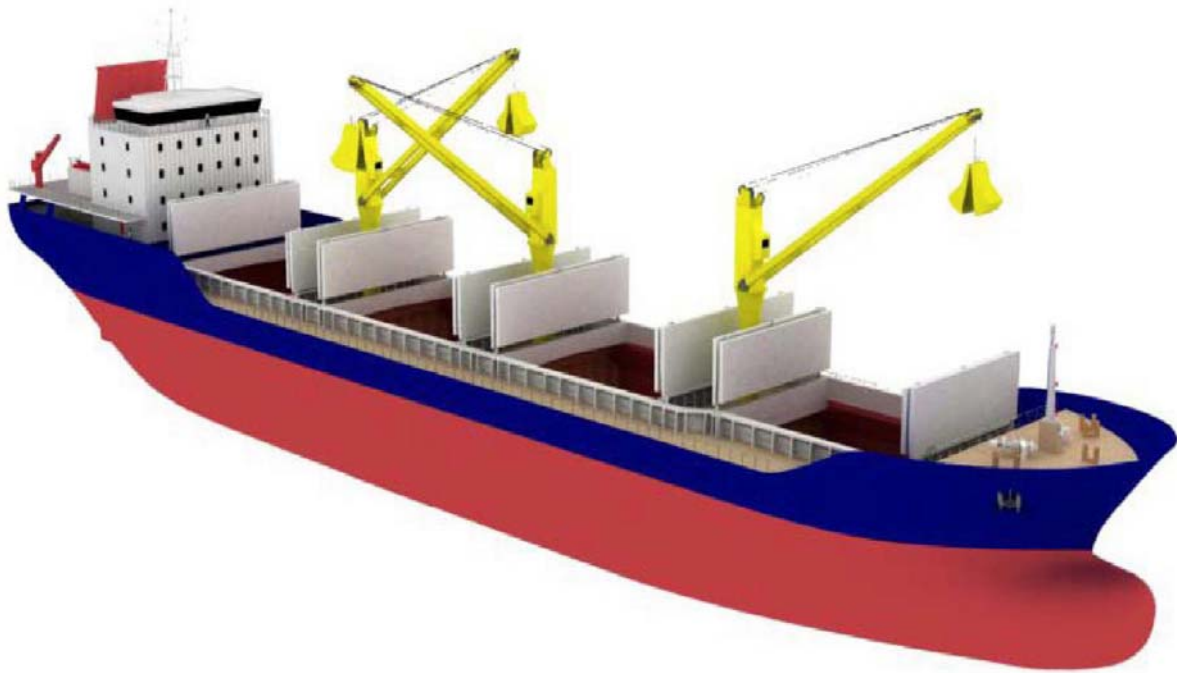


25000 DWT DOUBLE HULL BULK CARRIER



BRIEF SPECIFICATION



25000 DWT DOUBLE HULL BULK CARRIER

GENERAL INFORMATION ABOUT THE VESSEL :

The vessel is designed as 25000 DWT Double Hull Bulk Carrier with single screw CPP, four cargo holds and one uninterrupted main deck. The hull form will be of round bilge, bulbous bow, and transom stern to be of all welded steel construction.

The engine room and accommodations are located at the aft part of the vessel. The vessel will have 4 Cargo Holds with folding type hydraulic hatch covers and 3 cargo cranes. 4 double bottom, 4 side, fore and aft peak ballast tanks which are separated by 6 watertight transverse bulkhead, passageway will be positioned between aft and fore collision bulkheads on side ballast tanks and pipe tunnel will be positioned in double bottom centerline.

The vessel's superstructure will have 5 decks and accommodation is designed for 22 people and a private room for the owner. The squared type construction funnel is located at the aft part of the superstructure.

The vessel will be propelled with CPP with a diameter of 4200mm by Berg Propulsion and manoeuvring with streamline type semi spade rudder which is fabricated with rolled steel plate.

