

CHINA STEEL LIBERTY: Bulk carrier

Breadth moulded: 50.0m

Shipbuilder:
Country:Taiwan
Designer:CSBC Corporation
Country:Taiwan
Model test establishment used: .SSPA Sweden
Flag:Taiwan, R.O.C.
IMO number: 9832975
Total number of sister ships already completed
(excluding ship presented):2
Total number of sister ships still on order: 1

As part of a fleet renewal programme, begun in 2017, Taiwanese shipowner China Steel Express ordered a pair of ECO Newcastlemax bulkers at local builder CSBC. The order was later extended to four ships and the first of these was China Steel Liberty delivered in May. Two sisters China Steel Harmony and China Steel Brilliance followed in 2019 with the final vessel China Steel Prestige due for delivery early in 2020.

China Steel Liberty has been built to the limits of the Newcastlemax dimensions of 300m loa and 50m beam. Like many of the latest ships built to these dimensions, its deadweight of 208,600 comfortably exceeds the 185,000 tonnes that was once usual for this class of vessel. Cargo arrangements are typical for a Capesize ship with nine holds and nine hatches.

The ECO ship label applies to this deadweight and to the reduced fuel consumption compared to older ships. The attained EEDI is 2.20 which is comfortably below the 2.51 required for the vessel. The ship's accommodation has been built to a low resistance design aiding in reducing fuel consumption.

The vessel features a number of energy saving measures including the yard's sea-sword bow form, which is another of the vertical bulbless variants that have replaced the old bulbous bow designs of just a decade or so ago. Other measures featured are a rudder fin, twisted rudder, rudder bulb and a 9.1m high efficiency fixed pitch propeller. The main engine is a Mitsui-built MAN B&W 6S70ME-C8.5 type producing 14,900kW at 73rpm allowing a service speed of 16.5knots.

In order to have some flexibility for meeting the 2020 sulphur cap rules, the ship has been constructed as scrubber ready but none was installed on delivery.

TECHNICAL PARTICULARS

Length oa:	299.7m
Length bp:	295.2m

breadth moulded: 50.0m Depth moulded: 25.0m to main deck: Nil to upper deck: 25.0m to other decks: Nil Draught scantling: 18.5m
design: 16.0m Gross: 105,964gt Displacement: abt. 236,100t Lightweight: abt. 27,500t Deadweight: abt. 208,600t scantling: abt. 208,600t design: abt. 17,400t Block co-efficient: abt. 0.84/scantling Speed, service (80%MCR output): 14.5
Cargo capacity (m³) abt. 210,500 Bunkers (m³) abt. 4,600 Diesel oil: abt. 460 Water ballast (m³): abt. 133,000 Daily fuel consumption (tonnes/day) Main engine only: 46.6
Classification society and notations:
Propulsion Design:
Propeller(s) Material:

ik carrier
Diesel-driven alternators Number:
Number:
Number:2 x mooring winch/windlass + 4 x mooring winch Make:Manabe Zoki Type:Electric
Special lifesaving equipment Number of each and capacity: 1 x 25 persons Make:Jiangsu Jiaoyan Marine Equipment Co., Ltd. Type:Diesel engine, free-fall type
Hatch covers Design: MacGregor Manufacturer: CSBC Type (upper deck/other decks): Upper deck Cargo tanks
Number: 9 Product range: Ore Ballast water treatment system Make: Headway Technology Co., Ltd. Capacity: 3,900m³/h x 2
Complement Officers: 15 Crew: 10 Radars Number: 2
Make: JRC Fire extinguishing systems Engine room: Make: NK
Type:High Expansion Foam Efficiency Attained EEDI value:2.20
Required EEDI value:
Contract date:

Diameter: 9.1m

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