



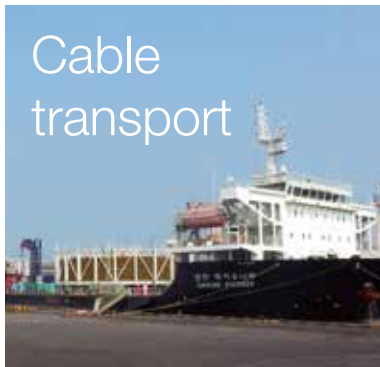
OCEANTEAM SOLUTIONS

Brochure
2015

Engineering



Cable
transport



Cable handling & storage



Equipment





About Oceanteam Solutions

Oceanteam Solutions focuses on solution driven offshore services by combining strong engineering and equipment capabilities. This way it can support its clients' offshore cable, pipeline and umbilical installations, transport and storage projects in the most beneficial way.

Our marine asset business unit designs, builds and owns a large pool of demountable turntables and additional equipment for a variety of cables, umbilicals, pipes and flowlines. Business unit KCI designs and engineers complete platforms, infrastructure and innovative equipment based on 28 years of expertise.

Our company is known for its reliability, flexibility and pro-active approach. With our long term inhouse experience we ensure the most effective solutions, no matter how complex the project.

- **Cable transport**
- **Cable storage**
- **Cable handling**
- **Deck spread**
- **Engineering**
- **Human resources**

Turntables

Oceanteam Solutions designs, builds and owns a large pool of various sizes demountable turntables with a capacity of up to 5000t. We have 10t and 15t track tensioners and a variety of burial equipment, reel drive systems and associated lay equipment.

From our base in Velsen Noord the Netherlands, with deepwater quayside facilities, we can accommodate all sizes of vessels for mobilisation and demobilisation with easy access to the North Sea.

Our company is specialised in building demountable turntable systems which can be delivered in 40ft containers to all ports globally. We can design and produce turntables in various sizes, for onshore and offshore use and for a variety of cables, umbilicals, pipes or flowlines. We are known for delivering quality equipment and services within limited time; our turntables can be built within a 3 month timeframe.



Our turntable series are designed for quick mobilisation with limited deck load. All system components are “plug and play” and interchangeable. The modular systems are delivered to the mobilisation site in 40 ft containers. As a result the equipment is sea and road transportable and can be mobilised to any port around the world in a highly cost effective manner.





Portal

Oceanteam Solutions designed and built a loading tower and power quadrant for cable installation on a barge. The loading portal can move over the barge and can pull cables out of four static tanks. KCI designed the cable lay system from scratch and it was built under supervision of Oceanteam Solutions.

Containerised Offshore Cable Loading Tower

In our equipment pool we have a fully containerised offshore cable loading tower with a pulling capacity of 15mt and an adjustable product diameter range of 50 to 630mm OD. The tower can be used in conjunction with Oceanteam Solutions modular turntables. The loading tower is designed for loading and deploying cables, umbilicals and flexible flowlines.





Tensioners

10T Tensioners

Oceanteam Solutions has available 10t baricon tracked tensioners for installation of power cables and umbilicals. The tensioners are delivered with a control cabin and HPU. New to the equipment pool are our 10t OTS tensioners with a 3.185mm track contact length. These robust systems can easily be bolted, via a sacrificial base, to the vessel deck. The tensioner systems are road transportable.

15T Tensioner

Oceanteam Solutions has available a 15t caterpillar tensioner for installation of a variety of products with a diameter ranging from 70 - 630mm. The tensioner is delivered with a control cabin and HPU and has a 3.000mm contact length and a maximum opening of 700mm. The product is always positioned in the centre line, and can be set to speed mode or tension mode, depending on the specific project requirements. The lower track is fixed, and it is possible to load and unload the cable from the side.

This robust system can be easily bolted or welded to the deck and is road transportable.

Cable transport

Having a solid background in shipping & cable transport, Ocean-team Solutions is able to source all types of tonnage through its large network of acquainted ship owners.