The vessel shall comply with the following rules and regulations;

- 1- Classification Society – BUREAU VERITAS
- 2- Flag State
- 3- International Rules And Regulations (SOLAS, MARPOL, IBC, ILO)

The general layout of the vessel will be attached. (General Arrangement Plan)



25000 DWT DOUBLE HULL BULK CARRIER

1. VESSEL'S DATA :

Type	: 25000 DWT Bulk Carrier
Builder	: Deniz Industry co. – Cicek Shipyard, Tuzla – Istanbul, Turkey
Navigation	: Unrestricted – Worldwide including Panama and Suez Channels
Class	: BV HULL, MACHINERY, BULK CARRIER, CSR, BC-A, ESP, GRABLOADING, UNRESTRICTED NAVIGATION, NONHOMLOAD, HEAVY CARGO, + AUT-UMS, CLEAN, MON SHAFT, IWS

Main Data of Vessel :

LOA	: 159.2m
L _{BP}	: 149.4 m
B	: 25.00 m -MOULDED-
T	: 9.7 m -DESIGN-
DWT	: 25000 DWT
V	: abt. 13 knots (@85% MCR)
RANGE	: abt 12000 nautical miles with 90% fuel Capacity

Fuel Capacities :

HFO	: abt 875 m ³
MDO	: abt 205 m ³



25000 DWT DOUBLE HULL BULK CARRIER

Types Of Cargo and Hold Capacities :

	GRAIN	BALE
Hold 1	: abt 6575 m ³	abt 6250 m ³
Hold 2	: abt 7785 m ³	abt 7500 m ³
Hold 3	: abt 7810 m ³	abt 7500 m ³
Hold 4	: abt 8325 m ³	abt 8200 m ³
TOTAL	: abt 30495 m³	abt 29450 m³

Types Of Cargo :

Dry bulk and break bulk cargoes such as grain, metal concentrates, iron ore, scrap metal, salt, sugar.

General cargoes such as steel products including coil, forest products, packaged freight and palletized cargo.

Bagged cement, bagged cargoes.

Log, lumber, plywood.

Loading Strenght :

Local strenght of cargo hold tank top and upper deck to be sufficient for following unit cargo load in metric tons.

Loading on double bottom in holds : 20 t/m²

Loading on main deck : 4 t/m²



25000 DWT DOUBLE HULL BULK CARRIER

Machinery and Propeller Data :

Main Engine :

- Two stroke, low speed
- MAN B&W 8S35MC
- 5920 kW OUTPUT
- 5032 kW at 85% CMCR
- 173 RPM
- Fuel Consumption is 21.5 t/24h
- Specific Fuel Consumption is less than 178 g/kWh at 85% CMCR
The specific fuel consumption is related to test on Maker's station at ambient conditions as per ISO 3046/1-1986, low calorific value equal to 42707 kJ/kg and at 85% CMCR of ME.

CPP Propeller :

- One propeller hub, type BCP with built in hydraulic cylinder in Cu-Ni-Al bronze
- Four propeller blades in Cu-Ni-Al bronze with moderate skew design machined polished and balanced.4200 mm diameter.

Emergency / Harbour Diesel Generator :

- Water cooled, four stroke diesel engine, turbo charged, inter cooled, counter clockwise rotation MAN D 2866 LXE type generator
- Iso-rating acc. To IXCN : 313 kW at 1800 rpm
- Number of cylinders : 6

Cargo Cranes :

- 3 (Three) sets SWL 35 t capacity, 4.0 – 24.0 m outreach Cargo Cranes with spare parts.



25000 DWT DOUBLE HULL BULK CARRIER

Hatch Covers :

- 4 (Four) Sets MCG high stowing Folding type operated by means of external Hydraulic cylinders. Weather Deck Hatch Covers with hydraulic system spare parts.
- The hatch covers are manually cleated and weatherthigt.
- The hatch covers are constructed with flat top plates and are of double skin.
- Opening/closing time for each pair is approximately 2,5/2,0 minutes excluding time.

