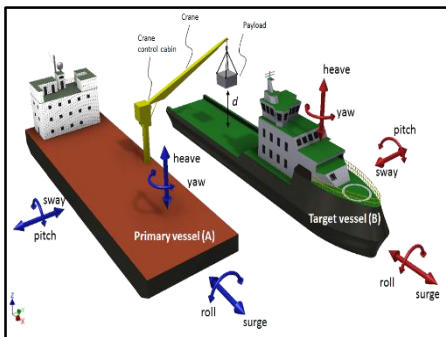


OFFSHORE LIFT ASSIST

SUPPORT & SERVICES



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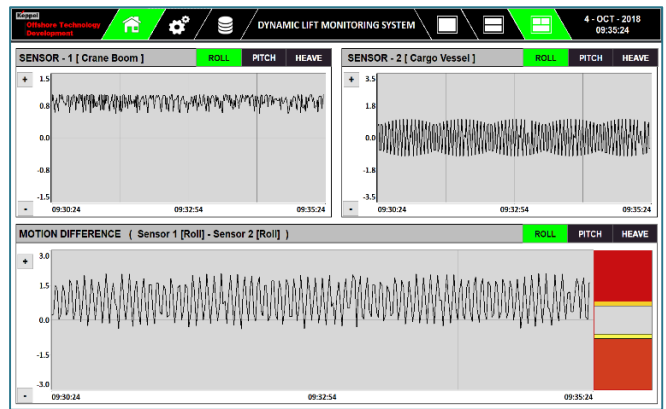
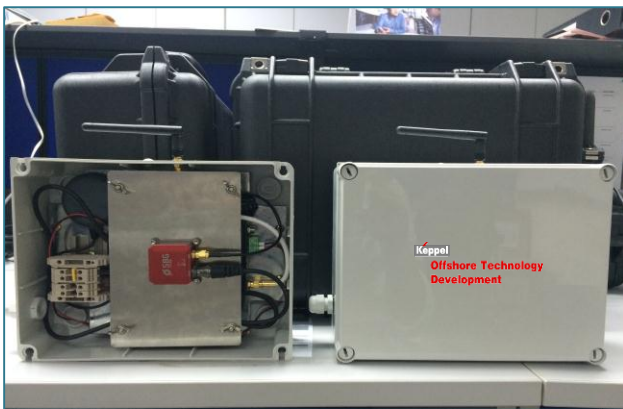
**Offshore Technology
Development**

Offshore Lift Assist System is a customised solution for crane operators which is developed to provide assistance and improvement in decision making during cargo handling between floating platforms in offshore environments.

During vessel-to-vessel lifting operations, the operator exercises judgment to lift and place the cargo based on his experience and motions of both vessels. A judgment error may result in impact, causing damage to the payload. The **Offshore Lift Assist System** assesses the motion of floating vessels in real-time, thereby optimising cargo handling and reducing non-productive waiting time required to get favourable weather conditions. The system is suitable for any type of crane working on stationary, floating, or mobile platforms.

The **Offshore Lift Assist System** provides real-time information of two vessel motions in the form of roll, pitch, and heave. Taking into account the vessel motions and lift dynamics, the system will assist operator's decision on the timing to start cargo lifting and placing operation.

The system utilises multiple sets of motion sensors placed in a portable enclosure which can be attached to the lifting cargo or floating vessel main deck for motion measurements. The measured data is displayed on the HMI panel located near the hoisting system to assist the operator while performing lifting operations. The motion sensors are powered via rechargeable batteries and transmit the data to HMI panel wirelessly, ensuring instant deployment for any lifting operations.



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