

KEY SPECIFICATIONS

MSP Vessel is a FiFi One, dynamically positioned DP-2, multi-purpose work boat, designed for cost effective platform commissioning field maintenance tasks, and coil tubing operations. The vessel is fitted with a 7,800 kW Wartsila Diesel Electric propulsion system for reduced fuel consumption and economic performance, with three bow thrusters and two azimuth electric driven propeller sets.

MSP Vessel offers a high capacity Liebherr lattice boom crane for surface to platform lifts of up to 50 tonnes. The ship is SPS 2008 compliant and offers accommodation for 239 people, or can be configured for 136 passengers in single or double cabin occupancy only.

Builder / Owners incorporated experience from thirty years of shipbuilding and management into the design. Built at the company's own shipyard in SE Asia, owners have provided close supervision throughout. MSP Vessel will be the 25th DP2 vessel built by the yard and follows the success of a similar DP2 workboat which delivered in 2013.

Key Specifications of MSP Vessel

50 tonne Liebherr lattice boom crane designed in Europe

Crane is able to lift a load of 50 tonnes at 45 m or 15 tonnes at 50 m

Crane is rated for man riding service

239 man accommodation with MLC ACCOM notation

120 mess room seats

Gym, recreation room, client office and survey room

SPS 2008 compliant

2 x fully enclosed Vanguard Lifeboats, 6 x 20 man life rafts

800 m² of clear deck space

10 tonnes per m² deck strength to cater for the most demanding payloads

1,200 m³ of fuel capacity for a minimum of 60 days' autonomy

22 m breadth for stability and station keeping

DP2 with 7,800 kW Wartsila Diesel Electric power system from four generators

Azimuth propulsion

3 x 900 kW Wartsila tunnel thrusters

Bridge deck designed for efficient deck and DP related operations

5.4 m x 5.4 m Moonpool to support ROV or air diving requirements

FiFi One certified with deluge system

2 workshops fitted

1 x HiPAP unit installed and fitted with gate valve for 2nd HiPAP installation

4 point mooring option



90M MULTI-PURPOSE MAINTENANCE WORK VESSEL

PRINCIPAL PARTICULARS

Length Overall	90.00 m (approx.)
Length Between Perpendiculars	86.60 m (approx.)
Length Waterline	86.60 m (approx.)
Breadth Moulded	22.00 m (approx.)
Depth Moulded	8.00 m (approx.)
Draft (design)	5.50 m (approx.)
Built	2015, PT JAS Batam
GRT / NRT	6592/1968 TBD (approx.)
Class	ABS
Notation	*A1(E) Offshore Support Vessel (FFV1, Supply), +DPS-2, MLC-ACCOM, UWILD, CRC, +ACCU, +SKP, +AMS, SPS Singapore
Flag	
IMO Number	
Official No.	
Call Sign	

PERFORMANCE

Maximum Speed	12.00 knots (approx.)
Economy Speed	10.5 knots (approx.)
Type of Fuel	Marine gas oil

CARGO CAPACITIES

Deadweight	3,200 tonnes
Deck Cargo	800 tonnes (approx.)
Deck Strength	10.0 t/m ² uniform loading aft superstructure
Deck Area	800 m ² (approx.)
Fuel Oil	1,200 m ³ (approx.)
Fresh Water	1,600 m ³ (approx.)
Ballast / Drill Water	4,000 m ³ (approx.)
Freezer / Chiller	60 m ³ / 50 m ³ (approx.)