[NOTE : ALL THIS INFORMATION IS GIVEN AS GUIDANCE BUT MAYBE CHANGED ACCORDING TO THE BUILDERS CHOICE]



25000 DWT DOUBLE HULL BULK CARRIER

25000 DWT BULK CARRIER PREFERABLE MAKER'S LIST

COMPONENT

MAKER

Main Engine	MAN B&W 8S35MC - 5920 KW 173 rpm
Marine Genset 3PCS SH 17/28	HYUNDAI HIMSEN 540 KW
Alternator	STAMFORD MHC534F-1
Propulsion Unit	BERG PROPULSION
Steering Gear	HATLAPA
Main Engine Crane	ON-EL
Cranes	NMF G.m.b.H
Hatch Covers	MacGREGOR
High Level Alarms	ARISTON
Painting	JOTUN, HEMPEL, AMERON
Emergency Generator	LINDENBERG
Boilers	S-MAN, KANGRIM
Separators	ALFA LAVAL
Life Boats	NORWEGIAN EQUIPMENT
Mooring Winches	YOO WON M-TECH
Navigation Aids	FURUNO
Communication Aids	FURUNO
Engine Pumps	BOMBAS-ITUR
Air Compressors	SPERRE
Fresh Water Generator	ALFA LAVAL
Valves Remote Control	EUROVALVE, KONGSBERG
Fire Detection System	MARINLEC
Alarms and Monitoring	PRAXIS, LINKSO
CO ₂ Plant	ALMAR

