

**NKT**

# The NKT Victoria

State-of-the-art high-voltage cable laying vessel



# Carrying 9,000 tons of high-voltage cable.

## And over 100 years' installation experience.

The installation process is a critical phase of a turnkey solution for a high-voltage cable system. It takes a combination of deep know-how and reliable equipment to perform these complex projects. By utilizing historical experience of high-voltage cable projects while also employing and investing in state-of-the-art equipment, NKT is able to ensure the highest quality from start to finish.

Deadweight:  
**12,000 tons**  
at 7.80 m draft

Beam:  
**30 meters**

Work deck area:  
**1,600 m<sup>2</sup>**

Accommodation:  
**100 people**  
in 76 cabins

Length:  
**140 meters**

Speed:  
**Min. 12 knots**  
at max deadweight

### Purpose built for cable laying

NKT Victoria's innovative and beachable vessel design is the result of our extensive experience of offshore installation operations. The vessel is capable of simultaneous dual HVDC and fiber optic cable-laying and deep sea HVAC installation using a high-capacity tensioner system. These, and many more cutting-edge features, contribute to higher efficiency and precision of the installation and service execution, while offering maximum safety for both crew and cables.

### Meeting safety requirements

As part of a turnkey solution, this custom-built vessel will improve flexibility and execution. The many features onboard enable optimized benefit of weather windows, which allows safe and efficient vessel operation in high sea states/waves. The offshore market's stringent safety requirements are met throughout the installation process thanks to sophisticated roll reduction technologies that mitigate the effects of harsh sea conditions. Fire and flooding containment systems protect essential systems, ensuring ongoing operations are not compromised. Advanced remotely operated vehicles (ROVs) equipped with cameras and sonar are used for subsea operations, while also contributing to increased safety.

### Precision and accuracy

Superb precision and accuracy are two hallmarks of NKT Victoria. Both are achieved using dynamic positioning technology of the highest class (DP3), enabling stable and precise cable laying. An advanced system of sensors, monitoring hardware and software enables data to be sent to shore via a satellite link. This allows the onshore technical support centers to remotely troubleshoot and support the vessel offshore, and together with advanced advisory software for motion monitoring, forecast and decision support, it also ensures cable integrity and crew safety. The vessel's beachable design, flat bottom and six-point mooring system enables operation in shallow waters near landfalls.

### Designed by industry leaders

Capturing NKT's extensive experience and expertise in submarine operations, the NKT Victoria is custom-built according to specifications. It comes equipped with all the features necessary to successfully perform even the most advanced installation procedures. The vessel has been developed by some of the most acknowledged industry leaders, including SALT Ship Design, MAATS, ABB Marine and Kleven, ensuring highest flexibility and accuracy in installation execution.

### Energy efficient operations

The NKT Victoria uses a power-from-shore solution together with onboard technologies such as Azipod propulsion units, an energy storage system for marine applications and ABB Marine's Onboard DC Grid. This reduces fuel consumption significantly compared to other cable-laying vessels available on the market for any given project. The power-from-shore connection can be maintained while loading the cable onto the vessel – a unique advantage which results in a more environmentally-friendly operation. With the new cable laying vessel as part of NKT's portfolio, a turnkey solution will de-risk the installation operation by providing full control of everything from cable design and manufacturing to installation and service – the complete value chain from start to finish.

### Outstanding competence for complex projects

Excellent competence is key to successful installation and service projects. The teams manning the vessel and executing the installation of high-voltage cable systems are all highly experienced and skilled. NKT can therefore provide the right competence for these complex projects, ensuring that operation and equipment run efficiently. The vessel is designed to accommodate 100 people. It includes a gym, day-rooms, entertainment facilities, office space, a helicopter platform and a lounge – all to create a comfortable environment for the crew onboard.

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NKT is signatory of the Europacable  
Industry Charter: A commitment  
towards superior quality.