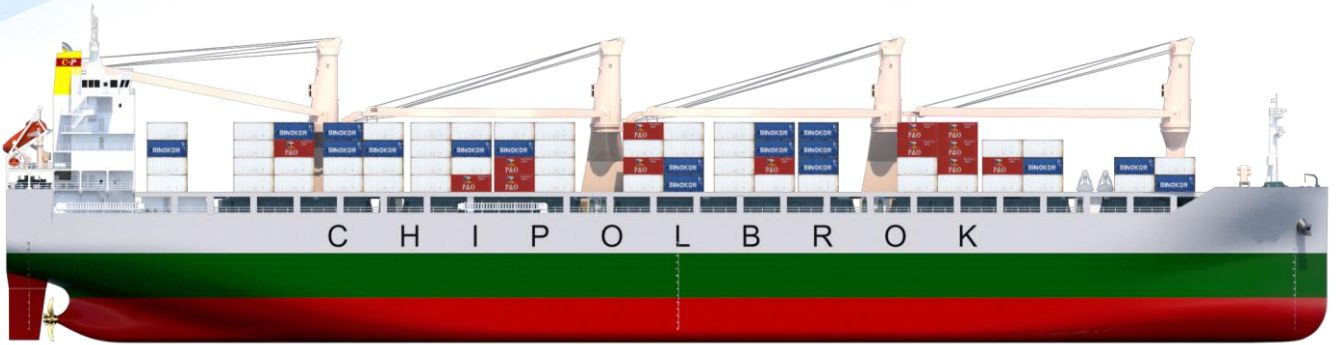


62000DWT HEAVY-LIFT MPV



Ship Information

| | |
|------------------|------------------------------------------|
| Ship's Name | DE AN |
| IMO No | 1076642 |
| Call Sign | VRWV4 |
| Nationality | Hong Kong |
| Port of Registry | Hong Kong |
| Official Number | HK-6063 |
| Builder | Kouan Shipping building Company limited. |

MAIN PARTICULARS

| | |
|---------------------------------|------------|
| Length overall | 199.90 m |
| Length between perp. | 196.52 m |
| Breadth moulded | 32.26 m |
| Depth moulded | 19.30 m |
| Design draught | 11.30 m |
| Scantling draught | 13.50 m |
| Deadweight at design draught | 48,021.9 t |
| Deadweight at scantling draught | 61,541.5 t |
| Endurance | 18,000 nm |
| Complement | 25+1 |

Tonnage Measurement

| | |
|---------------|----------|
| International | |
| Gross Tonnage | 39,309 t |
| Net Tonnage | 19,471 t |
| Panama Canal | |
| Net Tonnage | 34605 t |
| SUEZ Canal | |
| Gross Tonnage | 37,805 t |
| Water ballast | 22,000 t |

ENERGY EFFICIENCY PARTICULARS

| | |
|---------------------------------|-------------------|
| Service speed at design draught | 14.4 kn |
| ME fuel oil consumption at CSR | 24.65 t/d |
| EEDI | phase 3 compliant |

CARGO CAPACITY AND EQUIPMENT

| | |
|--------------------|--------------------------|
| Cargo holds (Bulk) | |
| No.1 Cargo Hold | 9,456.92 m ³ |
| No.2 Cargo Hold | 15,897.72 m ³ |
| No.3 Cargo Hold | 21,253.21 m ³ |
| No.4 Cargo Hold | 15,897.72 m ³ |
| No.5 Cargo Hold | 12733.06 m ³ |

| | |
|--------------|----------------------|
| Hatch covers | Folding type |
| Uniform load | 3.5 t/m ² |

| | |
|-----------------|---------|
| Containers | |
| On weather deck | 573 FEU |

| | |
|------------------------|-----------------------|
| Opening of Cargo Hatch | |
| No.1 Hatchway | 17.22m x 24.50/19.40m |
| No.2 Hatchway | 26.24m x 27.46m |
| No.3 Hatchway | 36.08m x 27.46m |
| No.4 Hatchway | 26.24m x 27.46m |
| No.5 Hatchway | 21.32m x 27.46m |

