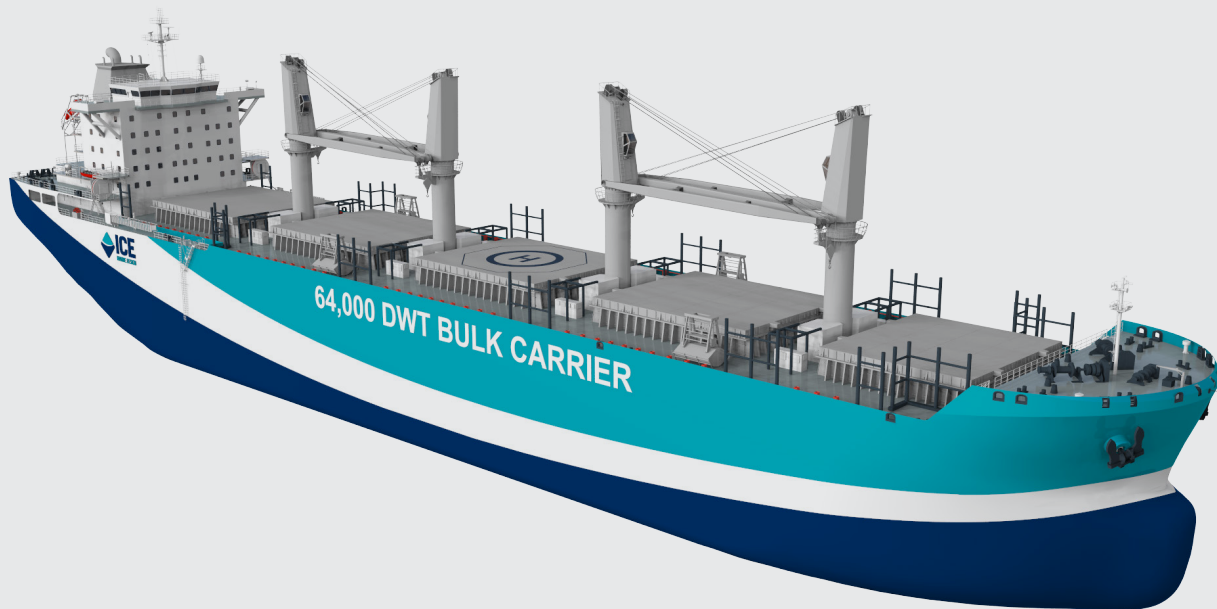


64,000 DWT BULK CARRIER ECO DESIGN

Based on its well-established track record in designing bulk carriers, ICE has updated one of its earlier designs to create a new 64,000 DWT bulk carrier.

This new single hull design aligns with the latest IMO regulations and industry standards. It includes a carefully selected number of compatible energy-saving devices (ESDs), allowing for later retrofitting of the emerging marine-compatible carbon capture technology. It incorporates valuable client feedback and operational insights, resulting in several key enhancements that ensure the vessel's compliance, efficiency, and adaptability. ICE's extensive experience from providing design packages and technical advice to shipyards world-wide is reflected in a production friendly design that is economical to build.

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Design Highlights:

- **Streamlined accommodation layout:** Incorporates feedback from leading international commercial ship operators.
- **Operational flexibility:** Designed for efficient performance across various operational conditions.
- **Incorporation of energy-saving devices:** Includes an optimised hull shape, an energy-efficient propeller, a propeller boss cap fin (PBCF), shaft generator and waste heat recovery units.
- **Provision for future retrofit of carbon capture technology.**



Principal Dimensions

Length o.a.	199.50 m
Length p.p.	191.80 m
Breadth mld.	32.26 m
Depth mld.	19.28 m
Draught, design	13.50 m
Draught, summer	14.00 m
Deadweight, summer draught, abt.	64,500 t

