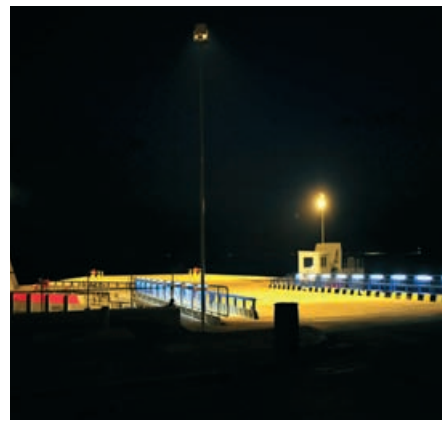


RoRo Port and Terminal Solutions

# Triple-berth pontoon linkspan



**AQABA PORTS CORPORATION, JORDAN**



*The large hexagonal floating pontoon linkspan was a supply chain challenge. A slipway was constructed at the production site in Croatia to ensure the equipment's safe launch. It was towed across the Mediterranean, through the Suez Canal around Sinai, to its final destination in Aqaba Ports, Jordan*

### **The solution: RoRo pontoon floating linkspan**

Cargotec has designed, built, delivered and installed a large, hexagonal MacGregor floating pontoon linkspan, for the RoRo and passenger ferry traffic in the commercial port of Aqaba in Jordan.

The design and construction of the MacGregor equipment involved input from many areas of expertise within Cargotec. Cargotec's engineers made risk assessment studies, so that the most efficient and functional product could be provided for Aqaba Ports.

### **Client: Aqaba Ports Corporation (APC), Jordan**

- Completed in 2011
- Turnkey supply
- Three 25 metre wide ferry berths for stern mooring
- Linkspan bridge: 15 metre wide by 26 metre long
- Accommodates three vehicle lanes and two walkway lanes
- Independent of tidal variations and ship's trim
- Regulations: British Standard (BS)
- Certification: Det Norske Veritas (DNV)

### **Controlled workshop conditions**

The large structures were prefabricated at Cargotec's partner plant in Croatia. This is one of only a few production sites with a proven track record for such equipment fabrication.

The controlled workshop conditions ensured the high quality of the steelwork and its protection, guaranteeing compliance with the structure's long design life.



### **Challenges**

Remote installations and turnkey supplies to customers worldwide can present significant supply chain challenges. In this case several factors had to be considered: function, launching, heavy lifts, sea borne transport from Croatia to Jordan and, finally, installation.

The linkspan was launched via a slipway at the building site in Croatia. From there it was towed across the Mediterranean, through the Suez Canal around Sinai, to its final destination in Jordan. Cargotec's site engineers made the final installation, guided by unique method statements that are produced and approved specifically for each delivery.

*Another triple-berth floating pontoon linkspan 108m x 30m, with two bridges, was delivered in 2006 to Immingham, United Kingdom for DFDS. It can accommodate up to three vessels, berthing side-by-side, with various stern ramp configurations. The pontoon is connected to the shore terminal by two three-lane bridges so that all ships can be loaded and discharged simultaneously. See leaflet: Triple-berth pontoon linkspan — DFDS*



Lloyd's Register Quality Assurance certifies that the Quality Management System for Cargotec Marine is ISO 9001:2008 compliant.

*Cargotec improves the efficiency of cargo flows on land and at sea - wherever cargo is on the move. Cargotec's daughter brands, Hiab, Kalmar and MacGregor are recognised leaders in cargo and load handling solutions around the world.*

*MacGregor is the global market-leading brand in marine cargo handling and offshore load-handling solutions. Customer-driven MacGregor engineering and service solutions for the maritime transportation industry and the offshore load-handling and naval logistics markets are used on board merchant ships, offshore support vessels, and in ports and terminals.*

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