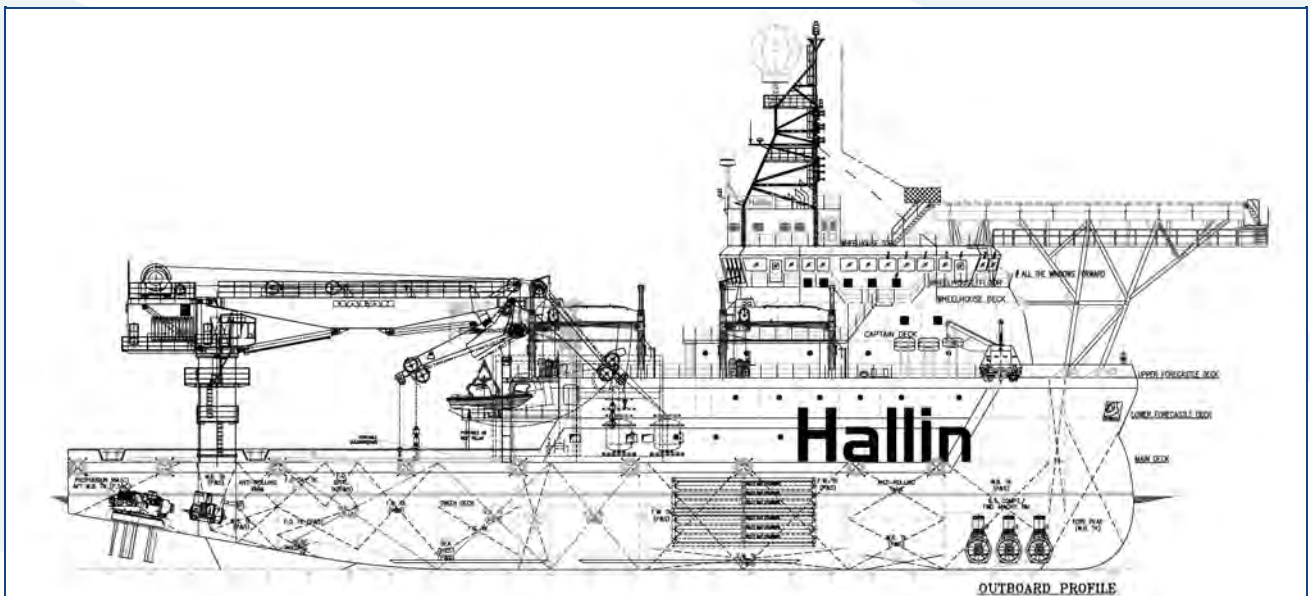


## DP2 Subsea Operation Vessel Windermere



## DP2 Subsea Operation Vessel

Hallin Marine are the owners of DP2 SOV Windermere. The Windermere is ideal for wellhead servicing, inspection and construction diving and ROV support. The Windermere will be equipped with Hallin Marine state-of-the-art saturation diving system and air diving system.

### PRINCIPAL CHARACTERISTICS

Length Overall	80.00 m
Length BP	77.00 m
Breadth Moulded	20.40 m
Depth Moulded	8.00 m
Draft Designed	5.50 m
Delivery	2nd Quarter 2010
GRT / NRT	Approx. 4750T / 1425T
Class	ABS
Notation	ABS + A1 + AMS Offshore Support Vessel +DPS-2
Flag	Majuro / Callsign V7SK7

### PERFORMANCE

Maximum Speed	12 knots
Economical Speed	10 knots
Type of fuel	Marine Gas Oil
Fuel Consumption	12 m <sup>3</sup> /24 hours @transit 7 – 10 m <sup>3</sup> /24 hrs, fair weather @DP

### DECK EQUIPMENT

Deck Crane (1)	With 1 x 50T SWL Active Heave Compensated Knuckleboom Subsea crane (1500 m water depth)
Deck Crane (2)	1 x 5T @ 7 m electro-hydraulic subsea deployment (300 m water depth) and cargo crane
Anchor Windlass	1 x electro-hydraulic
Gypsies	suitable for 48 mm (dia) chains rated pull 15 mt @ 9 m/min
Warping Drum	400 mm (dia) x 450 mm (L)
Anchors	2 x 2140 kg high holding power type
Chains	440 m (L) x 48 mm (dia) Grade U2 (each side)
Capstan	2 x 10 mt @ 14 m/min electro-hydraulic;
Helideck	Sikorsky S61 / Super Puma

### DP2 DYNAMIC POSITIONING SYSTEM

Converteam DPS-2 DP System
2 Independent DGPS
Sonardyne HPR Acoustic System / RS232 / RS422 Serial Link
Taut Wire System (500 m depth)
2 x Anemometers
2 x Motions Sensors
Independent Joystick System