| | |
|----------------------------------|-------------------------------|
| Tween decks (in all cargo holds) | Pontoon type |
| | Non-sequence (except No.1 CH) |
| Uniform load | 3.0 t/m ² |

| | |
|-------------------|------------------------|
| Cargo cranes | 4 sets |
| No.1 Crane | 50T X 38m / 100T X 24m |
| No.2,3 & 4 Crane | 60T X 38m / 150T X 18m |
| Max. combine lift | 300T |

MACHINERY MAIN COMPONENTS

| | |
|-------------------|---------------------------|
| Main engine | MAN B&W 6S50ME-C9.7 HPSCR |
| SMCR | 8200 Kw x 90.1 r/min |
| CSR | 6494 Kw x 83.4 r/min |
| Propeller | 1 x FPP |
| Diesel generators | 3 x 750 kW |

CLASSIFICATION

CCS ★ CSA General Dry Cargo Ship; Holds Nos,2&4 may be Empty; Strengthened for Heavy Cargoes; Equipped with Container Securing Arrangements; CLC; Grab*(20); PSPC(B); Loading Computer(S,I,G); In-Water Survey; ERS
★CSM AUT-0; SCM; G-EP(GPR(EU)); G-EP(GPR(EU)); G-ECO(BWM(T),CD30)

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Cargo Description

The vessel is designed and built as a single screw driven double-skin heavy-lift multi-purpose vessel for normal worldwide service.

The vessel is constructed and fitted up so as to be capable of carrying wide range of commodities, e.g. containers, dry bulk cargos, grain, general cargoes, project cargoes, steel coil, heavy cargoes, paper pulp and long pieces, etc

The following IMDG dangerous goods can be loaded:

Cargo hold:

- Bulk goods except class 4.3
- Package form of class 1.4S, 2.2, 3, 4.1, 4.2, 5.1, 6.1, 8, 9
-

Remarks for goods in cargo hold:

- In class 3, only $23^{\circ}\text{C} \leq \text{F.P.} \leq 60^{\circ}\text{C}$ to be carried.
- In class 6.1, only solids can be loaded
- In class 8, solids and liquids with $\text{F.P.} > 60^{\circ}\text{C}$ to be loaded
- In class 9, other than goods evolving flammable vapor to be loaded
- In class 4.1, 4.2, 5.1, 6.1 and 9, goods require mechanically ventilated spaces not to be loaded
- In class 5.1, goods require protected from sources of heat not to be loaded
- In class 6.1, goods having a subsidiary risk not to be loaded
- Carriage of dangerous goods which in bulk form of not mechanical ventilation and not need cargo spaces remain tightly sealed and the inert condition maintained.
- Stowage adjacent to sources of heat, including fuel tanks which may require heating is not permitted, not insulation to be installed on the bulkhead of cargo hold region.

Weather Hatch Cover:

- All dangerous goods in package form

Deckhouse before accommodation

- All dangerous goods in package form except in class 1.1 to 1.6
-

BUNKER STATION ON STERN

| | |
|----------|-------------------|
| Position | Upper Deck |
| Number | 2(P&S) |
| Height | 19.3 m above keel |

FIRE FIGHTING SYSTEM

| | |
|---------------|--------------------|
| CO2 Quantity | *** bottles(**L) |
| Maker | |
| Detector type | |
| Cargo Hold | Smoke |
| Engine Room | Ionization/Thermal |

AIR CONDITIONING FOR ACCOMMODATION

| | |
|----------------------|--|
| Air Handling Unit | |
| Maker | |
| A/C Plant Compressor | |
| Quantity | |
| Maker | |

REFRIGERATION MACHINERY

| | |
|-------------|--|
| Compressor | |
| Quantity | |
| Maker | |
| Condenser | |
| Quantity | |
| Maker | |
| Refrigerant | |