CARGO PUMPS

Fuel Oil	2 x 100 m ³ /h at 90 m head
Fresh Water	1 x 100 m ³ /h at 90 m head

PROPULSION SYSTEM

DIESEL ELECTRIC	
Main Generators	4 x 1,950 kW (Maker - Wartsila) Alternator 690 V / 3 ph / 60 Hz, 900 rpm
Emergency Generator	1 x 370 kW (CAT. C18) Alternator 440 V / 3 ph / 60 Hz @ 0.8 pf, 1,800 rpm
Bow Thruster	3 x 900 kW Tunnel thruster, electric-driven (Maker - Wartsila)
Propulsion	2 x 2,000 kW Azimuth thruster electric-driven (Maker - Wartsila)
Drives	Low Loss Concept, Wartsila

DECK EQUIPMENT

Anchor Windlass	2 x electro-hydraulic (Maker - Macgregor)
Anchors	2 x 2,835 kg approx. high holding power type
Chains	2 x 522.5 m (L) x Ø54 mm U2
Vertical Capstan	2 x electro-hydraulic (Maker - Macgregor)
Rated Pull	10 t at 0-15 m/min
Deck Crane - Main	Electro-hydraulic lattice boom Lifting capacity 50 t @ 45 m / 15 t @ 50 m with man riding (Maker - Liebherr)
Deck Crane - Auxiliary/Prov.	Electro-hydraulic telescopic 7.5 t @ 10 m / 5 t @ 15 m (Maker - TTS)

ACCOMMODATION

Berths	6 x 1 berth = 6
	13 x 2 berth = 26
	1 x 3 berth = 3
	51 x 4 berth = <u>204</u>
Total	<u>239</u>

Sick Bay 1 x 3 berth

All cabins are fully air-conditioned and come with an attached washroom

FIRE FIGHTING SYSTEM

INTERNAL

Fixed Fire Extinguishing CO ₂ System	In Engine Room
Local Water Mist Fire Fighting System	In Engine Room
Fire Detection & Alarm System	In Engine Room & Accommodation Common Areas & Passageways in Living Spaces

Water Sprinkler System

EXTERNAL

FiFi System	2 x 1,500 m ³ /h @ 127mlc, approx.
Fire Pumps	approx. @ 1,800 rpm engine front PTO driven
Monitors	1 x 1,200 m ³ /h
Water/Foam	1 x 1,200/300 m ³ /h

OTHER FACILITIES

Mess room	Seating capacity for about 120 pax.
Recreation Room	1 (can be used as Screening/Meeting room)
Gym	1
Office	1 Office, 1 Survey Room
Workshop	1 Welding & 1 General

INTERCOMMUNICATION SYSTEM

PA Talkback System	
Self-Powered Telephone	
Integrated Telephone System	
VSAT	1
Fleet Broadband	1

RADIO & NAVIGATION EQUIPMENT

GMDSS	1 (Area 3)
SSB	1
Inmarsat	1
SSAS	1
VHF Radio	2
Navtex Receiver	1
SART	2
EPIRB	1
Portable VHF Radios	6
Radar	2 (With ARPA)
ECDIS	1
Echo Sounder	1
GPS	1
Autopilot	1
Magnetic Compass	1
Weather Fax	1
Speed Log	1
AIS	1
MF/HF radio telephone	1
Bridge Nav Watch System	1
VDR	1
Loading Computer	1

DYNAMIC POSITIONING SYSTEM

DP2 with Joystick	DP-2 Kongsberg comprise: - 2 x DGPS - 3 x Wind sensors - 3 x Gyro compass - 1 x Microwave reference - Gate valve for hydroacoustic sensors installed - 1x HiPAP 500 (Installed) - 1x HiPAP 500 (Optional) - 1x Laser reference
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MISCELLANEOUS

Search Lights	4 x 2,000 W
Floodlights	22 Nos.
Liferafts	6 x 20 persons davit launched type (SOLAS)
Lifeboats & Davit	2 x 90 men totally enclosed lifeboat (SOLAS Approved) (Maker - Vanguard)
Rescue Boat & Davit	1 x 13 men (Maker - Vanguard-Davit)
Fast Rescue Boat & Davit	1 x 6 men (Maker - Vanguard)
Water Maker	2 x 60 m ³ /day reverse osmosis type (AQE-60D)
Oily Water Separator	1 x 1 m ³ /h, 15 ppm
Sewage Treatment Plant	1 x 240 men with vacuum system (EVAC MBR 240 C)
Moonpool	1 x 5.4 m x 5.4 m clear opening with damping swash bulkheads & removable non-water tight bottom plug