

Marine Selfunloaders

Deck conveyor system



TECHNICAL INFORMATION

Gem of Ennore

MacGregor deck conveyor system

The 73,800 dwt vessel, *Gem of Ennore*, features a self-unloading system from Cargotec that includes seven deck cranes and stationary hoppers for the efficient discharge of coal

In 2001, the 73,800 dwt vessel, *Gem* of Ennore, was converted into a self-unloading ship with deck cranes and stationary hoppers. It is owned by West Asia Maritime Ltd in India, and is primarily intended to carry coal along the Indian east coast. The conversion was carried out at Chengxi Shipyard in China.

System description

The vessel's cargo holds are unloaded by the deck cranes, which discharge the cargo into seven stationary hoppers located on main deck. Each hopper has a belt feeder that feeds the material, at a constant rate, to a longitudinal belt conveyor.

The longitudinal conveyor inclines and transports the material to a cross

conveyor. From the cross conveyor the material is transferred onto a slewable and hoistable boom conveyor for further transport to the existing receiving conveyor arrangement ashore.

Despite the fact that the boom conveyor is located on the starboard side and in direct connection with the cross conveyor, the slewing range of the boom conveyor is 240°. This allows the boom to reach and discharge to the port side as well.

Operation of all belt feeders and belt conveyors is done remotely from the control room, which is located between cargo holds no. 1 and 2. Each conveyor can also be operated from a local position for maintenance purposes.

Vessel dimensions

Length, overall 255m

Length between p.p. 217m

Breadth 32.2m

Depth 19.15m

Draft 12.40m

Deadweight 73,800 dwt

System data

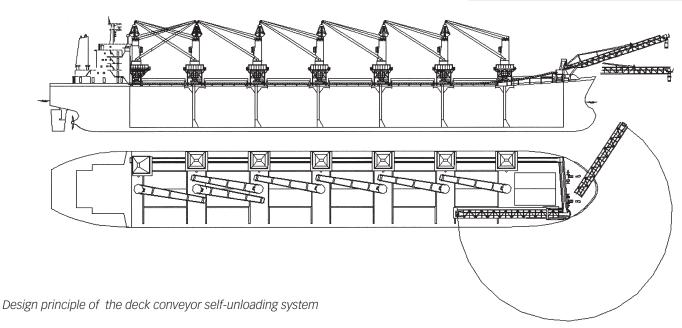
Discharge capacity 4,000 t/h or $4,000 \text{ m}^3/\text{h}$

Cargo coal

Boom data

Length of boom conveyor 47.3m

Slewing range 240 degrees



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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. Customerdriven 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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