



AHTS "GH ATLANTIS"
UT786 CD - 16.320 BHP

ANCHOR HANDLING TUG SUPPLY VESSEL

GENERAL DESCRIPTION	
A multipurpose vessel for unrestricted operation offering the following contingency services:	
Anchor Handling	
Towing	
Platform Supplying	
Trenching	
Cable Laying	
Ploughing	
Mooring Operations	
Oil Recovery Operations	
Fire-Fighting Class 2	

VESSELS IDENTIFICATION, MAIN PARTICULARS AND FEATURES	
Managers:	United Offshore Support GmbH
Builder:	SeKwang, South Korea
Year Completed:	2010
Port of Registration:	St. John's, A & B
Classification:	DNV GL 100 A5 E Offshore service vessel (AH, OR, Standby) Supply vessel Tug
	BWM (D2) DG HC (3) NAV-OC NLS
	Strengthened for heavy cargo
	MC AUT CM-PS DP (2) EP-D FF(2)

PRINCIPAL DIMENSIONS	
Length Overall:	86.00 m
Length between P.P.:	73.50 m
Breadth Moulded:	19.90 m
Depth Moulded:	8.80 m
Draught Max:	7.29 m (+0.80 m Skeg)
Design Draught:	7.29 m
Deadweight:	3.600 mt abt.
Gross Tonnage:	4.568 mt
Net Tonnage:	1.370 mt

POWER	
Main Engines:	12.000 kW (16.320 bhp)
	2 Bergen Diesel 32-40V12 x 6.000 kW
Azimuth Thruster:	1.500 kW (2.040 bhp)
Total:	13.500 kW (18.360 bhp)
Service Speed:	12 knots
Max Speed:	17 knots
Bollard Pull:	> 200 t cont.

CABLE LIFTERS	
2 x 76 mm	Made of cast steel, to be mounted on both sides of AH Drum
2 x 84 mm	
1 x 95 mm	
2 x 105 mm	
2 x 114 mm	
2 x 120 mm	

2 Cable Lifters:	
Pull/Speed:	370 t @ 14.5 m/min; 130 t @ 46 m/min

SECONDARY WINCH	
Secondary winch	2 x 1.500/3.200 mm dia. 4.500 + 900 mm 100 m of steel wire 48 mm
Capacity of each:	4000 m of 76 mm steel wire 1600 m of 203 mm poly rope
Pull/Speed:	
1st Layer:	138 t at 0-28 m/min
Top Layer:	56 t at 0 - 75 m/min

SPOOLING DEVICE	
For Secondary Winch	
Max. Side Load:	23 t

2 x AFT TUGGER WINCHES	
Each consisting of:	
1 Rope Drum:	924/600 mm dia. X 750 mm long for 110 m steel wire, 16 mm dia.
Pull/Speed:	12 t at 0-17 m/min Slack rope speed 0 - 62 m/min



CAPABILITIES	
Deck Space:	40 m x 16.6 m = 664 m2 (7.147 ft2)
Permissible Load:	10 t/m2
Overall Deck Load	
Capacity:	1.200 t
Dry Bulk (4):	235 m3 (8.292 cu ft)
Water Ballast tanks:	1.580 m3 (9.812 bbls)
Freshwater:	859 m3 (5.403 bbls)
Fuel oil:	835 m3 (5.252 bbls)
Chain Lockers (4):	642 m3 (4.038 bbls)
Base oil:	180 m3 (1.132 bbls)
ORO:	1.284 m3 (8.076 bbls)
Brine (7):	942 m3 (5.925 bbls)
Mud (5):	614 m3 (3.862 bbls)

FUEL CONSUMPTION	
In Port:	1.3 t
Transit (economic):	14.6 t @ 10 knots
Towing Max Output:	52 t

DECK EQUIPMENT	
DECK CRANES	
Provision Crane:	SWL 15t/15m
AH Crane:	2 x SWL 5t/10m

TOWING/ANCHOR HANDLING WINCHES	
One of:	Brattvaag towing /anchor handling winch waterfall type SL400W-3T 400 t stalling pulf 500 t brake holding

Consisting of:	
AH Drum:	1.500/3.200 mm dia. 4870 + 900 mm 2.436 m of steel wire 90 mm
Tow Drum:	1.500/3.200 mm dia. 1900 mm 1.268 m of steel wire 93 mm
Work Drum:	1.500/3.200 mm dia. 3000 mm 175 m of steel wire 83 mm
Pulf/Speed:	Driven by 4 pumps
1st Layer:	400 t at 0-18.7 m/min slack hawser 0-30.4 m/min
Top Layer:	200 t at 0-36.5 m/min slack hawser 0-59.6 m/min

ANCHOR HANDLING EQUIPMENT	
Shark Jaw:	2 sets of Shark Jaws 600 t
Towing Pins:	2 sets towing pins with locking arms for pull down force 50 t
Quarter Pins:	2 quarter pins 350 mm dia. max lifting height 600 mm.
Centering Device:	2 x 2.5 - 14 t
Storm Roller:	2 x Dia. 4500 mm Breath 2.296 mm.
MWL:	550 t downward pull each or 750 t both

