

ROYAL
WAGENBORG

**OUR SPECIALIZED SERVICES TO THE
OIL & GAS INDUSTRY**



As one of the oldest and largest logistic companies in the Netherlands, Royal Wagenborg has always been a pioneer and today, the company continues to be at the forefront of developments. Wagenborg undoubtedly forges its own path; not many companies have such a complete range of logistic services dedicated to the oil and gas industry.

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



DEDICATED TO THE OIL AND GAS INDUSTRY

Royal Wagenborg offers full scope logistic services to the oil and gas industry: from logistics, crane work and 24-hour service for onshore extraction in the Netherlands to offshore maritime and supply services in the Caspian Sea. From rig moves in Europe and beyond to complete oilfield services at various locations in Russia, the Middle East and North and West Africa. Discover how our services can be a solution for your logistic challenges.

RIG MOVES



RIG MAINTENANCE & INSPECTION



OILFIELD SERVICES



PIPELINE LOGISTICS



OFFSHORE SUPPORT & SUPPLY



CONDUCTOR DRIVING & INSTALLATION



A large industrial crane is the central focus, featuring a prominent red jib and a grey tower. The crane is positioned on a flat, paved surface. In the foreground, a worker wearing a red uniform and a white hard hat stands with their back to the camera, looking towards the crane. The crane's tower has a yellow hook and a red and white striped hook. The sky is clear and blue. The crane's tower has a sign that reads "KCA DEUTAG".

Royal Wagenborg operates a variety of cranes up to 750 tons capacity.

All of our cranes are equipped with a luffing fly jib and most of them with superlift attachment, which makes a large range of configurations possible. Of course, all our cranes are operated by skilled and experienced crane drivers. We herewith offer a full package of heavy lift services with modern equipment and a skilled project team.

RIGMOVES

Our experience goes back to the time when the first wooden land rig was erected for the Bataafsche Petroleum Maatschappij (later Shell) in the Netherlands. In the years to follow, our work area expanded to Europe, the Middle East, North Africa and the former Soviet Republics.

In Europe, Wagenborg Foxdrill can mobilize state-of-the-art equipment for every rig move, such as cranes, trucks, vessels and rigging equipment. Most of this equipment is owned by the Wagenborg Group. For overseas moves, the expertise of other Wagenborg companies can be used, resulting in a door-to-door service.

- **180 multipurpose vessels**
- **1.700 - 23.000 DWT**
- **Ice classed vessels**
- **Geared - non geared vessels**
- **11 pontoons (inland and seagoing)**
- **660 - 20.000 DWT**
- **7 tugs up to 62 ton BP**
- **Modular trailers**
- **Heavy duty trailers, lowloaders and semi lowloaders**



1



2



3



4



5



6

REFERENCES

- 1. T48 (KCA Deutag)**
Various moves, Gabon
- 2. Rig 30 (ITAG Tiefbohr)**
Various moves, Germany/The Netherlands
- 3. T-160 (RWE Dea)**
Various moves Germany
- 4. Euro Rig (MND Drilling)**
Various moves Europe
- 5. T 700 (KCA Deutag)**
Various moves The Netherlands
- 6. T46 (KCA Deutag)**
Various moves Europe



Royal Wagenborg can offer clients total maintenance and inspection solutions. For one of our clients we maintain a complete rig including development of plans, stock control and purchase management. This is all done by well trained personnel according the latest standards.

Wagenborg offers complete derrick inspections, dropped-object surveys and survey services in accordance with API 4F and 4G.

RIG MODIFICATIONS, MAINTENANCE & INSPECTIONS

Royal Wagenborg has been involved in a variety of modification projects in recent decades. For the execution of modification projects we have a variety of professional equipment to choose from, such as ultra-light rigging systems, floating gin pole and netting systems. Tools are available, such as hydraulic torqueing tools and dedicated winches. If required, our engineers are able to design customized lifting devices. In case of complex projects we are able to train our people in combination with the proposed systems on our test mast. Modifications are mainly executed by using rope access techniques. The majority of our personnel has been employed by our company for many years and is highly qualified, experienced and competent.



