



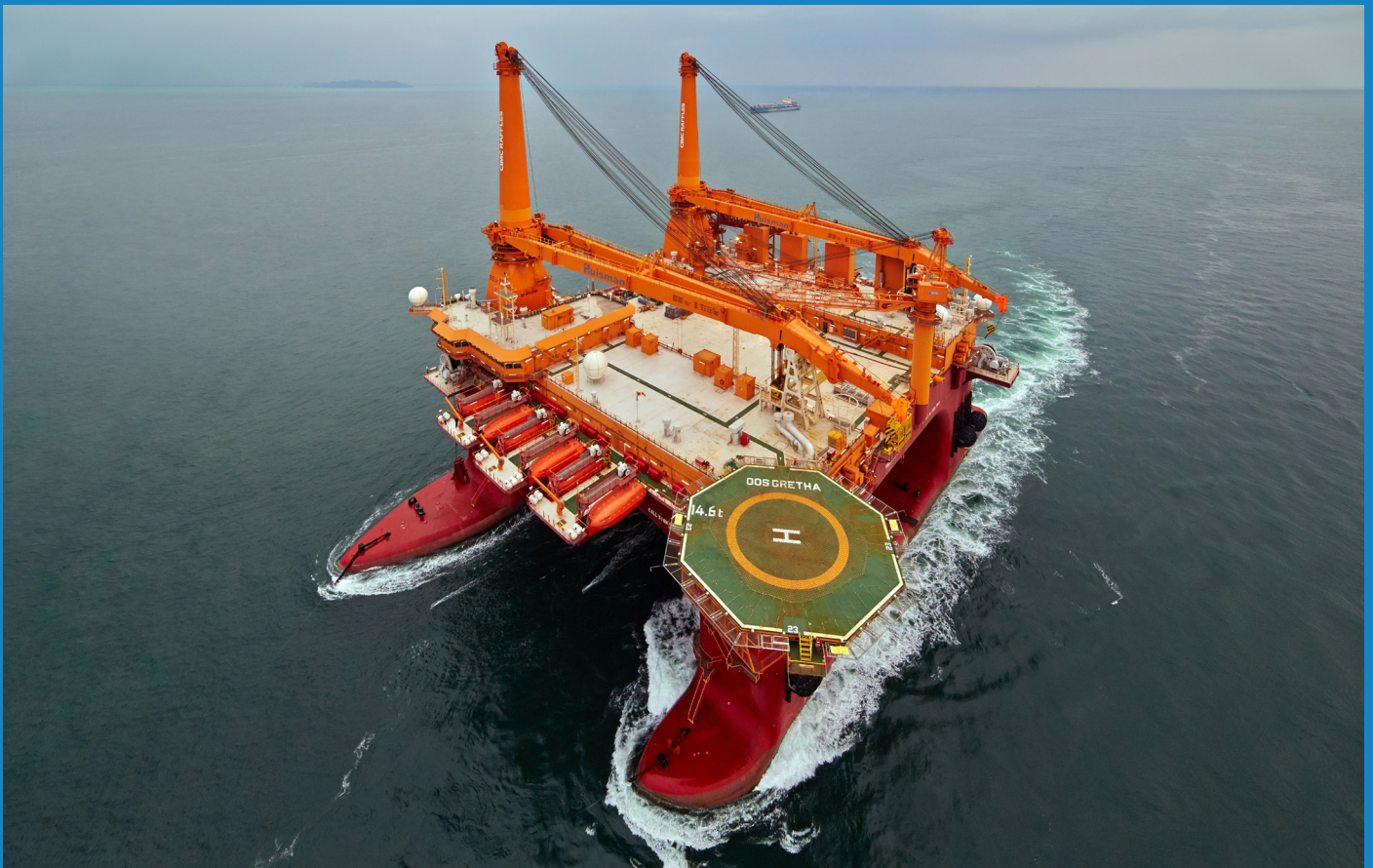
OOS INTERNATIONAL B.V.

SEMI SUBMERSIBLE ACCOMMODATION / CRANE VESSEL



revision 4.2

OOS GRETHA



OVERVIEW

Semi-Submersible Crane Vessel OOS Gretha is a multifunctional asset with the ability to offer various services such as: Accommodation, Heavy Lifting, Installation, Modification, Decommissioning, Renewables and Subsea Installation & Removal.

