

## HOLDS & HATCHES

No.1,2 & 7 hatch covers are MacGregor Navire hydraulically operated folding type.

No.1 hatch cover - two panels folding aft.

No.2 hatch cover - one panel folding fwd, two panels folding aft.

No.7 hatch cover - two panels folding fwd and two panels folding aft. Fore and aft panels may be opened non sequentially. It is possible to release the hinge joints between the 2 panel covers to open only the panel closest to the end of the hatch.

Hatches 3,4,5 & 6 are of MacGregor Navire lift away type and may be opened non sequentially. Each hatch has three panels positioning on P+C+S with swing seal fitted in between, normally lifted by the ships gantry crane with a container spreader attached. Panels may also be lifted by shore gantry and/or by ship's slew crane. Panels are stackable.

Tween deck covers in hatches 1,2 & 7 (upper and lower tween decks) are MacGregor Navire piggy-back type, electrically operated chain pull and wire pulleys shift and lift panels during opening and closing.

Hatch 1 upper tween deck - 4 panels fwd and 4 aft.

Hatch 2 upper tween deck - 4 panels fwd and 5 aft.

Hatch 2 lower tween deck - 4 panels fwd and 5 aft.

Hatch 7 upper tween deck - 5 panels fwd and 5 aft.

Hatch 7 lower tween deck - 5 panels fwd and 5 aft.

Car Space Doors (Garage) located port and starboard are MacGregor Navire side sliding type, one panel, operated by manual winch.

Bulkhead Doors are of MacGregor Navire gas-tight sliding type consisting of one panel each, located as follows:-

No.1 upper tween deck std. side aft.

No.1 lower tween deck std. side aft.

Doors are manually operated with chain and winch.

Clearance of hatches (mtrs):

	Lower Hold	Lower T/D	Upper T/D
No. 1	---	3.405	3.280/6.273
No. 2	6.150	3.418	3.355/6.270
No. 3	17.055	---	---
No. 4	17.059	---	---
No. 5	17.058	---	---
No. 6	17.067	---	---
No. 7	6.150	3.400	3.365/6.290

Grain & Bale capacity:	Grain (cubic m)	Bale (cubic m)
No.1- Upper T/D	2426	2185
Lower T/D	1328	1112
Total	3754	3297
No.2- Upper T/D	3727	3408
Lower T/D	3393	3130
Lower hold	3492	3357
Total	10612	9895
No.3- Hold	6081	6081
No.4- Hold	6081	6081
No.5 - Hold	6081	6081
No.6 - Hold	6081	6081
No.7- Upper T/D	4954	4558
Lower T/D	4978	4596
Lower hold	5264	5073
Total	15196	14227
No.8- Hold (Locker) (S)	366.5	319.5
Hold (Locker) (P)	366.5	319.5
Car Garage (P&S)	1170	1170
Totals:	55789 m <sup>3</sup>	53552 m <sup>3</sup>

Grain stowage @ 1.5 cu. M/tonne: 37,193 tonnes.

Hold & Tween Deck Measurements:

Hold	Lower Hold T/Top	Lower T/D	Upper T/D
No.1	Length ---	19.20 m	19.20 m
	Width ---	18.00 m (mid)	20.10 m (mid)
No.2	Length 28.80m	28.80 m	28.80 m
	Width 27.50 m/14.56 m	27.50 m	27.50 m
No.3-6	Length 12.80 m	---	---
	Width 27.50 m	---	---
No.7	Length 39.20 m	39.20 m	39.20 m
	Width 27.50 m/14.56 m	27.50 m	27.50 m
No.8 lockers (P&S)	Height 3.02 m		
	Width 3.02 m		
Car Garage (P&S)	Height 3.02 m		
	Width 2.52 m		

Doors (1 - upper & 1 - Lower T/D Stb side between hatch No.1 & 2): 3.02m x 3.02m

All accesses AWWF approved.

## SPEED AND CONSUMPTION

Main engine uses HFO 380cst to ISO 8217 RMG 35 basis  
Operating draft of 12.0m, max. Beaufort 3, sea state 3.

