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HERCULESPRO CASE STUDY
**Enhance Visibility &
Communication during Dry Bulk
Cargo Loading**

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Dry bulk cargo often faces operational challenges in visibility and communication. To tackle these issues, vessels like Gerdt Oldendorff use the HerculesPro Wireless Crane Camera to improve operations.

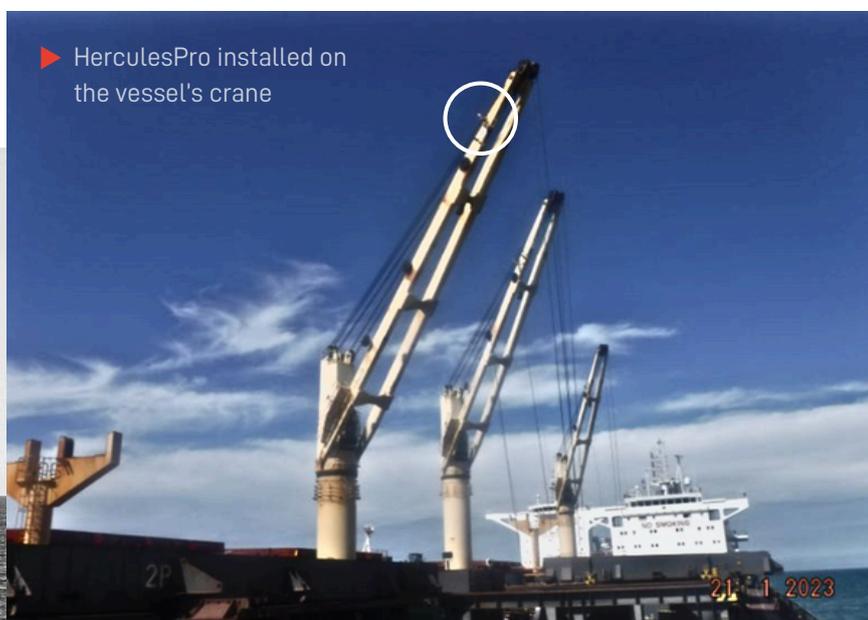
BACKGROUND

Dry bulk cargo transports often faces operational challenges. Limited visibility inside cargo holds, compounded by environmental dust, hinders crane operators' to see clearly during loading. Additionally, communication gaps between crane operators and ground teams might lead to errors, resulting in vessel damage and higher maintenance costs. To address these challenges, a solution that provides live video feeds of the cargo hold and boom tip is needed.