MAINTENANCE SERVICES:

- Development of maintenance programs
- Maintenance of drilling & well intervention equipment
- Purchase management
- Stock control.

INSPECTION SERVICES:

- Complete rig inspections
- Dropped object surveys (DROPS)
- Consultancy
- Factory and Site Acceptance Tests
- Electronic reliability and safety inspections;
- Explosion proof safety inspections

REFERENCES

- 1. Stena Spey**
Overhaul parts of derrick, Keppel Verolme, The Netherlands
- 2. Various rigs Noble**
Derrick modifications, Noble Drilling, Europe
- 3. Scarabeo 5 and 8**
Derrick modifications, Saipem, Europe
- 4. Blackford/Bredford Dolphin**
Upgrade derricks, Dolphin A.S., Poland/The Netherlands
- 5. Hoist NAM Schoonebeek**
Complete maintenance and inspections
- 6. SEPLG rig 56**
Rig inspection, Shell/EDC, Egypt



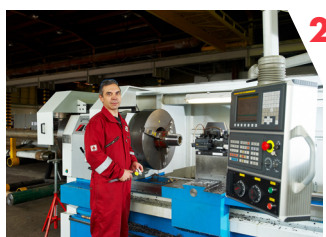
AMC
ENGINEERING
LIMITED

OILFIELD SERVICES

Wagenborg Oilfield Services LLC started in Russia in 2010. The head office of the company is located in Noyabrsk, western Siberia. Being a worldwide operating company and a part of Royal Wagenborg, Wagenborg Oilfield Services LLC is dedicated to provide services and equipment of high quality. All Wagenborg Oilfield Services employees regardless of their position follow the rules and are compliant with the laws of the Russian Federation, as well as with the internal rules and company health and safety policy. We take care of the environment and do not allow any soil and air pollution by industrial waste.

CERTIFICATIONS

- **DPM-DS Connections**
- **ISO 9001**
- **Certificate of conformity**
- **IQNet**
- **NDT Laboratory**
- **API 7-1**
- **API Q1**



SERVICES

1. Drilling tools rental

Double-acting hydraulic drilling jars
Tubulars (hwdp, drill pipe, drill collar)
Stabilizers, crossovers
Handling tools

2. API licensed machine shop

Threading of api connections
Crossovers manufacturing from steel
Aisi 4145h mod qt
Special tools manufacturing

3. Casing exit system

Wagenborg wedgecut®
Engineering support

4. Hardfacing solution

5. Downhole services



With about 180 multipurpose dry cargo vessels, Wagenborg is serving the wind turbine industry within Europe, across the Atlantic to the Americas and from Asia to the US. Transportation of wind turbines, in large or small projects, has become one of Wagenborg Shipping's focus areas where we have successfully proven to be a reliable, sound and very flexible partner to the wind power industry.

PIPELINE LOGISTICS

Our logistic hubs in Delfzijl and Eemshaven offer opportunities to many industries, among which recently the oil & gas industry has been a significant player. Our terminals, with a total storage area of 390,000m², are perfectly suited for loading, unloading and transshipment of many types of cargo. They are excellent for the transshipment and storage of gas pipelines. In addition, Wagenborg provides heavy duty trailers, SPMT's and heavy mobile and crawler cranes to ensure a safe and efficient on-site transport. Besides our logistic services Wagenborg is AEO certified, which ensures all customs formalities to be executed in a professional manner.

- **Terminals in Delfzijl and Eemshaven**
- **Open en covered storage**
- **Total storage of 390.000m²**
- **1,800m of quay**
- **RORO facilities**
- **Deep draught**
- **AEO-certified**
- **ISO 9001 certified**
- **ISO 14001 certified**
- **OHSAS 18001 certified**
- **GMP+B3 certified**
- **VCA trained personnel**



REFERENCES

1. NEL

- 17,032 pipes
- 52 weeks nonstop logistics operations
- 52,000 man hours
- 10 railway stations, 33 storage locations
- 78 truck loads a day

2. OPAL

- 26,908 pipes
- 9 railway station offloading locations, 42 storage locations
- 72 weeks of nonstop logistics operations
- 80 truck loads a day

3. NorgroN

- Transshipment and temporary storage and load out of pipelines.