Speed (knots) : 14.5  
Consumption MT/day : 37.0

Diesel Generators : 2 x Wartsila 4R32 using HFO 380 cst to ISO 8217 Grade RMG  
1 x Wartsila 8R22 using MDO

In port, idle : 3.84 MT/day  
At sea : 3.84 MT/day  
All cranes working : 7.00 MT/day  
50 reefers : 1.5 MT/day (additional)

Boiler consumption (MFO 380 CST, same as main engine)  
In port : 1.5-3.5 MT/day weather dependant  
At sea : Nil

## CARGO HANDLING EQUIPMENT

No.1 crane -  
Hagglund hydraulic slewing cranes Type G3626.  
SWL x Jib radius - 36t x 26m. (min. radius 4.1m)  
No.2 & 4 crane -  
Hagglund hydraulic slewing cranes Type GL4521/4023/3625/3028.4/2532-2  
SWL x Jib radius - 45t x 21m, 40t x 23m, 36t x 25m, 32t x 28.4m, 25t x 32m. (min. radius 4.1m)  
No.5 crane -  
Hagglund hydraulic slewing cranes Type G2526.  
SWL x Jib radius - 25t x 26m. (min. radius 4.1m)  
No.3 crane -  
Hagglunds C gantry crane, SWL 41t, 38t at turntable.

Team operation possible at cranes 1 & 2, and 4 & 5, with lifting beam

Slewing crane outreach at max jib radius:

No.1 crane : 9.87 m  
No.2 crane : 15.87 m  
No.4 crane : 15.87 m  
No.5 crane : 9.87 m

Cargo Lashing Gear :  
Manual twistlocks (deck tier 82) : C5D  
Semi auto twistlocks : TL-A  
Midlocks : TL-ML  
Safety Stacker : IS.IT  
Turnnbuckles : A10A  
Lashing rods (4.7 & 2.35M) : A7A & A9CB

## MACHINERY

Main Engine: 1 x MAN B&W 5L80GA diesel, reversible, 2-stroke engine driving a fixed pitch 4 bladed propeller. Max. continuous rating 14500 @ 104 RPM, continuous service rating 11600 BHP at 80% MCR.

Diesel Generators: 2 x Wartsila 4R32 (using HFO) - 1268 kW.  
1 x Wartsila 8R22 (using MDO) - 1192 kW.

Bow Thruster: 1x1119kW Stone Vickers TYPETC2400, driving 4-blade controllable pitch propeller, approximate thrust of 19.8 tonnes

## COMPLEMENT

Officers : 12  
Crew : 21  
Berths : 42 - Living Quarters, 6 - for Suez Canal Crew, 1 - In Hospital  
Max LSA capacity : 40

## TANK CAPACITIES

MFO : 4294 cu.m. @ 98%  
MDO : 289 cu.m. @ 98%  
FW : 412 cu.m. @ 100%  
Ballast : 12884 cu.m. @ 100%

## GENERAL

All holds protected by CO<sub>2</sub> smothering. Forced draft ventilation - minimum 6 air changes/hour. Bridge equipment to a high standard is fitted, including 2 x GPS Navigator and 2 radars, AIS and an electronic chart system. Communication equipment meets with the latest GMDSS requirements. Vessel is linked to Head Office by the 'Amosconnect' system of data communication, allowing efficient information exchange.



THE CHINA NAVIGATION CO. LTD.



# M.V. PACIFIC MAKASSAR

41,949 dwt Open Hatch box shaped, Geared Cargo, Multi-Purpose Containership 1822 TEU max.

## BUILT

1984 at  
Swan Hunter Shipbuilders Ltd.,  
United Kingdom, Hull No. 118  
Ex "Indotrans Makassar"

## PORT OF REGISTRY

SAR Hong Kong,  
PR China  
Off. No. HK-1223

TEU capacity with homogenous load - IMO criteria and approved for dept. condition with 98% bunkers and arrival condition with 15% bunkers.

12T	14T	16T	18T	20T	Handling
1622	1622	1622	1563	1473	Ship crane
1822	1774	1654	1563	1473	Shore crane

## CLASS

Lloyds +100A1 + LMC, UMS, Ice class 3, Strengthened for heavy cargo in holds 3,4,5, & 6, LOLO vehicles to garage space underneath poop deck.

FEU capacity with homogenous load - IMO criteria and approved for dept. condition with 98% bunkers and arrival condition with 15% bunkers.

