

TC VIGOUR

Technical Specification

AHTS Vessel: 8,810 HP Bollard Pull: 120-124 tonnes Clear Desk Space: 425 m2

DP2



"Our success is driven by the customers"



MAIN PARTICULARS

GENERAL			
ABS *A1, Towing Ves Support Vessel, Circl	sel, FFV1, Offshore e E, *AMS, *ACCU, *DPS-2		
Built	PT Nanindah Mutiara Shipyard, Batam, 2010		
Call sign	9V7216		
IMO no	9443530		
Flag	Singapore		
GRT	2147		
NRT	664		
PRINCIPAL DIMEN	ISIONS		
Length Overall	66.0 m		
Length, BP	57.0 m		
Breadth Moulded	16.0 m		
Depth Moulded	7.3 m		
Draft (max)	6.2 (with skeg; 7.05m) metres		

CAPACITIES	
Deadweight	approx 2500 tonnes at 6.2m draft
Deck Area	425.0 m2
Deck Strength	5 T/m2
Deck Cargo Capacity	870 T
Fuel	827m3 in dedicated tanks. 1615m3 combined use Mud/Brine tanks and Rig Chain Locker
Fuel Oil	682.18 m3
Portable Water	468.0 m3
Brine / DMA / Glycol / Liquid Mud	28.0 m3 in 2 dedicated tanks
SWB/Drill Water	911m3
Liquid Mud	468m3 in 6 dedicated tanks
Dry Bulk	185m3 total capacity in 4 tanks

DISCHARGED PUMPS		
Fuel Oil	1 x 100m3/hr at 7 bar	
Dirty Oil	1 x 10m3/hr at 2.0 bar	
Potable Water:	1 x 150m3/hr at 7 bar	
Drill Water	1 x 150m3/hr at 7 bar	
Mud	1 x 75m3/hr at 18 bar	
Brine / Mud:	1 x 75m3/hr at 18 bar	
Dry Bulk	80 cbm/hr - 5.6 bar (2 compressors)	
Cargo Flow Meters	Fuel Oil and Potable Water	
Hose Connections	Fuel: 4" Camlock OR Drybreak Potable Water: 4" Camlock Drill Water: 4" Camlock Mud: 5" Camlock Brine: 5" Camlock Bulk: 5" Camlock Adapters: 5" to 4" reducer, 4" to 3" reducer	

Technical parameters are subject to change without notice

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MACHINERIES

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Main Engines	2 x 4,405 BHP, 3,285kW (8,810 BHP, 6,570kW) MAN B&W 9L27/38
Propulsion	2 x MAN B&W Alpha CPP Propellers in MAN AHT Kort nozzles Steering: 2 x Rolls Royce High Lift Independent Rudders, 2 x Rolls Royce Tenfjord Electro- Hydraulic Steering Gear
Bow Thrusters	2 x 600 kW (805 BHP) Brunvoll Tunnel Thrusters, approximately 9.0 tonnes thrust each
Stern Thrusters	2 x 600 kW (805 BHP) Brunvoll Tunnel Thrusters, approximately 9.0 tonnes thrust each
Shaft Generators	2 x Leroy Somer shaft generators, 1,300kW, 1,600kVA each, 440V, 60Hz
Auxiliary Generators	1 x Caterpillar 3406 Diesel Generator, 270kW, 440V, 60Hz
Emergency Generators:	1 x Air Cooled Caterpillar 3406 Diesel Generator, 270kW, 440V, 60Hz

DECK MACHINARY

Tuggers: Capstans	2 x 10 tonnes Hydrakraft (ODIM)
Windlass	2 x 16 tonne (warping head) / 10 tonne (wire drum) Hydrakraft (ODIM)
Bow Mooring	1 x 10 tonne Hydrakraft (ODIM) 2,100kg anchors with 440m x 36mm chain each side, plus 1 spare anchor (not onboard)
Smit Towing Bracket	2 x mooring drums, capacity of 200m x 56mm rope each
Crane Capacity	1 x 200 tonnes SWL located on the Forecastle TTS, 5 tonnes at 13m radius

