

General Description

112m DP-3 Subsea Operation Vessel “Southern Star” was built by Fujian Mawei Shipbuilding in Fuzhou, China, at their Culu Island Shipyard.

The SOV “SOUTHERN STAR” has three independent engine rooms and a unique 3-split redundancy concept for flexibility of operations and flexible operation of the power plant.

“SOUTHERN STAR” has a 150 tonne SWL, 3000msw AHC knuckleboom subsea crane.

“SOUTHERN STAR” has 22,20m diameter helideck for fast transfer of crew and operating staff. The vessel can accommodate 120 personnel.



Bintang Subsea is a member of the Shelf Subsea group of companies. Bintang Subsea and Shelf Subsea are IMCA members. Whatever the scope of work, Southern Star can be relied upon to complete the project and meet your requirements, with our Commitment without Compromise.

All vessel details are presented herein in good faith and are believed to be correct at time of publication.

Detailed Specification

Classification	: ABS Class (E) Offshore Support Vessel (DSV SAT, CRC, SPS, ROV Capable) : ENVIRO, ACC, DPS-3, GP, BWI, UWILD
Year/Built	: 2017
Flag	: Marshall Islands
IMO/Call Sign	: 9754484/V7KW3
Deadweight	: 4,500 T (Approx.)
Deck Space / Deck Strength	: 1,000 m ² / 10 T/m ²
Hull Dimension	: LOA 112m, BP 96,60m, Beam Mid 24m, Depth Mid 9m
Draft Designed	: 6,5m
Service Speed	: 12 knots (Approx.)
Main Diesel Generators	: 4 x 2,500 kW, 1 x 1,100 kW
Main Propulsion	: 2 x 2,500 kW Voith Schneider
Bow Thrusters	: 1 x 1,000 kW Retractable Azimuth, 2 x 1,200 kW Super Silent Tunnel CPP
Emergency Generators	: 2 x 500 kW
Ballast Water	: 3,500 m ³
Fuel Oil	: 1,800 m ³
Potable Water	: 900 m ³
DP	: Kongsberg K-Pos DP-22 + DP-12 BU
Reference Systems	: 2 x DGPS, 2 x HIPAPs, 2 x Light weight taut wire, 1 x Dual RADIUS
Sensors	: 3 x Gyro compass 3 x MRU3 x Wind Sensor
Main Offshore Crane	: Macgregor Electro Hydraulic Knuckle Boom main Line 150 T @ 11.5 m, Hook travel dist. 3000 m, Whipline 25 T @ 35 m, Hook travel dist. 500 m, 5 T man riding function.
Auxiliary Deck Working Cranes	: SWL 2 x 10 T @ 13 m, Subsea working capability Hook travel dist. 500 m
Fwd Cargo / Stores Crane	: SWL 10 T @ 8 m Max. lifting height 30 m
ROV Support	: Space and facilities are available to support Clients' choice of ROV and ROV LARS, Dedicated ROV Hangar (doors Port & Stbd), Control room, 4 ROV Tech space workshop, Redundant power
Helideck	: Suitable for Sikorsky S92 / S61N, D value 22.20 m
Accommodation	: 41 x Twin Cabins, 26 x Single Cabins, 12 x Suites w/ day room & bed room + Hospital (2 beds, 1 treatment room)
Other Facilities	: 5x Office, 1x Conference Room, 1x Gymnasium, 1x Smoking Room 2x Recreation Room, 2x Laundry Room
Stabilisation	: Roll reduction stabilization tanks, Automatic Anti Heeling System, Voith Thruster roll compensation mode
Moonpool	: 11 x 7.2m x 7.0m with moonpool aeration and removable plug
Air diving system	: 12 x Air Dive Stations with 2 x DDCs, Dedicated LARS and dive control
Inbuilt saturation diving system	
Design / Class	: ABS Class / IMCA compliant
Capacity	: 15 man
Depth Rating	: 300 m
Bell	: 1 x 3 man, insulated & positively buoyant
Bell LARS	: PH Hydraulics
Bell Moonpool	: 3.6 m x 3.6 m
Chambers	: 3 x 6 man DDCs interconnecting via 3 x TUP & 1 x Wet Pot
Gas Storage	: 19,712 m ³ (2.2m ³ per tube, 200 bar, 44 tubes)
Potable Gas Quad Storage	: 10 x 16 Cylinder gas quads
Diver Gas Reclaim System	: Divex Electric Gasmiser Type
Chamber Gas Reclaim System	: Divex Gaspure Type
Nitrogen Removing system	: Divex Helipure Type
SPHL	: 2 x 15 man SPHL

SOUTHERN STAR

“SOUTHERN STAR”

150T SWL AP2C1 Subsea Crane

- 3,000 Metre working depth
- Active Heave Compensation
- 25T SWL Whipline, Manriding to 5T SWL