### ACCOMMODATION

08 x 1 berth cabins
08 x 2 berth cabins
24 x 4 berth cabins
Hospital with 2 berths

### CARGO CAPACITIES

Deadweight	About 2500T at 5.5 m draft
Deck Cargo	1000T on aft deck
Deck Strength	5 tons/m <sup>2</sup> uniform loading
Clear Deck Area	700 m <sup>2</sup>
Fuel Oil / Potable Water	900 m <sup>3</sup>
Ballast / Drill Water	900 m <sup>3</sup>
Lub Oil	2 x 8 m <sup>3</sup>
Oily Water	10 m <sup>3</sup>
Sewerage Holding	20 m <sup>3</sup>
Freezer / Chiller	50 m <sup>3</sup> @ -20 °C / 50 m <sup>3</sup> @ +4 °C

### CARGO PUMPS

Fuel Oil/Fresh Water	1 x 100 m <sup>3</sup> /hr @ 75 m head
SWB / Drill Water	1 x 100 m <sup>3</sup> /hr @ 40 m head

### PROPULSION

Main Propulsion	2 x 2500 kw Electric Driven Voith Schneider propellers
Bow Thruster	3 x 600 kw Electric Driven Schottel Bow Thrusters
Main Generators	4 x 1825 kw @1800 rpm Caterpillar 3516B.
Auxiliary Generator	1 x 590 kw @ 1800 rpm Caterpillar 3412C.
Emergency Generator	1 x 650 kw @ 1800 rpm Caterpillar 3508B

### DIVING AND ROV SYSTEMS

15 Man Saturation Diving System with SPHL
3 Man Diving Bell (Through Moonpool)
Below Decks HeO <sub>2</sub> Storage (15000 m <sup>3</sup> x 205 bar) and on Deck O <sub>2</sub> Storage
Gas Reclaim Systems – DGRS and Chamber Gas
Air Diving System – Dual LARS, Air DDC, Below Decks Control Room
Installed Diver Tools package – Hydraulic, Pneumatic, Oxy-Arc Cutting
ROV – Work Class or other ROV optional. Installed as required

### DECK SERVICES

Seawater	Stb. aft—1000 lt/min or 1,666 lt/min Port midships—1,666 lt/min
Compressed air	Stb. Aft—100 m <sup>3</sup> /hr @ 7 bar or 1100 m <sup>3</sup> /hr @ 18 bar Port and Stb midships—100 m <sup>3</sup> /hr @ 7 bar or 1100 m <sup>3</sup> /hr @ 7 bar
Electrical	Stb aft—4 breakers (20A, 50A, 60A, 100A) Port midships—5 breakers (20A, 50A, 60A, 100A, 125A)

### OTHER FACILITIES

Mess Room with Seating for approx 70
Survey Room with access to Fwd & Aft Bridge
1 x Gymnasium, 1 x Conference room, 1 x Recreation room, 1 x Client office

### RADIO & NAVIGATION EQUIPMENT

GMDSS	Furuno RC-1800T (Area 3) comprising
SSB	1 x Furuno FS-2570 with built-in DSC watch receiver
Inmarsat C	1 x Furuno Felcom 15
Internet	Fleet 77 Satellite Internet
VHF Radio	2 x Furuno Fm 8500 with built-in DSC watch receiver
Navtex Receiver	1 x Furuno NX 500 (518 khz)
SART	2 x McMurdo S4 (9 GHz)
EPIRB	1 x McMurdo E3A
Portable VHF Radios	3 x McMurdo R2
Radar	1 x Furuno FR 2115 / 1 x Furuno FR 1510 MK3
Echo Sounder	1 x Furuno FE 700
DGPS	1 x Furuno GP 90
Gyrocompass	1 x C Plath Navigation Mk1, Mod 10
Autopilot	1 x Anschuetz Pilotstar D
Magnetic Compass	1 x Cassens & Plath Reflecta 1
Weather Fox	1 x Furuno FAX 207
Speed Log	1 x Furuno DS-80
LRIT	1 x Furuno FA

### MISCELLANEOUS

Search Lights	3 x 2,000 W TBC
Floodlights	4 x 1,000 W & 2 x 500W Aqua Signal
Lifeboat	2 x 75 men SOLAS Approved Type
Liferafts	10 x 25 men SOLAS Approved Type
Rescue Boat (MOB)	6.5m with 120kw Inboard Diesel Engine / Waterjet
Water Maker	2 x 30 m <sup>3</sup> /day reverse osmosis
Oily Water Separator	1 x 1 m <sup>3</sup> /hr
Sewage Treatment Plant	1 x 120 men/day

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