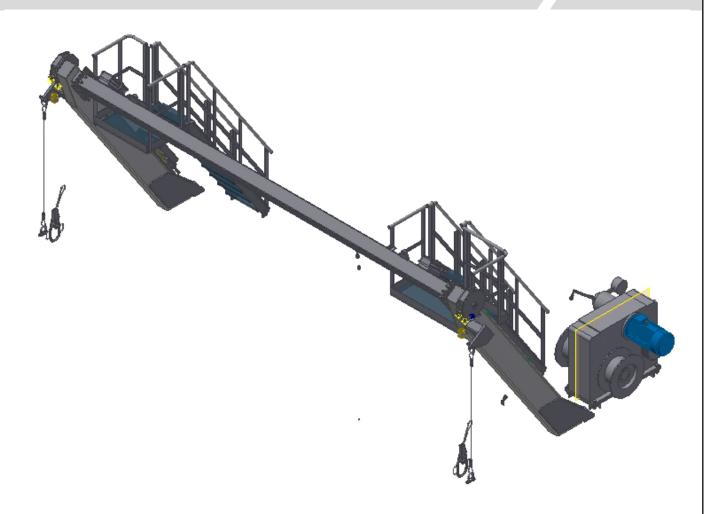


Enterprise No.: NO940411696

www.VIKING-life.com

D-110 – Cantilever Lifeboat Davit



TECHNICAL SPECIFICATION

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VIKING Project No.: TBA

VIKING Doc. No.: TSD-0006

Rev. Date: 15.04.2020

Rev. No: 5

1. REGULATION AND CERTIFICATION

Applicable rules and regulations In accordance with IMO/ SOLAS requirements, LSA Code

and European Council Directive 2014/90/EU on Marine

Equipment (MED)

Certificate MED

Other certificate Class certificate or flag acceptance on request

2. DAVIT SPECIFICATION

2.1. GENERAL DAVIT

Туре	Cantilever Lifeboat Davit
Model	D-110
Application	Conventional Lifeboat handling
Drawing reference	G-501137
Execution	Gravity lowering davit
Boarding position	Inboard on deck level
Operating position	From deck side and from inside the boat (Gravity lowering)
Davit system weight (Approx.)	5500 kg, davit incl. winch (dry weight)
Safe Working Load (SWL)	12233 kg
Trim / list conditions	10° / 20°
Max. lowering height	55 m (including 10°/20° trim/list condition)
Operation temperature	-20°C till +45°C (other range on request)
Hoisting speed	0~5 m/min
Min. lowering speed	According to SOLAS regulation (S = 0.4 + 0.02H)
Manual hoisting	By manual hand-cranking
Wire sheaves	Galvanized, equipped with ball bearings
Installation	5 (five) deck welding points
Deck reinforcement requirements	See general arrangement drawing
Davit system H / W / D	See general arrangement drawing
Deck space required	See general arrangement drawing

The Viking Norsafe Cantilever Lifeboat Davit system is especially designed for safe and efficient launching and retrieval of a Viking Norsafe Conventional Lifeboat. The davit system is designed for long time operation in a tough and corrosive marine/offshore environment. The davit system is designed to fulfil all requirements as given in latest SOLAS/IMO requirements.

The system will allow:

- Launch of lifeboat in maximum load condition
- Gravity lowering of the loaded lifeboat independent of external power supply
- Retrieval of lifeboat with a crew of three persons using electric power
- Retrieval of the lifeboat by manual hand-cranking
- Optional approval for rescue function, according to latest SOLAS regulations



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The davit comprises of two fixed arms and an electrically powered winch operating two wire falls. The davit is intended for lifeboats placed onboard platforms and similar installations, where fixed davit arms offer the best solution.

The davit is designed to achieve optimum performance in terms of safety and reliability, and minimal maintenance levels. The davit is designed to minimize noise emission and provide straightforward service access.

To activate the davit, push and hold down the appropriate button to cause the desired operation. When the button is released, davit operation will cease immediately.

A thermal overload relay in the starter cabinet protects the electrical motor against overheating in case of excessive loads.

The winch is fitted with a one-way clutch. In the event of power loss during hoisting, the brake will automatically activate, and davit motion will stop. A centrifugal brake is located on the winch. The brake controls the speed of descent for the lifeboat. The brake is enclosed and provides reliable operation in all climate conditions.