With proven high up-time and large crane capacity of 3.600 t in tandem, this unit offers many opportunities to the client. In combination with offering the facilities of the Floatel, OOS can deliver turn-key solutions to meet your business needs.



SEMI-SUBMERSIBLE SPECIFICATIONS

- Hotel capacity is 618 persons on board
- DP-3 with the highest DP standards
- Construction/crane vessel 2 x 1.800 t
- Platform removal and installation
- Excellent motion characteristics
- Low running costs of around 25% lower fuel consumption in DP and transit
- High transit speed of 11 kn



SSCV SPECIFICATION

OOS GRETHA

GENERAL

Classification	: ABS
Notation	: ✕A1 Column-Stabilized Unit, Crane Service. Construction & Maintenance Service, UWILD Accommodation Service AMS ACCU DPS3 Circle M
IMO	: 9650963

PRINCIPAL DIMENSIONS

Overall	
LOA	: 137,75 m
Beam	: 81,00 m
Height (BL to main deck)	: 39,00 m
Deck Box	
Height	: 81,00 m
Width	: 81,00 m
Depth	: 9,00 m
Draft	
Max Operational Draft	: 26,40 m on the marks / Including thrusters 31,21 m
Operational Draft	: 20,00 m on the marks / Including thrusters 24,81 m
Survival Draft	: 17,00 m on the marks / Including thrusters 21,81 m
Transit Draft	: 11,28 m on the marks / Including thrusters 16,09 m
Air Draft	: 83,28 m @ Operational / 92 m @ Transit / 86,20 m @ Survival
Light Ship Weight	
Light Ship Weight (Maximum)	: 33.600 mt
Displacement	
Displacement (approx at 20 m draft)	: 55.700 mt
Transit Speed	
Transit Speed (at draft of 11,28 m)	: 8 kn

DESIGN ENVIRONMENT

Survival condition	: Hs=12 m
Hotel Operation condition	: Hs=6,0 m
Transit condition	: Hs=6,0 m
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	: 4.444 mt @ 20 m Operational Draft
Crane Variable	: 7.070 mt @ 26,4 m Operational Draft
Survival Variable	: 4.429 mt @ 17 m Operational Draft
Transit Variable	: 3.570 mt @ 11,5 m Operational Draft

BALLAST SYSTEM

Ballast pump	: 4 x 350 m ³ /hr & 4 x 200 m ³ /hr
Air compressor	: 4 x 8.390 Nm ³ /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

Helideck notation	: D-value 22,8 / 't' value 14,6 (Sikorsky S-92 and S-61N or similar)
Helideck structure	: Steel

ACCOMMODATION

POB	: 618
Single Cabins	: 28
Double Cabins	: 295
Gym	: 2
Client Offices	: 5

MAIN AND AUXILIARY MACHINERY

Main Generator Set	: 8 x 3.860 kW, 6600 V, 60 Hz, 3ph
Emergency Generator	: 1x 1.825 kW, 440 V, 60 Hz, 3ph
Thruster	: 6 x 3.800 kW fully Azimuth Thruster
Fuel Oil Transfer Pump	: 4 x Screw pump, 75 m ³ /hr, 8.0 bar
Fuel Oil Purifiers	: 4 x Capacity 5.000 l/h
Start Air Compressor	: 4 x 50 m ³ /hr @ 30 bar
Service Compressor	: 2 x screw type 1.500 m ³ /hr @ 8 bar
Sewage Treatment Unit	: 2 x 310 persons
Fork Lift	: 1 x Linde E30S, 3 t

MAIN CRANE

Main Deck Crane	: 2 x 1.800 t @ 27 m, slewing Huisman
Tandem Lifting	: Lifting 3.600 t

DECK MACHINERY

Deck Crane	: 2 x Cranes 40 t @ 20 m
Gangway	: 1 x Telescopic hydraulic gangway with base of approx. 36,5 (6m) length, Marine Aluminium

ANCHOR SYSTEM

Four (4) 25 ton anchors x Flipper Delta 25T anchor, One (1) Flipper Delta 25 t spare anchor.
Four (4) mooring winches design, electrically-powered, single drum mooring winches, Break holding force (1st layer) 4000 kn, pull (1st layer) 1800 kn at 10 m/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 t air winches / Two (2x) x double drum Barge Mooring Constant tension winches with fairleads



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international



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