

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

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 = 204
Total	239

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