ROYAL WAGENBORG

WALK 2 WORK
THE NEW STANDARD IN OFFSHORE SUPPORT AND MAINTENANCE
Offshore locations are more often located in remote and inaccessible areas, which results in a growing demand for support vessels and innovative vessel designs.
A CHANGING OFFSHORE WORLD DEMANDS INNOVATIVE VESSELS

The worldwide demands for energy are constantly high and, despite the economic conditions, still growing. In the upcoming years renewable energy, oil and gas will become indispensible to meet the increasing energy consumption.

Many major companies are exploring possible ways to generate renewable energy and produce oil or gas from the most remote and inaccessible areas, including offshore locations.

Logically offshore activities are booming and evolving rapidly. Due to these developments offshore activities are forced to adapt. With an increasing emphasis on safety and sustainability many working methods nowadays are revised and improved.

Reducing logistic and operational costs to a minimum is the biggest challenge ahead since offshore locations are built in the most harshest environments, further from land facing higher waves.

As a result of this changing offshore world, the needs for offshore supporting vessels are continuously increasing which requires innovative vessel designs.

In close consultation with the offshore industry Royal Wagenborg developed a new type of specialized maintenance support vessel. The vessel’s design combines many functional requirements which are considered essential for offshore activities. Both the offshore wind power industry as the offshore oil and gas industry will benefit from this vessel.

Dubbed the ‘Walk to Work’ vessel, the new unit is a genuinely unique design that will play a crucial role maintaining and servicing unmanned offshore locations in a manner consistent to the developments in the offshore world.

Discover how efficiency, safety, comfort and the environment inspired the vessel’s concept and her design.

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The combination of many features such as a motion compensated offshore access system allows maintenance and service crews literally to ‘work-to-work’. And that a hundred miles at sea!
THE VESSEL’S CONCEPT AND DESIGN PRINCIPLES

By adding a new type of vessel to her fleet Royal Wagenborg again took a new step in her existence. This new build offshore maintenance vessel, dubbed the ‘Walk to Work’ vessel, will enable offshore activities to be executed in a more efficient, safe, comfortable and cost-effective manner.

Efficiency
The dynamic positioned vessel combines a work shop, a storage space, accommodation facilities and a transport method in one single design. Equipped with motion compensated elements, such as an offshore access system and crane, the vessel is designed to be operational 300 days a year. This way logistic processes can be optimized during maintenance and servicing activities in the offshore wind power and oil & gas industry.

The vessel’s autonomy will reduce helicopter flights to offshore locations resulting in substantial cost savings.

Safety
Transferring people and equipment from the vessel to an offshore installation must be performed in the most safest way possible. Offshore crews will be able to literally ‘walk to work’ by using the access bridge making offshore access easy as crossing the street. The most challenging feature of the vessel’s design is the motion compensated crane, which can safely transfer equipment from the vessel onto an offshore installation. Especially the ability to safely compensate for pitching and rolling motions in addition to heave, will be an added value. The motion compensated access system and crane are able to compensate waves up to 2.5 meters.

Comfort
The vessel is specially designed for people who are not used to sailing. Avoiding seasickness is important in the vessel’s design and results in a pleasant working environment and comfortable cabins.

Environment
The Walk to Work vessel can be considered as an environmental friendly support vessel due to features as a low power consumption and low noise thrusters. The vessel is unmatched in energy efficiency and enables considerable fuel saving possibilities. Classified as a Clean Ship the Walk to Work vessel can be marked as a green vessel.

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INNOVATIVE BY COMBINING MANY FEATURES

Both the offshore wind power industry as the oil and gas industry will benefit from the many features the Walk to Work vessel combines. Please read more about the specifications.

Motion compensated crane
Safe lifting operations are guaranteed with a three-dimensional neutral and heave compensated hook with a minimal footprint on deck. Roll, pitch and heave motions are compensated with vertically mounted cylinders, which are placed between the vessel and the crane. The lifting capacity is 20 ton @10 m / 2 ton @32.5m (DAF1.25).

Motion compensated gangway
A fully integrated access system will be used to transfer people from the vessel to offshore structures and to transfer small cargoes or equipment. The system compensates the motion of the waves up to 2.5 m.

Accommodation facilities
The Walk to Work vessel offers accommodation facilities for 60 people, including 20 crew.

Green DP® system
The Walk to Work vessel is equipped with the Kongberg GreenDP® system which was designed to reduce fuel consumption. This sophisticated system employs a control strategy that uses the smallest possible thrust vector, and thus power, to keep the vessel inside user-defined boundaries of the working and operational area. Studies have shown that a minor sacrifice in station keeping accuracy pays off by a fuel reduction of about 20%.

