

# Southern Star

## General Description

The Southern Star is an advanced Dive Support Vessel and builds on 10 yrs experience of bespoke vessel construction for the Asia Pacific Region. Unique features include Voith Schneider propulsion systems for superior maneuverability, station keeping and fuel economy. She is the first vessel in the region to have twin SPHLs and DP III capability. With a broad 1000m back deck she is perfect for light subsea construction work and has excellent stability in tough environmental conditions.



Shelf Subsea Group of companies are active members of various associations including IMCA.

All details are presented herein in good faith and are believed to be correct at time of publication. System specifications are subject to change without notice.

## Detailed Specification

Class Notation:	ABS A1 (E) Offshore Support Vessel, (DSV SAT, ROV, SPS ACC ENVIRO, GP DPS-3 BWT UWILD
IMO No. / Call Sign:	9754484/V7KW3
Special Purpose Ship:	SPS Code Compliant
Built Date / Location:	2017
Registered Port / Flag:	Marshall Islands
DP Class	IMO DP Equipment Class 3 (DPS-3)
Dynamic Positioning:	Kongsberg K-Pos DP-22+ DP-12 BU
DP References:	2 x DGPS 2 x HIPAPs 2 x Light weight taut wire
Sensors	3 x Gyro compass, 3xMRU, 3x Wind sensor
Draft	6.50m
Hull Dimensions:	LOA 112m, Length BP 96.60 Beam 24m,
Tonnage:	Deadweight 4500 t
Service Speed:	12 Knots
Fuel Oil Capacity:	2000m3
Potable Water Cap:	900m3
Ballast Water	4000 m3
Main Diesel	4 x 2500 Kw
Main Propulsion:	2 x 2,500 kW Voith Schneider
Bow Thruster:	1 x Bow retractable azimuth (1,999 kW) 2 x CPP Tunnel thrusters
Main Generators:	1 x 1m199 kW
Emergency Generators:	2
Helideck:	Suitable for Sikorsky S92/S61N
Clear Deck Space:	1000 sqm @ 10t/m2
Main Offshore Crane:	Macgregor Electrohydraulic knuckle boom type with active heave compensation (API2c) 150 T @ 11.5 m, Hook travel dist. 3000 m Whipline 25 T @ 35 m, 5t man riding function.
Auxiliary deck crane	Lifting capacity (SWL) 2 x 10 T @ 13 m Subsea working capability Hook travel dist. 500 m
Fwd Cargo/stores crane	Lifting capacity (SWL) 10 T @ 8 m Max. lifting height 30 m
Accommodation:	Twin Cabins: 42 Single Cabins: 25 Suites w/day room 11 Total: 120 men Hospital: 1 (2 beds, 1 treatment room)



**ROV 1: TRITON XLS: WORK CLASS ROV**

150HP  
 3000m Depth Rated  
 250-550kg Payload  
 8 Thrusters in quad format  
 Altimeter  
 Rigmaster TA-60 5 Function grabber  
 Schilling T4 7 Function Manipulator  
 4 Simrad Cameras  
 Fiberoptic multiplexing /Digiquartz depth gauge  
 Strobe and locating beacon  
 Length 3.2m x width 1.80m x Height 2.1m  
 Tether Management System 600m

**ROV 1: SCORPION 25: LIGHT WORK CLASS ROV**

75HP  
 1000m Depth Rated  
 3 vertical and 3 horizontal thrusters  
 Rigmaster Grabber  
 Schilling Orion 7 Function S/C Manipulator  
 1 Simrad OE near SIT camera  
 1 Simrad OE 1367 Colour zoom camera  
 1 Simrad OE 1359 CCD B/W Camera  
 1 Simrad OE 1393 B/W Camera  
 971 sonar  
 Tether Management System 183m

**SATURATION DIVING SYSTEM**

Design / Class: ABS Class / IMCA compliant  
 Capacity: 15 man  
 Depth Rating: 300m  
 Bell: 1x3man  
 Bell LARS: PH Hydraulic  
 Bell Moonpool: 3.6m x 3.6m  
 Chambers: 3 x 6-man DDCs, Interconnecting via 3x TUP & 1x Wet Pot.  
 Gas Storage: 19,712m<sup>3</sup> (2.2 m<sup>3</sup> per tube), 200 bar  
 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 SPHL (Port and Starboard)

**AIR DIVING SYSTEM**

2 x Air Dive Stations + DDC, Dedicated LARS and Dive Control

**STABILISATION**

Roll reduction stabilization tanks  
 Automatic Anti Heeling system  
 Voith Thruster roll compensation mode

**OTHER FACILITIES**

Office 4  
 Recreation: 1 x Gymnasium  
 Conference room 2  
 Prayer Room 1  
 Gymnasium 1  
 Smoking Room 1  
 Recreation Room 2  
 Laundry Room 1

**WORKING MOONPOOL**

1 x 7.2m x 7.0m