch ramp, the davit arm and launch ramp have been provided with boat guidings to prevent damage to the lifeboat.

To secure the boat in stowed position, the sliding ramp has been provided with an adequate locking device with float free provisions.

In order to reduce maintenance to a minimum, all shafts and pins are made of stainless steel and provided with self-lubricated bushings.

The FFH 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.).

B. Main Components:

Launch ramp

The launch ramp (or slide way) has been built up from hollow sections and steel plates to a stiff rigid frame in order to transfer the system forces to the ship's structure.

The launch ramp has been provided with all necessary provisions for fastening of relevant accessories such as slide pads, locking device, hydraulic unit and cylinders.

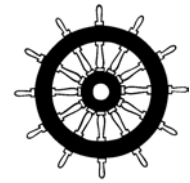
Davit arm

The davit arm (or A-frame) has been built up from hollow sections and steel plates and is connected to the launch ramp by means of two pivot points and two hydraulic cylinders.

The davit arm has been provided with all necessary wire rope sheaves and provisions for fastening of relevant accessories.



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Winch

Each davit system will be supplied with a single drum planetary winch, driven by an axial piston rod motor. The winch incorporates a fail-safe multi-disc brake and one-way roller clutch

Hydraulic power pack unit with motor starter

Each davit system will be supplied with an hydraulic power pack unit with motor starter, built onto the launch ramp.

This power pack unit incorporates the pump unit with built-on squirrel cage electric motor, pressure gauge, oil filter, air breather drain plug and hand control valve for hydraulic functions. The hydraulic system will be delivered cleaned and pre-flushed.

The motor starter which has been fitted directly onto the power pack unit incorporates a main switch, push-button and “power-on” indicator

Hydraulic cylinders

Each davit system will be supplied with two (2) double acting hydraulic cylinders provided with dual over-centre valves.

The cylinder rods have been made of stainless steel. The rod ends of each cylinder incorporate the spherical plain bearings.

C. Accessories:

Each davit system will be supplied with the following accessories:

Suspension parts

- Two-sheave traverse block;
- Galvanised steel wire rope of sufficient length for lowering the boat into the water;
- Suspension chains and shackles;
- Swivel hooks;
- Wedge socket.

Lashing parts

- All necessary lashing parts for securing the boat in stowed position.

D. 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.

E. Optional accessories:

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

- Drop simulator for training purposes.