

Offshore Capabilities

Noordhoek Offshore B.V.



Noordhoek CONSTRUCTOR
DPII SAT Diving / Construction Vessel

Noordhoek is a leading independent subsea contractor operating within the international oil & gas, cable and renewable energy industries. With over fifty years in the business, we employ a skilled, motivated and valued workforce which strives to achieve complete customer satisfaction by providing professional, cost-effective and high-quality services where health, safety and environmental considerations are given top priority.

The capabilities of our offshore business unit (Noordhoek Offshore B.V.) includes diving and ROV services, subsea construction and installation, IRM (inspection, repair and maintenance), decommissioning and abandonment and remediation / stabilisation services.

Our primary offshore diving/construction vessel is the Noordhoek CONSTRUCTOR, which was purpose built for Noordhoek and delivered in mid 2010. Owned, managed and operated by Noordhoek, the Noordhoek CONSTRUCTOR is a DPII dive support vessel with a helideck and accommodation for

seventy people. She is equipped as standard with a 100 tonne offshore crane, 200 metre depth rated 12 man saturation diving system, and double air-dive spread. This diving spreads can be supplemented by ROVs as required, ranging in size from eyeball/inspection class to full work class vehicles.

As well as utilising our own vessels we also operate from platforms and third party vessels.

Noordhoek operates worldwide, with a focus on northwest Europe. ■



Noordhoek PATHFINDER
DPII ROV Support / Survey Vessel



Diving and ROV Interventions

Noordhoek owns and operates a large range of diving and ROV systems. These in-house designed and built systems are in compliance with international standards, certifying authority standards and IMCA design and operating guidelines and include:

- Vessel integrated saturation diving system
- Vessel integrated closed bell TUP Diving System®
- Portable (zone2) diving systems including launch and recovery systems, hot water supply plants and equipment units
- Portable (zone2) observation (CLASS I & II) and work class ROV systems including launch and recovery systems and workshop units.

System certification and maintenance is driven by a comprehensive electronic Planned Maintenance System (PMS) and performed in-house by highly qualified personnel. ■



Inspection



Inspection of offshore jackets and (fixed and floating) structures including the related subsea infrastructure is one of the cornerstones of our business and we undertake ongoing annual inspection campaigns for leading North Sea operators. These operations are performed by divers and/or ROVs depending on the working depth and/or on the type of offshore / subsea structures. These services include:

- Video Inspection
- Leak Detection
- Marine Growth measurement
- Weld Inspection
- CP Readings
- UT Readings
- MPI Readings
- ACFM
- Flooded member detection
- Scour surveys.

Our software suites for inspection processing ensures efficient development of detailed and factual inspection reports and include comprehensive recommendations where relevant. ■



Repair and Maintenance

Our repair and maintenance services encompass both diver and remotely operated vehicle operations, planned and unplanned requirements and can be integrated within our inspection services.

Project management, basic design & engineering and procurement requirements are all covered from within the Noordhoek group whereas specialist engineering requirements are handled by our federal engineering contractor.

Our repair and maintenance services include:

- Structural wet welding repairs
- Coverdam and habitat aided dry repairs
- Cable and pipeline repairs. ■



Construction and Installation



Combining the available group disciplines (design & engineering, marine, diving, survey and ROV operations) Noordhoek is the ideal partner to provide general and specialist installation and construction support services. These services can be undertaken directly for a client or in support to the EPIC contractors on larger projects.

Our construction and installation services include, but are not limited to:

- Positioning and installation of subsea structures
- ROV and diver installation and tie-in of pipelines, flowlines, cables and umbilical
- Subsea manifold installation and tie-ins. ■



Decommissioning and Abandonment

More than 10 years ago Noordhoek successfully completed the development of an abandonment tool to remove subsea conductors.

Our conductor abandonment tool has been used very successfully for various clients and removed 6 meter (sub-seabed) sections ranging from 20 inch to 36 inch.

Today our decommissioning and abandonment services have expanded to complete decommissioning and abandonment of subsea facilities and subsea structures.

