

65m Anchor Handling Tug – Offshore Support Vessel



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PRINCIPAL PARTICULARS

Length Overall (m)	65.00
Length BP (m)	58.50
Breadth Moulded (m)	16.00
Depth Moulded (m)	6.20
Draft (Design)(m)	5.00
Place of Construction	PT ASL Shipyard Indonesia, Batam
GRT	2291
Class	American Bureau of Shipping (ABS)
Notation	ABS ✱A1, ✱AMS, Towing, FFV-1, Offshore Support Vessel, Anchor Handling, OSR-C1, SPS, ©, ✱DPS-2
Flag	Singapore
Port of Registry	Singapore
Call Sign	TBA

PERFORMANCE

Maximum Speed (kts)	13.0
Economical Speed (kts)	12.0
Type of Fuel	Marine Diesel

CARGO CAPACITIES

Deadweight	1650T
Deck Cargo	600T
Deck Strength (mt/m ²)	7.0T
Clear Deck Area (m ²)	435
Ballast/Drill Water (m ³)	620 approx.
Fuel Oil (m ³)	590 approx.
Potable Water (m ³)	420 approx.
Bulk Cement (m ³)	4 x 75 = 150 m ³ @ 2.5 SG
Mud/Brine/RO (m ³)	
Base Oil (m ³)	

CARGO PUMP CAPACITIES

Bilge/Ballast/Fire	1 x Self Priming Centrifugal Capacity: 100m ³ /hr@70m head
Fuel Oil Cargo Pump	1 x 3 spindle Screw pump Capacity: 106m ³ /hr @70m head
Ballast/G.S. Pump	1 x Self Priming Centrifugal Capacity: 100m ³ /hr@70m head
Fresh Water Pump	1 x Self Priming Centrifugal Capacity: 100m ³ /hr@70m head
Mud/ Brine/ORO Pump	2 x Eccentric Screw Type Capacity: 75m ³ /hr@18 bar @ 2.5SG

AUXILIARY MACHINERY

Oily Water Separator	1 x OWS approved to IMO Resolution MEPC 107(49) Capacity: 1.0 m ³ /hr
Fresh Water Maker	1 x Reverse Osmosis Type Capacity: 10T/day
Sewage Treatment Plant	1 x STP Unit approved to IMO MEPC 159(55) & MARPOL 73/78 Capacity: 60 men

PROPULSION PLANT

Main Engine	2 x Yanmar 8EY26W 2560KW @ 750rpm
Main Generators	3 x CAT C18 450EKW @ 1500rpm @415/3/50Hz
Propeller	2 x Schottel @ 2560kW per shaft 4-bladed, Controllable Pitch in Kort Nozzle,
Steering System	2 x 60kNM electro-hydraulic steering c/w independent rudders
Bow Thrusters	2 x Tunnel thrusters 640kW CPP @ 1450 rpm
Stern Thruster	1 x Tunnel thruster 515kW CPP @ 1450 rpm
Emergency Genset	1 x CAT C6.6 118EKW,1500 rpm 415/3/50Hz

DECK EQUIPMENT

Anchor Windlass	2 x Electro-Hydraulic Anchor Windlass suited for 38mm U3 Anchor Chain
Anchors	2 x AC-14 HHP Stockless Anchors
Chain	17 lengths of 38mm dia. Grade U3 High Strength Steel
Towing Winch	1 X Electro Hydraulic, 150T X 0~6m/min
Capstan	2 x Electro-Hydraulic Vertical type Capstan Rated Pull: 10T x 15m/min
Tugger winch	2 x Electro-Hydraulic Tugger winch Rated Pull: 10T x 15m/min
Stern Roller	1 x 250T Stern roller
Karm Fork	1 set 300T & up to 102mm dia. cable
Tow Pin	1 set rated up to 160T Bollard pull
Deck Crane	1 x Telescopic Crane for Provision/ Cargo Capacity: 2.0t @ 10~15m

