

RoRo Port and Terminal solutions

# Triple-berth pontoon linkspan



**DFDS NORDIC TERMINAL, IMMINGHAM, U.K.**





*The MacGregor linkspan can accommodate up to three ships side-by-side with various stern ramp configurations, all loading and discharging simultaneously. The pontoon is connected to the shore terminal by two three-lane bridges.*

### **The solution: triple-berth RoRo pontoon linkspan**

Cargotec has designed, built, delivered and installed a MacGregor triple-berth floating pontoon linkspan at the port of Immingham in the United Kingdom. DFDS already operated a number of ro-ro berths at an inner lock in Immingham, but the new linkspan allows unrestricted and sheltered access to the harbour at all times.

The linkspan comprises a 108m x 30m floating pontoon, which 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 load and discharge simultaneously.

### **Client: DFDS Nordic Terminal, Immingham, UK**

- Completed in 2006
- Turnkey supply
- Triple-berth floating pontoon 108m x 30m
- Two linkspan bridges 75m x 15m
- Each linkspan bridge is capable of carrying three lanes of 120-tonne trailers
- Built to Lloyd's Register (LR) classification requirements
- Independent of tidal variations and ship's trim

### **MacGregor equipment on DFDS new RoRo ships**

Cargotec has also delivered MacGregor RoRo cargo access equipment for six new DFDS RoRo vessels that were built at the Flensburger shipyard in Germany.

The ships were amongst the first ships to benefit from the new terminal facilities. Each package comprised MacGregor equipment such as a stern ramp, hoistable car decks, ramp cover, hoistable ramp, external doors and associated hydraulic and electric operating equipment.



*MacGregor equipment has been installed on DFDS's six new RoRo ships in the 'Flower class series', such as the stern ramp seen here on Tor Magnolia.*

*Another triple-berth pontoon linkspan was delivered to Aqaba Ports in Jordan in 2011. The hexagonal pontoon has three 25m wide ferry berths, designed for stern mooring. The linkspan bridge is 15m wide by 26m long and accommodates three vehicle lanes and two walkway lanes. See leaflet: Triple-berth pontoon linkspan, Aqaba Ports Corp., Jordan.*



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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