

AL MURABBA: Containership

Shipbuilder: Hyundai Samho
Heavy Industries Co. Ltd.
Vessel's name:
Hull No:
Owner/Operator:
Country: Kuwait
Designer: Hyundai Samho Heavy
Industries Co. Ltd.
Country:Republic of Korea
Model test establishment used: HSVA
Flag: Marshall Islands
IMÖ number:
Total number of sister ships
already completed (excluding ship presented):4
Total number of sister ships still on order: 10

A L MURABBA is the first in a series of eleven 15,000TEU container carriers ordered by United Arab Shipping Company. The vessel was delivered from Hyundai Samho Heavy Industries Co. Ltd (HSHI) to United Arab Shipping Company on 30 December 2014.

Al Murabba is the first vessel to use a shaft generator and waste heat recovery to increase the total efficiency of the plant, and are automatically activated by a power management system at HSHI. Surplus waste heat recovery energy can be used for propulsion via a shaft motor, using energy from the auxiliary engine to boost the ship's speed when required for navigation. The waste heat recovery system is composed of a power turbine, steam turbine and turbine generator for electric power production. The task of the power management system is to deliver electrical power for all consumers on the ship. In order to perform the task the power management system controls the auxiliary engine(s) and possibly a shaft generator and/or a waste heat recovery system.

Other distinctive features of Al Murabba

Other distinctive features of Al Murabba include a Becker rudder with bulb, Becker twisted fins and a hull stress monitoring system.

UASC is currently implementing one of the industry's largest and most technologically advanced new building programs, with 17 new vessels on order; six of 18,800TEU and 11 15,000TEU containerships.

UASC's vessel designs have been developed with a focus on cost efficiency and enhanced environmental friendliness. These vessels will be the first ultra large containerships in the industry to be delivered 'LNG ready', to enable dual fuel (the use of both traditional heavy fuel oil as well as liquefied natural gas or LNG fuel), which is expected to significantly reduce environmental impact and reduce fuel costs. Final calculations indicate an EEDI (Energy Efficiency Design

4

Index) value that is close to 50% below the 2025 limit set by IMO.

TECHNICAL PARTICULARS Length oa:368.52m

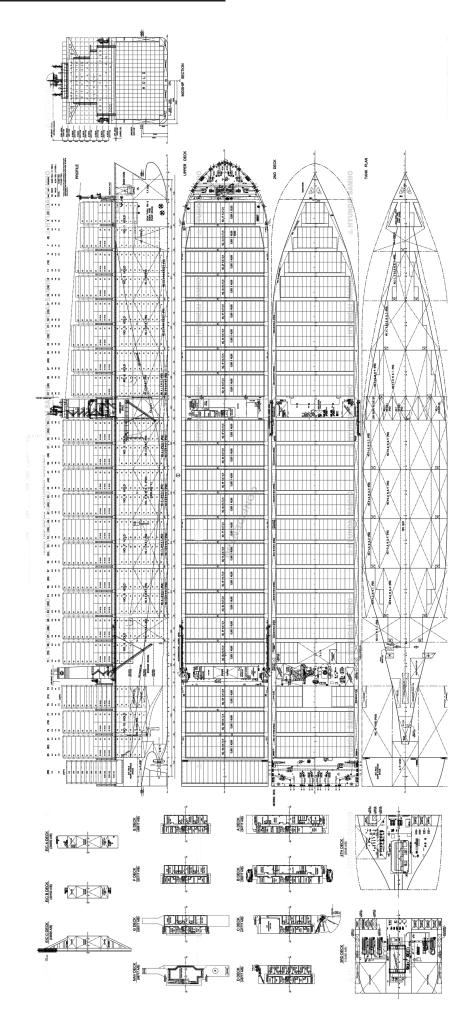
Length oa: 366.52ff Length bp: 352.00m Breadth moulded: 51.00m
Depth moulded To main deck:
Side: 2.50m Bottom: 2.30m (above base line) Draught
Scantling: 15.50m (moulded) Design: 14.50m (moulded) Gross: 15,3148gt Displacement: 194,967gt (at scantling draught) Lightweight: 45,607gt (first vessel)
Deadweight 133,671dwt Design: 149,360dwt Block co-efficient: 0.6818
(at scantling draught) Speed, service:21knots (Beaufort 3) Total container capacity (TEU)14,990TEU On deck/hatch (11tier):8,656TEU In hold:6,334TEU
Bunkers (m³)
(homo. 7ton at scant. with dep.) Daily fuel consumption (tonnes/day) Main engine only:
Classification society and notations: DNV, +1A1 Container carrier, BIS,BWM(T),Clean,
Main engine(s) Design:
Propeller(s) Material: Designer/Manufacturer: MHI-EMD Fixed/Controllable pitch: Fixed pitch Diameter: 10m

Speed:
Number:5
Engine make/type:Nishishiba Electric Output/speed of each set:4,140kW (4sets) at 720 RPM
Boilers Type: Automatic, forced draft,
heavy fuel oil burning, marine boiler Make: Alfa Laval
Output, each boiler:
Other cranes: 1 set(Monorail crane)
Make: Dongnam Marine Crane Co. Ltd. Type: Electric-Hydraulic
Performance
- Capacity:
- Lifting height:
Number:2 sets (provision crane)
Make:Dongnam Marine Crane.co Ltd.
Type:Electric-Hydraulic Performance:
- Capacity: four tonnes
- Working Radius : Max.10.5m~Min.7.75m Mooring equipment
Number: 16 sets (Upper deck fwd: 8 sets/
Make: Towimor SA
Special lifesaving equipment
(eg MES, free-fall lifeboats) Number of each and capacity:2 sets,
35 persons
Make: Hyundai Lifeboats
Type: Davit launched type Hatch covers MacGregor
Type (upper deck/other decks): Weather
Deck Hatch Covers, Lift-Away type
Containers Lengths:ISO standard container
Heights:ISO standard container
Cell guides:Mixed(random) storage
Total TEU capacity: On deck:8,656TEU
In holds: 6,334TEU
Homogeneously loaded
to 14tonnes:14T *8750TEU+28T*603FEU Tiers/rows (maximum)
On deck: 11/20
In holds:
Water ballast Treatment System
Make: PANASIA Capacity: 1,000m ³ /hr
Complement
Officers: 13 Crew: 19
Crew:
Stern appendages/special rudders: Becker
twisted rudder with bulb. Bow thruster(s) x 2 sets
Make: Kawasaki Heavy Ind. Ltd.
Output (each):about 298kN
Bridge control system Make:Kongsberg
s bridge fitted for one-man operation?Yes
Fire detection system
Make: Consilium Type: BS-420M
Fire extinguishing systems
Cargo holds:
Make/Type: NK Co. Ltd/CO ₂ Engine room: Make/Type: NK Co. Ltd/CO ₂
Cabins:
Make/Type: Portable fire extinguisher
Public spaces: Portable fire extinguisher
Radars
Make: Kongsberg ntegrated bridge system: Yes
Model: Kongsberg
Waste disposal plant
Incinerator HMMCO
Make: HMMCO Model: Sludge oil & solid waste burning type
Sewage plant
Make: IL SEUNG Model: Biological Type Contract date:
aunch/float-out date: 1 November 2014
Delivery date:

Speed:72rpm

SIGNIFICANT SHIPS OF 2015

AL MURABBA



6 SIGNIFICANT SHIPS OF 2015