Electrical limit switches are used to cut power to the winch, if the boat is hoisted above stowage height.

Electrical limit switches will prevent the boat from being hoisted above its upmost position / stowed position. Electrical limit switches on the winch provide failsafe operation of the hand crank.

2.2 WINCH AND WIRE

Type	NW-120 winch
Drawing reference	G-501723
Wire rope type	Galvanized, rotation resistant (certified item)
Wire rope diameter, MBL and spec.	Ø 22 mm, MBL 360 kN, 1960N/mm2
Inner / outer wire end	Secured to drum / Wedge socket and safety wire clamp
Wedge socket	Included
Master link w/handle	Included (certified item)

2.3. ELECTRICAL

Electric power supply	440V/3ph/60Hz (other on request)
Electrical cabinet	IP56
Remote control	IP56
Limit switch	IP56
Power consumption	32.4 kW
Starting method	DOL - Direct on line
Duty rating	S2-10min
Motor space heating	Included, 40W
Electrical cabinet heating	Heat loss from 42V transformer
Wiring	Included, (only power supply cable required)
Cables type	Marine type, flame retardant halogen free
Transformer	Included, 440/42VAC (other on request)



Emergency stop Yes, mushroom type

2.4. PAINTING SYSTEM

Blasting	SA 2.5
Specification	ISO 12944-5
System	Marine paint system (Jotun paint system)
Coating Two (2) layers (other on	Layer 1 Penguard universal, Alu - 220 µm
request)	Hardtop XP - 80 μm RAL 9016 (Traffic white)
Total dry film thickness	300 μm

2.5. DOCUMENTATION

Technical specification davit	According to contract specification
General arrangement drawing	According to contract specification
Electrical wiring diagram	According to contract specification
Starter cabinet drawing	According to contract specification
Product certificate	According to contract specification
Lubrication oil chart	Viking Norsafe standard
Spareparts list	Viking Norsafe standard
Operation & Maintenance manual	Viking Norsafe standard
Installation manual	Viking Norsafe standard
Preservation & storage procedure	Viking Norsafe standard

3. PACKING

Format

Packed for transport in a 40 ft standard container

4. OPTIONS

Note: Some options influence davit weight and performance, some option combinations may be incompatible. Maximum SWL must not be exceeded.

oximes marking means to be supplied by maker, oximes marking means not supplied by maker.

CENERAL DAVIT	
GENERAL DAVIT	
Combined Life-/Rescue boat davit function	
Hoisting fully loaded boat	
Damping system for main wire fall	
Additional lowering height	
Additional shock absorber on winch	
Additional manual handling crane for electric motor on winch	
Additional supports for lights, lanterns, starter cabinet etc.	
Winterization / cold climate heating / canvas solutions	
Commissioning performed by Viking Norsafe or Viking Norsafe Service Partners	



Other options on request	
ELECTRIC SYSTEM	
Voltage variation	
Protection box for remote control	
Ex-proof, Zone II 2 G Ex de IIB T3 (other on request)	
Star ∆ starting method	
Additional electric cabinet heater	
Alternative cabinet size / material / surface protection	
PAINTING SPECIFICATION	
Norsok M-501 system (Viking Norsafe Doc. No. TSS-0030)	
Other painting system and final color	
SPARE PARTS	
Spare parts for Startup / Commissioning	
Spare parts for Onboard spare	
Spare parts for 1 year	
Spare parts for 2 years	
DOCUMENTATION	_
Factory acceptance test procedure	
Factory acceptance test report	
Inspection and test plan	
Shipping, handling and lifting procedure	
Packing & unpacking procedure	
Commissioning procedure	
TAG list Winch drawing	
Noise test report	
Weight and COG datasheet	
Weighing report/certificate	
Other drawings/documentation/procedures	

5. POSSIBLE BOAT FITTING THIS DAVIT SYSTEM

The VIKING Norsafe boats fit the D-110 davit types and variants.

JYN-75	JYN-80
JYN-85	MIRIAM-85
(Others on request)	



6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Deck foundations / reinforcement	
Assembly, erection and welding to deck	
Wire installation on winch, routing on davit and termination	
All cables to starter cabinet and agreed interface	
Hydraulic oil filling of winch	
Testing according to regulation after installation onboard	
Preservation and maintenance after davit arrived yard and installed	

