

Marine Selfunloaders

Transloading system



TECHNICAL INFORMATION

*Bulk Zambesi
Bulk Limpopo*

MacGregor transloading system

The 5,500t/h MacGregor bulk handling system installed on the 55,000 dwt vessel, *Bulk Zambesi*, was tailor-made to suit Coeclerici's planned coal transloading operations in Mozambique

In 2011, *Bulk Zambesi*, the first of two transloading vessels fitted with MacGregor bulk handling equipment, was delivered to its owner Coeclerici Logistics SpA in Italy. *Bulk Zambesi* is a new 55,000dwt supramax vessel constructed at Jiangsu Hantong Ship Heavy Industry Co Ltd in China and has been designed to overcome port constraints.

The MacGregor equipment consists of a conveyor system, five hoppers with belt feeders and a 37m-long travelling shiploader for loading coal into large bulk carriers. A second vessel, *Bulk Limpopo*, is scheduled for delivery at the beginning of 2012.

Both vessels are intended for operation outside Beira, in Mozambique, where they will load coal at the quay of Beira and then move out to an anchorage point in deeper water for transloading

cargo into ocean-going bulk carriers, up to large capesize, at a maximum rate of 5,500t/h.

Description of transloading system

Deck cranes discharge the transloading vessel's cargo holds, loading the cargo into five stationary deck hoppers located on the main deck. From the deck hoppers, belt feeders distribute the cargo onto a longitudinal conveyor running aft and transferring the material to a cross conveyor.

The cargo is then discharged onto a tripper conveyor located on the port side, which feeds material to a shiploader. It travels along the port side of the vessel distributing cargo into the holds of ocean-going bulk carriers.

The travelling, luffing and slewing motions of the shiploader are operated from the control desk or via wireless remote control.

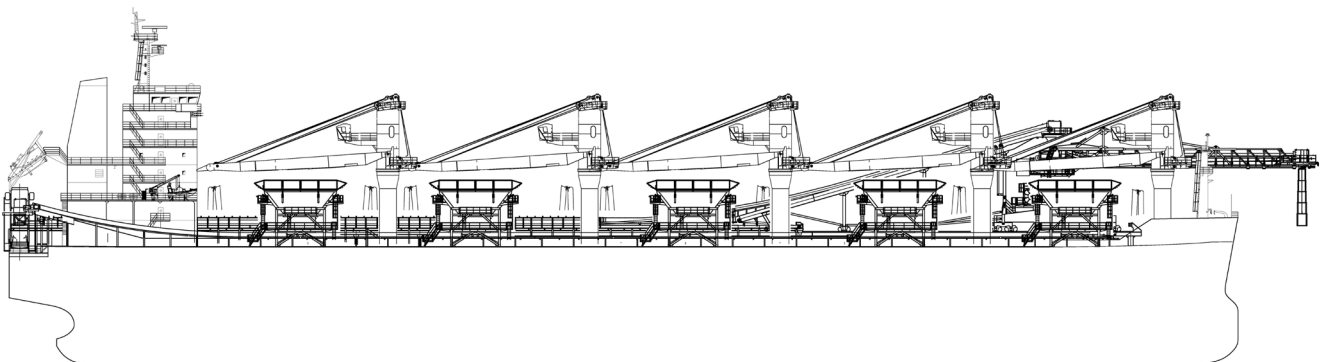
Operation of all conveyors is managed from the control room. In addition, each conveyor can be operated from a local position for maintenance purposes.

Vessels' dimensions

Length o.a.	190m
Breadth	32,25m
Depth	18m
Draft	12.8m
Deadweight	55,000dwt

System data

Max. discharge capacity	5,500t/h or 6,470 m ³ /h
Length of shiploader	37m
Cargo	coal



Design principle of the transloading system installed on *Bulk Zambesi* and *Bulk Limpopo*

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