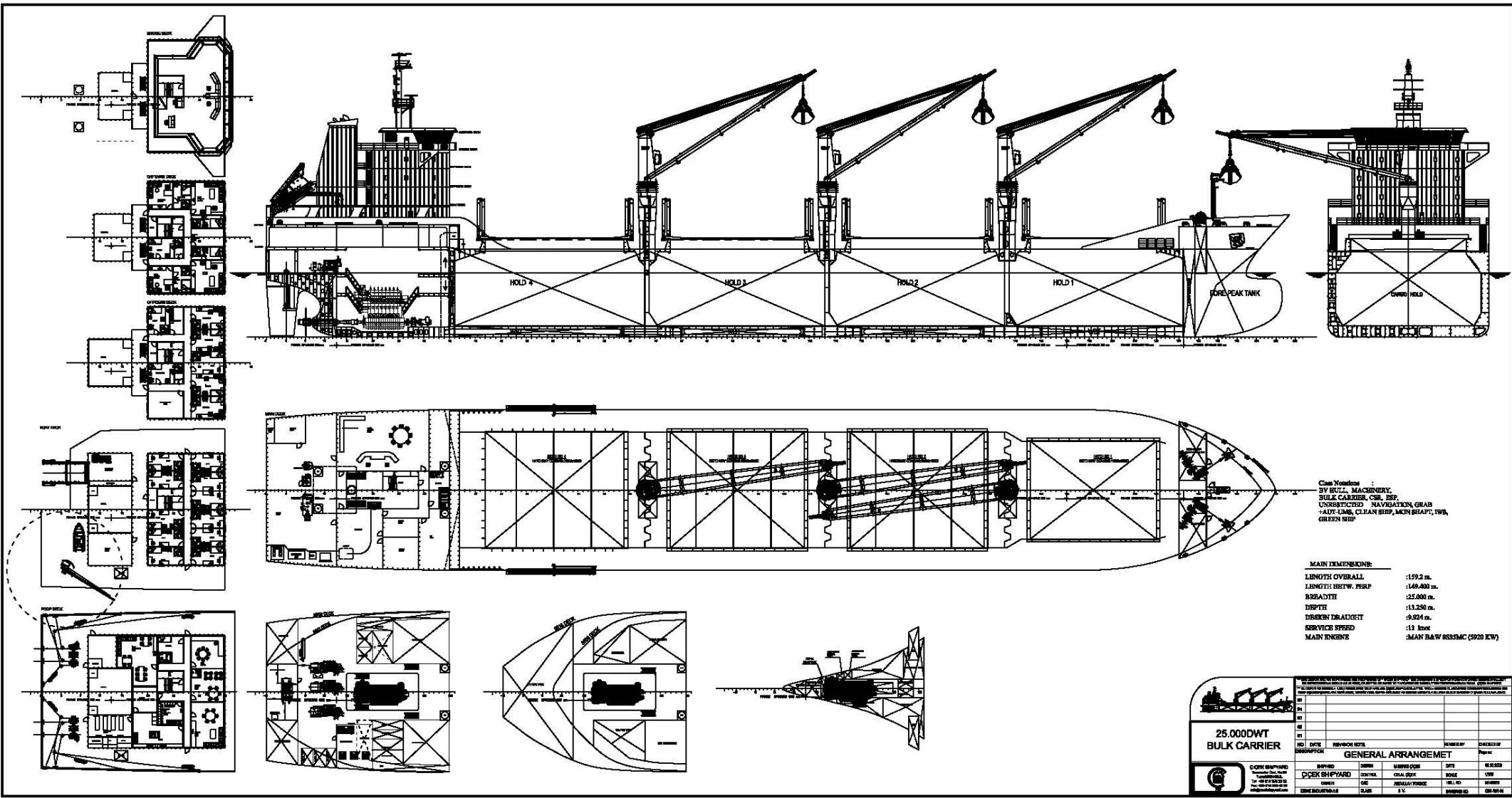


25000 DWT DOUBLE HULL BULK CARRIER

COMPONENT


MAKER

Foam Plant	ALMAR
Plate Type Heat Exchangers	ALFA LAVAL
Galley Equipment	PERFECT-RINSEPUM-INOKSAN
Laundry Equipment	ARCELIK, BEKO, BOSCH
Air Conditioning	HEINEN HOPMAN
Oil Water Separator	JOWA, GRS, CONFINWORD
Sewage Treatment System	JOWA, GRS
Sea Chest Anti-Fouling System	AQUAMAR
ICCP System	K.C.LTD, CATHELCO
Life Rafts	DEUTSCHE SCHLAUCHBOOT, VIKKING
Typhoon	KOCKUMS SONICS
Search Lights	SEEMATZ
Fresh Water Distribution System	JOWA, TEMA
Incinerator	TEAMTEC, GRS, JOWA
Economizers	S-MAN, KANGRIM
Booster Module	ALFA-LAVAL
Windlass Gear	YOO WON M-TECH
Windows Wipers	WYNN



