

VESSEL SPECIFICATIONS



Anchor Handling Tug Supply Vessel Available for Sale

Vessel is ideal for all round semi-submersible rig support operations. This **W** Class vessel have substantial horsepower and winch capabilities to heave anchors and tow rigs. She's also offering a sizeable cargo capacity. Vessel is equipped with Dynamic Positioning System (DP-2 Class) and a 300-tonne Brattvaag winch. Typical **Rolls-Royce UT710** Norwegian designs are also renowned for their excellent station keeping in rough weather/ harsh environmental conditions while proving to be reliable and adaptable to serve various operations, including but not limited to anchor handling, ROV support and salvage scopes of work.

Top Features		Key Specifications	
1.	Ideal for ROV & Towing operations.	•	Bollard Pull - 150 t
2.	Large & comfortable accommodation.	•	Free Deck Area - 471 m ²
3.	High Capacity bollard pull for semi-sub anchor handling.	•	Brake Horsepower - 10657 bHP
4.	Good Economical DP station keeping during operations.	•	Winch Line Pull - 300 t

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General Information	
Vessel Name	TBD Upon signing of NCNDA
Built	INP Shipyard, Ulsan, South Korea, May 2003
Flag	Indonesia
Call Sign	TBD Upon signing of NCNDA
IMO No.	TBD Upon signing of NCNDA
Classification	
Class Notation	DNV-GL +1A1 Fire Fighter(I) Tug DK(+) DPS(2) E0 SF TMON
Dimensions	
Length (LOA)	68.95 m
Beam	15.5 m
Summer Draft	6.0 m
Deadweight @ SummerDraft	2155 t
GT	2327
Length, BP	60.45 m
Length (Load Line)	62.65 m
Depth, main deck	7.0 m
Maximum Draft Midship	6.0 m
NT	749
Minimum Draft Midship	4.67 m
Deck Capacities	
Deck Load Capacity	800 t
Deck Strength	5 t/m ² - General deck 10 t/m ² - Aft AH deck
Free Deck Area	471 m ²
Length x Width	36.8 x 12.8 m
Tank Capacities	
NLS	See brine/mud

Brine / Mud	459 m ³ Brine (Multi usage tanks) 439 m ³ Mud (Multi usage tanks, dedicated 293 m ³)
Drill / Ballast Water	101 m ³ (dedicated) 1060 m ³ (Multi usage tanks)
Dry Bulk	224 m ³ (in 4 tanks)
Fresh Water	448 m ³ (dedicated) 947 m ³ (Multi usage tanks)
Fuel Dedicated	797 m ³
Fuel Total	797 m ³ (dedicated)
Tank Capacities Details	Refer to Tank Capacities Table
Drilling Brine	See brine/mud
Ballast Water	101 m ³ (dedicated) 1060 m ³ (Multi usage tanks)
Drill Water	101 m ³ (dedicated) 1060 m ³ (Multi usage tanks)
Ship's Stores	Freezer (-25c) = 11 m ³ Chiller (+4c) = 9.5 m ³ Dry Store (+22c) = 23 m ³
Propulsion / Bollard Pull	
Main Engines	2 x Bergen BRM9 each 3975 kW = 7950 kW (10657 bHP) 2 x CPP propellers in KORT nozzles, with Hi-lift flap rudders
Thrusters	2 x RRM bow thruster each 590 kW / 791 bHP 1 x RRM stern thruster each 590 kW / 791 bHP
Bollard Pull	150 t at 100% MCR
Shaft Generators	2 x shaft generators 1280 ekW (1600 kVA), 450v, 60 Hz
Auxilliary Generators	2 x diesel/gen output 320 ekW (400 kVA), 450v, 60 Hz
Emergency Generators	1 x diesel/gen output 65 ekW (80 kVA), 450v, 60 Hz
Deck Equipment	

