



**VIKING
NORSAFE**
Boats and davits

Enterprise No.: NO940411696
www.VIKING-life.com

Midget-530 MKII, Waterjet



TECHNICAL SPECIFICATION

VIKING Norsafe Life-Saving Equipment Norway AS

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VIKING Project No.: TBA

VIKING Doc. No.: TSB-0018

Rev. Date: 07.08.2019

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. BOAT SPECIFICATION

2.1. GENERAL BOAT

| Type | Rescue Boat |
|--|--|
| Model | Midget-530 MKII, Waterjet |
| Length overall | 5,32 m |
| Length on fender | 5,30 m |
| Breadth | 2,07 m |
| Height | 1,82 m |
| Capacity, SOLAS minimum | 6 Persons |
| Capacity, SOLAS maximum | 8 Persons |
| Weight, fully equipped | 1.155 kg |
| Davit load, with 6 pers@82,5 kg | 1.650kg (Davit load with 8pers@82,5kg = 1.815kg) |
| Color | Orange (RAL 2004) |
| Operation temperature: | -15°C till +40°C |
| Hull/deck material | Fire retardent glass reinforced polyester (GRP) |
| Buoyancy material | Polyurethane foam |
| Bollards/towing | Aft bollard, painter hook in bow |
| Steering | Mechanical |
| Fender | Rubber pipe fender |
| Deck | Self-bailing |
| Console cover | PVC |
| Loose equipment | According to SOLAS |

Rescue boat designed and manufactured according to latest SOLAS/IMO requirements.

The rescue boat has excellent reliability, maneuverability, and sea keeping abilities in order to fulfil its prime function - to provide an effective means of search and recovery for persons missing at sea. Design and construction fulfil the need for reliable, low maintenance standby and operation. When installed with an approved davit, the boat fulfils the requirements for rescue boats on commercial vessels.

The boat is further designed to serve the search and rescue role, with deck layout allowing the crew to operate efficiently and comfortably over long time periods. The layout and performance of the boat ensures good diving support, survey and work boat duties.

The hull is a fully planning, giving optimum sea keeping ability at all speeds in all sea conditions.



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The space between hull and inner liner is filled with polyurethane buoyancy foam. If damaged below the waterline, the boat will float at safe level in fully flooded and loaded condition. The boat is self-bailing through two drainage outlets at the stern. The deck has an anti-slip surface. Lifelines are fitted on the gunwale.

A rubber pipe fender protects the hull by absorbing impacts.

Lifting is made by a single point arrangement, hook installed on engine casing in front of steering position. There is a painter hook in bow and a bollard in the stern.

The boat has been designed to provide a protected and safe working environment for the crew, engine and equipment. Console with a large spacious engine room makes service and maintenance easier and more comfortable. All electrical equipment is placed inside the console.

2.2 PROPULSION AND PERFORMANCE

| | |
|-----------------------------------|--|
| Propulsion | Inboard diesel engine with waterjet |
| Engine | Yanmar 4JH110 |
| Waterjet | Alamarin 185Jet |
| Speed, with 6 persons | Minimum 6 knots |
| Bollard pull | TBA |
| Instrument gauges | Fuel level, tachometer, (subject to standard engine type), audible alarm for temperature and oil pressure |
| Engine cooling | Engine fresh water cooling with header tank and heat exchanger as primary circuit. Secondary sea water circuit cooling heat exchanger with supply from waterjet. |
| Engine freshwater flushing | Connectors and valves installed for flushing of secondary circuit |
| Exhaust system | Seawater cooled |
| Fuel tank | 57 L, Seawater resistant Aluminium |
| Fuel valves | Shut-off on top of fuel tank and tank drain |

Typical data – subject to variation in engine installation and specified equipment. Engines of at least 90HP and up to 110HP can be installed. Please note that boat weight, bollard pull, speed and personnel capacity are only for reference and may vary with several factors.