On behalf of its clients we select, charter, equip and manage vessels for cable transports.

Our transport services consist of the following:

- Transport management
- Engineering and implementation of vessel modification works
- Engineering, construction and installation of static cable tanks
- Mobilisation and operation of turntables and cable engines
- Cable handling from shore-to-ship, ship-to-ship or ship-to-shore
- Cost budgeting



Buildup of a 3000T demountable turntable for long term cable storage for the Gemini Offshore Wind Farm project





Power Reel Systems and Storage Reels

Oceanteam Solutions supplies different sizes of storage reels with drive systems that can handle up to 500T of a variety of cables, umbilicals, pipes or flowlines. Reels up to 125T are modular and can be transported by road.

Velsen Base

Facilities

We operate from our deepwater base in Velsen,

- Situated immediately behind the North Sea of IJmuiden, in the direct proximity of Amsterdam.

Key details of our base include:

- Non-tidal port
- 400 meters of quay
- Maximum draught 12 meter
- Maximum beam 42 meters
- 100 ton capacity crane on the premises, cranes with more capacity on request
- Closed compound under surveillance

Workshop

Our workshop and outside storage facilities have easy access to quaysides suitable for vessel mobilisations. The workshop's infrastructure can support equipment fabrication, repairs, maintenance and pre-mobilisation activities.



KCI Engineering

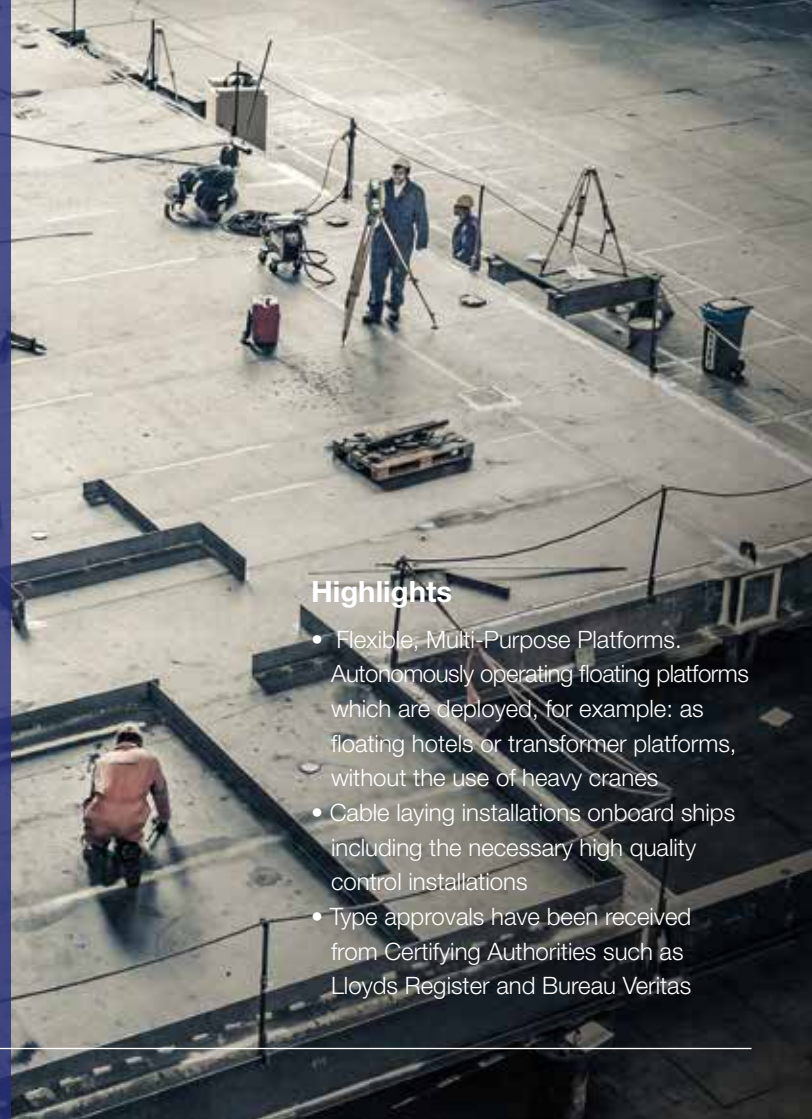
KCI is a company firmly rooted in the oil, gas and renewable industry. Not only do we come up with fullscale oil, gas and renewable concepts, we also guide our customers from development right through to the systems being taken into operation for the first time.

