



COMMITMENT
WITHOUT
COMPROMISE

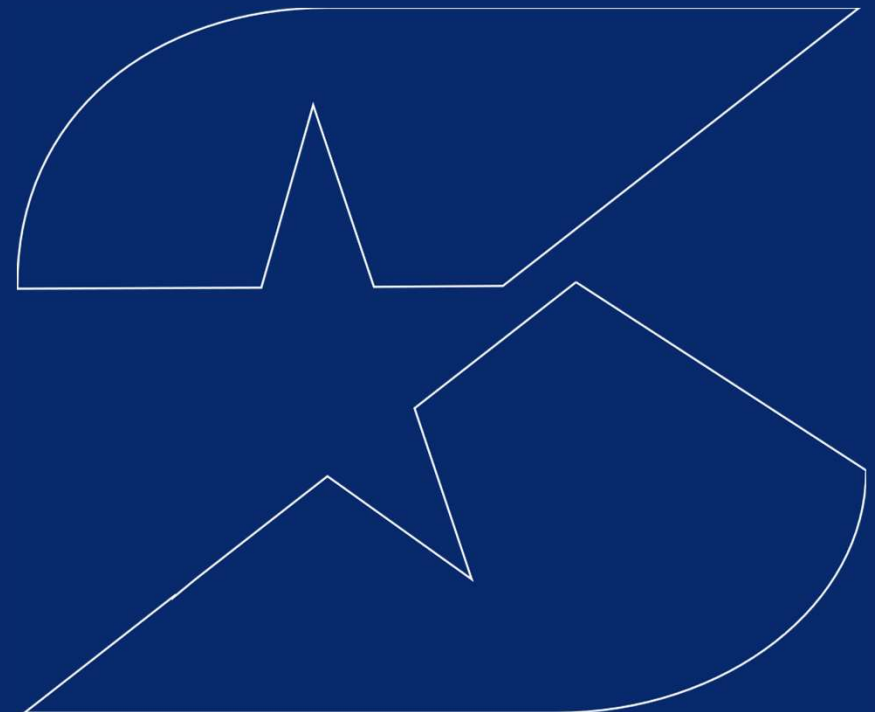


FIRE OPAL

ASSET CATEGORY



O Offshore Support Vessel
DP II DSV





DPDSV FIRE OPAL

General Description

The DSV Fire Opal is an integrated Saturation and Air Diving Support Vessel that has been supporting the Asia Pacific Region for more than 10 yrs. Unique features include a compact design with a generous 630m² of deck space, optional 4pt mooring system for extended static subsea operations, and Shelf HRF compatible SPHL. A regional workhorse, she is ideal for light subsea construction and diving work, and Shelf Subsea have utilized her on jobs as varied as umbilical laying, pipeline decommissioning, riser, spool, and clamp installation. She comes equipped with survey suite and ROV systems.

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 a time of publication. System specifications are subject to change without notice.

Detailed Specification

Class Notation	: ABS#XA1 (E) Offshore Support Vessel, (DSV SAT, SPS, GP#DPS-2
IMO No. / Call Sign	: 9554585/9V8279
Special Purpose Ship	: SPS Code Compliant
Built Date/Location	: 2010
Registered Port/Flag	: Singapore
DP Class	: IMO DP Equipment Class 2 (DPS-2)
Dynamic Position	: Kongsberg K-Pos DPS2 (IMO DPS class 2)
DP References	: 2 x DGPS 116 1 x HIPAP 500 2 x Taut Wire Mk 15/300
Sensors	: Radius 1000, 3xMRU, 3x Wind sensor
Draft	: 5.50m
Hull Dimensions	: LOA 82.2m, beam 20.48m, Depth moulded 7.5m
Tonnage	: Deadweight 2700 t @ 5.50m design draft
Service Speed	: 12 Knots full, 10knts economic
Fuel Oil Capacity	: 900m ³
Potable Water Cap	: 800m ³
Anti-Roll	: 2 x passive flume type

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DETAILED SPECIFICATION

Main Diesel	: 4 x 2500 Kw
Main Propulsion	: 2 x CAT 3516B DITA, 2575 BHP @1600rpm, Total 5150 BHP with 2 x CPP in nozzle c/w Becker high lift rudder
Bow Thruster	: 3 x Kawasaki CPP tunnel thrusters
Stern Thruster	: 1 x Kawasaki CPP tunnel thrusters
Main Generators	: 6 x 1200kW, 1 x 500kW harbour gen, 1 x 800kW Shaft Gen
Emergency Generators	: 1x 800kW (shipboard) + 1x 700kW (Dive)
Helideck	: Suitable for Sikorsky S92/S61N and Super Puma
Clear Deck Space	: 630 sqm @ 5t/m ² plus 105 sqm mezzanine deck
Main Offshore Crane	: SMST 100mt single fall knuckle boom type, man riding (both winches) with active heave compensation
Auxiliary Deck Crane	: Palfinger telescopic boom type 1.8mt @14m, 5.3t @ 6m Lifting
Mooring	: 4pt mooring with drum capacity 1500m 38mm dia SWR
Accommodation	: Single Twin Cabins: 10 Twin Cabins: 7 4 Berth: 27

SATURATION SPECIFICATION SYSTEM

Design/Class	: ABS Class / IMCA compliant
Capacity	: 12 man
Depth Rating	: 300m
Bell	: 1 x 3 man
Bell Moonpool	: PH Hydraulic
Chambers	: 3.6m x 3.6m
SPHL	: 1 x SPHL
LSP Package	: 1 x LSP 'flyaway pack'
HRF (optional)	: 1 x HRF with compatible mating spool

AIR SPECIFICATION SYSTEM

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

STABILISATION

Passive Roll Reduction stabilization tanks

WHEELHOUSE

Gyrocompass	:	3 x C. Plath Navigat x Mark 1 (Model 10)
AIS	:	1 x unit Furuno Model FA-150
VDR	:	1 x unit Furuno Model VR-3000
Radar	:	2 x units Furuno Models FAR-2117, FAR-2137S
Echo Sounder	:	1 x unit Furuno Model FE-700
Auto Pilot	:	1 x unit Anschuetz Model NautoPilot 2015
GMDSS	:	1 x unit Furuno Model RC-1800T (Area A-1-2-3)
BNWAS	:	(Nav watch Alarm) 1 x unit Furuno BR510
Satellite EPIRB	:	1 x unit McMurdo Model E5 SMARTFIND 406
Navtex Receiver	:	1 x unit Furuno Model NX-700 (Type B)
GPS	:	1 x unit Furuno Model GP-150
SART	:	2 x units McMurdo S4 9 GHz
Inmarsat	:	C Equipment 2 x units each of Furuno Models Felcom-15, Felcom-15 SSAS,FS-2570 (DSC/Watch Receiver), 3 units * FM-8800S VHF
V-Sat	:	Networked Ku-band System with back up Fleet Broadband

ROVs

- Configured with 1 x 150HP SMD MK II Quasar
- 3000m rated
- Workclass ROV, and 1 x Saab Seaeye Lynx
- 1500m rated
- Inspection class ROV

SURVEY

Shelf Subsea in-house Bintang survey teams can provide an integrated survey suite with specialist or general survey and positioning capability to client requirement.

OTHER FACILITIES

- Office: 7
- Recreation: 1
- Conference room: 1
- Prayer Room: 1
- Gymnasium: 1
- Smoking Room: 1
- Laundry Room: 1