

Specification

GENERAL		BALLAST SYSTEM	
Class	: ABS	Ballast pump	: 2 x 650 m ³ /h & 6x300 m ³ /h
Notation	: A1,Column - Stabilized,crane service, Accommodation Service. Circle P	FIRE FIGHTING & SAFETY	
PRINCIPAL DIMENSIONS		Fire Fighting	: 2 x Fire pumps 360 m ³ /h at 14.3 bar
Main Deck		Life Boats	: 8 x 100 person with davits
Length	: 80 m	Rescue boat	: 1 x 6 men Motor Rescue Boat
Width	: 70 m	Life Rafts	: 20 x 20 men
Height (Keel to Main deck)	: 38 m	MAIN AND AUXILIARY MACHINERY	
Deck box height	: 5.0 m	Main Generator	: 4 x CAT 3516B, 1825 kW, 460V, 3ph, 60Hz
Pontoons		Emergency Generator	: 1 x CAT 3512B, 1300 kW, 460V, 3ph, 60Hz
Length	: 118 m	Service Compressor	: 2 x 1500m ³ /h screw type
Width	: 15 m	Start Air Compressor	: 2 x 60m ³ /h, 30 bar
Depth	: 8 m	F.W generator	: 3 x Reverse Osmosis type 70 tonnes/day (Capacity: 200 tons / day)
Columns (2 FWD)		Boiler	: 2 x 3200kg/h steam boilers
Length	: 15 m	Sewage Plant	: 2 x 270 men capacity vacuum type
Width	: 15 m	MAIN OFFSHORE CRANE	
Height	: 25 m	Main Deck Crane	
Columns (2 AFT)		Main hook	: 1 x 1,100Tons
Length	: 17.5 m	Auxiliary hook	: 500 Tons
Width	: 15 m	Fixed Lifting capacity	: 1,100 T@36 m
Height	: 25 m	Slewing lifting capacity	: 600T @36 m
Center column (1Port side, 1 Stbdside):	Φ6m & 7.5mx7.5m	Max. Lifting Height	: Approx. 79m above sea level at Crane Draft 23m
Sponsons	: 2 EA	HELIDECK	
Horizontal Bracing	: 4 EA	1 x Helideck suitable for Westland EH101 or equivalent helicopter	
Diagonal Bracing	: 7 EA	DECK MACHINERY	
Net Deck Area	: 2000 m ²	Deck Crane	: 1 x crane 25T@10 m; 2 x crane 10T@25m;
Deck Strength		Gangway	: 1x Telescopic hydraulic gangway with base of approx. 36.5m (±6m) long
Port Hull Deck	: 2 - 10 T/m ²	ACCOMMODATION	
STBD Hull Deck	: 5 T/m ²	The living quarter and mess facilities can accommodate 500 persons.	
Centre Hull Deck	: 3 T/m ²	Single Cabin: 2	
Transit Draft	: 7.8 m	2 men Cabin: 15	
Hotel/Cane Draft	: 23 m	3 men Cabin: 68	
Survival Draft	: 20 m	4 men Cabin: 66	
Hull Material	: ABS, High Strength steel	Mess Room: 312 persons	
Light Ship Weight		Food in Provision Rooms(500 persons): 8 days(or layout refrigerated container on main deck up to 45 days)	
Light Ship Weight (Maximum)	: 27,000 T	MOORING & TOWING	
Endurance	: 28.5 days with 90% bunkers, 4 x engines in 100% load,2 x boilers in 90% load.	12 Point Mooring System	: 12x Single Drum winches, Brake Hold 500T, Pull Load 150 T at 10m/min Drum capacity 2500 m x Ø76 mm
DESIGN ENVIRONMENT		Pre - lay mooring mode	: Water depth up to 1000 m; 12 mooring lines, each with 2500mØ76mm steel chain and 2500mØ76mm steel wire rope;
Survival condition	: Hs=12.0 m	Anchor mooring mode	: Water depth up to 200 m; 12 mooring lines, each with 2500mØ76mm steel wire rope;12 x 15T anchors (only 3 anchors equipped with delivery, 2 for temporary and 1 for spare)
Hotel Operation condition	: Hs=6.0 m	Towing	: 4 x SMIT Tow Brackets 500 T SWL
Transit condition	: Hs=3.0 m	Tugger Winches	: 8 x10T at 15m/min
Sea water temperature	: 0°C to 32°C	Bollards	: 8 sets of double bollards and Panama Chocks
Outside air temperature	: -10°Cto 40°C		
Structure design temperature	: -10°C		
Fatigue life	: 20 years		
OPERATION AREA			
Gulf of Mexico, Southeast Asia			
Brazilian water, West of Africa, Bohai Bay			
VARIABLE DECK LOADS			
Hotel Variable	: 5,000MT @23 m Operational Draft		
Crane Variable	: 2,970MT @23 m Crane Draft		
Survival Variable	: 5,000MT @20 m Survival Draft		
Transit Variable	: 5,000MT @7.8 m Transit Draft		

CIMC RAFFLES

SEMI SUBMERSIBLE CRANE & ACCOMMODATION VESSEL



Yantai CIMC Raffles Offshore Ltd.
Add: No.70 Zhifu East Road Zhifu Island,
Yantai, Shandong, China

Postcode: 264000
Tel: 86(535)6801451
Fax: 86(535)6801260

Email:enquire@cimc-raffles.com
www.cimc-raffles.com

Gangway

1x Telescopic hydraulic gangway
with base of approx. 36.5m (±6m) long

Main crane

Main hook : 1 x 1,100Tons
Auxiliary hook : 500 Tons
Fixed Lifting capacity : 1,100 T@36 m
Slewing lifting capacity : 600T @36 m
Max. Lifting Height : Approx. 79m above sea level
at Crane Draft 23m

Accommodation

The living quarter and mess facilities can accommodate
500 persons.

Helideck

Helideck suitable for
Westland EH101 helicopter

Lifeboat

8 x 100 person with davits

Deck Crane

1 x crane 25T@10 m

Mooring system

12 Point Mooring System :

12x Single Drum winches, Brake Hold 500T,
Pull Load 150 T at 10m/min
Drum capacity 2500 m x Ø76 mm

Pre - lay mooring mode :

Water depth up to 1000 m;
12 mooring lines, each with 2500mØ76mm steel chain
and 2500mØ76mm steel wire rope;

Anchor mooring mode :

Water depth up to 200 m;
12 mooring lines, each with 2500mØ76mm steel wire
rope; 12 x 15T anchors (only 3 anchors equipped with
delivery, 2 for temporary and 1 for spare)