RADIO & NAVIGATION EQUIPMENT

| |
|-----------------------|
| Radio station |
| Gyro compass |
| Autopilot |
| Radar |
| ERIPB |
| Inmarsat |
| AIS |
| Inmarsat |
| GPS |
| Speed log |
| Echo sounder |
| VHF |
| Navtex receiver |
| VHF two way telephone |
| Facsimile receiver |
| AIS transponder |

62000DWT HEAVY-LIFT MPV

Rules and regulations

a) Rules and Regulations of Classification Society

b) Maritime laws and regulations of flag authority

c) International rules and regulations

- International Load Line Convention (1966) including amendments 1971, 1975, 1979 & 1983 and protocol 1988 and latest amendment.
- International Convention for the Safety of Life at Sea (SOLAS 1974), with protocol 1978, 1988 including all and latest amendments
- International Convention for the Prevention of Pollution from ships, 73/78 (Annex I, IV, V & VI) and all amendments.
- International Regulations for Preventing Collisions at Sea (London 1972) including latest revision
- International Telecommunications Convention 1982 and Radio Regulation, Edition of 2012
- International Regulation on Tonnage Measurement of ships, 1969
- Maritime Labor Convention (MLC) 2006, Title 3, Regulation Standard A3.1 (except swimming pool).
- 2008 IS Code – International Code on Intact Stability, 2008
- IMO Resolution MSC. 23 (59) (International Grain Code)
- IMO Resolution MSC. 137 (76) “Standards for Ship Maneuverability “
- IMO Resolution MSC. 215 (82) (PSPC coating standard)
- IMO Resolution A. 868 (20) “Guidelines for the control and management of ships’ ballast water to minimize the transfer of harmful aquatic organisms and pathogens”
- International Convention for the Control and Management of Ship’s Ballast Water and Sediments, 2004 (BWM Convention)
- IMSBC Code – International Maritime Solid Bulk Cargoes Code
- IMDG Code
- All IACS Unified Requirements for strength applicable to New Building of the vessel which has been formal published at the date of signing contract.
- International marine pilots association requirements
- Singapore MPA (3 green round lights)
- IMO Resolution MSC.337(91) “Adoption of the code on noise levels on board ships”.
- ISO 6954-2000 guidelines for vibrations on board ships

- IMO Resolution MEPC.308 (73), “2018 Guidelines on the method of calculation of the attained energy efficiency design index (EEDI) for new ships”
- IMO Resolution MEPC.254 (67), “2014 Guidelines on survey and certification of the energy efficiency design index (EEDI)” and Amendments.
- EU Directive 1999/32/EC, amended by 2005/33/EC and 2012/33/EU, which specifies limits on the sulphur content of marine fuels
- IEC Publication No.60092, Electrical installation in ships where required by the Classification Society
- ICS Guide to Helicopter / Ship Operation (winching operation only)
- International Ship & Port Facility Security Code (ISPS Code) only limited to ship security alert system, IMO number and locking device
- IMO Resolution MSC.1/Circ.1352 “Amendments to the code of safe practice for cargo stowage and securing (CSS CODE), 2010” and IACS UI SC265
- AFS - International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001
- Regulation (EU) No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on ship recycling and amending Regulation (EC) No. 1013/2006 and Directive 2009/16/EC (only Statement of Compliance)
- IMO Res. A.962 (23) IMO Guidelines on Ship Recycling Convention 2009 amended by Res. A.980 (24) (Inventory of Hazardous Materials Only).

d) Special rules and regulations

- Rules and Regulations governing navigation of Suez Canal, including tonnage measurement
- Rules and Regulation governing navigation of the Panama Canal (including new panama lock) including tonnage measurement
- U.S. Coast Guard Regulations applying to foreign flag vessel trading in U.S. waters concerning pollution prevention with compliance statement
- Australian Maritime Safety Authority MARINE ORDERS Part 32 “Cargo Handling Equipment” Issue 2, Compilation No.1 prepared on 29 November 2011 (for ladders in cargo hold/deck and access to container onboard for loading and unloading and for material handling equipment) (The newest AMSA Part 32 issue 3 to be applied especially in regard to ladders, entrances, passageways, etc.)