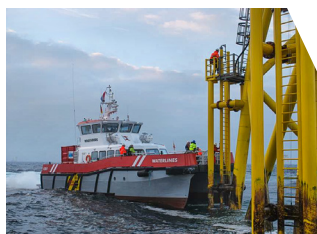
As part of the Wagenborg Group shipyard Royal Niestern Sander expanded into a modern and diverse shipyard with customers all over the world.

At Niestern Sander we take care of vessels: from shipbuilding to repair and from design to maintenance. We handle a broad range of vessel types from bulk carriers to general cargo vessels and from the recent icebreaking offshore support vessels to the pioneering walk to work vessel.

OFFSHORE SUPPORT & SUPPLY

Wagenborg is a specialist in offshore support and supply services. With our versatile and diverse fleet, consisting of icebreaking supply vessels, support vessels, shallow draught tugs, a fast crew transfer vessel and a pioneering new build “walk-to-work” vessel, we offer specialized services. These services consist of supply services, icebreaking, tug services and crew transfers. By doing so, Wagenborg profiles a supply strategy that can be complemented with stock management, equipment, people and safety management.

- **Shallow water specialist**
- **Ice infested water expert**
- **Environmentally sensitive**
- **Diverse fleet**



REFERENCES

- 1. NAM/Shell UK (2013)**
Design and building of walk-to-work vessel to support maintenance activities of 56 offshore platforms in southern North Sea in the upcoming 10 years.
- 2. Nordsee Ost (2013)**
Providing crew transport with crew transfer vessel Waterlines.
- 3. Dolwin Alpha (2013)**
Wagenborg terminal Eemshaven as onshore hub taking care of the supply scope during installation and commissioning of platform.

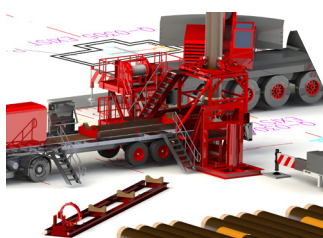
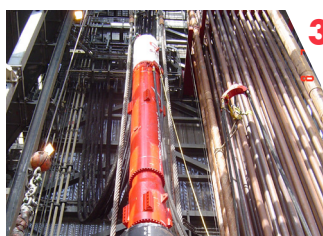


Over the years, Wagenborg expanded its hammer spread. Currently the company owns state of the art equipment, such as IHC S-150, S-90 and S-70 hydraulic hammers. This piling equipment is available in many countries in the world and can be shipped at short notice.

CONDUCTOR DRIVING & INSTALLATION

Conductor installation is another activity of Royal Wagenborg. Involvement goes back a long way as Wagenborg was one of the first companies which introduced the IHC Hydrohammer for installing conductors offshore. This hammer concept holds many advantages over diesel-driven types, e.g. controllability of the piling process and environmental aspects.

For onshore applications, Wagenborg uses purpose-built trailers. These trailers ensure that the conductor is held in a vertical position as the hydraulic hammer drives it into the soil. Significant cost savings are realized as a drilling rig is not required. Also, this installation method allows for the entire operation to be undertaken off the critical field development path.



We offer our clients tailor-made solutions. Our inhouse engineers together with reliable partners have the skills and expertise to develop tools for specific jobs, such as piling frames, torque systems, handling equipment, piling trailers and hoisting frames.

REFERENCES

- 1. Schoonebeek Redevelopment**
73 onshore conductors, NAM, The Netherlands
- 2. EPC2/3/4**
Conductors offshore, Weatherford/Agip KCO, KZ
- 3. West/East/Central Azeri/DWG**
Conductors offshore, Weatherford/BP, Azerbaijan
- 4. Various projects**
Conductors onshore, NAM/Exxon Mobil/Gaz de France/Wintershall/RWE Dea, Germany / The Netherlands



sign of solutions

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