Deck space of 500m²
The vessel is designed with a huge deck space of 500 m² for maintenance equipment.

Voith Schneider Propulsion
Two Voith Schneider Propellers enable stepless control of thrust in terms of magnitude and direction for the vessel. The VPS makes extremely fast and precise thrust changes possible and enables efficient dynamic positioning under extremely harsh weather conditions and roll stabilisation of the vessel. The bow thruster are specially designed for very low noise levels.

OPTIONAL
Chemical supply and Cold Start-Up
The vessel will be certified and equipped with a below-deck tank installation for transporting and bunkering 6 different chemicals. The vessel is equipped with a Cold Start-Up installation for well stimulation.
Start construction of the Walk-to-Work vessel at shipyard Niestern Sander

Turning around the deck section

Duplex steel tanks for chemicals under construction

The nose of the Walk-to-work vessel is ready to be fitted...

Welding of the Barge master crane foundation in progress

The bottom section with 4 generator sets

PHOTO IMPRESSION
BUILDING PROCESS OF W2W VESSEL AT THE NIESTERN SANDER SHIPYARD
The construction of block 1 in progress

The construction of block 2 continues

Painting in progress before block 2 is shifted to the quayside

Sections waiting on the quayside to be assembled into one vessel

Engineroom outfitting in progress

Welding of the Bargemaster crane foundation in progress

After a long period of hiding behind scaffolding, finally she shows her unique bowform

Painting in progress before block 2 is shifted to the quayside
TECHNICAL SPECS

DESIGN DEDICATED TO THE OIL & GAS INDUSTRY

- Heave compensated crane
- Motion compensated gangway
- Accommodation facilities
- Green DP® system
- Low noise thrusters
- Chemical supply and cold Start-up
- Voith Schneider Propulsion
- Deck space of 500m²
- The daughter craft

WAGENBORG
**GENERAL SPECIFICATIONS**

Type of vessel: Dynamically Positioned Maintenance Support vessel

Special purpose ship: Special purpose vessel

Yard: Royal Niestern Sander, The Netherlands

Built: 2013 - 2014

Flag authority: Dutch

Homeport: Delfzijl

Class: Bureau Veritas

Notation:
- I +HULL, +MACH, +AUT-UMS
- UNRESTRICTED NAVIGATION
- SUPPLY VESSEL LHNS
- DYNAPOS AM/AT-R
- +ALM
- CLEANSHIP
- IN WATER SURVEY
- COMF-NOISE 3
- COMF-VIB 3

**DIMENSIONS**

- Length over all: 79,43 meters
- Length between perpendiculars: 76,08 meters
- Length waterline: 79,25 meters
- Breadth: 15,85 meters
- Depth: 7,00 meters
- Drought max.: 5,00 meters
- Gross tonnage: 3,750 tonne
- Deadweight: 2,800 tonne
- Deck area: 500 m²

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**GENERAL SPECIFICATIONS**

- **Type of vessel**: WindFarm Service Operation Vessel
- **Yard**: Royal Niestern Sander, The Netherlands
- **Flag authority**: Dutch
- **Homeport**: Delfzijl
- **Class**: Bureau Veritas
  - 1 +HULL, +MACH, +AUT-UMS
  - UNRESTRICTED NAVIGATION
  - OFFSHORE SUPPORT VESSEL
  - DYNAPoS AM/AT-R
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- **Gross tonnage**: 3,750 tonne
- **Deadweight**: 2,000 tonne
- **Deck area**: 330 m²
- **Store / Workshop place**: 190 m²

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Besides the Walk to work vessel, Wagenborg also owns and manages other offshore vessels, such as icebreaking supply and support vessels, shallow draught tugs and a crew transport vessel.
As one of the oldest and largest logistics companies in the Netherlands, Royal Wagenborg has always been a pioneer. Over a century has passed since it was founded, and yet the company continues to be at the forefront of the industry.

Wagenborg was established in 1898, employs 3,500 people and manages about 230 vessels, including multipurpose vessels, ferries, icebreaking supply vessels, tugs, a fast crew transfer vessel and various offshore support vessels. In addition, Wagenborg provides heavy lifting and transport solutions, 1,800m of quay and 390,000m² of storage space.

Wagenborg undoubtedly forges its own path; not many companies have such a complete range of logistic services resulting in a proven track record.