

## Freefall system(type: FH 85)

### General introduction:

The freefall davit systems have been designed for long time operation under adverse and extreme conditions in a highly corrosive marine environment.

The FH davit is a freestanding deck mounted davit consisting of a ramp with a winch. The system is suitable for safe and efficient handling of a fully manned lifeboat against unfavourable conditions of trim of up to 10 degrees and a list of up to 20 degrees either way.

The FH davit is a ramp type davit where freefall boat lowers itself on the water by the help of its own weight. Also the FH davit is designed for boarding the boat in stowed position. Entrance platform needs to be designed by client.

Recovery of the lifeboat with its crew to stowed position (4 man) is realized by using the permanently mounted motor on the winch.

The FH 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.).

### FH System: End User Advantages

1. Compact design with minimum height, width and length.
2. Small footprint, for easy installation onboard.
3. Delivered as one complete pre-assembled and tested davit system, "plug and play", ready for immediate use.
4. Stainless steel for all shafts, piping and bolts and nuts up to M16.
5. Easy access for periodic maintenance, service and repair, support by with clear labeling and detailed manuals.

### Model:

- Type: FH 85.
- Davit working load: Max. 85kN.
- Davit hoisting load: Max. 56kN.
- Designed condition: 20° list +Trim 10°.
- Hoisting speed: 3.0m/min.
- Motor capacity: 15 kW.
- Power source: AC440V, 60 HZ (other power source on request).
- Self weight: Davit:Approx. -kg.

### Davit frames:

The FH davit is a welded construction provided with all relevant accessories such as sheaves, top sheave sliding blocks/wheels and maintenance eye.

### Winch:

Each davit will be supplied with an electric/hydraulic driven winch. The winch is a standard item and consists of the following main components;

- Closed gear casing;
- Built-on electric motor;
- Single winch drum;
- Remote control unit

### Accessoires:

Each FH davit system will be supplied with the following accessories:

#### Electric controls

- Limit switch of davit. (1 piece).
- All necessary wire.
- Powerbox

#### Remote control parts

- Lifting structure with sheeves and galvanized non-rotating steel wire

### Optional accessoires:

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

- Gear oil
- Performing on-board test
- The davit is dismantled for shipment and needs to be installed on deck.
- Ladder-platform

### Conservation:

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

### Spare parts:

Upon request a separate offer for the supply of spare parts can be prepared. A detailed spare parts list with drawings is included in the instruction manual.

### Instruction manual:

The davit is supplied with 3 sets of instruction/operation and maintenance manuals in the English language. The manual contains all required information for installation, start-up, operation, maintenance and spare parts. A set of arrangement drawings, diagrams and part drawings is included.

### Steel construction / design regulations:

All materials used in steel construction of the davit, are certified in accordance with the various classification rules and regulations with full traceability.

### Approvals and certificates:

The davit is supplied with the following test certificates:

- FH davit type approval certificate issued by class (if applicable)\*
- FH davit factory acceptance test certificate issued by class
- Winch factory acceptance test certificate issued by class
- Wire certificate
- Shackle certificate

Copies of the relevant approvals and certificates are included in the instruction, maintenance and operations manual of the FH davit system.