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Communications

- Full GMDSS area A1, A2 & A3 installation
- 2 x inmarsat-C installation
- 1 x SSB Radiotelephony installation
- 3 x VHF Radio Telephony
- 1 x EPIRB & Radar transponders
- 1 x Navtex receiver

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Navigation

- Integrated bridge system fore and aft bridge incl. GPS, AIS
- X-Band Radars: 1 x 5' Scanner
- S-Band Radars: 1 x 14' X-band Scanner
- Multi pilot remote stations
- 3 x gyro & 1 x magnetic compass & 1 spare magnetic compass
- 1 x Speedlog SAM 4642 dual axis
- 1 x Echo Sounder SAM NES 4610
- 2 x Clinometer dual scale
- 1 x meteo system
- ECDIS system Multiplot ECIDISPILOT platinum
- 2 x 2000W Xenon Search Lights
- 2 x 1000W Halogen Search Lights

**KONINKLIJKE
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NIESTERN // SANDER

Royal Niestern Sander is a modern shipyard located in the port of Delfzijl in the Northern part of the Netherlands, with direct access to the North Sea and surrounded by a maritime network of subcontractors and suppliers to the maritime industry.

We combine our mutual knowledge into optimal ship designs resulting in high quality vessels that fulfill the challenging requirements of our clients. We are certified ISO 9001 and SCC**/VCA**.

SHIPBUILDING

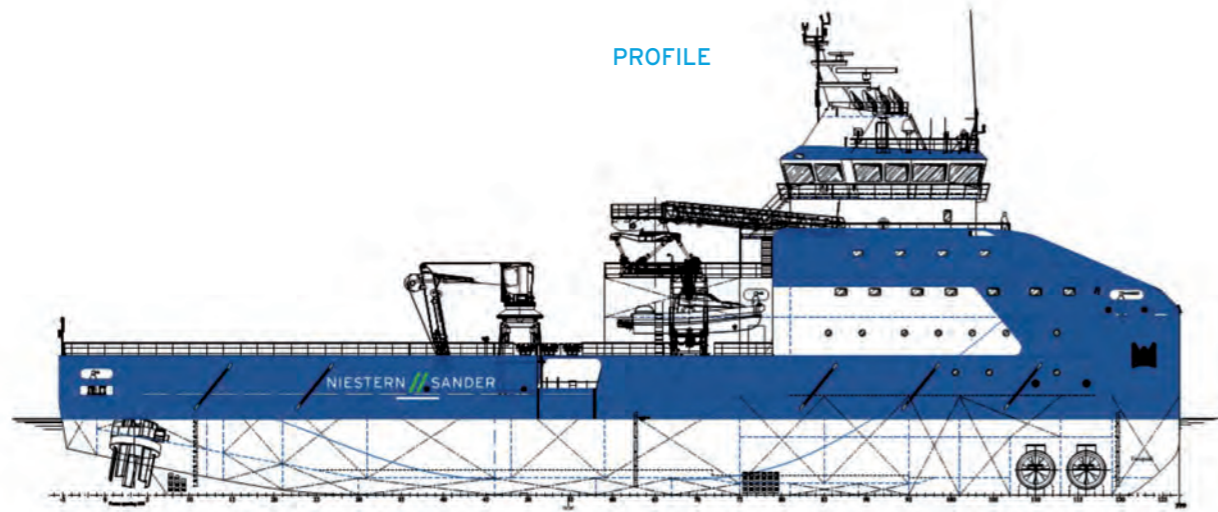
Reliable, versatile and all-round

WALK TO WORK VESSEL 'W2W'

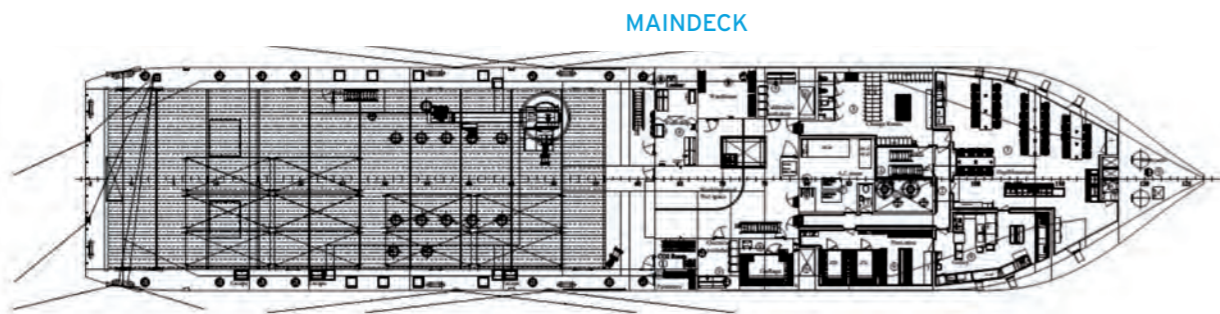
The "Walk to Work" Maintenance Support Vessel is our latest design, with a new approach to offshore maintenance support. The vessel is designed as a comfortable platform to allow optimal performance of its Ampelmann gangway for people transfer and for fully motion compensated deckcrane operations with its T40 Bargemaster crane. The accommodation has a capacity of 60 POB (crew and offshore workers) Excellent DP performance is guaranteed by the Voith Schneider Propulsors and silent thrusters keeping the vessel in accurate position up to a wave height (Hs) of 2,5 m. The Voith Schneider roll reduction function for crew comfort is incorporated in the system.

Tanklayout includes the below deck storage capacity for chemicals in duplex steel tanks, in accordance with LHNS Requirements and IBC Code for type 2 chemicals. A high pressure pumping system for MEG-injection is installed in a dedicated pumproom below deck.