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Towing / Working Winch	1 x Tow winch 300 t 1st layer @ 0-7.0 m/min Wire capacity 1500 m of 76 mm dia.
Anchor Handling Winch	2 x AH winch each 300 t 1st layer @ 0-7.0 m/min Wire capacity 1200 m of 76 mm dia.
Brake Capacity	450 t 1st layer
Spare Reel Capacity	2 x rope reels for storage pennant/tow wire Capacity of: 1500 m of 76 mm wire Duty 1st layer: 7.5 t at 0-48 m/min
Wire Storage Reel	1 x wire store reel Capacity of: 1500 m of 76 mm wire Duty 1st layer: 7.5 t at 0-48 m/min
Chain Lockers	1 x 195 m ³ Chain capacity of: 2400 m 76 mm chain or 2000 m 84 mm chain
Towing Pins	4 x for ships with BP up to 240 t
Shark Jaws	2 x for wire/chain with MBL up to 500 t
Stern Roller	RRM single drum with diameter 2.4 m x length 5.0 m @ 450 t SWL
Capstans	2 x RRM 8.5 t @ 0-20 m/min
Tugger Winches	2 x RRM 10 t @ 0-38 m/min Storage capacity 100 m of 19 mm dia. Wire
Provision Crane	1 x electric hydraulic knuckle boom Capacity 5 t @ 10 m, 3 t @ 15 m
Chain Gypsies	2 x 76 mm + 2 x 84 mm
Windlass	RRM combined windlass / mooring winch Duty on warping ends, 10.5 t @ 0-13.5 m/min, light line 0-45 m/min. Duty on cable lifters, nom pull 9.5 t @ 0-13.5 m/min, max pull 11.5 t. Duty on mooring drums, stowing capacity 120 m of 40 mm rope, duty on mooring drums 9.5 t @ 0-13.5 m/min, lowering 0-45 m/min.
Smit Towing Bracket	1 x 200 t SWL located on fo'csle
Navigation Equipment	
Main Radar	1 x Furuno SN-7AF,RSB-0026 colour S-band (10 cm), ARPA 28" display, complete with remote display at aft console
Auxiliary Radar	1 x Furuno XN-4A,RSB-0014 colour X-band (3 cm), ARPA 28" display
Auto Pilot	Tokimec PR6000
Magnetic Compass	Tokimec SH165A1
Echo Sounder	Skipper GDS101

GPS	Furuno GP-80
Speed Log	Furuno Doppler DS - 80
Communications	G.M.D.S.S. (Global Maritime Distress and Safety System) 1 x SSB 3 x VHF 2 x Inmarsat C 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Iridium 2 x VHF portable radios (icom) 6 x UHF
Navtex Receiver	Sailor NAV-5
Weather Fax	Furuno, Fax-214
Satellite Communication	VSAT/FBB
AIS	Fununo, FA-150
VHF	1 x Sailor RT-4822 2 x Sailor RT-4722
BNWAS	Martek Marine Navigard
Discharge Pumps	
Fuel Oil	2 x 150 m ³ /hr at 9.0 bar
Sludge	10 m ³ /hr at 2.0 bar
Fresh Water	1 x 150 m ³ /hr at 9.0 bar
Drill / Ballast Water	1 x 200 m ³ /hr at 9.0 bar
Dry Bulk	2 x Screw type air compressors at 23 m ³ /min, 5.6 bar discharge rate of capacity 80 t/hr
Special Liquids	1 x 75 m ³ /hr at 18 bar (Brine Discharge)
Hose Connections	Fuel Oil - 4" Male Camlock Fresh Water - 5" Female camlock Drill Water - 5" Female camlock Mud/Brine - 5" Female camlock Dry Bulk - 5" Female Camlock
Performance & Economy	
Economical Speed	Approx. 10 m ³ /day @ 7 kts (1 ME) Approx. 15 m ³ /day @ 10 kts (2 MEs)
DP<20%	Approx. 11 m ³ /day
DP>35%	Approx. 15 m ³ /day
Standby in Field	Approx. 5.1 m ³ /day @ 1-4kts 1 ME Approx. 9.1 m ³ /day @ 1-4kts 2 Mes
Standby in Port	Approx. 1.2 m ³ /day
Note	Performance & Economy figures given at mean vessel draft of 5.5 m (1900 t deadweight) & Beaufort Scale 2
Dynamic Positioning System	

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Type	GE Energy C-Series DPS-21 Duplex DP System with RRM Poscon Independent Joystick System
Reference Systems	2 x Sonardyne HPR prepared 2 x Veripos DGPS 1 x Fanbeam
Motion Reference Units	3 x Gyro Tokimec 3 x Wind Sensor Gill 3 x VRU TTS DMS
Control Modes	Auto sail Auto track (Low speed) Joystick auto heading DP DP minimum power ROV follow Mode control Auto station keeping Stand-by (for training)
Joystick	Poscon - electronic control system joystick