Voith Schneider Propulsion x 2

- Active Roll Compensation

Air Diving System

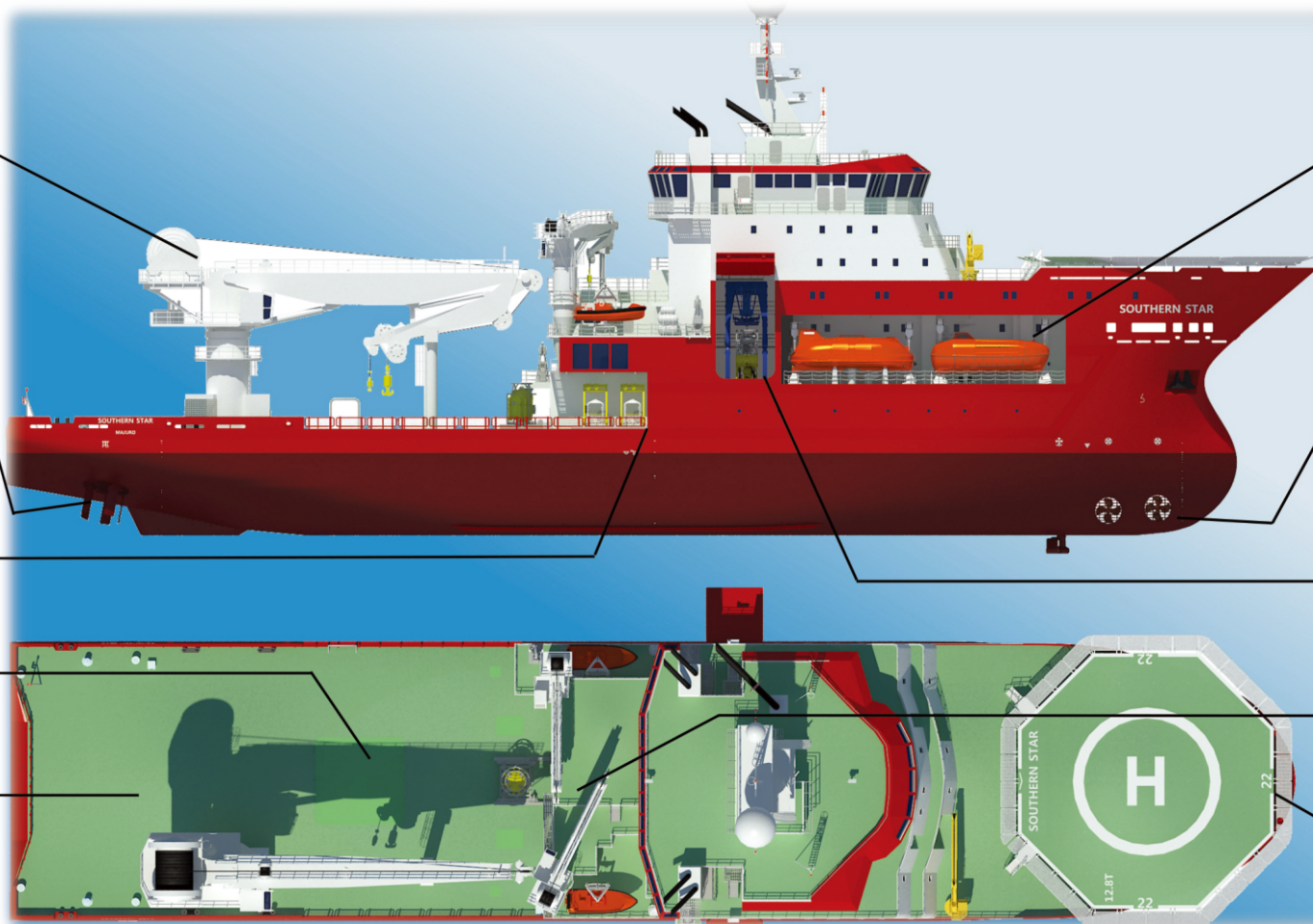
- 50 Metre, 2 x Stage
- 2 x Air DDC

Working Moonpool

- 7.2m x 7.0m
- Load Bearing Top Door

1,000 m² Working Deck

- 50 Metre, 2 x Stage
- 2 x Air DDC



120 Man Lifeboats each side

- Australian Standard
- SOLAS ++ Standard

2 x Tunnel Thrusters

1 x Retractable Azimuth Thrusters

ROV Capability

- ROV Hangar
- ROV Control Room
- ROV Workshop / Store

Saturation Diving System

- 300 Metre, Single Bell
- 15 Man (3 x 6 Man DDCs)
- SPHL (Port & Starboard)

Helideck

- D22.2 Metre
- Sikorsky S91 / S61N
- Deck Integrated FiFi System