ROLL REDUCTION	
	Stability Tanks 25 and 26

FAST RESCUE CRAFT	
	2 x waterjet engine FRC, 10 Pers., speed 37.5 kts

AVAILABLE DECK SUPPLY	
Air:	8 outlets for working on deck
Capacity:	100 m3/h, 7 bar
El. Power:	8 x 440 V 4 x 220 V



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2x FORWARD TUGGER WINCHES	
Each consisting of:	
1 Rope Drum:	900/2,300 mm dia. x 1000 mm long for 110 m steel wire rope, 24 mm dia.
Pull Speed:	24 t at 0-22 m/min Slack rope speed 0 - 70 m/min

ROPE REEL	
1 Rope Drum:	1000/2,600 mm dia. x 2200 mm long for 1600 m steel wire rope, 76 mm dia.
Pull Speed:	10 t at 0 - 85 m/min

1 ANCHOR AND DOUBLE DRUM MOORING WINCH 160	
Consisting of:	
2 Cable Lifters:	Made of cast steel, for 48 mm K3 grade stud chain, de-clutchable and with band brake for static holding
Pull Speed:	0 - 9.5 m/min
Max Pull:	16 t
2 Rope Drums:	400/1,250 mm dia. x 1,000 mm long
Pull Speed:	15 t at 0-7 m/min Slack rope speed 0 - 26 m/min
2 Winding Heads:	500 mm dia. x 500 mm long
Pull Speed:	12 t at 0 - 8.5 m/min Slack rope speed 0 - 31 m/min

4x RIG CHAIN LOCKERS	
2 x off rig chain lockers, 164 m3 each and 2 x off rig chain lockers, 159 m3 each	
Chain Capacity:	Stud chain x 80% of chain locker
	76 mm - 8170 m
	84 mm - 6690 m
	95 mm - 4900 m
	105 mm - 4020 m
	114 mm - 3400 m
	120 mm - 3080 m

DYNAMIC POSITIONING SYSTEM	
The vessel is equipped with a Rolls Royce dynamic positioning system (DP 2) which has the capability to control the vessel positioning.	
Following modes are available:	
• Auto heading mode	
• Auto positioning mode	
• Joystick mode	
• Autopilot mode	
• Follow target mode	
• Auto track mode	

The DP 2 system is equipped with following reference systems:	
	2 x Wind sensors
	2 x Motion reference unit (MRU)
	2 x DGPS
	1 x CyScan
	1 x RadaScan
	3 x Gyro compasses

Prepared for Hydro Acoustic System.	
NAVIGATION EQUIPMENT	
Radar X-Band:	Furuno FAR - 2827 ARPA (its combined with ECDIS)
Radar S-Band:	Furuno FAR - 2837S ARPA
ECDIS:	2 x FURUNO TECDIS HTB04TM TEL-A1
GPS:	2 x FURUNO GP-150
Echo Sounder:	Furuno FF-701
Speed Log:	2 x Furuno Doppler Log DS-30 and DS-300
Weather Station:	Furuno Fax 207
Gyro Compass:	3 x Sperry Marine Navigat X MK1
Sound Reception:	Zollner SRD 4142
Voyage Data Recorder:	Furuno VDR VR-3000

COMMUNICATION EQUIPMENT	
The radio installation is according to GMDSS A3	
MF/HF Radio Teleph. 1x:	Furuno FS2570
Inmarsat C 2x:	Furuno Falcom 15
SSAS 2x:	Furuno IC-307
Navtex Receiver 1:	Furuno NX700
Weather Facsimile 1x:	Furuno
Inmarsat Fleet Broadband:	VSAT, Inmarsat
EPIRB 2x:	Jotron Tron 40S and 60S
Radar Transponder 2x:	Jotron SART20
Automatic Identification (AIS):	Furuno FA 1502
VHF 2x:	Furuno FM8900S
GMDSS VHF 2x:	Furuno FM8900S
GMDSS VHF Handhelds 3x:	Jotron TR 20
VHF Handheld for Air Communication:	
Portable VHF 3x:	GP 340 VHF
Portable UHF 3x:	GP 340 UHF

PROPULSION	
Main Engines:	2 Bergen Diesel 32'40V12 x 6,000 kW Fuel MDO
Propellers:	2 x Controllable pitch propellers in fixed nozzles
Rudders:	Two Becker flap rudders

SIDE THRUSTERS	
ONE CONTROLABLE PITCH BOW TUNNEL THRUSTER	
Motor rating:	900 kW (1,224 bhp)

ONE AZIMUTH THRUSTER IN THE BOW	
Motor rating:	1500 kW (2,040 bhp)

2 x CONTROLABLE PITCH STERN TUNNEL THRUSTER	
Motor rating:	2 x 893 kW (1,200 bhp)