RADIO/NAVIGATION EQUIPMENT

GMDSS	GMDSS Radio Console System for Sea Area A 1-2-3 MF/HF Radio Telephone Felcom 18 Inmarsat C Ship Security Alert System Semi-Duplex Marine VHF Radio Telephone
Radars	1 x 96NM X-Band ARPA 1 X 72NM Marine X-band
DGPS	IMO-approved DGPS Navigator Set
Magnetic Compass	1 x Binnacle, Reflector type c/w Azimuth circle Compass
Auto Pilot	IMO Approved Digital Autopilot System
Gyro Compass	3 x Master Gyro Compass for DPS-2
Echo Sounder	IMO Type Approved 500M range for 200kHz Transducer c/w aft console repeater
Speed Log	IMO Approved Doppler Speed Log Complete Set (-10 to 40 knots)
NAVTEX	International NAVTEX service w/ printer to meet requirements for GMDSS
Course Recorder	IMO Type approved
AIS	Automatic Identification System compliant to IMO MSC.74(69), A.694(17)
EPIRB	1 x Satellite 406 MHz EPIRB Complete Set
SART	2 x 9 GHz GMDSS Search & Rescue Transponder
VHF Radio	3 X McMurdo Model R2, 2.5W, 25kHz, 19 channels Waterproof, Freq 155 ~163 MHz

INTERNAL COMMUNICATIONS/ENTERTAINMENT

Sound Powered Internal Communications	Battery-less Telephone system Integrated PA/GA Intercom c/w Talkback 37 x Intercom Stations, 4 station speaker c/w amplifiers & mic., etc., PABX integrated to PA/GA system. System redundancy, Light columns. SOLAS approved system
Satellite TV	1 x lot outlets to selected cabins & Public area

DYNAMIC POSITIONING SYSTEM

DPS-2 by Kongsberg Positioning System	1 x DP Operator Station 1 X DP Dual Redundant Controller 1 x Independent Joystick System 1 x Portable Joystick at AFT control 2 x Uninterruptable Power Supply 1 x High Speed Printer
Position Reference	1 x CyScan Laser Reference System 2 X Differential Position System
Sensors	3 x Motion Reference Units 3 x Wind Sensors

FIRE PROTECTION/FIGHTING EQUIPMENT

EXTERNAL

Fire Fighting Pumps	2 x Engine driven front PTO pumps, Capacity 1700m ³ /hr @125m Head
Fire Monitors	2 X Stainless/Bronze housing, Remote controlled, 360° turning capability 1200m ³ /hr, Pressure @ 10bar- Water 300m ³ /hr, Pressure @ 10bar- Foam
Oil Pollution Control Sys	2 Nozzle Anti-pollution oil dispersant system

INTERNAL

Emergency Fire Pump	1 x Vertical Self Priming Centrifugal Pump, Capacity 45m ³ /hr @ 60m head
CO ₂ Protection System	Complete system in Engine Room & Cement Compartment designed to ABS regulations
BA Recharging Comp	1 x 265ltr/min @ 300 bar
Fire Detection/Fire Alarm	Complete system for vessel designed to ABS regulations & SPS requirements

SAFETY EQUIPMENT

Life Rafts	6 x SOLAS Approved Inflatable Life-rafts, each of Capacity 25 men stored in over side cradles
Fast Rescue Craft	1 x SOLAS Approved Fast Rescue Boat c/w launching davit for 6 men
Lifebuoys	8 x lifebuoys as per SOLAS requirements
Lifejackets	50 + 4 x lifejackets as per SOLAS requirements
Immersion Suits	3 x SOLAS Approved type
H2S Alarm	Approved H2S detecting sensors & Monitoring system

ACCOMMODATION

Berths	8 x One (1) berth cabins	08 Men
	5 x Two (2) berth cabins	10 Men
	8 x Four (4) berth cabins	32 Men
	Total	50 Men
Sick Bay	1x bed with well-equipped facilities	

All cabins are fully air conditioned and attached toilets

OTHER FACILITIES

Officer Mess Room	1 x for 8 persons, LED TV w/ DVD home theatre
Crew Mess Room	1 x for 25 persons seating capacity
Offices	1 x Meeting Room
Common Toilets	1 x in Main deck accommodation
Work Bench	1 x steel workbench c/w drilling, vise and grinding machine
Laundry	2 x 7kg washer, 2 x 9kg dryers