



GRAND CANYON III

CONSTRUCTION | ROV | SURVEY VESSEL



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CONSTRUCTION | ROV | SUPPORT VESSEL



The **Grand Canyon III** is specially designed for operation under severe weather conditions with high maneuverability and station keeping capabilities.

The **Grand Canyon III** is a versatile, and technically advanced, dynamically positioned (DP Class 3) Multi-Role construction support Vessel (MSV). She is equipped with a 250 ton Active Heave compensated crane with 3,000m of installed crane wire. The vessel offers 1,650m of available open deck space to deploy a wide variety of subsea construction equipment, including subsea product reels, carousel drive assemblies, winches and other hardware. The large steel deck allows clients the flexibility to deploy large equipment, such as Canyon Trenchers, subsea templates, subsea production trees, control modules and other Canyon Offshore or client required tools and equipment in a safe and efficient arrangement.

The **Grand Canyon III** is equipped with high quality, comfort class accommodations for 104 persons with multiple dedicated client offices,

conference rooms and excellent crew dining and recreational facilities including gym, saunas, lounges and cinema.

The **Grand Canyon III** is designed to operate in severe weather conditions with high maneuverability and station keeping capabilities, which enable it to work efficiently and reliably with consistent results reducing downtime during critical operation.

The **Grand Canyon III** is provided with two (2) ea. UHD, 200 hp work class ROV systems installed in Port and Starboard launch hangars, with a dedicated controls area. The **Grand Canyon III** includes dedicated survey systems, including Multiple HiPap transponders, dedicated survey areas on the bridge with multiple video links and remote monitoring stations throughout the client offices and vessel work areas.



EXPERIENCE

Canyon Offshore currently operates and maintains 54 work class ROVs, 5 trenching systems, 2 ROVDrill systems and 3 DP III support vessels via strategic offices in key areas of the world.



INNOVATION

Canyon Offshore works closely with our clients and vendors to seek and resolve complex technical developments to engineer practical solutions and implement in the most efficient, safe and economical ways possible.



VALUE

Canyon Offshore is one of the most innovative and reliable specialty marine contractors in the world. Focusing on providing leading edge underwater, unmanned services in extreme environments, Canyon strives to deliver the highest value to its customers.

MAIN CHARACTERISTICS

| | |
|--------------------|--|
| Vessel Name | Grand Canyon III |
| Owner | Volstad Maritime |
| Builder | Kleven |
| Design | ST-259 CD |
| IMO Number | 9695963 |
| Year Built | 2016 |
| | 1A1 ICE-IC SPS COMF-V(3) C(3) HELDK-SH CRANE E0 |
| DNV Class Notation | DYNPOS-AUTRO NAUT-OSV(A) CLEAN DESIGN DK(+) BIS TMON |
| Compliant With | IMO Res. MSC.266(84) Code of Safety for special purpose ships 2008 |
| Flag | Norway [NO] |

DIMENSIONS

| | |
|----------------------------|--------------------------|
| Length Overall | 127.75 m |
| Length Between Particulars | 114.60 m |
| Breadth Moulded | 25.00 m |
| Depth to Main Deck | 10.80 m |
| Maximum Draft | 7.50 m |
| DWT at SWL / 7.5 m | Approximately 7,430.8 Te |
| Deck Area Aft of Hanger | 1,650 m ² |
| Gross Tonnage | 12,652 t |
| Net Tonnage | 3,796 t |

ACCOMMODATIONS

| | |
|----------------|--|
| Accommodations | 104 |
| Cabins | Single and double cabins |
| Gangway | 2 x hydraulic operated gangways leading to reception area |
| Lounges | 4 |
| Cinema | 48 seats |
| Hospital | 1 |
| Gym | 1 |
| Saunas | 1 x female sauna 1 x male sauna |

Vessel also features a messroom with self-serving area, meeting rooms & offices on various decks, Helideck reception area and an outdoor pool

DECK EQUIPMENT

| |
|--|
| 250 t AHC offshore crane with 3,000 m wire |
| 1 x auxiliary crane, starboard, 15 Te / 20 m |
| 1 x auxiliary crane for provision handling 2 Te / 18 m |
| 4 x tuggewinches, each 10 Te |
| 2 x capstans, each 10 Te |
| Both cranes (250t/15t) approved for personnel lifting |
| 250 t - Max working radius 35.0 m (main hoist) |
| 15 t - Max working radius 20.0 m |
| Design dynamic factor 1.3 |
| Heel/Trim: 5°/2° |

WORKING DECK

| | |
|---|---|
| Open Moon Pool | 7.2 m x 7.2 m |
| Deck Loads | 10 t/m ² (aft of frame 120) 5t/m ² (frame 120-131) |
| Fitted with easy removable bulwark | |
| Outfitted for carousel or real drive lay system | |

DYNAMIC POSITIONING SYSTEM

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| Dual redundant dynamic positioning system (AUTRO / DP3) |
| 2 x Acoustic positioning units (HIPAP 500) |
| 3 x DGPS |
| 1 x Radius 1000 (w/2 interrogators) |
| 2 x MRU 5 & 1 MRU 2 |
| 2 x A-Frame taut wires |
| System: K-Pos DP-31 and K-Pos DPII (4 operators stations) |
| 1 x LTW (tautwire) fitted on starboard side in addition to |
| 1 x LTW stored onboard |

NAVIGATION & RADIO COMMUNICATIONS

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| Equipment according to GMDSS regulations, Area A3 |
| L3 Nacos P |
| Auto pilot/ track pilot |
| 2 x Navigational DGPS |
| Fully ECDIS compliant |
| 2 x X-Band radars and 1 x S-Band radar |
| Radio, sea areas in which ship is certified to operate (Reg 1V/2) A1, A2, A3, A4 |

