

SHIN JU MARU 6,950 DWT Ro/Ro Cargo Ship 101

Contents By Builder By Ship Type



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Features

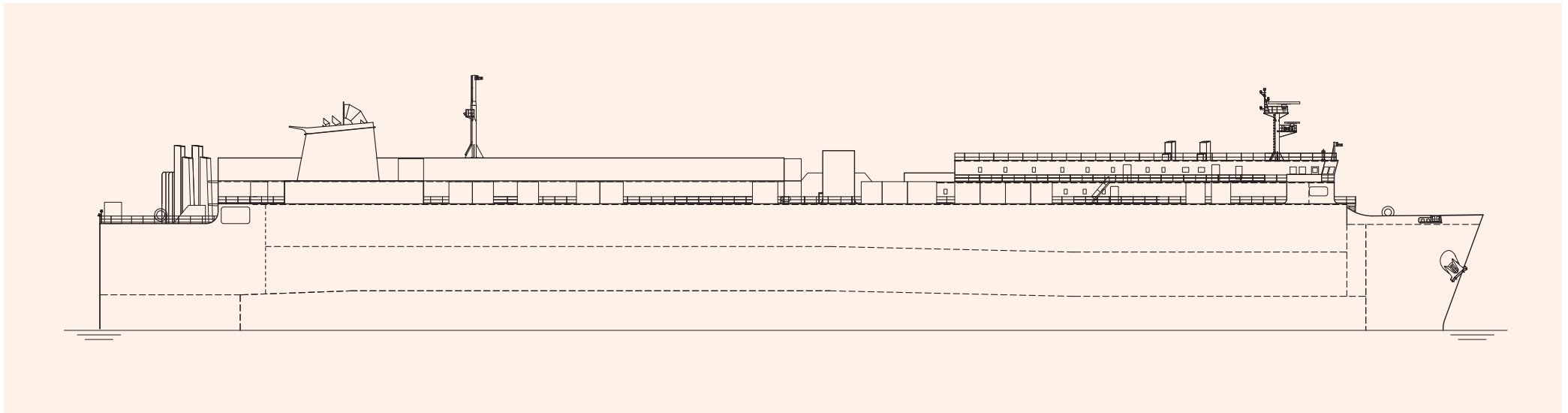
1. The cargo loaded on the ship is chassis, cars, roll-paper, etc.
2. The vehicle hold consists of a total of six decks. Three of them are for cars only. The remaining three decks can be loaded with chassis, tractor, etc.
3. Main deck and B1 deck are provided with compartments for loading roll-paper.
4. The vehicles are loaded into the ship through the shore ramp doors of bow and stern, then it is loaded on each deck through the hold ramp in the car hold.
5. It has a hull form with excellent speed performance, based on model experiment. In addition, it has a hull shape with excellent fuel efficiency, such as an energy loss of the propeller swirling flow is recovered by the stern energy saving valve and converted into thrust.

6. This vessel has the fin stabilizer and ART (Anti-Rolling-Tank) to prevent rolling during voyage, it effectively reduces the rolling of the hull by selecting and using the appropriate these devices according to the navigation condition.
7. Equipped with bow thruster and stan thrusters with new

- K-7 rudder (K7-M2 type) to improve the maneuvering performance during berthing.
8. An electronically controlled main engine (ME-C type) is used to reduce fuel oil consumption and improve combustion conditions at low loads.

PRINCIPAL PARTICULARS

Length (o.a.)	174.95 m	NOR (kw×rpm)	13,540 kw x 127.9 min ⁻¹
Length (b.p.)	162.00 m	Speed (max. trial)	24.382 knots
Breadth (mld.)	29.00 m	(service)	abt. 21.5 knots
Depth (mld.)	17.80 m	Complement	30 persons (18 crews and 12 passengers)
Draft (mld.)	7.20 m	Classification	Class NK
Gross tonnage	14,052 (Japanese domestic ton)	Loading capacity	
Deadweight	6,950 t	(car/vehicle)	13m Chassis x 150 units, Car x 250 units
Main engine	MAN B&W 9S50ME-C8.5 x 1 (UP-RATING)	(others)	Roll-Paper x 2,000 rolls
MCR (kw×rpm)	15,930 kw x 135.0 min ⁻¹	Builder	Naikai Zosen Corporation



HARUMARU No.5 7,070 DWT Ro/Ro Cargo Ship 102

Contents By Builder By Ship Type



HARUMARU No.5 7,070 DWT Ro/Ro Cargo Ship 102

Features

1. The cargo which is loaded on the ship is chassis, cars, etc.
2. The vehicle hold consists of a total of four decks. one of them is for cars only. The remaining three decks can be loaded with chassis, tractor, etc.
3. The vehicles are loaded into the ship through the shore ramp doors of bow and stern, then it is loaded on each deck through the hold ramp in the car hold.
4. Loading efficiency has improved by adopted pillarless of car hold and increase of vehicle which can be loaded.
5. It has a hull form with excellent speed performance which was created through repeated examinations by the tank test. In addition, it has a hull shape with excellent fuel efficiency, such as a rudder with bulb and “STEP”

(Spray Tearing Plate).

6. This vessel has the fin stabilizer to prevent rolling during voyage. In addition, it's equipped with bow and stern thruster to improve maneuverability performance.

7. By making the double bottom for fuel oil tank, the risk of fuel leak decreases when the accident of bottom hit happened.

PRINCIPAL PARTICULARS

Length (o.a.)	179.90 m
Length (b.p.)	170.00 m
Breadth (mld.)	27.40 m
Depth (mld.)	23.30 m
Draft (mld.)	6.75 m
Gross tonnage	12,404
Deadweight	7,070 t
Main engine	MAN B&W 9S50ME-C8.5 x 1

MCR (kw x rpm)	13,580 kw x 127.0 min ⁻¹
NOR (kw x rpm)	11,540 kw x 120.3 min ⁻¹
Speed (max. trial)	23.756 knots
(service)	abt. 21.00 knots
Complement	25 persons (15 crews and 10 passengers)
Classification	Class NK
Loading capacity (car/vehicle)	13m Chassis x 162 units, Car x 258 units
Builder	Naikai Zosen Corporation