These services include initial field inventory and inspections, cost estimates and project budgeting, engineering, preparation, removal, and disposal. ■



Remediation and Stabilization

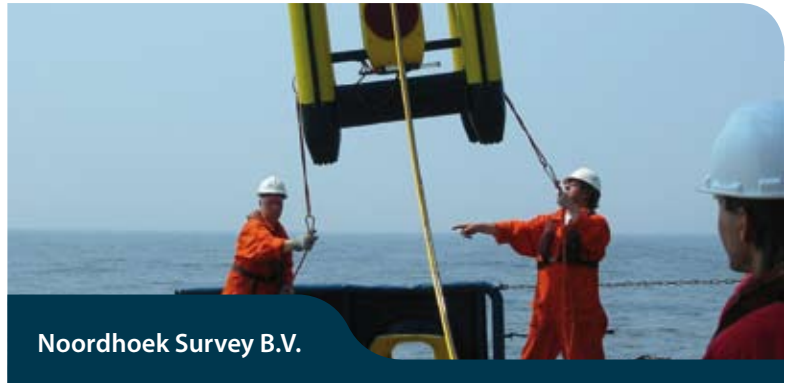
Noordhoek provides vessel, platform or rig based diver or ROV remediation and stabilization services. These interventions can involve spudcans and caissons, pipelines, cables, umbilical and platform legs.

Our preventive and/or corrective remediation and stabilization services include:

- Mattress placement
- Rock dumping using bulk / big bags
- Free span corrections
- Grouting / grout-bagging. ■

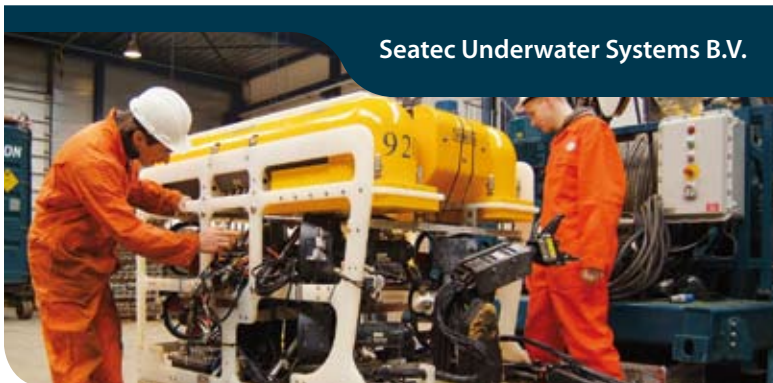


Noordhoek Offshore B.V.



Noordhoek Survey B.V.

The four companies within the Noordhoek group benefit from shared resources and expertise. Our marine, diving, ROV and survey services often compliment each other. This makes Noordhoek the ideal partner in providing complete integrated offshore / subsea services covering a wide range of disciplines. For further information, please visit our website at www.noordhoek.net ■



Seatec Underwater Systems B.V.



Noordhoek Diving Company B.V.

Quality, Health, Safety and Environment

Noordhoek operates an Intranet based Integrated Management System (IMS), encompassing policies, processes, procedures and work-methods on the relevant Quality, Health, Safety and Environment aspects. The IMS meets the ISO9001:2008, ISO14001:2004 and VCA/SCC** requirements and has accredited by Lloyds Register Quality Assurance. ■

Supply Chain Management

The Noordhoek group is registered with the various industry initiatives such as FPAL, Achilles and UVDB. The information contained within the various systems is carefully kept up to date and verified where required. ■

Operational Excellence

Noordhoek is an active member of IMCA and all operations, whether marine, diving, ROV or survey, are performed in accordance with the applicable IMCA guidelines and local legislative requirements. Combining these guidelines and requirements, detailed operational procedures and an unsurpassed operating culture ensures our operational excellence at all times. ■

Our Office

The Noordhoek head office is located in Zierikzee, the Netherlands and we operate a subsidiary office in Aberdeen, Scotland. Out vessels are mobilized / demobilized from the most appropriate port for any given project. ■