1. Wood sheathed main deck except for aft area, which is steel plated for anchor-handling.

2. Ulstein passive roll damping system.

3. Deck Power supplies: 1 x 1000A x 440v x 3ph, 1 x 63A x 440v x 3ph, 1 x 32A x 220v x 1ph & 4 x 32A x 440v x 3ph

External Fire Fighting	
Capacity	2 x 1500 m ³ /hr = 3000 m ³ /hr
Monitors	2 x 1200 m ³ /hr = 2400 m ³ /hr (Water) 2 x 300 m ³ /hr = 600 m ³ /hr (Foam)
Throw Length	120 m
Throw Height	50 m
Foam Tank	12.3 m ³

Rescue Boat	
1. 1 x Maritime Partner MP660 Springer, 10 person, SOLAS approved FRB with inboard diesel waterjet.	

Anti-Pollution	
Dispersant Tank	12.3 m ³
Spray Booms	2 x Booms (1 port , 1 starboard) at 6 m
Spray Nozzles	2 x Nozzles per boom

Accommodation	
Person Capacity	Total 30 10 x 1man cabin 4 x 2man cabins (Including hospital) 3 x 4man cabins
Offices	2 x Offices
Hospital	Yes (2 berth)

Environmental Features	
1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and fixed agitators.	
2. Fixed Butterworth type mud tank cleaning system with hot water wash, fitted to all mud tanks and with slop tank reception. Cargo load/discharge station with save all to inboard tank.	
3. Low residue design bulk tanks.	
4. Garbage compactor.	

Miscellaneous	
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Tank Capacities Table

W Class Tank Capacities @ 100%							
Tank	Volume	WB/DW	FW	FO	Brine	Mud	Glycol
1 Forepeak	101.7	101.7					
4 DB/Wing Tk 1P	123.8		123.8				
5 DB/Wing Tk 1S	126.1		126.1				
6 DB/Wing Tk 2P	47.6			47.6			
7 DB/Wing Tk 2S	59.8			59.8			
19 DB/Wing Tk 3P	61.6			61.6			
20 DB Tk 3S	34.2			34.2			
26 FO Settling Tk	34.2			34.2			
27 FO Service Tk	37			37			
28 FO Service Tk	37			37			
29 DB Tk 4P	88.2			88.2			
30 DB Tk 4S	88.2			88.2			
31 Wing Tk 4P	58.9	58.9			58.9		
32 Wing Tk 4S	58.9	58.9			58.9		
33 Rig Chain Locker	194.7	194.7			194.7		
35 Glycol/Bri/Mud/WB/DW Tk 1P	73.3	73.3			73.3	73.3	73.3
36 Glycol/Bri/Mud/WB/DW Tk 1S	73.3	73.3			73.3	73.3	73.3
38 Mud Tk 2P	73.3					73.3	
39 Mud Tk 2S	73.3					73.3	
40 DB/Wing Tk 5P	143.8			143.8			
41 DB/Wing Tk 5S	134.9			134.9			
43 Mud Tk 3P	73.3					73.3	
44 Mud Tk 3S	73.3					73.3	
46 DB/Centre Tk 6	34.9			31.4			
47 Wing Tk 6P	50.5		50.5				
49 Wing Tk 6S	50.5		50.5				
50 Wing Tk 7P	43.9	43.9	43.9				
51 Wing Tk 7S	43.9	43.9	43.9				
52 Stab Tk 1	256	256	256				
53 Stab Tk 2	155.5	155.5	155.5				
54 Aft Peak P	48.6		48.6				
55 Aft Peak S	48.6		48.6				
Dedicated Tanks:	@ 100%	101.7	448.1	797.9		293.2	
With Multiuse Tanks:	@ 100%	1060.1	947.4		459.1	439.8	146.6
		WB/DW	FW	FO	Brine	Mud	Glycol
Bulk Capacity of 224 m³ in four dedicated tanks							
33 Rig Chain Locker cannot be used for chain & product at the same time							

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