



BOTNIA ENABLER AND SISTERS

242 M LNG POWERED ULTRA-LARGE RORO

The first generation of LNG-powered ultra-large RoRo vessels for Wallenius-SOL

Up to four vessels have been ordered at Yantai CIMC Raffles Offshore Ltd., China. The 1A Super ice-classed vessels will have a length of abt. 242 m and a deadweight capacity of abt. 27,000 t making them largest in the class.

The vessels will be the first Mega RoRo vessels in the world powered by LNG-fuelled engines, thus eliminating particle emissions and reducing their carbon footprint while at Sea.

During port calls the vessels will run on green electricity from shore connections or LNG. Together with other environmentally friendly initiatives the vessels will not only be among the largest in the world, they will also be among the industry leaders of green RoRo vessels.

MAIN PARTICULARS

Length o.a.	241.70 m
Length p.p.	234.25 m
Breadth, moulded	35.20 m
Depth to main deck	11.10 m
Draught to summer load line	8.70 m
Deadweight at design draught 8-50 m (1,005 t/m ³)	Min. 24,600 t

CAPACITY

Crew	22 pers
Passenger	12 pax
Container	800 TEU
Lane metre	5,800 m

SPEED

Service speed	20.00 kn
Range on LNG	1,800 nm
Range on MGO	3,600 nm

MACHINERY & EQUIPMENT

Fuel	LNG and MGO
Main engines	Two (2)
Installed power	21,000 kW (100% SMCR)
Main two (2)	WinGD-7RT-flex50DF
Aux. engines two (2)	MAN 9L28/32DF
Propellers	Two (2) CPP propellers

MISCELLANEOUS

Classification	Lloyd's register
Class notation	✕100A1, Roll on Roll off Cargo Ship, Container cargoes on Weather deak, ShipRight (SDA, CM, ACS(B)), Ice Class IAS FS, *IWS, LI, ✕LMC, LFPF(GF,NG), UMS, NAV 1, IBS.
Descriptive Notes:	ShipRight (BWMP(T), SCM, IHM-EU).
Number of vessels built	4
IMO Number Botnia Enabler	9884679
IMO Number Baltic Enabler	9884681

SCOPE OF WORK

Contract and Basic Design, including:
General arrangement and technical specification for contract signing
General arrangement and statutory documents
Lines plan, CFD and model test assistance
Intact and damage stability calculations
Noise and vibration prediction calculations
Hull structure design
FEM verification of hull structure, global and local
Deck outfitting
Machinery - engine room design
Machinery - system design
Machinery - hull engineering
HVAC
Electric instrumentation and automation

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