

## BO HAI HENG TONG -Ro-ro

Shipbuilder: Yantai CIMC Raffles
Offshore Ltd.
Vessel's name: Bo Hai Heng Tong
Owner/Operator: Bohai Ferry Group Co., Ltd
Country: China
Designer:Shanghai Merchant Ship Design &
Research Institute, CSSC (SDARI)
Country: China
Model test establishment used: Shanghai Ship
& Shipping Research Institute (SSSRI)
Flag: China
IMO number: 9870680
Total number of sister ships already completed
(excluding ship presented):1
Total number of sister ships still on order:Nil

Delivered in September 2020 by the Yantai CIMC Raffles shippard to owner Bohai Ferry Group of China, Bo Hai Heng Tong is the first of two multipurpose ro-ro ships built for service with the owner's joint venture company operating in Bohai Bay. Its sister Bo Hai Heng Da was launched a month later.

The vessel is significant for several reasons as it is the largest of its type in Asia, the first for the joint venture established by Bohai Ferry and Hengtong Logistics and the first ro-ro built by the yard. The shipyard has since secured a new contract with Wallenius SOL for an ice class ro-ro due to operate in the Gulf of Bothnia and Baltic Sea.

Bo Hai Heng Tong is 189.9m in length and has a beam of 26.4m. The 24,777gt ship has three fixed vehicle decks with a total of 2,700 lane meters served by a stern ramp, a stern starboard quarter ramp and a bow ramp with interior ramps and lifting platforms. The weather deck is covered for around half of the vessel's length providing space for 96TEU containers. There are also 60 reefer points to accommodate chilled cargo.

Power and propulsion is by way of twin MAN 9L32/40 medium-speed engines each rated at 4,500kW connected through gearboxes to twin 4.6m diameter controllable pitch propellers. The ship is fitted with twin twisted flap rudders equipped with a rudder bulb. Service speed is a creditable 17knots. The ship has a single bow thruster and is equipped with fin stabilisers and anti-roll tanks.

There is no scrubber installed so the vessel is obliged to run on compliant low sulphur fuels. The ship is also not intended for service in any existing ECA and only needs to comply with NOx Tier II requirements.

TECHNICAL PARTICULARS	TEC	HNI	CAL	PAR	TICL	LARS
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Length oa:	189.9m
Length bp:	176m
Breadth moulded:	26.4m
Depth moulded	
to main deck:	9.2m
to upper deck:	15.45m
Width of double skin	
side:	3.50m
bottom:	2.90m

Draught scantling:
design:
Displacement: 21,00ŏt Lightweight: 9,712t Deadweight
scantling:
Block co-efficient (please state relevant
draught):
Bunkers (m³) Heavy oil:
Diesel oil:
Daily fuel consumption (tonnes/day)
Main engine only:
Classification society and notations:
II-2 Reg. 19: Equipped with Container Secur-
ing Arrangements; Loading Computer (S,I); In-Water Survey * CSM AUT-0; SCM; Clean;
In-Water Survey * CSM AUT-0; SCM; Clean; AFS; GPR
% high-tensile steel used in construction:73% Heel control equipment:1 pair anti-heeling
Roll-stabilisation equipment:1 pair fin
stabilisers, 2 anti-roll tanks
Propulsion
Main engine(s) Design:MAN B&W
Model: 9L32/40 Tier II
Manufacturer:Shanxi Diesel Engine Heavy Industry Number:2 Type of fuel:
Type of fuel: HFO, MDO
Output of each engine:
Make:
Model:GCSF1200-WX-V1.5 Number:
Output speed:
Material:Ni-Al-Bronze
Designer/Manufacturer:Lyen Marine Technology
Number:
Diameter: 4,600mm
Speed:
Number: 1
Make/type:
Number:
Engine make/type: CSSC Marine Power Co.,Ltd / MAN 6L23/30H

Type of fuel:
Number: 3 Type: 1 × oil fired boiler / 2 × exhaust gas boiler
Make:ZhangJiaGang Greens Shazhou Boiler
Output, each boiler: 1 × 1,800kW / 2 × 800kW
Stern appendages/special rudders: Twisted flap type rudders
Bow thruster(s) Make:Kawasaki-KWJ Number:1
Output (each):
Number:
Type:Hydraulic telescope, cylinder luffing Tasks:Provision handling Performance:SWL 2t x 7m outreach
Performance: SWL 2t x 7m outreach Mooring equipment Number: 7 Make: Rolls-Royce
Make: Rolls-Royce Type: Hydraulic
Special lifesaving equipment
Number of each and capacity:51 persons Make:Jiangyinshi Beihai LSA Type:7.5m totally enclosed life/rescue boat
Containers Total TEU capacity:
On deck:
Reefer plugs: 60 On deck: 2/6
Vehicles Number of vehicle decks (fixed/moveable):3
Total lane length:
(10.0m x 2.5m)
Doors/ramps/lifts/moveable car decks
Number of each: Stern ramp/inner door (1).
Number of each: Stern ramp/inner door (1), stern side ramp (1, starboard), bow ramp/inner door (1), tiltable ramp (1), lifting platform(1)
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Number of each: Stern ramp/inner door (1), stern side ramp (1, starboard), bow ramp/inner door (1), tiltable ramp (1), lifting platform(1) Type: Hydraulic Designer: SMS-SME  Complement Crew: 38 Single/double/other rooms: 1 cabin for pilot Passengers Total: 12 Number of cabins: 3  Navigation and other equipment
Number of each: Stern ramp/inner door (1), stern side ramp (1, starboard), bow ramp/inner door (1), tiltable ramp (1), lifting platform(1) Type: Hydraulic Designer: SMS-SME  Complement Crew: 38 Single/double/other rooms: 1 cabin for pilot Passengers Total: 12 Number of cabins: 3  Navigation and other equipment Bridge control system Make: Dong ze
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Delivery date: .....29 September 2020

## **BO HAI HENG TONG**