20T	30T	Handling
756	654	Ship crane
796	684	Shore crane

IMO No. 8201612

## DIMENSIONS

Length O.A. : 197.62 m  
Length B.P. : 185.90m  
Breadth Mld. : 32.26 m  
Depth Mld. : 17.00 m  
Summer draft : 12.069 m  
Summer Dwt. : 41949 mt  
GRT : 30061  
NRT : 15237  
GRT Suez : 30600.59  
Panama : 30805.36  
NRT Suez : 26045.76  
Panama : 23218.89

## CALL SIGN

VRZO 2

## COMMUNICATIONS

Satcom B : No. 347791980 (Tel)  
: No. 347791981 (Fax)  
: No. 347791983 (Tlx)  
Satcom C : No. 447791920 (Tlx)  
Iridium : No. 8816-318-52466 (Tel)  
Fleet 77 : No. 761141121 (Tel) / 22 / 23  
Email : pacificmakassar@cnco.amosconnect.com

## CONTAINER CAPACITY

Max containers intake : 1622 TEU ship crane handling + 200 TEU shore crane handling = 1822 TEU  
Hold : 764 TEU  
Deck : 858 TEU ship crane handling + 200 TEU shore crane handling = 1058 TEU  
Max 40ft Capacity  
Below deck : 367 FEU  
Above deck : 405 FEU ship crane handling + 98 FEU shore crane handling = 503 FEU  
Total : 772 FEU ship crane handling + 98 FEU shore crane handling = 870 FEU  
Max 40ft + 20ft Capacity  
Below deck : 367 FEU + 30 TEU  
Above deck : 503 FEU + 52 TEU  
Total : 870 FEU + 82 TEU

Permissible uniform distributed load:

Weather Deck and Hatch covers:	Hold No.1	3.0 mt per m <sup>2</sup>
	Hold No.2	3.0 mt per m <sup>2</sup>
	Hold No.3-6	3.0 mt per m <sup>2</sup>
	Hold No.7	3.0 mt per m <sup>2</sup>
Exposed Poop Deck	Hold No.8	0.5 mt per m <sup>2</sup>
Upper Tween deck	Hold No.1	3.0 mt per m <sup>2</sup>
	Hold No.2	3.0 mt per m <sup>2</sup>
	Hold No.7	3.0 mt per m <sup>2</sup>
Lower Tween deck	Hold No.1	5.0 mt per m <sup>2</sup>
	Hold No.2	3.0 mt per m <sup>2</sup>
	Hold No.7	3.0 mt per m <sup>2</sup>
Lower hold (Tanktop)	Hold No.2	14.0 mt per m <sup>2</sup>
	Hold No.3-6	20.0 mt per m <sup>2</sup>
	Hold No.7	14.0 mt per m <sup>2</sup>
Car Garage (P & S)	Hold No.8	2.16 mt per m <sup>2</sup>

