HDB 401 / HDB 402

HDB SERIES BALLASTABLE HEAVY DECK CARGO BARGE

IMO D2 compliant Ballast Water Treatment System



HEAVY DECK CARGO BARGES

20,000 MT
DEADWEIGHT

400' x 120' x 25'
122 m x 36.5 m x 7.6 m
LENGTH x BREADTH x DEPTH

25 tonnes/m²
DECK UNIT LOAD

ABS + A1
DECK CARGO BARGE BALLASTABLE

GENERAL / PRINCIPAL PARTICULARS

Flag Registry
Singapore

Certification
ABS + A1, Deck Cargo Barge Ballastable

Overall Dimensions
Length.....400' • 122m
Breadth.....120' • 36.5m
Depth.....25' • 7.6m
Loaded Draft.....19' • 5.8m
Light Draft.....3.6' • 1.1m
Deadweight.....22,045ST • 20,000MT
Lightship.....4,691ST • 4,256MT
Deck Area.....41,650ft² • 3,864m²
Deck Unit Load....5,000lbs.ft² • 25 tonnes/m²
ITC Tonnage.....9,211GT • 2,763NT

Bulkheads
(4) longitudinal, (8) transverse + pump room, longitudinal access/pipe alley

Double bottom in Pump Room

32 Ballast Tanks

Ballast Water Treatment System
Ecochlor EcoOne OS-2150-1.5
Chlorine dioxide injection system
Treatment Rated Capacity @ 2,500 m3/hr

HULL / BALLAST / AUXILIARIES

Spoon Shaped Bow/Raked Stern with 2 Skegs

Hull Fittings
Booby Hatch w/ W.T. Door to Pump Room • Bollard Bits • Kevels • Panama Canal Chocks • (2) Manhole Hatches per Tank • Split Pipe Side Fenders (4) Courses • Side Shell Ladders (2) Recess / (2) Mounted per Side • Bridle Retrieval Davit • Removable 2 Tier Cable Hand Rails

Equipment Auxiliaries
(1) John Deere 99kW Diesel Driven Generator, 24VDC starting 240VAC; 60Hz; 3 Phase with Kongsberg MSB

Lighting
Electrical LED lighting in pump room, pipe alley and shore power connection • Battery/solar powered navigation lights

Ballast Pumps
Two diesel driven 2500m³/hour (11,000 gpm) capacity at 21 meters (70 feet) head

Stripping/Bilge Pump
One 550 gpm self-priming, electric driven, centrifugal, 4" suction

TOWING / CONTROLS / BUILDER

Bridle Winch
Electric drive to retrieve bridle chain

Smit Brackets
Two towing brackets, bow mounted

Tank Gauging & Ballast Valve Control
Kongsberg KChief remote electronic level monitoring and valve control system with Bray electric operated butterfly valves

Emergency Tow Wire
63.5mm (2.5") diameter wire rope connected to bow mounted towing padeye and clipped to the deck edge and extending to the stern. A stripping retrieval line is clipped to the deck which in turn connects to a flotation line/buoy

Towing Bridle
3" diameter, grade 3, stud link chain x 90' long bridle with a 45' lead section for connection to tug's tow wire

Builder
2014 by Seabridge Marine Contractors Ltd./Jiangsu Yangzijiang Shipbuilding Co., Ltd.

GENERAL ARRANGEMENT

HDB 401 / HDB 402 - SOURCE TECHNICAL DRAWING



PRINCIPAL PARTICULARS

LENGTH (MOULDED):	122.00m	(400'-3")
BREADTH (MOULDED):	36.50m	(119'-9")
BREADTH (OVER GUARDS):	36.90m	(121'-1")
DEPTH (MOULDED):	7.60m	(24'-11")
DRAFT (LOAD LINE):	5.84m	(19'-2")
DECK STRENGTH:	25.00MT/m²	5120 PSF

REV	DESCRIPTION	BY	DATE
0	UPDATED WITH AS-BUILT MOORING FITTINGS, HATCHES AND TANK VENTS.	IM	2025-03-21

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SEABRIDGE MARINE
2436 HAYWOOD AVENUE
WEST VANCOUVER, B.C.
CANADA V7V 1Y1
W: WWW.SEABRIDGEMARINE.COM
E: SERVICES@SEABRIDGEMARINE.COM
P: +1-604-925-2601

HDB 401/2 SELF-BALLASTING HEAVY DECK BARGE
GENERAL ARRANGEMENT

DRAWN BY:	CHECKED BY:	DATE:
I.MCMURDO	S.LINDSAY	2025-03-21
SCALE: 1 : 325	DRAWING NO: HDB400-SM001	SHEET: 1 OF 1
		REV: 0

SHEET SIZE: LEDGER (11x17)

Original technical drawing retained without modification