

## RoRo conversion

# New stern ramps boost RoPax flexibility



**CONVERSION OF TANGER EXPRESS** 







MacGregor's installation team, comprising about 30 people, worked in two-shifts around the clock and completed the installation of two stern ramps on board Tanger Express in just 12 days

#### The challenge

The Germany-based shipping company, FRS Group, has successfully operated fast ferries on the Strait of Gibraltar, between Spain and Morocco, since 2000. Recently it has successfully added cargo services to its existing activities.

In July 2011, FRS took over the 1996delivered RoPax ferry Tanger Express (ex Mette Mols) from Danish shipping company Mols Linien. The vessel was acquired for the operator's new fast ferry service between Algeciras, Spain, and Tanger Med, Morocco.

To meet the requirements of the terminal facilities at its new ports of call, Tanger Express required a number of stern modifications.

The project included an innovative, newly-designed ramp concept making the vessel capable of operating in almost all European and Mediterranean ports.

#### The solution

MacGregor's turnkey solution included the installation of two new 14m-long stern ramps located on deck 3. In a change from its original design, the non-weathertight ramps enable the ferry to load and discharge vehicles and passengers without having to use a linkspan. The existing stern doors were kept to secure weathertightness at the stern.

#### Installation

MacGregor's installation team, comprising about 30 people, worked in two-shifts around the clock and carried out the work alongside the quay at Bredo Bremerhavener Dock. It was a streamlined installation that took just 12 days, with minimum impact on the ship's hull.

#### MacGregor's scope of supply

- Turnkey contract (design, key components, manufacturing, delivery and installation)
- Two 14m-long MacGregor stern ramps.



### **Tanger Express** main particulars

Owner: FRS Group Operator: FRS Iberia S.L. Route: Algeciras - Tanger Med

Length, oa: 136m Breadth, mld: 24m Gross tonnage: 30,285gt **Draft loaded:** 5.5m Passengers: 700

Cars: 300 or 60 cargo units RoRo access system: MacGregor stern doors Year built: 1996 at Ørskovs

Christensens Staalskibsværft A/S,

Denmark

Former name: Mette Mols



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