



JOLLY COBALTO: Container ro-ro vessel

Shipbuilder: **STX Offshore & Shipbuilding Co. Ltd.**
 Vessel's name: **Jolly Cobalto**
 Hull No: **S3028**
 Owner/Operator: **Messina**
 Country: **Italy / Genova**
 Designer: **STX Offshore & Shipbuilding Co. Ltd.**
 Country: **Republic of Korea**
 Model test establishment used: **HSVA**
 Flag: **Italy**
 IMO number: **9668960**
 Total number of sister ships still on order: **3**

The 45,000dwt **JOLLY COBALTO** was built by STX Offshore & Shipping at the Jin-hae Shipyard.

The vessel is designed as single screw diesel engine direct-driven container/ro-ro ship with bulbous bow and transom stern with an angled stern ramp. If considered from a design draught perspective, in even keel conditions and at zero speed, the transom stern is designed to keep in dry condition.

The aft body of the ship consists of one controllable pitch propeller with one full-spade rudder, one stern thruster, stern ramp and ramp going down to the lower decks and a fore body consisting of a forecastle deck with covering mooring area, forepeak tank and one bow thruster.

The ro-ro section of the vessel is horizontally divided into three decks, each deck connected by a hydraulic ramp way. Two water tight division doors are located on the garage deck and one water tight division door located on the tween deck.

A ballast treatment plant has been fitted in accordance with IMO guidelines for approval of ballast water management systems, and the Hull Stress Monitoring System meets classification society RINA's requirements for approval.

TECHNICAL PARTICULARS

Length oa: 240m
 Length bp: 220m
 Breadth moulded: 37.50m
 Depth moulded
 To main deck: 19.95m
 To upper deck: 26.65m
 Width of double skin
 Side: 37.50m
 Scantling: 11.50m
 Design: 10.50m
 Gross: 51,060gt
 Deadweight
 Scantling: 44,574dwt
 Speed, service (90%MCR output): 21.50 knots
 Bunkers (m³)
 Heavy oil: 3,780m³
 Water ballast (m³): 15,726m³

Classification society and notations: RINA
 C+ ro-ro cargo ship equipped for carriage of containers/container ship, MON-HULL, MON-SHAFT, SYS-NEQ-1, AUT-UMS, INWATERSURVEY, ICE-CLASS 1B, GREEN PLUS, COAT-WBT, FATIGUE LIFE(30), Unrestricted navigation

Main engine(s)
 Design: MAN Diesel & Turbo
 Model: 7L70ME-C 8.2
 Manufacturer: STX Heavy Industries
 Number: 1
 Type of fuel: HFO/MDO/MGO
 Output of each engine: 22,890kW x 108rpm

Propeller(s)
 Material: Ni-Al-Bronze
 Designer/Manufacturer: Rolls-Royce
 Number: 4 EA
 Fixed/Controllable pitch: Controllable pitch
 Diameter: 7,200mm
 Special adaptations: None

Diesel-driven alternators
 Number: Four
 Engine make/type: STX Engine / 6L27/38(4-stroke trunk piston diesel engine)
 Type of fuel: FHO/MDO/MGO
 Output/speed of each set: 1,980kW / 720rpm

Alternator make/type: Hyundai Heavy Industries / HFC7 638-10P
 Output/speed of each set: 1,720kW (2,150KVA) / 720rpm

Exhaust-gas scrubbing equipment
 Manufacturer: Wärtsilä
 Type: Hybrid type SOx Scrubber
 On main engines?: Yes
 On auxiliary engines?: Yes

Boilers
 Number: 2 sets
 Type: Aux. Boiler (1 set) / Exhaust Gas Boiler (1 set)
 Make: Kangrim Heavy Industries
 Output, each boiler: Aux. Boiler-2,500kg/h, Exhaust Gas Boiler-2,500kg/h

Other cranes (Provision Crane)
 Number: 2 sets
 Make: Oriental
 Type: Electro-hydraulic cylinder luffing single type
 Tasks: Provision handling

Mooring equipment
 Number: 6 sets
 Make: Hatlapa
 Type (electric/hydraulic/steam): Electric driven with auto tension type

Special lifesaving equipment
 Number of each and capacity: 38

Make: Fassma-Marland
 Type: Totally enclosed freefall type
 Containers
 Total TEU capacity: 3,016teu (shore mode), 2,370TEU (ro-ro mode)

On deck: 1,930 teu (shore mode), 1,284TEU (ro-ro mode)
 In holds: 1,086TEU (shore mode and ro-ro mode)

Homogeneously loaded to 14tonnes: 2,491TEU, 2,306TEU
 Reefer plugs: 200TEU (shore mode)

Tiers/rows (maximum)
 On deck: 6 Tiers/15 rows
 In holds: 2 Tiers / 13 rows
 Hold refrigeration system: 200TEU

Vehicles
 Number of vehicle decks (fixed/moveable): 6 Decks
 Total lane length: 20,357m³

Doors/ramps/lifts/moveable car decks
 Number of each: 9/3/0/0
 Type: Hyd&ele type
 Designer: STX & MacGregor

Ballast control system
 Make: Teikoku Machinery Works
 Type: Centrifugal pump
 Water ballast Treatment System

Make: Panasia
 Capacity: 700m³/h * 2

Bow thruster(s)
 Make: KTE
 Number: 1 set
 Output (each): 1,400kW AC 6,600V 3Ø 60Hz 6P

Stern thruster(s)
 Make: KTE
 Number: 1set
 Output (each): 1,400kW AC 6,600V 3Ø 60Hz 6P

Bridge control system
 Make: KTE
 Type: PIANO TYPE ("T" TYPE)
 Is bridge fitted for one-man operation? Yes

Fire detection system
 Make: Autronica
 Type: Addressable type

Fire extinguishing systems
 Engine room: Fixed water mist,
 Make/Type: Tanktech/ HH,LL, ELL nozzle type

Contract date: 18 July 2012
 Launch/float-out date: 21 July 2014
 Delivery date: 17 February 2015

