

# Trident Cranes



## Your partner for a Lifetime of Lifting

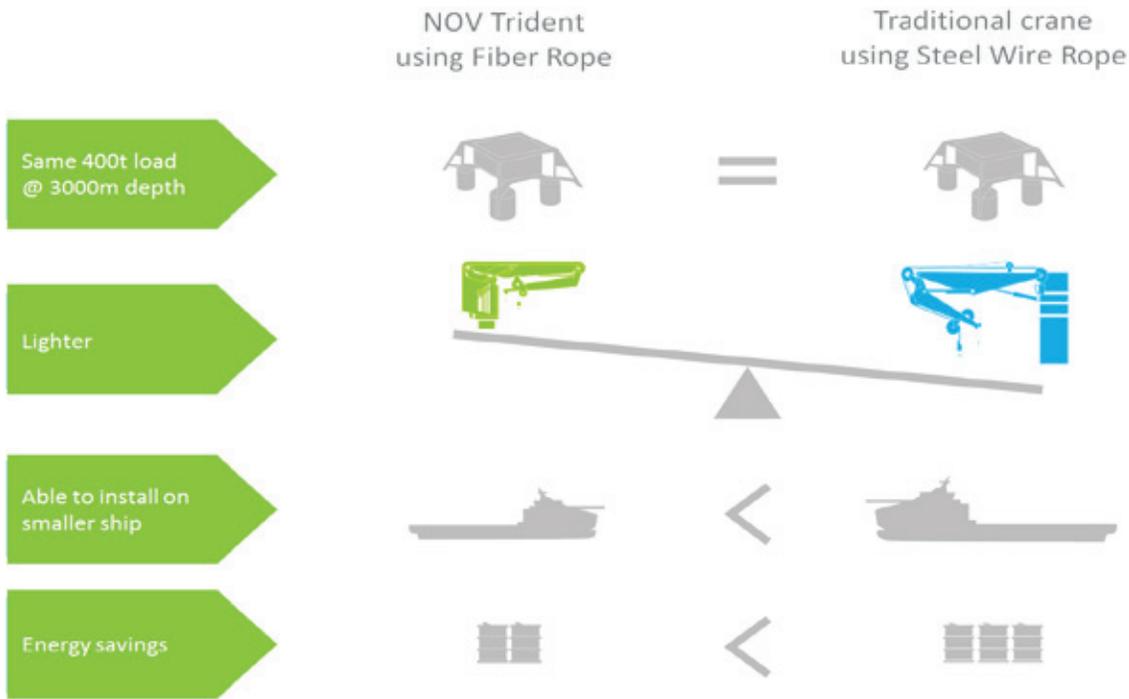
We have developed a ground-breaking crane concept purpose-built for fiber rope that will revolutionize the subsea crane market. This sleek outward design provides a glimpse into what lies beneath the surface. This innovative lifting system allows the unit to maintain its full lifting capacity at any operational depth; for example, a 400 t capacity NOV Trident Crane allows the user to bring an actual 400 t load to whatever depth chosen.



# NOV Trident Crane

The innovative hoisting system includes the patent pending "winch on king" concept and a spooling system that is designed specifically for the use of fiber rope. It utilizes a unique rope protection system which ensures that the rope temperature is conditioned and protects the rope from environmental exposure. The versatile design allows the use of fiber rope, hybrid rope, or steel wire, depending on the needs of the customer.

We believe in purposeful innovation, as such this new design will not only increase safety and improve the ability of the vessel, it will also redefine how the crane is operated with the introduction of the new Lifting Operation Station (LOS). By integrating LOS into the superstructure of the vessel near the bridge, the Trident Crane enables close communication during lifting operations onboard.



## Features

### Fiber Rope

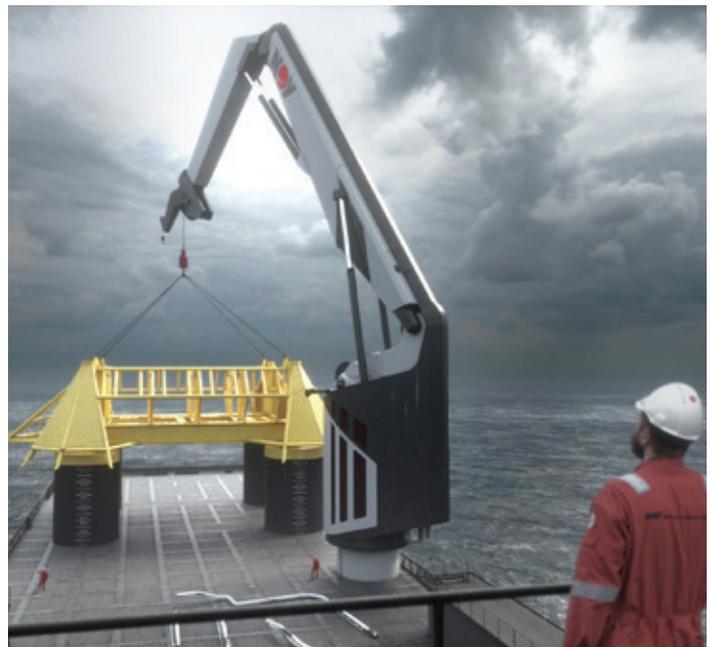
- No loss of hook capacity in deepwater operations
- Purpose-built for fiber rope, but can also handle hybrid rope or steel wire
- No corrosion issues
- Fiber rope protection system

### Lifting Operation Station (LOS)

- Safer, more efficient preparation, mobilization, and lifting operation
- Near vessel bridge location; crane operator no longer isolated in crane
- Extended operation possibilities, including possibilities for planning, simulation and training activities
- State-of-the-art dome offering benefit of impossible views, augmented reality, wave timing feature and timeline feature
- Improved human machine interface
- Increased safety for personnel on deck

### Crane Features

- Lower weight
- Reduced installation and commissioning – compared to below deck winch systems
- Lower CoG of crane system – compared to crane with winch above deck
- Electrically and/or hydraulically operated



NOV has a pending patent application directed to features and methods of the lifting crane design

