

# CIMC GRETHA

DP3 SEMI SUBMERSIBLE CRANE ACCOMMODATION VESSEL



Self Propelled dynamically positioned semi submersible vessel with 2 x 1800T crane lifting capability. With 618 available beds and a tandem capability of 3600MT, CIMC Gretha is suitable for your O&G or Offshore Renewable projects that includes offshore heavy construction, decommissioning, installation, modification and removal activities.

## SPECIFICATIONS

- Hotel capacity of 618 persons on board
- DP3
- Construction/crane vessel 2x1,800 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

# CIMC GRETHA

## DP3 SEMI SUBMERSIBLE CRANE ACCOMMODATION VESSEL

### General

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

### Principal Dimension

<b>Overall</b>	
LOA	137.75m
Beam	81.00m
Height (BL to main deck)	39.00m
Deck Space	2000m <sup>2</sup>
Deck Strength	10T/m <sup>2</sup>
<b>Draft</b>	
Max Operational Draft	26.4m (including thrusters 31.2m)
Operational Draft	20.0m (including thrusters 24.8m)
Survival Draft	17.0m (Including thrusters 21.8m)
Transit Draft	11.3m (including thrusters 16.1m)
<b>Air Draft</b>	
Operational Draft	82.28m
Survival Draft	86.28m
Transit Draft	92m
Light Ship Weight	33,600MT
Displacement at 20m draft	55,700MT
Transit Speed at Transit draft	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

### 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

### Helideck

Designed for helicopter operations of Sikorsky S-92 and S-61N or similar	
Helideck D-value	22.8m
Maximum Take Off Mass (MTOM)	14.6T

### 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

### Accommodation

618 POB	1-Man Cabin : 28 2-Man Cabin : 295
Mess room	320 pax
Client Offices	5 pax
Conference Room	2 pax
Cinema	1 cinema with 90 seats
Gym	Fully furnished gym

### Positioning System and Machinery

DP System	Converteam DPS31 – Triplex DP + IJS
Thrusters	6 x 3,800kW Azimuthal Thruster
Main Generators	8 x 4000kW MAN 8L32/40 Total 32,000 kW
Emergency Generator	1x 1,825kW/480V/2744 Amp./3 Phase
F.W Generator	3 x 80T Reverse osmosis generator
Sewage Plant	2 x 310 persons
Fuel Oil Pump	4 x Screw pump, 75 m <sup>3</sup> /hr, 8.0 bar

### Main Crane

Main Deck Crane	2 x 1,800 tons @27m, slewing Huisman Offshore Mast Cranes (OMC)
Tandem Lifting	Lifting 3,600T

### Deck Machinery

Deck Crane	2 x Cranes 40 tons @ 20m
Gangway	1 x 36.5m (Fixed Portion) + 6m Marine Aluminium telescopic gangway

### 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

### Anchor System

Four (4) 25T anchors x Flipper Delta 25T anchor, One (1) Flipper Delta 25T 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 10m/min, complete with 2,000 steel rope of 3" diameter.

### 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