

# OOS GRETHA

## SEMI SUBMERSIBLE ACCOMMODATION/CRANE VESSEL



The SSCV OOS Gretha is a large, state-of-the-art, multi-functional, dynamically positioned construction semi-submersible crane vessel and accommodation unit. It has a sizeable hotel capacity up to the highest standards.

The vessels have a vast open deck space, which are specially reinforced and will allow positioning of heavy constructions. All ecological gases with "0" ODP (Ozone Depilation Factor).



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GENERAL	
Class	: ABS
Notation	: +A1 Column-Stabilized Unit, Crane Service. Construction & Maintenance Service, UWILD Accommodation Service AMS ACCU DPS3 Circle M

PRINCIPAL DIMENSIONS	
<b>Overall</b>	
LOA	: 137.75 m
Beam	: 81.00m
Height(BL to main deck)	: 39.00 m
<b>Main Pontoon</b>	
Length	: 137.75m
Width	: 19.50m
Depth	: 12.00m
Corner Radius Deck and Botton(MLD)	: 2.25M
<b>Outrigger Pontoon</b>	
Length	: 113:00m
Width	: 13.5m
Depth	: 12.00m
Corner Radius Deck and Botton(MLD)	: 2.25m
<b>Column-Main Pontoon (2 off)</b>	
Height	: 18.00 m
Width	: 19.50m
Length (EXTREME)	: 20.25m
Corner Radius	: 2.25m
<b>Column-Outrigger Pontoon (2 off)</b>	
Height	: 18.00m
Width	: 13.50m
Length (EXTREME)	: 16.50m
Corner Radius	: 2.25m
<b>Deck Box</b>	
Height	: 81.00m
Width	: 81.00m
Depth	: 9.00m
<b>Light Ship Weight</b>	
Light Ship Weight (Maximum)	: 33.600MT
<b>Displacement</b>	
Displacement (approx at 20m draft)	: 55.700MT
<b>Transit Speed</b>	
Transit Speed (at draft of 11.28m)	: 8 knots

DESIGN ENVIRONMENT	
Survival condition	: Hs=12m
Hotel Operation condition	: Hs=6.0m
Transit condition	: Hs=6.0m
Sea water temperature	: 0°C to 32°C
Outside air temperature	: -10°C to 45°C
Structure design temperature	: -10°C
Fatigue life	: 20 years

OPERATION AREA	
West African	
Gulf of Mexico	
UK North Sea	

VARIABLE DECK LOADS	
Hotel Variable	: 4.444MT @20m Operational Draft
Variable	: 7.070MT @26.4m Operational Draft
Survival Variable	: 4.429MT @17m Operational Draft
Transit Variable	: 3.570MT @11.5m Operational Draft

BALLAST SYSTEM	
Ballast pump	: 4 x 350m3/hr & 4 x 200 m3/hr
Air compressor	: 4 x 8390 Nm3/hr, Max Pressure 2,6 bar

FIRE FIGHTING & SAFETY	
Fire Fighting	: 2 x Centrifugal type, Pressure min 14 bar
Life Boats	: 12 x 104 persons fire proof life boats complete with davits
Rescue Boat	: 1x motorized Rescue Boat (9 man) with launching davit
Life Rafts	: 25 x 25 persons life rafts

HELIDECK	
1x Helideck suitable for Westland EH101 helicopter	

ACCOMMODATION	
Total beds on board the vessel is then crew/owner/class 100 + 32 + 2 = 134, client 484. Total 618 beds.	
Mess facilities installed and fitted for 329 persons.	

MAIN AND AUXILIARY MACHINERY	
Main Generator Set	: 8 x 3860 kW, 6600 V, 60Hz, 3ph
Emergency Generator	: 1x 1825 kW, 440 V, 60Hz, 3ph
Thruster	: 6 x 3,800 kW fully Azimuth Thruster
Fuel Oil Transfer Pump	: 4 x Screw pump, 75 m3/hr, 8.0 bar
Fuel Oil Purifiers	: 4 x Capacity 5,000 l/h
Start Air Compressor	: 4 x 50 m3/ hr@ 30 bar
Service Compressor	: 2 x screw type 1500 m3/hr @ 8 bar
Sewage Treatment Unit	: 2 x 310 persons
Fork Lift	: 1 x Linde E30S, 3 tons

MAIN CRANE	
Main Deck Crane	: 2 x 1,800 tons @ 27m, slewing Huisman
Tandem Lifting	: Lifting 3,600T
Deepwater Operation	: The crane is prepared for future upgrade with a deep water auxiliary hoist system, 600T @ 29m

DECK MACHINERY	
Deck Crane	: 2 x Cranes 40 tons @ 20m
Gangway	: 1 x Telescopic hydraulic gangway with base of approx. 36.5 (6m) length.

ANCHOR SYSTEM	
Four (4) 25T anchors x Flipper Delta 25T anchor, One (1) Flipper Delta 25T spare anchor.	
Four (4) mooring winches design (outfitted 2x set with delivery), electrically-powered, single drum mooring winches, Break holding force (1st layer) 4000 KN, pull (1st layer) 1800 KN at 10m/min, complete with 2,000 steel rope of 3" diameter.	

TOWING, MOORING & LASHING	
8 set x double bollards and Panama Chocks	
4 x SMIT Towing Brackets with SWL 2 x 250 MT each associated with Panama Chocks	
8 sets x 10 tons air winches	
Two (2x) x double drum Barge Mooring Constant tension winches with fairleads	