TOWING AND ANCHOR HANDLING EQUIPMENT

Bollard Pull	Minimum 120 MT
Main Winch	1 x Hydrakraft (ODIM) 250 tonnes variable pressure Waterfall Winch
Load Capacity	250 tonnes pull on 1st layer simultaneously
Brake Capacity	320 tonnes 1st layer 207 tonnes mid layer 153 tonnes outer layer
Tow Drum Wire Capacity	1500m x 71mm diameter
AH Drum Wire Capacity	1500m x 71mm diameter
Chain Gypsy Cable Lifter	1 x 76mm, 1 x 84mm mounted on each side
Rig Chain Locker	195m3 chain capacity
Stern Roller	Rolls Royce, SWL 350 tonnes, 5.5m x 2.0m diameter
Tow Pins / Guide Pins	1 pair of retractable Karmoy guide pins

Wire Chain Stopper	2 x retractable Karm Forks, SWL 300 tonnes for wire/chain up to 102mm
Spare Reel Capacity	1 x Hydrakraft (ODIM) variable pressure, 20 tonnes pull on 1st layer, 1400m x 71mm diameter
Pennant Storage Reels	2 x Hydrakraft (ODIM) variable pressure, 20 tonnes pull on 1st layer, 1000m x 76mm diameter
Wire Storage Reel:	Tow Wire: 71mm x 1,400m. Spare Tow Wire: 71mm x 1,400m. Towing Pennant: 71mm x 25m. Work Wire: 71mm x 300m Chaser Pennant: 71mm x 300m. Salvage Wire: 64mm x 30m.

ELECTRONICS

ELECTRONICS				
Main Radar	1 x Furuno FAR-2117 X Band ARPA with 21" LCD display			
Auxiliary Radar	1 x Furuno FAR-2137 X Band ARPA with 21" LCD display			
Auto Pilot	1 x Tokimec PR 6000 Series			
Gyro Compass	3 x Tokimec TG8000 with repeaters in wheelhouse and steering gear room			
Magnetic Compass	1 x Cassen & Plath REFLECTA 1			
Echo Sounder	1 x Skipper GDS102, Dual Frequency, 1500m water depth			
DGPS	1 x Furuno GP-180 2 X Veripos LD-3 DGPS with Verify QC control system for DP System			
Anemometer:	3 X Gill Instruments with Young Marine wind tracker Model 06206 display			
Speed Log	1 x Furuno DS-80 Doppler Speed Log			
Communications	1 x Furuno G.M.D.S.S. (Global Maritime Distress & Safety System) Area A3 set 1 x Furuno FS-2570 (250 W) MH/HF Radio 1 x Furuno FM-8800S (25 W) VHF DSC 1 x Furuno FM-8800D (25 W) VHF DSC 1 x Furuno FELCOM-15 Inmarsat-C 1 x Furuno FELCOM-15 Inmarsat-C/SSAS 1 x Furuno NX-700B Navtex Receiver 3 x McMurdo Portable GMDSS VHF Radios 1 x McMurdo EPIRB 2 x McMurdo SART Deck Communication System: Loudspeaker System PA System: Steenhans SPA - M1H & M4H			
Weather Fax	Furuno FAX 408			
AIS	1 x Furuno FA-150			
VH	@ Fore & Aft Consol: Furuno FM- 8800S / 8800D (25W) VHF DSC			
VRU	1 X TSS DMS-10 1 X TSS RP-30			
BNWAS	MARTEK BNWAS			

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MACHINERIES

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Speed / Fuel Consumption	At 100% MCR: 34m3/day (approx)
	Economical Speed 10-12 knots: 12m3/day (approx)
	ldle at Sea: 4m3/day (approx)
	Idle at Port: 0.8m3/day (approx

