



Elevating Support Vessel



Vessel Specifications

Classification

✕ A1 ✕ AMS ✕ DPS-1 Self-Elevating Unit
Self-Elevating Well Intervention Vessel that complies with IMO MODU code

General

Vessel Size	91-m x 55.5-m x 7.6-m (298-ft x 183-ft x 25-ft)
Length of Hull	91-m (298-ft) with helicopter land deck extension
Width of Hull	55.5-m (183-ft) at transom
Depth of Hull	7.6-m (25-ft)
Draft	4-m (13-ft) from waterline to keel (two weeks fuel and water) 5.5-m (18-ft) from waterline to bottom of thrusters 8.5-m (28-ft)
Min. Operating Water Depth	106-m (129-m Leg – 7.6-m Hull + 4.6-m Can - 6-m tower – 9-m air gap – 4.6-m penetration)
Max. Operating Water Depth	350-ft (425-ft Leg – 25- Hull +15-ft Can - 20-ft tower – 30-ft air gap – 15-ft penetration)
Lightship Displacement	8,346 tonnes (9,200 tons, 18,400 kips)
Variable Deck Load	2,722 tonnes (3,000 tons, 6,000 kips)
Uniform Deck Load	2.64 tonnes/m ² (540 lbs/ft ²)
Self-Propelled Speed	6 knots
Thrusters	(3) Steerprop® azimuthal thrusters 2,500KW (3,350 hp) each
Jacking System	129-m (425-ft) leg length with spud cans (triangle, truss bracing) Spud cans {15.2-m (50-ft) diameter x 4.5-m (15-ft) height} with 207-bar (3,000 psi) top & bottom jetting 6-m (20-ft) jack case towers with Friede & Goldman VFD-440 rack & pinion jacking system with rack chocks, 54 pinions (18 pinions per leg) developing jacking speed of 27.2-m/hr (90-ft/hr) (1) 19,000-liters/min (5,000-gpm) hose reel pump (18-m or 60-ft) for preload ballast (2) 7,600-liters/min (2,000-gpm) hose reel pumps (45.5-m or 150-ft) for firefighting and cooling
Electrical	7800KW main generators and 1300KW essential generator 4160v / 600v/ 480v / 220v / 110v at 60Hz, 3-phase AC high-power VFD (variable frequency drive) on all key components

Vessel Specifications *(continued)*

Heliport	Rated 12,826-kg (28,218-lb) – CAP 437 Criteria – Sikorsky® S92 Capable
Mooring Systems	(4) 6.8-tonne (7.5-ton) anchors (4) anchor winches with 760-m of 38mm wire rope (2,500-ft of 1½" wire rope) (1) towing bridle (4) 76mm (3") poly-rope (45.5-m or 150-ft) for supply vessels

Storage Capacities

Drill Water	1044-m ³ (8,900-bbl) capacity	Sludge Storage	17.8-m ³ (110 bbls) capacity
Potable Water	342-m ³ (2,100-bbls) capacity	Dirty Oil Storage	11.3-m ³ (70 bbls) capacity
Brine Water Storage	657-m ³ (5,600-bbls) capacity	Sack Storage	152-m ³ (5,000-sacks or ft ³) capacity
Ballast Water	5397-m ³ (34,200-bbls) capacity	Max. Usable Deck	1060-m ² (11400-ft ²)
Diesel Fuel	668-m ³ (4,000-bbls) capacity	Min. Usable Deck	619-m ² (6658-ft ²)
Lube Oil	4.5-m ³ (28 bbls) capacity	Covered Storage	370-m ² (4000-ft ²) below deck

Heavy Lift Cranes

Skidding Pedestal	(1) Favco® PC-300HD 280-tonne (308-ton) with 55-m (181-ft) boom
Pedestal	(2) Favco Model 7.5/10K 45-tonne (50-ton) with 36-m (118-ft) booms

Living Quarters

Accommodations	120 persons in 1-, 2-, or 4-person cabins Climate-controlled with 2 air units per floor (designed for -23°C to 41°C or -10°F to 105°F ambient temperature) (2) galleys (24- and 56-person), triage room, control room, eight offices, officer meeting room, recreation room, officer recreation room, internet café/lounge, helicopter transit room, conference/training rooms
Customer Berths	Crew of 54 persons (Well Intervention, Marine and Catering personnel) yielding 66 Customer berths (Four 1-person cabins, Fifteen 2-person cabins and Eight 4-person cabins)
Fresh Water	Alfa-Laval® Dolphin 60 with 48,000 liters/day or 50 m ³ /day (16,000 gal/day or 380 bbls/day) capacity
Black Water	Omni-Pure® sanitation system sized for 200-person capacity

Safety Systems – SOLAS-compliant

Fast Rescue Boat	(1) Jiangyin Neptune Marine NPT95RF (or equivalent)
Survival Lifeboats	(2) 120-person, self-propelled, self-righting, pressurized life boats
Inflatable Life Rafts	(5) 25-person (3.6-m x 1.8-m or 12-ft x 6-ft) covered rafts, auto-release
Fire Detection System	Integrated battery back-up system
Fire Pumps	(2) Desmi® S100-80-220 (4x3x9) 1514-liters/min (400-gpm) at 10.3-bar (150-psi), 44.8-KW (60-hp) motor Desmi NSL125-265 deluge foam fire fighting pump
Fire Hydrant Systems	(3) Stations with 64-mm (2½-in) hose with combination fire nozzles (helideck) (18) 38-mm (1½-in) hose stations located throughout ESV
CO ₂ System	Fixed CO ₂ system for main hazard rooms (warning signal automatically sounds)
Fire-fighting Suits	(3) outfits onboard with SCBA
Dry Fire Extinguishers	30 each plus spares
Life Jackets	(250) Safe-Guard® personal floatation devices
Working Life Jackets	(59) Billy Pugh® WVO-100 (or equivalent)
Life Buoys	(8) Billy Pugh hard foam (or equivalent)
Rope Ladders	(2) 22.9-m (75-ft), port and starboard legs
Gas Detectors	Portable hand-held gas detectors
Ring Bottom Baskets	(2) 6-person, Billy Pugh ring bottom net (or equivalent)

Communication and Navigation Equipment – SOLAS-compliant

Internal Systems	Sound-powered telephone system for critical spaces (voice energized) 30-Station PAGA intercom 30-Station PBX telephone PBX cellular system for vessel/platform communications LAN throughout vessel
External Systems	IMARSAT satellite 2-way voice/data system Global Maritime Distress Signal System (GMDSS) with IMARSAT VHF marine band radio HF marine band radio 1 mb/sec two-way digital satellite communication for voice/data IMO compliant Automated Identification System (AIS) system
Receive-only Systems	Weather facsimile Navigational text (NAVTEX)
Transmit-only Systems	Aviation transponder/omni-directional beacon (CAP 427 compliant)
Navigation	(3) Digital GPS systems Fan-beam laser, Radar X band, Radar S band, Echo sounder Voyage speed Doppler radar Voyage data recorder
Bottom Scanning	Multi-beam sonar array
ROV	Large inspection-class ROV