

OOS Tiradentes

Semi-Submersible Accommodation Vessel



CR600 'OOS Tiradentes' is a Column Stabilized Semi-submersible Accommodation Rig, Featuring the latest technology, the CR600 design accommodation semi-submersible rig is capable of operating gangway connected in deep water and in harsh environments alongside fixed platforms, floating platforms and Floating Production and Offloading vessels, with a full complement of deck cranes and fire-fighting capabilities.

The 600-person capacity Dynamic Positioning 3 (DP) unit can be used worldwide, especially in the Gulf of Mexico and Brazilian Continental Shelf.



OOS TIRADENTES

SEMI SUBMERSIBLE ACCOMMODATION VESSEL

GENERAL

Flag	: Liberia
Class	: ABS
Notation	: A1, Column-Stabilized Unit, AMS, ACCU, DPS-3, Accommodation Service, HELIDK(SRF), ENVIRO-OS, CRC, HAB+(MODU), UWILD, Circle P(Optional), TAM(Optional), MLC 2006

PRINCIPAL DIMENSIONS

Overall	
Loa	: 106.45 m
Beam	: 68.90 m
Height to main deck	: 36.25 m
Deck Box	
Length	: 83.60 m
Width	: 67.70 m
Height	: 8.0 m
Displacement	: Approx.24,500- 35,500 Tonnes

DRAFT

Operation Draft	: 17. 75m~20 m
Survival Draft	: 14.25m/15.75 m
Transit Draft	: 8.90 m
Deck Area	: 2,100 m ²

DESIGN ENVIRONMENT

DP operation	
Significant Wave Height	: 5.9 m
Peak Period	: 11 s
1-min mean Wind speed(10m height)	: 31 knots
Surface current	: 2.72 knots

Structure design environmental

Survival condition	
Significant Wave Height	: 11.6m
Operation condition	
Significant Wave Height	: 6.9m
Sea water temperature	: 0 °C to 32 °C
Outside air temperature	: 0 °C to 40 °C
Humidity (%RH)	: 30%RH(min), 90%RH (max)

OPERATION AREA

The unit will be designed in moderate weather condition of world wide ocean, including offshore Brazil, Gulf of Mexico, UK North Sea.

BALLAST CAPACITY

Ballast pumps	: 4 off, combined capacity 3,000m ³ /h
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VARIABLE PAY-LOADS : 6500MT

VARIABLE DECK LOAD: 2500MT

STORAGE CAPACITIES

Fresh water	: approx 1,300 m ³
Fuel Oil	: approx 3,000 m ³

LIFE SAVING SYSTEM

Life Boats	: 10 x 120 Persons Davit Type
Rescue Boat	: 1 x 6 men Motor Rescue Boat
Life Rafts	: 24 x 25 Persons Davit Type

MAIN AND AUXILIARY MACHINERY

Engine	: 6 x 5445 ekW Diesel generator,
Emergency Generator	: 1 x 1,140 ekW Emergency generator
F.W generator	: 3 x 75 tones/day, reverse osmosis type
Sewage Plant	: 4 x 200 persons capacity vacuum type

STATION KEEPING

Thruster	: 6 X 3.8MW
Mooring Winches(Optional)	: 4 X double drum winches, wire 750 m x Ø 83 mm, pre-laid
Anchors (Option)	: 8 x 15T HHP

HELIDECK

Helicopter	: EH101,Sikorsky S-92 and S-61N
Diameter	: 23m

DECK MACHINERY

Deck Crane	: 2 x 60 T SWL @ 7.5m , 12T@37m; 10T@40.5m; Both cranes are electrical driven type and shall be certified for man ridding.
Gangway	: 1x Telescopic gangway Approx. 38.5 m ±7.5 m, Adjustable pedestal with 3 spool pieces(Optional)

ACCOMMODATION

POB	: 600 persons
Mess room	: 300 persons
Cabins	: 32 single (with 4 deluxe suites) and 214 double and 35 quad cabins