

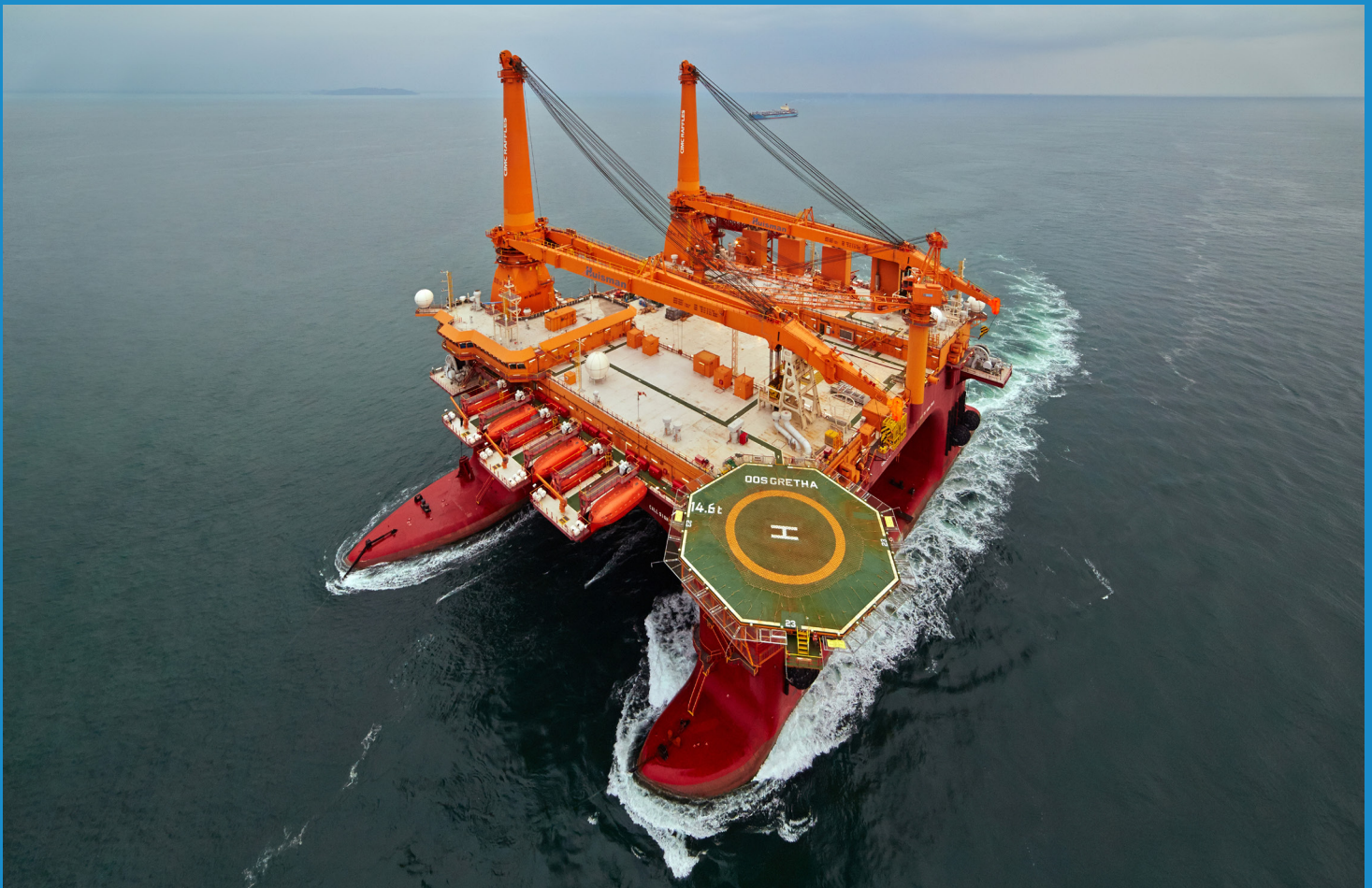


**HOLDING OOS INTERNATIONAL GROUP B.V**

**SEMI SUBMERSIBLE ACCOMODATION / CRANE VESSEL**



**OOS GRETHA**



## OVERVIEW

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).

Highly competitive advantages such as a low day rate, high uptime and excellently graded by client's periodical Contractor Performance Evaluation.

## SEMI-SUBMERSIBLE SPECIFICATIONS

- Hotel capacity is 618 persons on board
- DP-3 with the highest DP standards
- Construction/crane vessel 2x1800 tons
- 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 knots



# SSCV SPECIFICATION

## OOS GRETHA

### GENERAL

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

### PRINCIPAL DIMENSIONS

#### Overall

LOA: 137.75m  
Beam: 81.00m  
Height (BL to main deck): 39.00m

#### Main Pontoon

Length: 137.75m  
Width: 19.50m  
Depth: 12.00m  
Corner Radius Deck and Bottom (MLD): 2.25m

#### Outrigger Pontoon

Length: 113.00m  
Width: 13.50m  
Depth: 12.00m  
Corner Radius Deck and Bottom (MLD): 2.25m

#### Column - Main Pontoon (2 off)

Height: 18.00m  
Width: 19.50m  
Length (EXTREME): 20.25m  
Corner Radius: 2.25m

#### Column - Outrigger Pontoon (2 off)

Height: 18.00m  
Width: 13.50m  
Length (EXTREME): 16.50m  
Corner Radius: 2.25m

#### Deck Box

Height: 81.00m  
Width: 81.00m  
Depth: 9.00m

#### Draft

Max operation Draft: 26.40m  
Operation Draft: 20.00m  
Survival Draft: 17.00m  
Transit Draft: 11.28m

#### Light Ship Weight

Light Ship Weight (Maximum): 33.600MT

#### Displacement

Displacement (approx at 20m draft): 55.700MT

#### Transit Speed

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  
Crane 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 350m<sup>3</sup>/hr & 4 x 200 m<sup>3</sup>/hr  
Air compressor: 4 x 8390 Nm<sup>3</sup>/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 m<sup>3</sup>/hr, 8.0 bar  
Fuel Oil Purifiers: 4 x Capacity 5,000 l/h  
Start Air Compressor: 4 x 50 m<sup>3</sup>/ hr @ 30 bar  
Service Compressor: 2 x screw type 1500 m<sup>3</sup>/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



**.O.O.S.**  
international



**CONTACT HOLDING OOS INTERNATIONAL GROUP B.V.**

**The Netherlands**

**Head Office The Netherlands**

OOS-International BV.  
Oostkapelseweg 4  
4353 EH Serooskerke (w)  
P.O. Box 40  
4353 ZG Serooskerke (w)  
chartering@oosinternational.com  
Tel. Office +31 (0) 118 726 200  
KVK/Chamber of Commerce nr 20149791  
Tax Nr. NL8204.64.624.B.01  
The Netherlands

