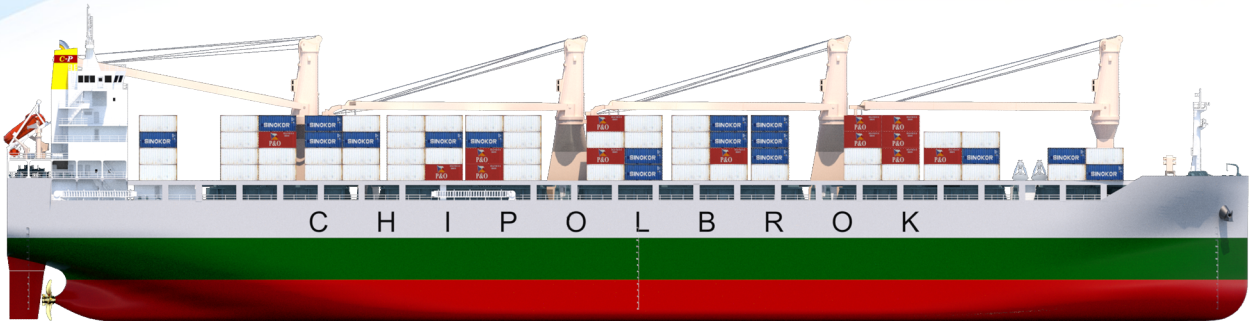


62000DWT HEAVY-LIFT MPV



Ship Information

Ship's Name	KOPERNIK
IMO No	1076654
Call Sign	5LUX6
Nationality	LIBERIA
Port of Registry	MONROVIA
Official Number	24918
Builder	Taizhou Kouan Shippingbuilding Co., LTD.

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	61,543.5 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

PRS ★ KM Dry Cargo Ship ACC (570 TEU) HC/E CG IWS AUT ECO REC
 ECO BWM *PRM;
 Cargo Holds No. 2&4 may be Empty;
 Inner Bottom Strengthened for Heavy Cargoes;
 Equipped with Container Securing Arrangements;
 CLC; Grab*(20); PSPC(B); Loading Computer(S,I,G);
 In-Water Survey;

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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: 1 SET FURUNO
Gyro compass: 1 SET KEIKI
Autopilot: 1 SET KEIKI
Radar: 2 SETS FURUNO
ERIPB AIS: 1 JOTRON
SART AIS: 2 SETS JOTRON
Inmarsat C: 2 SETS FURUNO
AIS: 1 SET FURUNO
VDR: 1 SET FURUNO
GPS: 2 SETS FURUNO
Speed log: 1 SET FURUNO
Echo sounder: 1 SET FURUNO
VHF: 2 SETS FURUNO
Navtex receiver: 1 SET FURUNO
VHF two way telephone: 3 SETS JOTRON
Facsimile receiver: 1 SET FURUNO
AIS transponder: 1 SET FURUNO

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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).
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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
ELE. 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
3rd.ENG.	1	1	C deck
CARPENTER	1	1	C deck
2nd OFF.	1	1	B deck
4th.ENG.	1	1	B deck
STOREKEEPER	1	1	B deck
MOTORMAN	3	3	B/Pool deck
3rd. OFF	1	1	B deck
SEAMAN	6	6	B/A/Pool deck
C.STEWARD	1	1	A deck
COOK	1	1	A deck
SPARE	1	1	Pool deck

LOADING COMPUTER

Maker
Software

Cload

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
Capacity
Maker

*** bottles(**L)

MAIN/EMERGENCY DIESEL GENERATOR ENGINE

Main Diesel Generator
Quantity 3
Type: DAITATSU 6DK-20e
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

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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