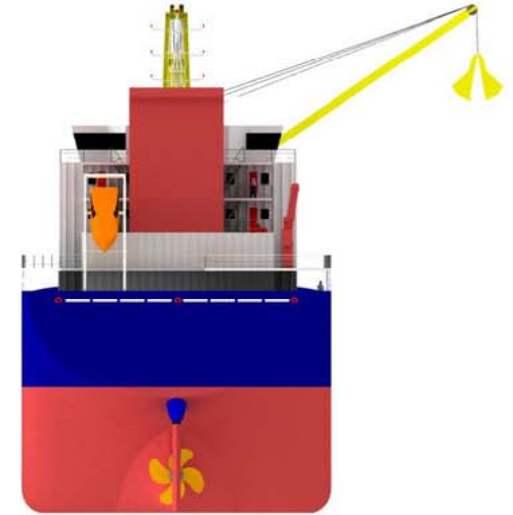
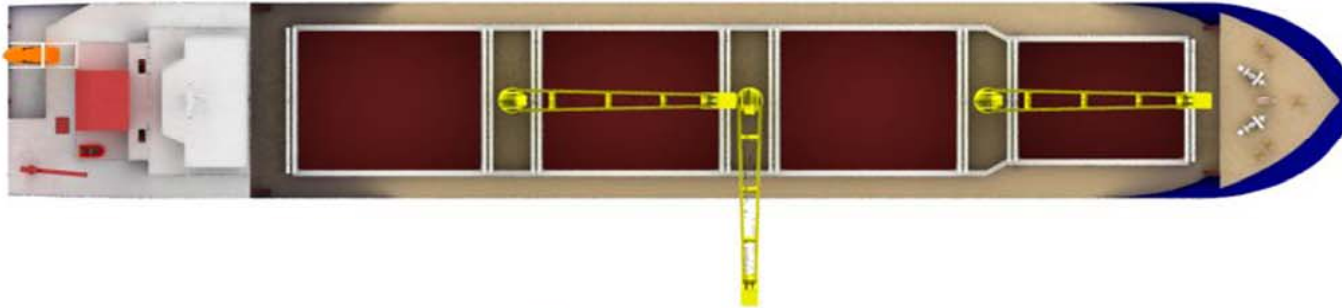
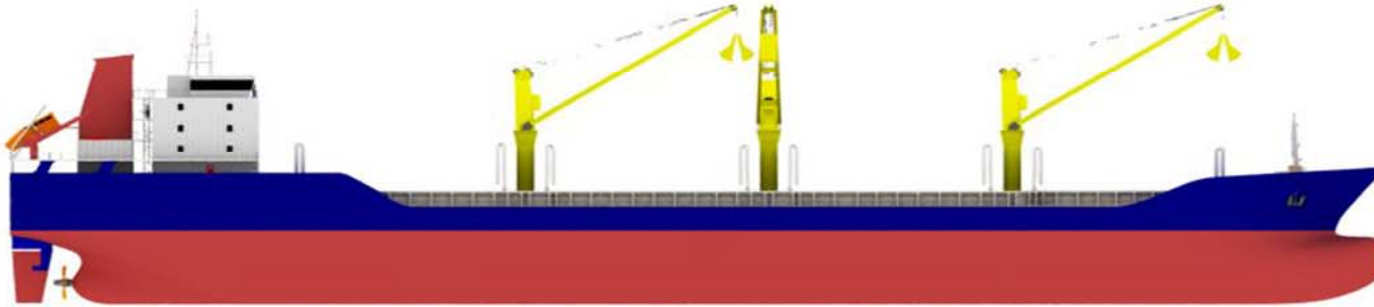
Class Notations :
 BY BULL, MACHINERY,
 BULK CARRIER, CSR, 100,
 UNRESTRICTED NAVIGATION, GRAB
 -AUT LMB, CLEAN SHIP, MCH BRAPT, IWS,
 GREEN SHIP

MAIN DIMENSIONS:
 LENGTH OVERALL : 159.2 m.
 LENGTH BETW. PERP : 149.400 m.
 BREADTH : 25.000 m.
 DEPTH : 13.250 m.
 DECKEN DRAUGHT : 9.924 m.
 SERVICE SPEED : 13 knot
 MAIN ENGINE : MAN B&W 8S30MC (5920 KW)

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25,000DWT BULK CARRIER		GENERAL ARRANGEMENT	
NO. DATE	REVISIONS/NOTES	DESIGNED BY	CHECKED BY
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25000 DWT DOUBLE HULL BULK CARRIER



MAIN DIMENSIONS :

LENGTH OVERALL	:159.2 m.
LENGTH BETW. PERP	:149.400 m.
BREADTH	:25.000 m.
DEPTH	:13.250 m.
DESIGN DRAUGHT	:9.790 m.
SCANTLING DRAUGHT	: ----
SERVICE SPEED	:13 KN
MAIN ENGINE	:MAN B&W 8S35MC (5920 KW)
Loading on double bottom in hold	: 20 t / m ²

CLASS NOTATIONS :

BV HULL, MACHINERY,
BULK CARRIER, CSR, ESP,
UNRESTRICTED NAVIGATION,
CARGO, +AUT-UMS, CLEAN SHIP, MON SHAFT, IWS,
GREEN SHIP