2.3. RELEASE SYSTEM

| | |
|--------------------------------------|---|
| Release hook | K4-D FM Off-load release hook |
| Height, keel to lifting point | 1,72 m |
| Hang off system | Hang off link with connection point for shackle |

2.4. ELECTRIC SYSTEM AND NAVIGATION



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4. OPTIONS

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

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

| GENERAL BOAT | |
|--|--------------------------|
| Spare parts for 1 year, 2 years, 5 years or 10 years | <input type="checkbox"/> |
| Aft towing hook | <input type="checkbox"/> |
| Anchor | <input type="checkbox"/> |
| Boarding sprayhood | <input type="checkbox"/> |
| Cargo tie down points in deck | <input type="checkbox"/> |
| CO2 fire extinguisher system in engine room | <input type="checkbox"/> |
| Embarkation ladder | <input type="checkbox"/> |
| Fire pump | <input type="checkbox"/> |
| Labelling in dual language | <input type="checkbox"/> |
| Painted railings and hand rails | <input type="checkbox"/> |
| Rescue cradle | <input type="checkbox"/> |
| Shock mitigating seats | <input type="checkbox"/> |
| Other options | <input type="checkbox"/> |

| PROPULSION AND PERFORMANCE | |
|-----------------------------------|--------------------------|
| STEYR MO94 | <input type="checkbox"/> |
| STEYR MO114 | <input type="checkbox"/> |
| Dual oil or fuel filters | <input type="checkbox"/> |
| Flywheel protection on engine | <input type="checkbox"/> |
| Hydraulic steering system | <input type="checkbox"/> |
| Sand filter for cooling water | <input type="checkbox"/> |
| Oil pressure instruments | <input type="checkbox"/> |
| Water temp. instruments | <input type="checkbox"/> |
| Rudder pos. instruments | <input type="checkbox"/> |
| Wireless Deadman switch | <input type="checkbox"/> |

| ELECTRIC SYSTEM AND NAVIGATION | |
|--|--------------------------|
| AIS system | <input type="checkbox"/> |
| 12V outlet in console | <input type="checkbox"/> |
| Ex plug for ext. power supply | <input type="checkbox"/> |
| Ex battery box | <input type="checkbox"/> |
| Bilge water detector in engine and waterjet room | <input type="checkbox"/> |
| Crew finder | <input type="checkbox"/> |
| Echo sounder | <input type="checkbox"/> |



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| | |
|---|--------------------------|
| Engine heater | <input type="checkbox"/> |
| Engine room heater | <input type="checkbox"/> |
| Heater in waterjet compartment | <input type="checkbox"/> |
| EIPRB | <input type="checkbox"/> |
| Fire detector in engine room | <input type="checkbox"/> |
| FLIR camera | <input type="checkbox"/> |
| GPS equipment | <input type="checkbox"/> |
| Loud hailer | <input type="checkbox"/> |
| Intercom system | <input type="checkbox"/> |
| HID or LED search lights | <input type="checkbox"/> |
| LED illumination in engine room | <input type="checkbox"/> |
| LED illumination of instrument panel | <input type="checkbox"/> |
| Loose el. cable for ext. power supply | <input type="checkbox"/> |
| Electrical system according to NMD requirements | <input type="checkbox"/> |
| Radar equipment | <input type="checkbox"/> |
| SART | <input type="checkbox"/> |
| Strobe lights | <input type="checkbox"/> |
| VHF equipment | <input type="checkbox"/> |
| Waterproof battery box | <input type="checkbox"/> |
| Work lights on self-righting frame | <input type="checkbox"/> |

DOCUMENTATION

| | |
|--|--------------------------|
| Factory acceptance test procedure | <input type="checkbox"/> |
| Factory acceptance test report | <input type="checkbox"/> |
| Inspection and test plan | <input type="checkbox"/> |
| Shipping, handling and lifting procedure | <input type="checkbox"/> |
| Packing & unpacking procedure | <input type="checkbox"/> |
| Commissioning procedure | <input type="checkbox"/> |
| TAG list | <input type="checkbox"/> |
| Fuel system drawing | <input type="checkbox"/> |
| Steering system drawing | <input type="checkbox"/> |
| Engine, propulsion, exhaust and cooling system drawing | <input type="checkbox"/> |
| Bilge system drawing | <input type="checkbox"/> |
| Noise test report | <input type="checkbox"/> |
| Weight and COG datasheet | <input type="checkbox"/> |
| Weighing report/certificate | <input type="checkbox"/> |
| Other drawings/documentation/procedures | <input type="checkbox"/> |

5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe Midget-530 Propeller fits below davit models and variants.



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| | |
|--------------------------|-------|
| NDA-16/25 | SOLAS |
| NRC-25/34 | SOLAS |
| NDSC-25/34 | SOLAS |
| NRB-20 | SOLAS |
| Others on request | |

6. YARD SUPPLY / RESPONSIBILITY

| | |
|-------------------------|--|
| Transport | Depending on contract |
| Fuel | Marine diesel oil according to engine manual specification |
| Connection cable | From starter cabinet to rescue boat supply plug |