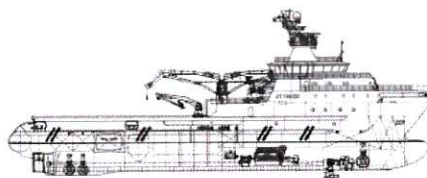
ENGINE ROOM	
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ELECTRICAL POWER	
Shaft Generators 2x:	2,400 kW each
Aux. Generators 2x:	994 kW each
Harbour Generator 1x:	465 kW
Emergency Generator:	277 kW

PUMP CAPACITY	
Ballast/Drill Water:	200 m3 (1,258 bbls)/h @ 90 m head
Potable Water:	200 m3 (1,258 bbls)/h @ 90 m head
Fuel:	200 m3 (1,258 bbls)/h @ 90 m head
Liquid Mud:	75 m3 (472 bbls)/h @ 240 m head
Brine:	75 m3 (472 bbls)/h @ 180 m head
Base Oil:	75 m3 (472 bbls)/h @ 90 m head

LIFESAIVING EQUIPMENT	
In accordance with the latest Solas amendments. The following rescue/lifesaving equipment is on board:	
MOB Boat, cap. 10 persons, speed 37.5 kts.	
Hospital with stretchers.	
Life jackets: 44 pcs + 4 pcs child	
Immersion suits: 47 pcs	
Life rafts: 4	

ACCOMMODATION	
All cabins are equipped with toilet and shower.	
1 Man Cabin:	7 x 1 = 7
2 Man Cabin:	14 x 2 = 28
Total:	35





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TANK CAPACITIES												
TANKS			VOLUME (M ³)									
NO.	TANK ID	CONTENTS	FRESH WATER	FUEL OIL	BRINE	DRILL WATER	MUD	DRY BULK	BASE OIL	WATER BALLAST	SPECIAL PRODUCT	ORO
2	2 SB FW	FW	89,0									
3	2 PS FW	FW	166,0									
8	6 SB FW	FW	91,0									
9	6 PS FW	FW	94,0									
14	10 SB FW	FW	78,0									
15	10 PS FW	FW	78,0									
20	13 SB FW	FW	31,0									
21	13 PS FW	FW	31,0									
1	1 WB/FW	WB/FW	201,0									
5	4 PS WB	WB				84,0			84,0			
6	5 SB WB	WB				41,0			41,0			
7	5 PS WB	WB				41,0			41,0			
10	7 SB WB	WB				100,0			100,0			
11	7 PS WB	WB				102,0			102,0			
12	9 SB WB	WB				98,0			98,0			
13	9 PS WB	WB				97,0			97,0			
16	11 SB WB	WB				57,0			57,0			
17	11 PS WB	WB				57,0			57,0			
18	12 SB WB	WB				45,0			45,0			
19	12 PS WB	WB				45,0			45,0			
22	14 SB WB	WB				145,0			145,0			
23	14 PS WB	WB				144,0			144,0			
24	24 CD SP.PRW.B	WB				418,0			418,0			
73	8 PS WB	UREA.WB				43,0			43,0			
72	8 SB WB	UREA.WB				43,0			43,0			
50	3 SB FO	FO		173,0								
51	3 PS FO	FO		176,0								
52	5 C FO	FO		78,0								
54	15 SB FO	FO		89,0								
55	15 PS FO	FO		101,0								
57	57 SB FO DAY	FO		28,0								
58	58 PS FO DAY	FO		28,0								
59	59 PS FO DAY	FO		23,0								
60	7 C FO SETTL	FO		35,0								
68	68 FO SETTL	FO		24,0								
40	17SB	FO		80,0								
56	9 C FO	FO/BO							180,0			
30	Cement TK.1	CEM						61,8				
31	Cement TK.2	CEM						55,9				
32	Cement TK.3	CEM						55,9				
33	Cement TK.4	CEM						61,8				
34	34 PS SPEC.PROD	SPEC.PROD.								73,0		
35	35 PS SPEC.PROD	SPEC.PROD.								62,0		
36	36 SB SPEC.PROD	SPEC.PROD.								62,0		
37	34 SB SPEC.PROD	SPEC.PROD.								73,0		
41	17PS Br/Mud/WB/O	BR/MUD/WB/ORO					94,0					94,0
42	19SB Br/Mud/WB/O	BR/MUD/WB/ORO					101,0					101,0
43	19PS Br/Mud/WB/O	BR/MUD/WB/ORO					101,0					101,0
44	16SB CHA.WB	CHA.WB							162,4			
45	16PS CHA.WB	CHA.WB							162,4			
46	18SB Br/Cha/WB/O	BR/CHA/WB/ORO										164,0
47	18PS Br/Cha/WB/O	BR/CHA/WB/ORO										164,0
48	20SB Br/Mud/WB/O	BR/MUD/WB/ORO			159,0							159,0
49	20PS Br/Mud/WB/O	BR/MUD/WB/ORO			159,0							159,0
25	Roll	WB/ORO								349,6		342,0
26	Roll	WB/FW								323,7		
TOTAL VOLUME			859,0	835,0	318,0	1580,0	296,0	235,4	180,0	2547,3	270,0	1284,0