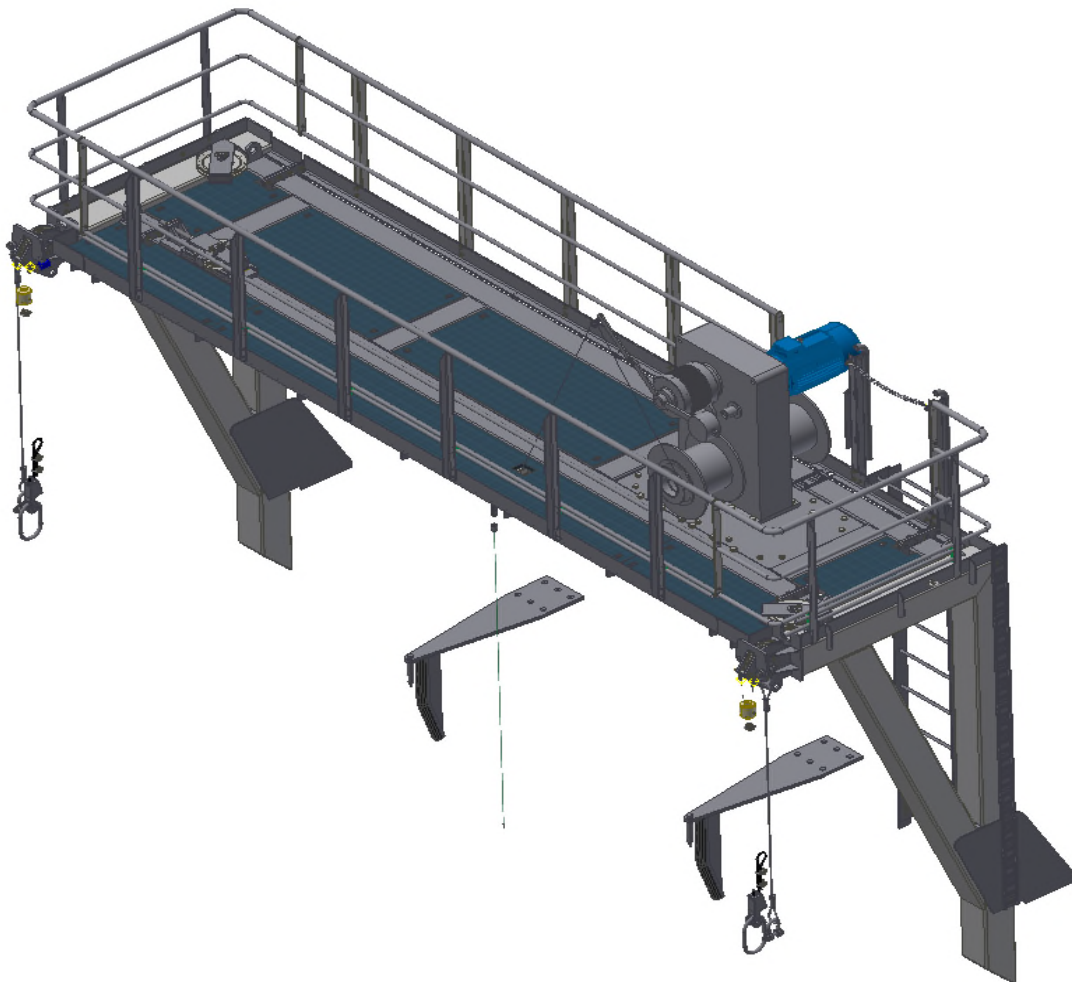




**VIKING  
NORSAFE**  
Boats and davits

Enterprise No.: NO940411696  
[www.VIKING-life.com](http://www.VIKING-life.com)

## C-65 – Cantilever Lifeboat Davit



TECHNICAL SPECIFICATION

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VIKING Project No.: TBA

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# 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

Type	Cantilever Lifeboat Davit
Model	C-65
Application	Conventional Lifeboat handling
Drawing reference	G-503752
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.)	4879 kg, davit incl. winch (dry weight)
Safe Working Load (SWL)	6625 kg
Trim / list conditions	20° / 20°
Max. lowering height	55 m (including 20°/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	3 (three) 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 utmost position / stowed position. Electrical limit switches on the winch provide failsafe operation of the hand crank.

## 2.2 WINCH AND WIRE

<b>Type</b>	<b>NW-85 winch</b>
<b>Drawing reference</b>	G-501460
<b>Wire rope type</b>	Galvanized, rotation resistant (certified item)
<b>Wire rope diameter, MBL and spec.</b>	Ø 18 mm, MBL 229 kN, 1960N/mm <sup>2</sup>
<b>Inner / outer wire end</b>	Secured to drum / Wedge socket and safety wire clamp
<b>Wedge socket</b>	Included
<b>Master link w/handle</b>	Included (certified item)

## 2.3. ELECTRICAL

<b>Electric power supply</b>	<b>440V/3ph/60Hz (other on request)</b>
<b>Electrical cabinet</b>	IP56
<b>Remote control</b>	IP56
<b>Limit switch</b>	IP56
<b>Power consumption</b>	27 kW
<b>Starting method</b>	DOL - Direct on line
<b>Duty rating</b>	S2-10min
<b>Motor space heating</b>	Included, 40W
<b>Electrical cabinet heating</b>	Heat loss from 42V transformer
<b>Wiring</b>	All cables supplied and installed by yard
<b>Cables type</b>	Marine type, flame retardant halogen free
<b>Transformer</b>	Included, 440/42VAC (other on request)



Emergency stop Yes, mushroom type

## 2.4. PAINTING SYSTEM

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

## 2.5. DOCUMENTATION

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

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

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



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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  $\Delta$  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 C-65 davit types and variants.*

**JYN-57**

**JYN-65**

**(Others on request)**



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## 6. YARD SUPPLY / RESPONSIBILITY

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