

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

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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 Dimension

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|--------------------------------|-----------------------------------|
| Overall | |
| LOA | 137.75m |
| Beam | 81.00m |
| Height (BL to main deck) | 39.00m |
| Deck Space | 2000m ² |
| Deck Strength | 10T/m ² |
| Draft | |
| 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) |
| Air Draft | |
| 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

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|------------------------------|---------------|
| 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

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|-------------------|----------------------------------|
| 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

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|--------------------------------------------------------------------------|-------|
| 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

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|----------------|--------------------------------------------------------|
| Ballast pump | 4 x 350m ³ /hr & 4 x 200 m ³ /hr |
| Air compressor | 4 x 8390 Nm ³ /hr, Max Pressure 2,6 bar |

Accommodation

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|-----------------|---------------------------------------|
| 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

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|---------------------|------------------------------------------------|
| 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 ³ /hr, 8.0 bar |

Main Crane

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

Deck Machinery

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|------------|--------------------------------------------------------------------|
| 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

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|---------------|-------------------------------------------------------------|
| 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 |