

Marine Selfunloaders

# Transloading system



**TECHNICAL INFORMATION**

*Magdragon I  
Magdragon II*

# MacGregor transloading system

With a MacGregor cargo handling system installed on each transfer terminal, *Magdragon I* and *Magdragon II* can efficiently discharge iron ore at a rated capacity of 4,500t/h

Singapore-based Loreto Maritime's two identical transloading terminals, *Magdragon I* and *Magdragon II*, each feature a MacGregor deck conveyor system. The terminals were both built at Nantong Tongmao Shipbuilding Co, Ltd, in China. *Magdragon I* was delivered to its owner in August 2011 and *Magdragon II* in early 2012.

Cargotec supplied a range of MacGregor equipment including two transfer hoppers, a conveyor system with belt feeders and a 39m-long telescopic ship loader. The unloading capacity for both terminals is 4,500t/h.

The two terminals now transload iron ore from smaller feeder barges to ocean-going vessels at Cape Preston in Western Australia. The feeder barges are towed between the port loading berths and the ocean-going dry bulk vessel, which is

anchored in the Indian Ocean around 12 nautical miles offshore.

## Description of transloading system

Grab cranes discharge the iron ore into transfer hoppers from the feeder barges that arrive alongside the transloading terminal. From the hoppers, bulk material is transferred via inclined conveyors to the slewable and hoistable ship loader, which distributes the cargo into the holds of an ocean-going bulk carrier.

Operation of the conveyors is managed from a control room, but they can be operated locally for maintenance purposes.

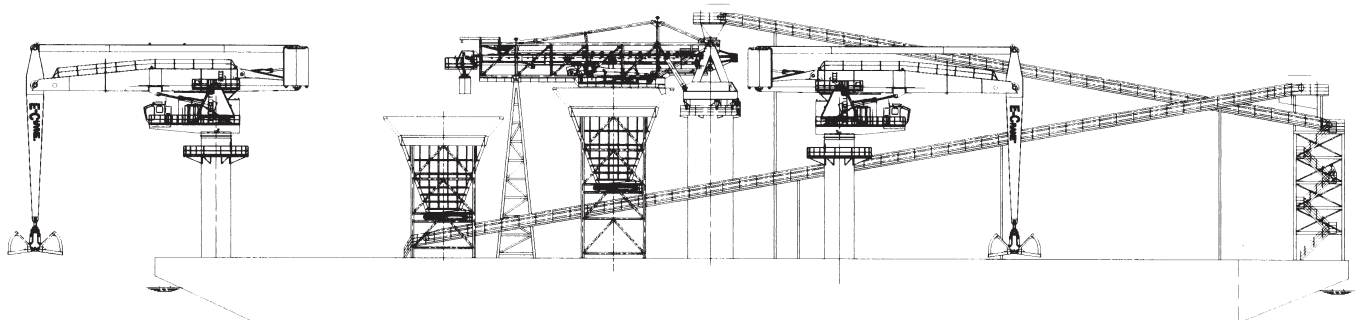
The ship loaders' luffing and slewing operations are also either managed from the control room or from a portable control box, located on the main deck and connected via a 20m flexible cable.

## Vessel dimensions

Length, overall	132m
Breadth	28m
Depth	6.5m
Draft	3.5m

## System data

Max. discharge capacity	4,500t/h or 2,250 m <sup>3</sup> /h
Max. length of ship loader	39m
Cargo	iron ore



Design principle of the transloading system installed on *Magdragon I* and *II*

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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 onboard merchant ships, offshore support vessels, and in ports and terminals.

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