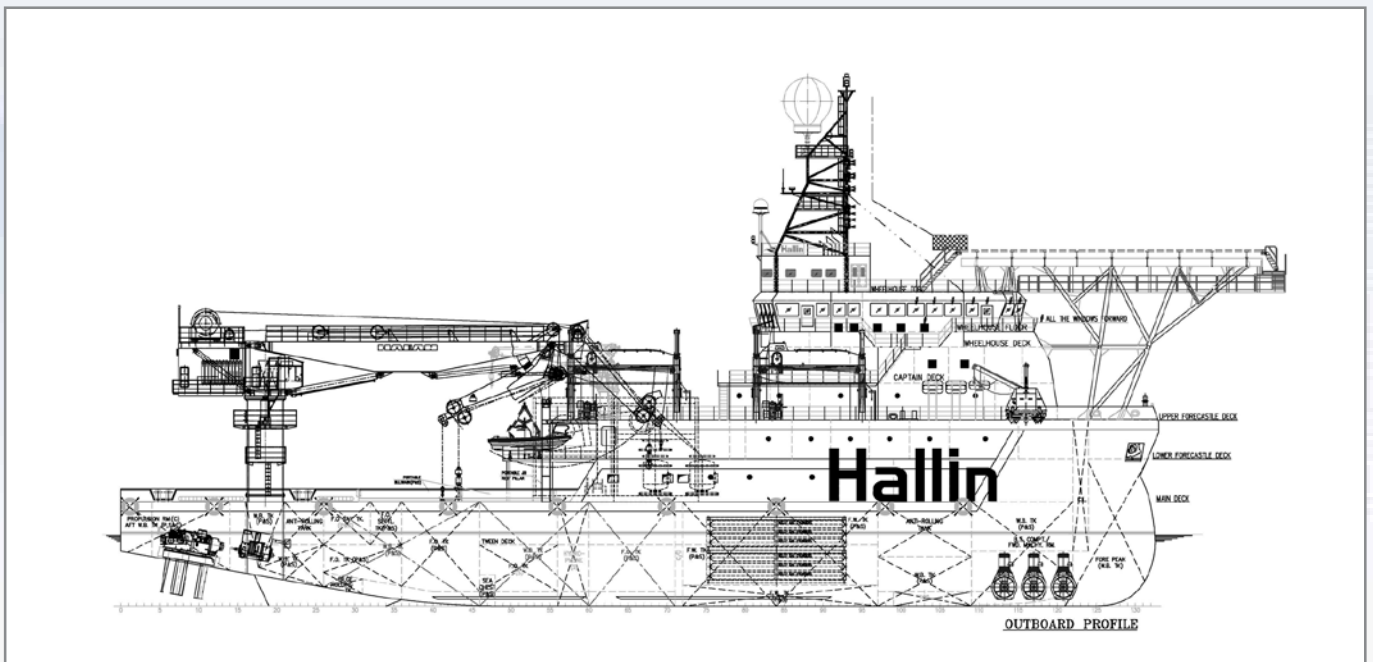


Subsea Operation Vessel - Windermere

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



Subsea Operation Vessel - Windermere

PRINCIPAL CHARACTERISTICS

Built	2010
Class	ABS
Notation	ABS + A1 + AMS Offshore Support Vessel +DPS-2
Flag	Majuro
Port of Registry	Majuro
IMO / Call Sign	9483061 / V7SK7
Length Overall	80.00m
Length BP	77.00m
Depth Moulded	8.00m
Breadth Moulded	20.40m
GRT / NRT	Approx. 4750T / 1425T

PERFORMANCE

Maximum Speed	12 knots
Economical Speed	10 knots
Type of fuel	Marine Gas Oil
Fuel Consumption	15.6m ³ /24 hours @transit speed
DP2 Usage	11m ³ /24 hrs @average

DECK EQUIPMENT

Deck Crane (1)	With 1 x 50T SWL Active Heave Compensated Knuckleboom Subsea crane (1500m water depth)
Deck Crane (2)	1 x 5T@ 7m electro-hydraulic subsea deployment (300m water depth) and cargo crane
Anchor Windlass	1 x electro-hydraulic
Gypsies	suitable for 48mm (dia) chains rated pull 15Mt @ 9m/min
Warping Drum	400m (dia) x 450mm (L)
Anchor	2 x 2140kg high holding power type
Chains	440m (L) x 48mm (dia) Grade U2 (each side)
Capstan	2 x 10Mt @ 14m/min electro-hydraulic;
Helideck	D=22m, t=12.8t, 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 5.5m draft
Deck Cargo	1000T on aft deck
Deck Strength	5 tons/m ² uniform loading
Clear Deck Area	700m ²
Fuel Oil / Potable Water	900m ³
Ballast / Drill Water	900m ³
Lub Oil	2 x 8m ³
Oily Water	10m ³
Sewerage Holding	20m ³
Freezer / Chiller	50m ³ @ -20 °C / 50m ³ @ +4 °C

CARGO PUMPS

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

PROPULSION

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

DIVING AND ROV SYSTEMS

15 Man Saturation Diving System with SPHL
3 Man Diving Bell (Through Moonpool)
Below Decks HeO2 Storage (15000m³ x 205 bar) and on Deck O2 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-100m ³ /hr @ 7 bar or 1100m ³ /hr @ 18 bar Port and Stb midships-100m ³ /hr @ 7 bar or 1100m ³ /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 2,000W
Floodlights	4 x 1,000W & 2 x 500W Aqua Signal
Lifeboat	2 x 75 men SOLAS Approved Type
SPHL	1 x 18 divers + 4 crew
Liferafts	10 x 25 men SOLAS Approved Type
Rescue Boat (MOB)	6.5m with 120kW Inboard Diesel Engine / Waterjet
Water Maker	2 x 30m ³ /day reverse osmosis
Oily Water Separator	1 x 1m ³ /hr
Sewage Treatment Plant	1 x 120 men/day