What we do

- we design and build complete oil and gas development concepts
- we design and build complete renewable energy concepts
- we develop complex and special structures for both industries
- we create contemporary solutions for complex environmental challenges

Mission

Is to be the first choice engineering partner for clients in the upstream oil and gas, complex structures and offshore renewable industries. The development of offshore wind farms means that new methods are required to install foundations and cables on the seabed with more efficiency. To this end, KCI has developed special installations onboard ships which are modified for this purpose. Spools, roller boxes and lifting systems make it possible to lay long stretches of cable on the seabed and install foundations with great accuracy, directly from the ship. KCI has also developed autonomously operating floating platforms, such as transformer platforms, which can be deployed for many other purposes.



Highlights

- Flexible, Multi-Purpose Platforms. Autonomously operating floating platforms which are deployed, for example: as floating hotels or transformer platforms, without the use of heavy cranes
- Cable laying installations onboard ships including the necessary high quality control installations
- Type approvals have been received from Certifying Authorities such as Lloyds Register and Bureau Veritas

Cablelaying

Energy generated by wind turbines has to be converted and then transported ashore. Due to experience gained in the oil and gas industry KCI has become a specialist in the sub-sea installation of cables and pipelines. KCI has sophisticated in-house developed software to carry out seabed analyses in order to determine the most efficient cable or pipeline routes. These analyses also identify the type of cable or pipeline to be used. The location of, and manner in which the cables or pipelines are brought ashore is predetermined through a detailed design.

Highlights

- KCI works with contemporary analysis software developed in-house
- Specialist in the installation of cables and pipelines in demanding maritime conditions
- KCI designs also incorporate the conversion of energy in order to bring it ashore
- Familiar with and working in accordance to; current local legislation, regulations and procedures
- KCI specialises, not only in cable lay equipment, but also cablelay analysis and procedures

KCI Oil & Gas

KCI generates installations for oil and gas gathering, from the initial design stages right through to the complete field development, in-house. This process comprises all the necessary concept designs, risk analyses, calculations and identification of factors such as the influence of wind and water on production, drilling and installation. To facilitate this, KCI uses the most up to date software, which includes software developed in-house and enables accurate assessments of an installation's technical feasibility and economic yield.

Highlights

- Feasibility study is based on client specifications and self developed innovative concepts and ideas
- Evaluation of the size and composition of the gas or oil field
- Marginal fields require cost effective solutions
- Fully integrated design process which comprises all necessary studies and analyses
- Calculation of the location's economic feasibility and yield regarding low cost, low risk and high return
- All undertakings are in accordance with local legislation and regulations, and all safety requirements
- Knowledge of reservoir and production
- Cost estimate assurance

Visit www.kci.nl for more information.





Oceanteam Cable Solutions

Oceanteam Cable Solutions facilitates the submarine cable industry by offering its clients a full and integrated range of services comprising cable storage, cable handling, and cable transport:

- Short and long term storage at facilities in Velsen, with fast access to the North Sea
- Hub for ship-to-ship cable transfers
- Vessel mobilisation/de-mobilisation
- Transport to and from any worldwide port
- Various sizes of turn tables and static tanks readily available
- Cable transfer equipment and experienced cable handling crews available

Oceanteam Cable Solutions already has an extensive track record. Long and short term storage and handling for:

- E.ON
- Eneco
- Prysmian
- RWE
- Vattenfall





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