Capacities

Deadweight, summer draught, abt.	64,500 t
Cargo holds and hatches (grain).....	80,900 cbm
Fuel Oil	2,200 cbm
Low Sulphur Marine Gas Oil (LSMGO)	290 cbm
Fresh water (incl. technical FW)	520 cbm
Ballast water (incl. cargo hold no. 3)	34,700 cbm
Gross Tonnage, GRT	33,400
Net Tonnage, NRT	21,400

Accommodation

Accommodation (incl. trainees)	36 persons
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Ballast System

Ballast pumps	2 x 800 cbm/h
Ballast eductor.....	1 x 100 cbm/h

Cargo System

Four deck cranes (electro-hydraulic enclosed type)	
Safe working load	35.00 t
Max. working radius	26.00 m
Cargo hatch covers	hydraulically operated
Hatch dimensions (L x B):	
Hatch no. 1	16.8 x 18.6 m
Hatch no. 2-5	22.4 x 18.6 m

Speed

Service Speed	13.5 knots
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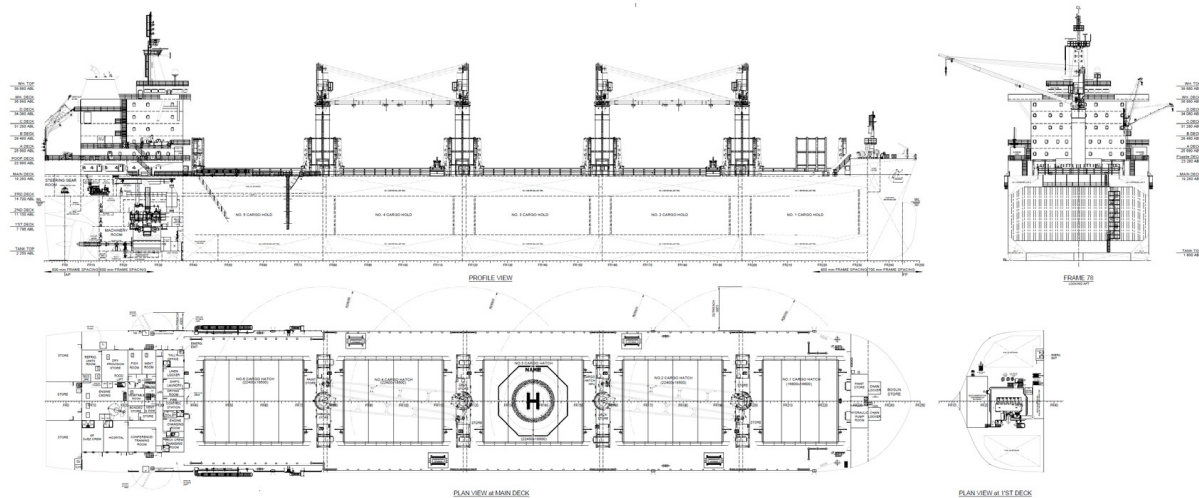
Machinery

Main engine	6G50ME-C10.7-HPSCR
Propeller	Nickel-aluminum-bronze single, aerofoil, clockwise, solid keyless propeller with hydraulic nut. Propeller Boss Cap Fin to be fitted.
Aux. Machinery	1 x 6H17/28U, 2 x 5H17/28M
Emergency Generator	1 x 120 kW @ 60 Hz

Class - DNV

✘ 1A Bulk Carrier, CSR, BC-A (Hold Nos 2 and 4 may be empty), Grab 20, ESP, BIS, CMON, COAT-PSPC B, E0, TMON, BWMT, Recyclable, ER SCR TIER III EGCS open, Clean, D-INF (G), Cyber secure (+Cargo)

Other IACS class is optional.



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With a 55-year track record and an annual output having exceeded 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is one of Europe's largest independent ship design consultancies. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FSO/FPSOs and a range of other vessels. We also have available proprietary designs that can be adapted to clients' requirements.

With our head office in the Isle of Man and engineering facilities in Romania and Croatia, we provide high quality design and engineering at very competitive prices.