Geared Cellular Container Feeder Vessel ECX-2300

General:

The ECX-2300 is a design concept for the next generation of container feeder vessels with a capacity from 2000 to 3000 TEU. The design focuses on energy efficiency and low environmental impact, compact size and cost efficiency and maximum flexibility with regard to storage and transit speed – hence the project name ECX-2300. The hull lines are particularly fine with an impact reducing bow, and being equipped with a highly fuel-efficient ultra-long-stroke engine – a MAN B&W G60ME-C9.2 – the vessel is believed to be the most fuel efficient of its kind and size. The forward position of the deck house optimizes the number of container storage positions on deck considering the line of vision from the bridge while maintaining crew comfort in bad weather. The three rope luffing cranes are optional if the vessel shall call in ports that are not served by shore cranes. The forward of these cranes is offset from the centerline in order not to block the vision straight ahead from the bridge.

Main Particulars:

Length o.a.	185.00 m
Length p.p.	176.00 m
Breadth moulded	30.00 m
Depth to main deck	15.20 m
Draught (design)	9.00 m
Deadweight at design draught	22,600 t

Capacity:

Containers	1,546 TEU on deck 728 TEU in holds
Reefer containers	262 RFEU on deck 276 RFEU in holds
Complement	24 pers.

Speed:

Max.	21.00 kn
Service	19.00 kn

Machinery and Equipment:

Diesel or optionally LNG or dual-fuel	
Main engine	MAN 7G60ME-C9.2 de-rated to SMCR 14,240 kW
Shaft generator	3,000 kW in-line shaft mounted PTO/PTI
Aux. generators	1 x 1,200 kW + 2 x 2,800 kW
Bow/stern thruster	1,200 – 1,400 kW / 1,000 kW optional
Optionally three rope luffing cranes	SWL 45 t @ 30/32 m

Scope of Work:

Development of design including:
General Arrangement and engine room arrangement
Loading conditions incl. intact- and damage stability
Speed & power incl. calculation of fuel consumption
Data sheet and design brief

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