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CREW AND CABIN LOCATION

| Cabins | Berths | Rooms | Deck |
|-------------|--------|-------|---------------|
| Captain | 1 | 2 | D deck |
| C/ENG. | 1 | 2 | D deck |
| Pilot | 1 | 1 | D deck |
| 4th. ENG. | 1 | 1 | D deck |
| CHIEF OFF. | 1 | 2 | C deck |
| 2nd ENG. | 1 | 2 | C deck |
| OWNER | 1 | 2 | C deck |
| BOATSWAIN | 1 | 1 | C deck |
| ELE.ENG. | 1 | 1 | C deck |
| CARPENTER | 1 | 1 | C deck |
| 2nd OFF. | 1 | 1 | B deck |
| 3rd.ENG. | 1 | 1 | B deck |
| STOREKEEPER | 1 | 1 | B deck |
| MOTORMAN | 3 | 3 | B/Poop deck |
| 3rd. OFF | 1 | 1 | B deck |
| SEAMAN | 6 | 6 | B/A/Poop deck |
| C.STEWARD | 1 | 1 | A deck |
| COOK | 1 | 1 | A deck |
| SPARE | 1 | 1 | Poop deck |

LOADING COMPUTER

Maker
Software Cloud

SHORE CONNECTION

Electric power
3 phase

WINCHES

Manufacture
Electric comb anchor-double drum mooring winch
Quantity
Powered for rated pull at windlass part
Powered for rated pull at mooring part
Max brake loading force
Electric self-tensioning mooring winch
Quantity
Powered for rated pull at mooring part
Warping head no load speed

FRESH WATER GENERATOR

Type *** bottles(**L)
Capacity
Maker

MAIN/EMERGENCY DIESEL GENERATOR ENGINE

Main Diesel Generator
Quantity 3
Type: MAN 6L23/30H
Capacity
Main Engine Power/Revolution
Emergency Diesel Generator
Quantity 1
Type
Auxiliary generator Capacity

MAIN AIR COMPRESSOR

Quantity
Type
Capacity
Maker

OLY WATER SEPARATOR

Quantity
Type
Capacity
Maker

BOILER

Type
Maker
Exhaust Economizer
Quantity
Capacity
Fuel Oil Economizer
Quantity
Capacity

LIFE SAVING APPLIANCE

Life Boat
Quantity
Type
Maker
Rescue Boat
Quantity
Type
Maker
Davit Inflatable Life Raft
Quantity
Type

62000DWT HEAVY-LIFT MPV

| AIR DRAFT (m) | | | |
|---------------------------|-----------------|----------------------|-----------------------|
| Description | Height above BL | Da = 8.0 m Df = 6.5m | Da = 13.5m Df = 13.5m |
| Radar Mast (FR15) | 49.9 | 42.0 | 36.4 |
| Top of Crane No.2 (FR113) | 48.6 | 41.3 | 35.1 |
| Top of Crane No.3 (FR165) | 48.3 | 41.3 | 34.8 |

| FREEBOARD MARK AND DEADWEIGHT SCALE | | | | | |
|-------------------------------------|--------------------|--------------|-------------------|----------------|--------------|
| Mark | Description | Freeboard mm | Draught Moulded m | Displacement t | Deadweight t |
| S | Summer | 5840 | 13.500 | 75241.5 | 61291.5 |
| F | Summer Fresh Water | 5535 | 13.805 | 75246.5 | 61296.5 |
| T | Tropic | 5559 | 13.781 | 76979.1 | 63029.1 |
| TF | Tropic Fresh Water | 5254 | 14.086 | 76944.0 | 62994.0 |
| W | Winter | 6121 | 13.219 | 73506.1 | 59556.1 |