DYNAMIC POSITONING

Туре	GE DPS21- Duplex DP + IJS
Reference Systems	1 x Fanbeam Mk 5 complete with reflectors, 2 x Veripos LID3S DGPS with Verify QC
Control Modes	Joystick manual heading, Joystick auto heading, Dynamic Positioning, Model Control (dead reckoning), DP minimum power, Ship follow, Auto track, Auto Pilot, Auto Sail, ROV follow, Simulation (for training purposes)
Joystick	Independent Joystick

ACCOMODATION

	Single Cabins: 8 x
	2 Man Cabins: 4 x (including Hospital)
	4 Man Cabins: 4 x
	1 x Library
	1 x Mess Room
	1 x Lounge
	*Total of 32 people

ANTI-POLLUTION

Dispersant Tank	1 x 9.4m3
Spray Booms	No booms onboard. Only dispersant nozzles, each with a 1 1/4" nozzle and a 3/4" nozzle.

STANDBY RESCUE EQUIPMENT

Rescue Boat	MP Springer 660 self righting with inboard 250 hp Yanmar diesel engine and Hamilton Water Jet propulsion. 10 person capacity. 33 to 35 knot top speed with 2 persons onboard.
Life Saving Equipment	
Inflatable Liferafts c/w Hammer Hydrostatic Release	6 x 16 person (3 x port side / 3 x starboad side)
Lifebuoys	2 x man overboard c/w light & smoke / 4 c/w light / 2 c/w buoyant line.
Lifejackets	42 x COSALT Premier c/w light & whistle

EXTERNAL FIRE FIGHTING

Capacity	1,500m3/hr each Pumps: 2 x Jason Eureka
Monitors	2 x Kvaerner, capacity of 1,200m3/hr each
Throw Length	120m
Throw Height	50m

ENVIRONMENTAL FEATURES

Mud tank of free flowing design with external stiffening, sloped floors and dedicated recirculation

Low residue	design	bulk	tan	k
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Oily water separator	01 x oily water separator with 15 ppm monitor. Compliant with IMO - Resolution MEPC 107(49)
Sewage treatment plan	01

Galley macerator

Cargo load/discharge station with save all to inboard tank

MISCELLANEOUS

- Design complies to latest rules and regulations from SOLAS 74, with amendments in force and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel"
- 2. Fitted with 2 x Halogen searchlights, each 2000 W, fitted on the wheelhouse top and remotely controlled from inside the wheelhouse
- 3. Fitted with 6 x 1000 W high pressure sodium lights for the aft deck cargo area and 2 x 1000 W high pressure sodium lights in the crash rails to illuminate Anchor Handling area
- Removable section of crash rail, 6 m long, on Port and Starboard side forward to allow for fitting of ROV spread, etc
- Wood sheathed main deck except for the aft area, which is steel plated for Anchor Handling
- 6. Welding and cutting equipment and lathe in workshop
- 7. Fresh water ultra violet steriliser
- 8. Flume passive roll damping system
- Fire detection system fitted to the accommodation, all store rooms and machinery spaces throughout the vessel
- 10. CO2 fixed fire extinguishing system for Machinery Space, Emergency Generator Room, Paint Locker and Hydraulic Pump Room
- 11. Local water spray Fire Fighting system according to SOLAS regulations
- 12. Statutory liferafts, life-jackets and pyrotechnics
- 13. DRAGER PAS Colt Airline and Escape Trolley Unit for tank rescue
- 14. Electrical Sockets Deck Power Supply for RoV equipment / Charterer's equipment: 2 x 500A 440V 3ph; 1 x 63A 440V 3ph; 1 x 32A 440V 3ph Deck Power Supply for Refrigerated Containers: 6 x 440V 63A, 3ph
- Bulk tank cleaning air mask (not operational as requires filter/regulator. Presently on order).

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