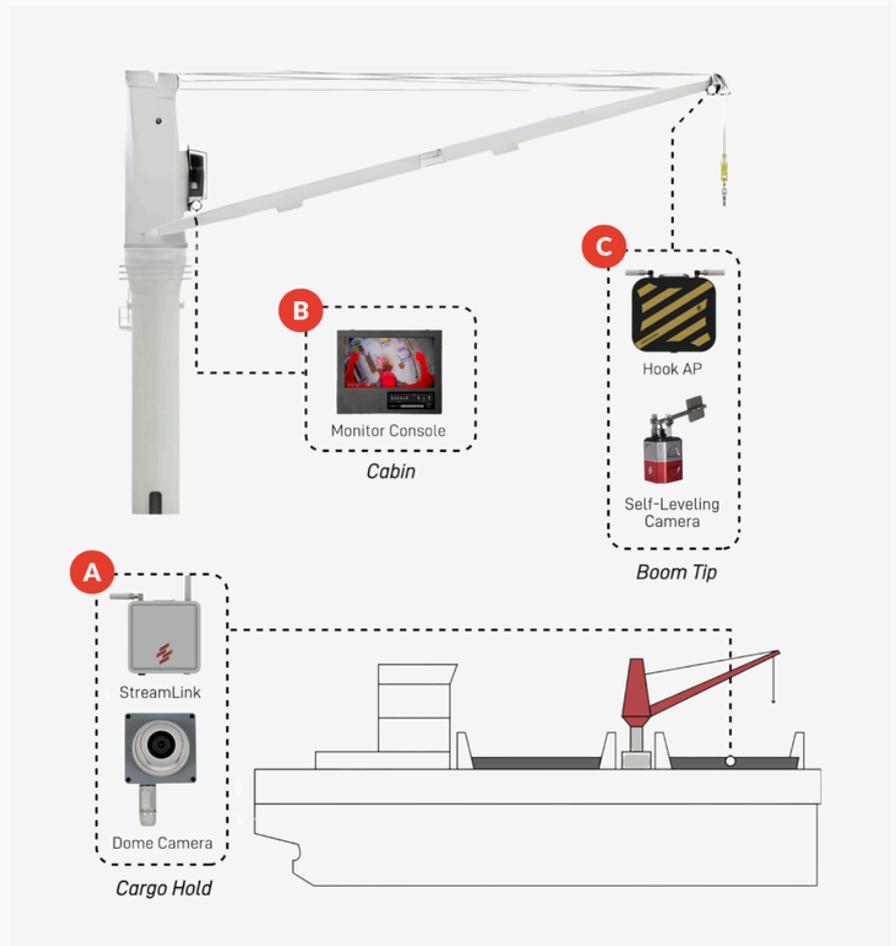
SOLUTION

HerculesPro has been deployed on vessels like the Gerdt Oldendorff, ensuring comprehensive monitoring and safety during cargo handling.

Gerdt Oldendorff is a bulk carrier vessel built in 2014. It has a gross tonnage of 44,218 tons and a deadweight of 80,874 tons, designed for transporting dry bulk commodities across global shipping routes.



In this vessel, the HerculesPro system is installed at three key locations: the boom tip, cargo hold, and cabin. The key components include the StreamLink and dome camera in the cargo hold (A), the monitor console in the cabin (B), and the self-leveling crane camera with Hook AP on the vessel's crane boom tip (C).



A Cargo Hold

A dome camera was positioned to capture a wide-angle view of the loading and unloading process. The StreamLink device was implemented to seamlessly transmit real-time video and data from the cameras to the operator's cabin.



B Cabin

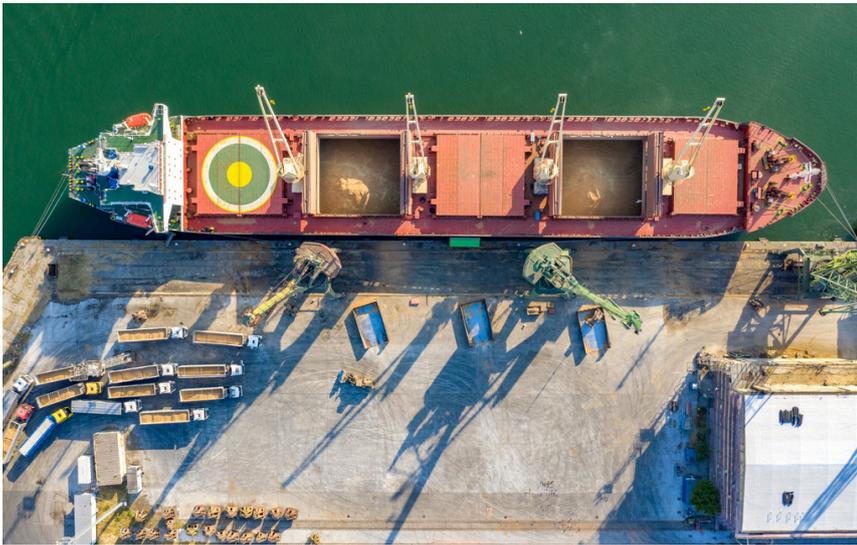
All video feeds were displayed on the monitor console in 2K resolution in the cabin, giving the crane operator clear visibility of the entire operation.



C Boom Tip

Self-leveling crane camera and Hook AP were installed to provide automatic adjustment of viewpoint & real-time visuals of the cargo handling process, enhancing precision and safety.

This installation provides operators with clear visibility into the cargo holds, making HerculesPro an ideal solution for application in the shipping and logistics industry.



This HerculesPro solution was customized to perfectly suit the vessel landscape. Enabling immediate response to safety hazards and reduces downtime of the project.

DISCOVER NOW

Scarlet Tech specializes in delivering tailor-made, state-of-the-art HSE instruments for accurate measurement and real-time monitoring in demanding environments. Comprehensive range of professional HSE instruments: wireless anemometer, wireless crane camera system, heat stress meter, class 1 & 2 sound level meter.