



5,000 t tub crane on Seaway Strashnov



Staying ahead of market demands

For more than 100 years, our robust, heavy lift cranes have helped clients stay ahead in the demanding offshore market. Since the early 20th century, NOV has provided cranes with high lifting capacities and high outreaches for the harsh marine and offshore environment. Our heavy lift crane offerings and extensive experience are built on a foundation of legacy businesses such as GustoMSC and AmClyde.

We have always placed high demands on the quality of our products, which ensure a long service life of our cranes, or as we like to say, “A lifetime of lifting.” It’s our longstanding ambition to help you remain at the forefront of both the offshore wind and the oil and gas markets, and our future-proof, offshore heavy lifting capabilities have delivered continuous success. To maintain our goal, we continue to develop the required knowhow and overall understanding of your heavy lifting operations to help you to stay ahead of market demands.

Optimized integrated solution We understand the interaction of crane and vessel, and we can provide advice on the most efficient integrated crane solution that delivers safe, optimal performance. All our heavy lift cranes are built in accordance with international standards and certified by recognized international classification societies, ensuring the highest degree of safety.

Reducing environmental impact Our heavy lift cranes are designed to minimize the industry’s environmental footprint. Equipped with fully electric drive systems, rather than traditionally used hydraulic systems, they reduce energy consumption by around 25%, allow for energy recovery, storage, and reuse, and deliver digital solutions that increase efficiency and keep humans out of harm’s way. All without the risk of oil leaks while maintaining capacity and better performance.

Offering turnkey projects As part of the Marine and Construction business unit, our heavy lift portfolio offers complete turnkey projects, including engineering and design, manufacturing, installation, commissioning, testing, training, operational support, and worldwide aftermarket services. Our global manufacturing capabilities provide flexibility for the building locations of our heavy lift cranes, which can be conducted in-house, locally, or in cooperation with your team to ensure maximum time savings and reduced logistic costs.

Aftermarket services In addition to 24/7 technical support centers and a global team of field service technicians, we provide aftermarket engineering services, repairs, inspections, surveys, spare parts, and training. As equipment moves into the field, we stand ready to support it with the best customer service in the industry.



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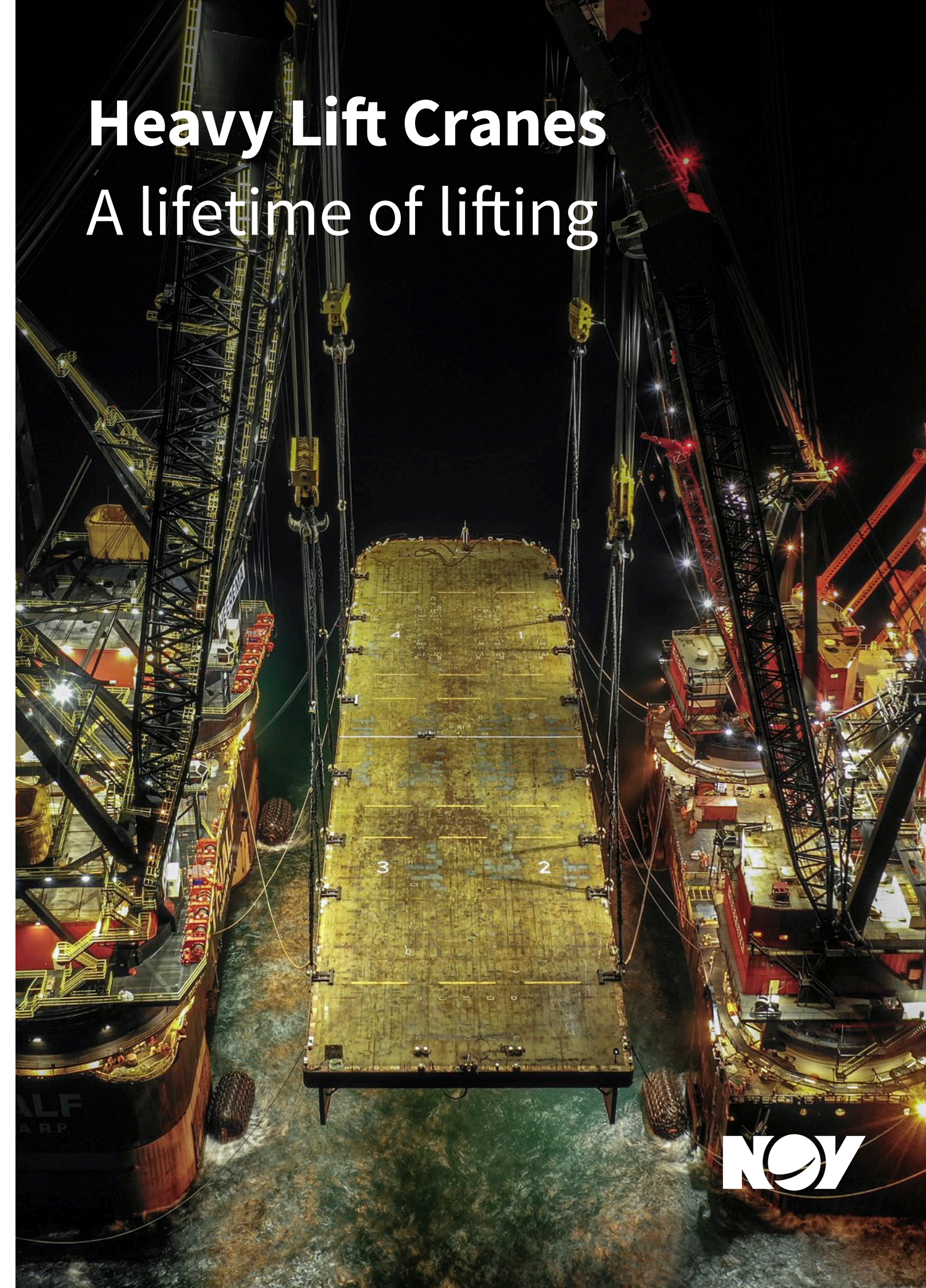


