

RoRo

Efficient RoRo access equipment is essential  
for gas-powered ferries



**ROPAX FERRIES FOR TORGHATTEN NORD**



MacGregor top-hinged stern doors ensure efficient and reliable cargo access for Torghatten Nord's new gas-powered ferries

### The challenge - optimising traffic flow

MacGregor, part of Cargotec, secured an order in 2011 from Polish shiprepair yard, Remontowa, in Gdansk, to deliver efficient cargo access equipment for four 4,200gt RoPax ferries, which are due for delivery in 2012 to Norwegian operator, Torghatten Nord.

The new liquid natural gas-powered ferries, Landegode, Værøy, Barøy and Lødingen, are destined to run passenger and car services in the Molde region of the Norwegian fjords. This is an environmentally-protected area with very restrictive international emissions regulations.

As a result, the 93m vessels are highly automated and optimised in terms of crewing and fuel consumption. They are designed to carry 390 passengers and 120 cars.

A service speed of between 12 and 17 knots is maintained by a dual-fuel gas/diesel-electric propulsion system, with azimuthing thrusters mounted at each

end of the vessel. Electrical power will be produced by three generating sets: two LNG-powered and one reserve diesel-type unit.

### The solution - a flexible design

Efficient and reliable cargo access equipment is essential for the profitable and safe operation of the ferries. MacGregor has lengthy experience in providing innovative solutions based on proven technology and close cooperation with Remontowa and the vessel's designers, LMG Marin.

MacGregor's access systems provide a high degree of flexibility at the quay interface, independent of tidal variations and unaffected by challenging weather conditions and ensures optimum traffic flow and quick turnaround times in port. Each of the four vessels will feature the following RoRo access equipment:

- bow visor and door with folding ramp
- stern door and ramp
- two ramp covers
- gas engine service hatch
- two power-packs



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

MacGregor is the world's leading brand of engineering solutions and services for handling marine cargoes and offshore loads. MacGregor products serve the maritime transportation, offshore and naval logistics markets, in ports and terminals as well as on board ships. Our cargo flow solutions integrate cargo access, stowage, care and handling functions to suit a particular ship's cargo profile. This benefits its productivity, environmental impact and profitable service lifetime. [www.macgregor-group.com](http://www.macgregor-group.com)

MacGregor is part of Cargotec. Cargotec's sales totalled EUR 3.3 billion in 2012 and it employs approximately 10,500 people. Cargotec's class B shares are quoted on NASDAQ OMX Helsinki under symbol CGCBV. [www.cargotec.com](http://www.cargotec.com)

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