

IHC Engineering Business North Ocean 102 7,000t Carousel



Description

The 7,000t carousel, installed on the North Ocean 102, is designed to ensure maximum productivity and minimum downtime. Its unique roller suspension system ensures that the carousel can reliably operate in wide weather windows where vessels experience significant accelerations. Other innovative features include a hydraulically adjustable roof position and a modular design to ensure mobilisation time is minimised.

EB has a demonstrable track record of delivering high quality handling solutions in quick time frames and has designed a number of basket and reel carousels of different sizes and complexities. These have ranged from the upgrade and manufacture of a 400t basket carousel to 900t capacity, the design and manufacture of a 3,000t capacity umbilical carousel with spooling equipment to the supply of this 7,000t carousel spread with its innovative combined vertical level wind and compensator unit.

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Overview

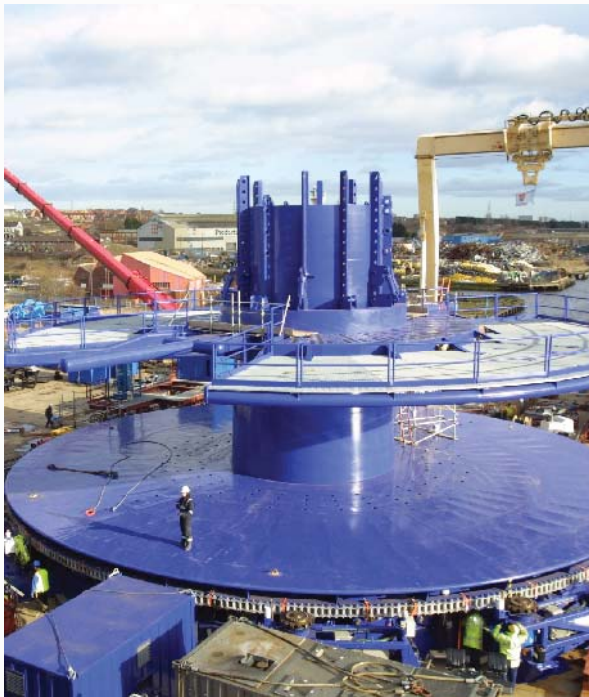
7,000t capacity carousel and level wind compensator for storage of power cable
 Client: Oceanteam Power & Umbilical
 Project Duration: 2006-2008

Features

- Accommodates product from 50mm to 420mm diameter
- Hydraulic roller suspension system
- Variable speed electric drive system
- Combined level wind and compensator system
- Hydraulically adjustable roof

Benefits

- Optimum use of the available deck space allows maximum payload to be carried
- Redundancy in carousel drives to ensure uninterrupted operations
- Grillage allows mobilisation onto vessels of opportunity
- External crane operations not required due to a hydraulic adjustable roof
- Tailor-made solution to customer requirements



Hydraulic Roller Suspension Systems

EB has developed an innovative roller suspension system to mitigate against roller failures due to operational loads and high capacity payloads.



Level Wind Compensator Tower

The spooling system was provided as a combined level wind and compensator system to make optimum use of the available deck space and to minimise set up time.



Grillage

A grillage structure was supplied to support the product loads and distribute them into the deck of the vessel. It is designed for ease of mobilisation onto other vessels of opportunity as well as minimising mobilisation time.



Hydraulic Adjustable Roof

To speed up the height adjustment of the roof and remove the need for external crane operations, a hydraulic adjustable roof was supplied.