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Heavy Lift Cranes A lifetime of lifting





900 t leg crane on Sea Installer

Leg cranes

- Lifting capacities up to 5,000 t SWL
- Lifting heights in excess of 225m (738 ft)
- Various leg sizes
- Fully electric driven
- Low construction weight
- Slender but stiff boom design



2,500 t telescopic leg crane on Blue Wind

Telescopic leg cranes

- Lifting capacities up to 4,000 t SWL
- Lifting heights more than 210 m (689 ft)
- Various leg sizes
- Fully electric driven
- High outreach in extended mode
- Superior lifting capacity in retracted mode
- No limitation on transit conditions
- No mobilization time for changing boom configuration
- Simple and light integration on vessel



900 t AHC pedestal crane on Normand Maximus

Pedestal cranes

- Lifting capacities up to 1,500 t SWL
- Lifting heights in excess of 175 m (574 ft)
- Fully electric driven
- Low construction weight
- Slender but stiff boom design



7,000 t tub cranes on Saipem 7000

Tub cranes

- Lifting capacities up to 12,500 t safe working load (SWL)
- Lifting heights in excess of 200 m (656 ft)
- Innovative combination of heavy lift capability
- Small footprint
- Ability to pass bridges
- Improved location of centre of gravity
- Fully electric driven
- Low construction weight



Technology

Our latest crane models combine NOV's extensive experience with innovative solutions such as the telescopic boom that can be utilized for both foundation and turbine installation. Also segmented slew bearings are used to lower construction weight and reduce footprint. These innovations result in a state-of-the-art, competitive product.

Fully electric-driven system

Our fully electric-driven cranes have low energy consumption and allow for smooth, accurate operations while requiring less maintenance, fewer components, and reduced noise and vibrations without the risk of oil spill. The electric variable-frequency drive system has the ability to feed regenerated energy into energy storage systems like the NOV Powerblade™ system, batteries or a hybrid combination.

Digital portfolio

We offer a range of digital solutions that safely improve operability and provide efficient support for our heavy lift cranes.

• **Operator Support System (OSS)**

As an application layer on top of the NOV Max™ data and analytics platform, the GustoMSC-designed OSS provides real-time guidance to the operator based on data generated by equipment on board. The data can be extracted and then stored in the cloud, where it can be analyzed and securely shared with clients.

• **Remote access and diagnostics**

We can help you connect your live data to our technicians, enabling quick troubleshooting and resolution of equipment challenges. We understand that your data is highly valuable, and its safety is our number one priority. Our remote support offers powerful data loggers that provide a clearer picture of what is happening to enable efficient diagnosis of your equipment or operational issues.

Quick Connector

Our remotely operated Quick Connector provides a fast, secure, and reliable connection between the crane's lower block and tools underneath, enhancing safety and efficiency in heavy lift operations. Its ability to swiftly connect and disconnect components minimizes downtime, reduces labor costs, and improves overall project efficiency. The integrated Quick Connector in the lower block connects seamlessly with the corresponding sockets, creating secure and fail-safe operations.

Operators' cabin

Our operators' cabin has been specifically designed and optimized for use on cranes operating offshore. Our extensive experience combines a lifetime of lifting, customer surveys, and client feedback, and we've implemented that knowledge in the cutting-edge design and layout of our operator cabins. Our cabins ensure a large, unobstructed view for enhanced safety whilst providing a comfortable, ergonomic working environment for the crane driver.

Supporting clients to stay ahead in the offshore heavy lift industry

NOV Heavy Lift is supplying new heavy lift 1600 t cranes for Cadeler's existing O-Class vessels, Wind Orca and Wind Osprey, to upgrade the existing fleet's capabilities to handle the next-generation of turbines. The new heavy lift cranes offer a substantial capacity upgrade compared to the existing NOV cranes with 1200 t lifting capacity.

