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
**20 000 DWT BULK CARRIER**

**SPECS**

### Capacities

- **Cargo**: 26 630 m³
- **Water Ballast**: 8 135 m³
- **HFO**: 750 m³
- **MDO**: 110 m³
- **Fresh Water**: 135 m³

### 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

- **LOA**: 157.90 m
- **LBP**: 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