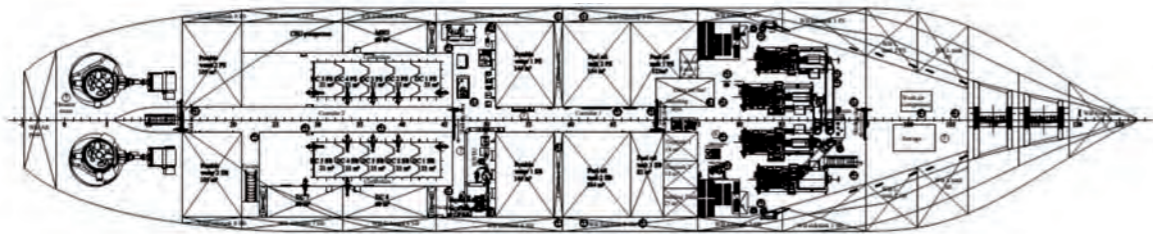
This is our unique solution for efficient-, safe- and effective maintenance support operations to offshore platforms for oil and gas or wind energy.



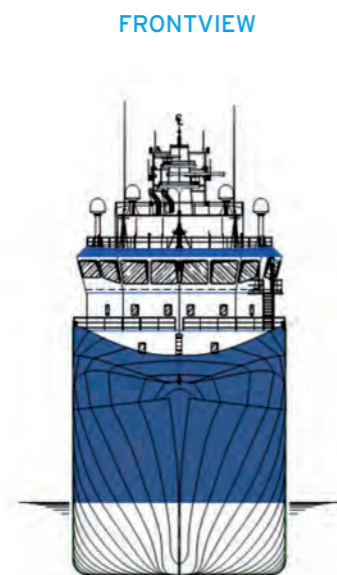
PROFILE



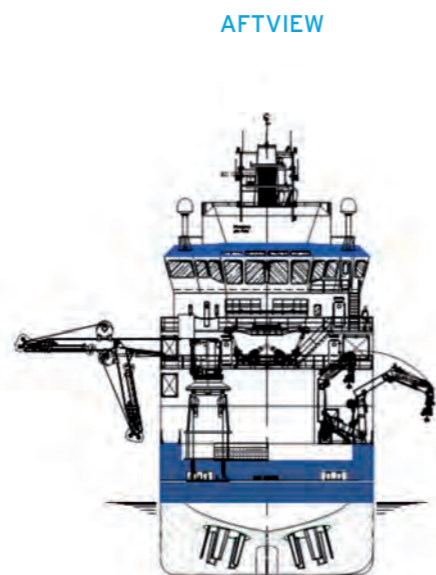
MAINDECK



TANKTOP



FRONTVIEW



AFTVIEW

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General

Yard
Royal Niestern Sander, NL

Year
January 2015

- Classification**
- BV
 - I; +HULL; + MACH;
+ AUT-UMS
 - Unrestricted navigation
 - Supply Vessel LHNS
 - IBC code: 'Ship type 2'
 - DYNAPOS AM/AT-R
 - + ALM
 - Cleanship
 - Interwatersurvey
 - COMF-NOISE 3
 - COMF-VIB 3

Flag
Netherlands

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Dimensions

Length overall	79.43 m
Length dwl	79.25 m
Breadth overall	15.85 m
Depth	7.00 m
Deadweight	
(@ max draught)	2000 t
Design draught	5.00 m
Gross Tonnage	3696 GT
Nett Tonnage	1108 NT
*Salinity seawater	1.025 t/m ²

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Capacities

Fuel oil bunkers	532 m ³
Fuel set and day tanks	63 m ³
Potable water	498 m ³
Chemical tanks	382 m ³
Cargo Deck	466 m ² (5 t/m ²)

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Propulsion

Main Diesel Generators
Caterpillar, 4 x 3512C HD (TierII)
Rating: 1700 ekW each
Voltage: 3 ph 690 VAC/60Hz

Propulsors
Voith Schneider Propellers
28R5 ECS/234-2
Rating: 1850 kW each

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Auxiliaries

Emergency Diesel Generator
Caterpillar, 1 x C9
Rating: 269 kW
Voltage: 3 ph 440 VAC/60Hz

Bow Thruster
Voith Inline Thruster 2000-1000
2 x 1000 kW
690 VAC/66Hz

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Accommodation

Complement
60 persons

Cabins
20 single cabins, 20 double cabins

Other facilities
Hospital, Meeting room/Internet
Café, Offices, Day-/messroom,
Gymnasium.

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Speed

Speed in open water
13 kn at 90% MCR of drive motor
at design draught

Range
At design draught at least 14 days

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Delivery rates

Fuel oil
75 m³/hr @ 6.0 bar/ 2" TODO

Freshwater
50 m³/hr @ 6.0 bar/ 2" TODO

Chemicals
75 m³/hr @ 6.0 bar/ 2" TODO

MEG
5 m³/hr @ 420 bar/injection hose
on reel

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Deck Equipment

**Ampelmann A type XL
gangwaysystem**

**Motion compensated crane Barge
Master**
20 t - 10m/12.65 t - 15m/ 8.2 t -
20m

Capstan aft deck
1 x 5 t

Tugger winches
2 x 5 t

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Safety Equipment

- Lifesaving arrangement in
according to SOLAS
- Fast rescue boat/MOB boat -
inboard driven water jets -
type luffing davit
- Rescue zone and hoisting
equipment for rescue
operations
- 6 x Life rafts (30 pers each)
- 60 survival suits
- 60 Life jackets
- Daughter Craft for 15 persons