TANK CAPACITY

| | |
|--------------------------|------------------------------------|
| Fuel Oil | Approximately 2,000 m ³ |
| Potable Water | Approximately 464 m ³ |
| Technical / Cargo Water | Approximately 750 m ³ |
| Technical / System Water | Approximately 200 m ³ |
| Water Ballast | Approximately 4,000 m ³ |

TRENCHING & ROVS

| | |
|---|---|
| 2 x 200 hp UHD WROVs | |
| Hangar for port and starboard launching of WROVs | |
| ROV workshop and maintenance area | |
| Offices and meeting rooms for ROV operations | |
| Online / offline rooms | |
| Overhead crane in hangar 50 Te SWL | |
| LARS are active heave compensation electric McCartney systems | |
| Jet Trencher | T1500 High Power Jet Trencher; Designed to trench in non-cohesive and cohesive soils up to 3m below the seabed |

TUNNEL THRUSTERS / AZIMUTHS

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| 2 electric driven tunnel thrusters aft, each 2,000 kW |
| 4 electric driven tunnel thrusters in bow, each 2,000 kW |

POWER GENERATING PLANT

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| 6 x 3,000 kW diesel generator sets, 720 rpm |
| 1 x 550 kW emergency generator |

FUEL CONSUMPTION

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|---|-------------------------|
| Dock | 6 m ³ / day |
| Mobilization | 12 m ³ / day |
| Demobilization | 12 m ³ / day |
| Normal Transit @ 12kts | 35 m ³ / day |
| Fast Transit @ 15kts | 55 m ³ / day |
| DP Low Loading Light Environmental Conditions | 12 m ³ / day |
| DP Med Loading Increased Environmental Conditions | 16 m ³ / day |
| DP High Loading High Environmental Conditions but within Operating Limits | 25 m ³ / day |

ANTI-ROLLING TANKS

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| 1 x Anti-rolling heeling system |
| Passive anti-roll tank of 259 m ³ placed on the 6th deck |

ANTI-HEELING

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| Tank capacity 2 x 368 m ³ fitted with two (2) transfer pumps, each with capacity of 1,700 m ³ /h |
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MAIN PROPULSION EQUIPMENT

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| 2 x CCP nozzle propellers, each powered by 2 x 2500 kW electric motors for extra redundancy. Max output on main propulsion 10,000 kW. |
| Each propeller fitted with Becker rudder. |

HELIDECK

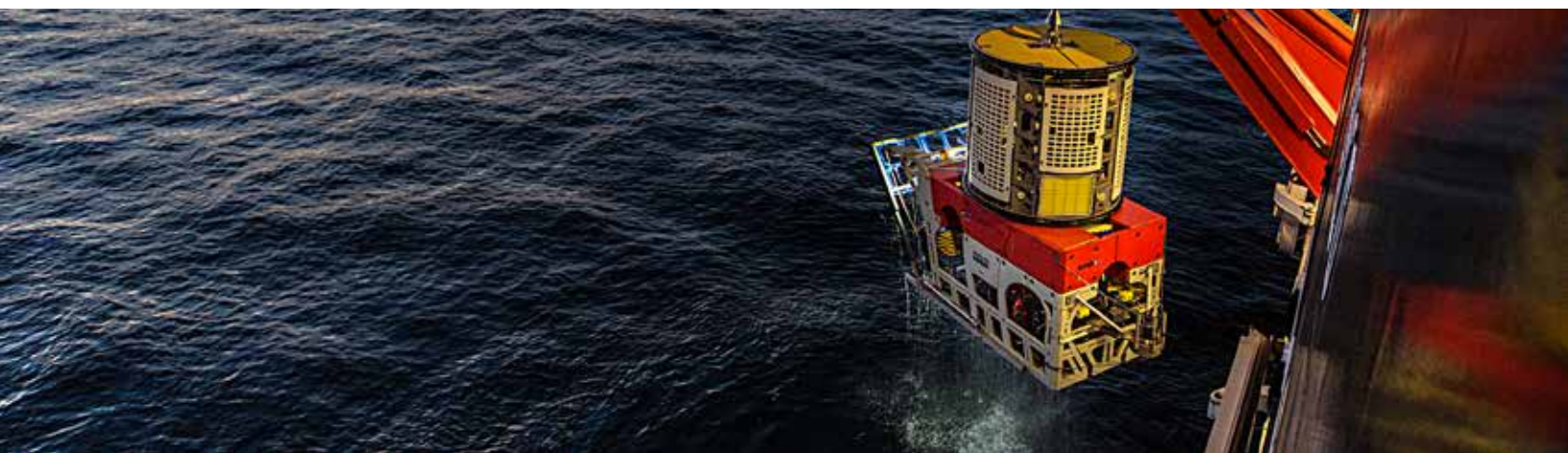
| | |
|---|------------------|
| Rating | Sikorsky, S-92 |
| Rules | CAA CAP437 / DnV |
| Size Diameter | 26.1 m |
| Value "D" and "T" | 20.88/12.8 |
| Kongsberg HMS 100 Helideck monitoring system | |
| Hydraulic operated rails for quick mobilization | |

SAFETY EQUIPMENT


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| Fast Rescue Craft (FRC) |
| 2 x 68 men lifeboats |
| 2 x 25 men davit operated liferafts |
| According to SOLAS for the specified class and number of crew |
| Stability according to IMO Res. MSC.266 (84) code of safety for special purpose ships 2008 |


SPEED

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| Maximum speed at 6.0 m draft approximately 15.0 kn |
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