The size and versatility of the Southern Ocean make it ideally suited to meet the increased capacity requirements of subsea oil and gas operations.

The vessels' large 250T active heave compensated crane offers the latest technology for offshore lifts and helps to ensure that equipment is deployed in a safe and efficient manner. The 2,400m² back deck can accommodate up to six flowline reels in a single firing line or a combination of specialised installations systems and project equipment, including saturation & air diving systems.

The vessel is also fitted with a 110T active heave compensated crane for added construction efficiency. Additionally, the size and DP station keeping ability of the vessel helps minimise weather downtime.

The Clean Comfort classification of the Southern Ocean helps to ensure that conditions onboard are second to none, providing a quiet, modern and spacious environment from which to undertake offshore operations.

The vessel is permanently equipped with two 3,000m depth rated FCV Work Class ROV's, installed on the port and starboard sides of the vessel. The ROV's have independent control systems, HPU and LARS. Each vehicle is fitted with Schilling manipulators, and both have ample hydraulic and electrical outputs for any specialist tooling that may be required.

Through our fleet of high specification vessels, Fugro-TSM are able to offer a broad range of services across the life cycle of a subsea field.
SOUTHERN OCEAN

Technical Specifications

General

Name: Southern Ocean
Classification: DNV + 1A1, COMF-V(3) CARGO SHIP, HELD, EO, Dynpos AUTR, CLEAN, DK (+), NAUT (OSV)
Built: 2010
Design: Sawcon SAW 2011
Port of Registry / Flag: Valletta, Malta
IMO: 9433171

Dimensions

Length Overall: 136.8m
Length BP: 120.4m
Breadth: 27m
Depth: 9.7m
Maximum Loaded Draft: 6.85m
Gross Tonnage: 11014t
Moonpool: 7.2m x 7.2m

Accommodation

Total Berths: 120, Fully Air-conditioned
1 Person Cabin: 50
2 Person Cabin: 35

Machinery

Electric Driven - Power: 4 x 3360kW
Electric Driven - Type: 4 x Wartsila
Propellers: 2 x RR Azimuthing Pulling Propellers 3500kW each
System Voltage: 690V / 440V / 220V
Bow Thrusters: 1 x RR Swing Up Thruster 1500kW
Bow Thrusters: 2 x RR Tunnel Thrusters 1500kW each
Generators: 4 x 3360kW

Capacities

Deck Area: 2460m²
 Stern Deck Strength: 1076t/m²
 Potable/Fresh Water: 90m³
 Fuel Oil: 1497m³
 Lubricating Oil: 209m³

Deck Equipment

Deck Cranes: 2 x 5Te @ 12m

Navigation and Communication

Type: A C-Band Internet and Communications System is installed on the Vessel

Primary Offshore Crane

Type: MacGregor AHC Offshore Knuckle Jib Crane
Maximum Lift: SWL 250t
Whip Line: SWL 20t
Personnel Lift Capacity: Available

Secondary Offshore Crane

Type: National Oilwell Varco (NOV) AHC Offshore Knuckle
Maximum Lift (Single Fall): SWL 90t
Maximum Lift (Double Block): SWL 110t
Whip Line: SWL 10t
Personnel Lift Capacity: Available

Dynamic Positioning

DP System: Kongsberg Maritime K-Pos 21
References: 2 x DGPS, 1 x Tautwire, 2 x HiPap 500, 1 x Fanbeam

Speed and Fuel Consumption

Maximum Speed/Consumption: 14.85 knots @ 34Te/Day*
Economical Speed/Consumption: 12.5 knots @ 23Te/Day*
DP Consumption: 15Te/Day*
*figures are approximate and may change depending on vessel loading, draft and environmental conditions

ROV’s

Type: 2 x FCV3000 Work Class ROV’s
Power: 150 hp
Depth: Rating 3000m
Payload: 3000kg
Manipulators: Schilling T4 – 7 function, Shilling Rigmaster 5 function
Quantity: 2 systems installed onboard, 1 either side of vessel

Helicopter Deck

Diameter: 26.1m
Suitable For: Sikorsky S92 or equivalent (12.8t)

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