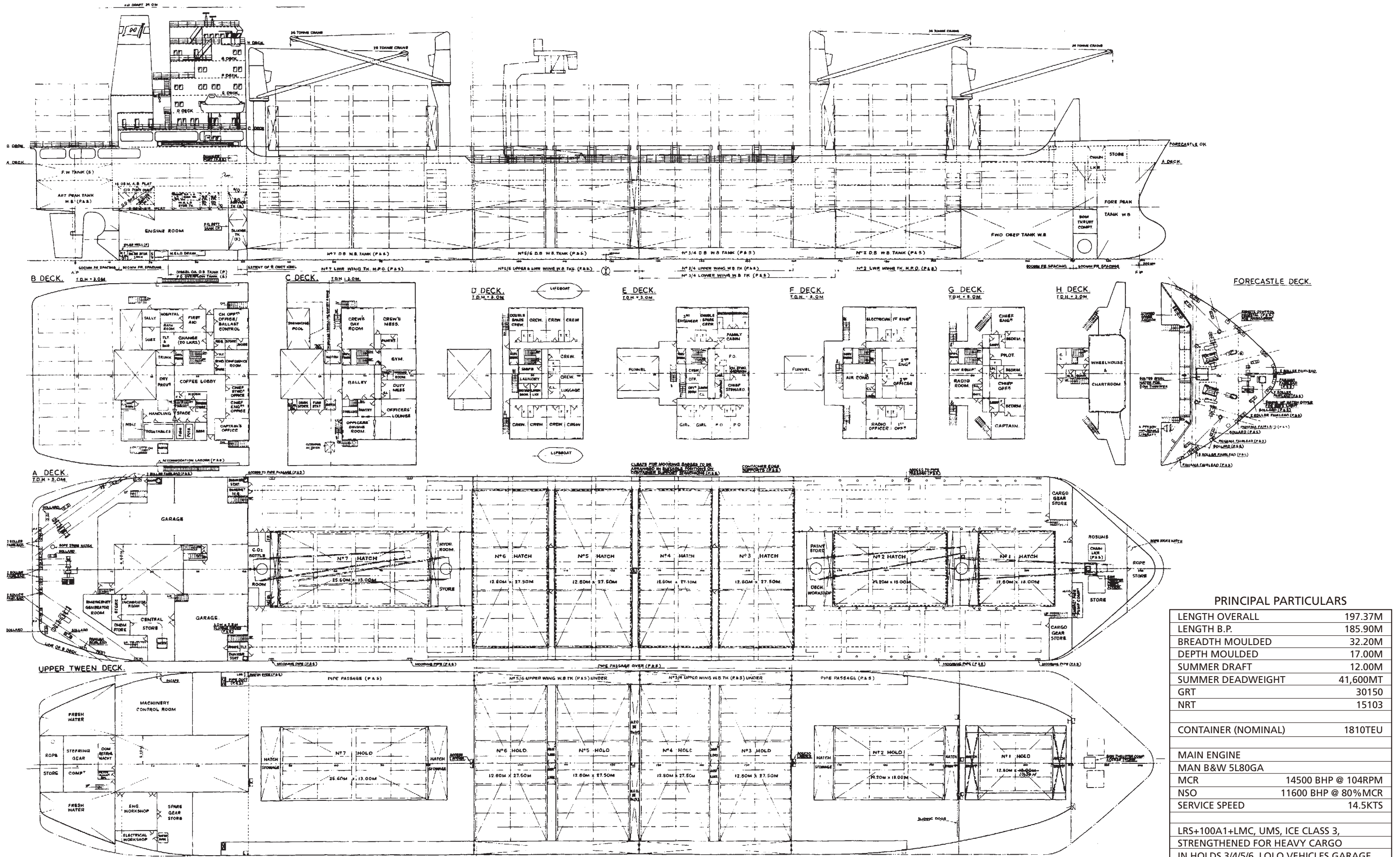
Permissible Container Stackweights:

	Hold	TEU	FEU
Weather deck and Hatchcover:	Hold No.1	80 mt	87 mt
	Hold No.2	80 mt	91 mt (outboard stack 87 mt lashing criteria)
	Hold No.3	80 mt	91 mt (outboard stack 87 mt lashing criteria)
	Hold No.4-5	80 mt	91 mt (outboard stack 64 mt lashing criteria)
	Hold No.6	80 mt	91 mt (outboard stack 87 mt lashing criteria)
	Hold No.7	80 mt	91 mt (outboard stack 64 mt lashing criteria)
Exposed poop deck:	Hold No.8	80 mt	91 mt (outboard stack 64 mt lashing criteria)
Upper tween deck:	Hold No.1	41 mt	61 mt
	Hold No.2	41 mt	61 mt
	Hold No.7	41 mt	61 mt
Lower tween deck:	Hold No.1	61.5 mt	91.5 mt
	Hold No.2	---	---
	Hold No.7	---	---
Lower hold (tanktop):	Hold No.1	---	---
	Hold No.2	123 mt	183 mt
	Hold No.3-6	123 mt	183 mt
	Hold No.7	123 mt	183 mt
Reefer Cargo:	50 reefer sockets, each rated at 440v, 30A, 60Hz		
Reefer points situated :	On deck 50 points		
Maximum reefer load :	50 TEU - Bay 31/63/73/79.		



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## PRINCIPAL PARTICULARS

LENGTH OVERALL	197.37M
LENGTH B.P.	185.90M
BREADTH MOULDED	32.20M
DEPTH MOULDED	17.00M
SUMMER DRAFT	12.00M
SUMMER DEADWEIGHT	41,600MT
GRT	30150
NRT	15103
CONTAINER (NOMINAL)	1810TEU
MAIN ENGINE	MAN B&W 5L80GA
MCR	14500 BHP @ 104RPM
NSO	11600 BHP @ 80%MCR
SERVICE SPEED	14.5KTS
LRS+100A1+LMC, UMS, ICE CLASS 3, STRENGTHENED FOR HEAVY CARGO IN HOLDS 3/4/5/6, LOLO VEHICLES GARAGE SPACE POOP DECK	
COMPLEMENT	40P