



20 000 DWT BULK CARRIER

While the hull form and propulsion parameters optimized to perfection and the steel material optimized for minimum weight, this project's design is based on single two-stroke engine, fixed pitch highly efficient propeller, four pieces of box-shape holds, three (3) pieces of 30 t cargo cranes, 18 t/m²; tank-top load, Grab Discharge class notation, allowance to load dangerous goods and double skinned holds and bunker tanks. 24.5x18.2 m clear hatch openings give the vessel easy loading/unloading. Each cargo hold has mechanical ventilation system. These sophisticated design properties provides building of a single screw, single deck ship able to make trade at worldwide level for carriage of bulk cargoes such as coal, grain, ore, etc. as well as heavy cargoes.

BENEFITS

- Low fuel consumption
- Compliance with environmental requirements
- Low operating cost
- Low initial investment cost
- Ability to carry various types of cargo



CONTAINER



BULK CARRIER



GENERAL CARGO



MULTIPURPOSE



TANKER



PASSENGER



INDUSTRIAL



UTILITY



20 000 DWT BULK CARRIER

SPECS



Capacities

Cargo	26 630 m ³
Water Ballast	8 135 m ³
HFO	750 m ³
MDO	110 m ³
Fresh Water	135 m ³



Speed Consumption/Range

Design speed	14.0 knots
Consumption	20.8 t/day
Cruising range	12 000 nm



Machinery Main Components

Main Engine	1 x 5 920 kW
Propeller	1 x 4 300 mm FPP
Diesel Generator	3 x 575 kW
Em'cy Diesel Generator	1 x 150 kW



Complement

The accommodation area is arranged for twenty (20) crews, one (1) repair man and one (1) pilot. Nine (9) single berth cabins, nine (9) double berth cabins, two (2) suits with separate bedrooms and additional two (2) cabins for repair man and pilot are provided. Lifesaving equipment is arranged for twenty two (22) people.



Main Dimensions

L _{OA}	157.90 m
L _{BP}	151.50 m
B (molded)	23.20 m
D (molded)	12.50 m
Draught (design)	8.60 m
Draught (scantling)	9.00 m



Tonnage

DWT (at design)	4 600 t
DWT (at scantling)	5 200 t
GRT (app)	2 990
NT (app)	1 730

SCOPE OF SERVICES

- Conceptual Design
- Contract Design
- Production Engineering
- Post Production Services
- DeltaLoad Ship Loading Software
- Advanced Engineering Analyses
- Project & Document Management
- Supervision Services
- Procurement Consultancy
- Feasibility Analyses

REFERENCES

- EYLUL K
- ISMAIL K