



## Self-Propelled Self-Elevating Support Vessel



### Vessel Specifications

#### Classification

ABS ✕ A1 ✕ AMS ✕ DPS-1, CRC Self Elevating Unit

Self-Propelled, Self-Elevating Well Intervention Vessel that complies with IMO MODU code

#### General

Vessel Size.....	90-m x 55.5-m x 7.6-m (298-ft x 183-ft x 25-ft)
Length of Hull.....	90-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)
Can Footprint.....	Port to Starboard (Width) 36.4-m (120-ft) by Stern to Bow (Length) 34.9-m (115-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
Minimum Operating Water Depth.....	8.5-m (28 ft)
Maximum Operating Water Depth.....	106-m (129-m Leg + 4.6 Can – 3-m Safety Margin - 6-m Tower – 12-m Air Gap – 6-m penetration) 350-ft (425-ft Leg + 15-ft Can – 10 ft Safety Margin - 20-ft Tower – 40-ft Air Gap – 20-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)
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 4.6-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)
Ballasting.....	(2) 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
Power.....	7800KW (10,500-hp) main engines and 1300KW (1750-hp) essential engine (3) 2600KW (3,500-hp) GE 7FDM 16 cylinder diesel engines with Kato® electric generators (1) 1300KW (1,750-hp), GE 7FDM 8 cylinder diesel engines with Kato electric generator
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 System.....(4) 6.8-tonne (7.5-ton) anchors  
 (4) anchor winches with 750-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 <sup>3</sup> (8,900-bbl) capacity	Lube Oil.....	4.5-m <sup>3</sup> (28 bbls) capacity
Potable Water.....	342-m <sup>3</sup> (2,100-bbls) capacity	Sludge Storage.....	17.8-m <sup>3</sup> (110 bbls) capacity
Brine Water Storage.....	434-m <sup>3</sup> (3,700-bbls) capacity	Dirty Oil Storage.....	11.3-m <sup>3</sup> (70 bbls) capacity
Wellbore Fluid Active Pit...	79-m <sup>3</sup> (675-bbls) capacity	Sack Storage.....	152-m <sup>3</sup> (5,000-sacks or ft <sup>3</sup> ) capacity
Trip Tank.....	5.8-m <sup>3</sup> (50-bbls) capacity	Max. Usable Deck.....	1060-m <sup>2</sup> (11400-ft <sup>2</sup> )
Ballast Water.....	5397-m <sup>3</sup> (34,200-bbls) capacity	Min. Usable Deck.....	619-m <sup>2</sup> (6658-ft <sup>2</sup> )
Diesel Fuel.....	668-m <sup>3</sup> (4,000-bbls) capacity	Covered Storage .....	370-m <sup>2</sup> (4000-ft <sup>2</sup> ) 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 36.6-m (121-ft) booms

### Living Quarters (Crew Complement sizes are subject to job requirements and local, regional and federal marine manning laws)

Living Quarters	Maximum Occupancy			Two-Person Occupancy		
	RMO	Client	Total	RMO	Client	Total
Outfitted for Only Accommodation Service	26	94	120	26	64	90
Outfitted for Only Crane Service	34	86	120	32	60	92
Outfitted for Well Intervention Service	54	66	120	53	50	103

- 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)  
 24-person galley, 56-person galley, triage room, control room, eight offices, officer meeting room, recreation room, officer recreation room, internet café/lounge, helicopter transit room, conference/training rooms  
 Customer Complement.....**66** berths (6 Single-person cabins, 14 Two-person cabins, 8 Four-person cabins)  
 Crew Complement.....54 berths (2 Single-person cabins, 2 Two-person cabins, 12 Four-person cabins)  
 Fresh Water.....Alfa-Laval® Dolphin 60 with 48,000 liters/day or 50 m<sup>3</sup>/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) Noresafe® 615 Six-person jet drive fast rescue boat  
 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 NSL 125-265 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<sub>2</sub> System.....Fixed CO<sub>2</sub> system for main hazard rooms (warning signal automatically sounds)  
 Fire-fighting Suits.....(3) outfits onboard with SCBA  
 Dry Fire Extinguishers.....30 each plus spares

### 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