

Vessel Specifications

AHTS CAPTAIN NICHOLAS Z



Vessel Specifications

Registration

Year built/ Builder	2008 / JSC Amur Shipbuilding Plant, Russia
Flag	Panama
Class	DNV +1A1, Tug, Supply Vessel, SF, E0, OILREC, Fire Fighter-I, DYNPOS AUT
IMO number	9334179
Call sign	HO 4101
Managers	Zouros Group

Dimensions

Length overall	74,90 m
Length between p.p.	64,90 m
Breadth Moulded	18,00 m
Depth main deck	8,00 m
Design draught	6,00 m
Light draught equipped	5,15 m
Max. draught	6,60 m
Max. freeboard in rescue operations	2,50 m
Deadweight at d=6.60 m	3.211 T
Deadweight at d=6,00 m	2.515 T
Registered Tonnage	GRT 3.062 / NRT 1.070

Machinery

Main Engines	2 x 7.500 BHP (2 X 5.520 Kw) Wartsila Type W 12V32 @ 750 rpm
Propulsion	2 x Kamewa Ulstein CPP in Kort Nozzles
Bow Thruster	1 x 883 kW RR type TT2200 DPN CP, 2200 mm prop. dia.
Retractable Azimuth Thruster	1 x 883 kW type TCNS 73/50 – 180
Stern Thruster	1 x 883 kW type TT2200 DPN CP, 2200 mm prop. dia.
Main Generators	2 x Caterpillar, 500 kW each, 380 V, 50 Hz
Emergency Generator	1 x Caterpillar, 120 kW, 380 V, 50 Hz
Shaft Generators	2 x 1900 kW, 380 V, 50 Hz

DP equipment

DP system	ALSTOM POWER CONVERSION LTD, TYPE ADP11 SIMPLEX DPS
References	2 x Differential GPS, 1 x CYSCAN, 2 x Gyrocompass, 2 x Anemometer, 1 x Vertical Reference Unit
Joystick System	ROLLS-ROYCE MARINE AS, TYPE P575

Deck Crane

Stbd side	1 x TTS 3t Crane, 15 m leg
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Capacities

Fuel Oil	1000 m3
Fresh Water	700 m3
Drill water (Comb. BW & brine)	590 m3
Ballast Water (Comb. DW, C/L & brine)	1070 m3
Dry bulk cargo tanks (cement)	283 m3
Liquid mud tanks (2.8 S.G.)	550 m3
Brine (2.00 S.G.)	200 m3
Base oil	260 m3
Oil Recovery (8 Tanks)	1050 m3
Refrigerator / Freezer	20 m3
Chain Lockers (Rig chain)	240 m3
Foam / Detergent	15 m3
Deck Cargo Capacity (G=1.00 above deck)	1300 t
Clear Deck Area	560 m2

Transfer rates

Fuel oil	1 x Allweller 250 m3 @ 9 bar
Fresh Water	1 x Allweller 150 m3 @ 9 bar
Drill Water	1 x Allweller 250 m3 @ 9 bar
Ballast Water	1 x Allweller 250 m3 @ 9 bar
Liquid Mud	2 x Allweller 75 m3 @ 18 bar
Base Oil	1 x Allweller 100 m3 @ 9 bar
Brine	2 x Allweller 75 m3 @ 18 bar
Dry Bulk	2 x Screw compressors

Vessel Specifications

Performance

Maximum Speed	16 knots
Service Speed	13 knots
Bollard Pull	157.5 t

Towing / anchor handling / mooring

Towing winch	1000 mm dia / 2500 mm dia x 1400 mm length, min 1000 m of 72 mm dia wire 300 tonnes on first layer @ 7 m.min, 450 tonnes brake holding
Anchor handling winch	1000 mm dia / 2500 mm dia x 1400 mm length, min 1000 m of 72 mm dia wire 300 tonnes on first layer @ 7 m.min, 450 tonnes brake holding
Stern Roller	1 5000 mm x 2700 mm, 500 tonnes SWL
Shark Jaws	2 x units SWL 500 tonnes
Towing pins	2 x sets SWL 330 tonnes each
Tugger Winch	2 x 12 tonnes @ 25 m/min, @ light line 82 m/min, 400 mm x 900 mm
Rope reel	2 x fixed drum on B-deck, 1000 m of 72 mm wire, 20 tonnes @ 29 m/min,
Anchor Windlass with chain stoppers	1 Brattvaag hydraulic 16,4 tonnes max pull, 11,5 tonnes @ 50 m/min
Anchor Chain	2 x 600 m K3
Anchor	2 x stockless anchors
Capstans	2 x 10 tonnes @ 22 m /min, Brattvaag hydraulic driven

Navigation and communication

Inmarsat C	Japan Radio Co. Type JUE-75C
GMDSS portable radio	Icom Inc. Type IC-GM1500
SAT. COM.	Sailor
Auto pilot	Simrad, Robertson AP9 Mk3
Radars	2 x Furuno Electric Co.
GPS Satellite Navigator	Furuno GP90
ECDIS	Kongsberg Maritime AS, Seamap@SM1023
AIS	Japan Radio Co. Type JUE-75C, JHS-182
Navtex Receiver	Japan Radio Co. NCR-333
Gyro Compass / Repeaters	2 x Yokogawa Denshikiki Co. Ltd, CMZ700D
SSB Radio	Japan Radio Co. JSS-296/596/896
Echo Sounder	Furuno Electric Co. FE-700
VHF	Japan Radio Co. JHS-32B
SART	Japan Radio Co. JQX-30A
Doppler log	Rolls-Royce Marine AS, JLN-550
Weather Fax	Furuno Electric Co. FAX-208 MARK-2
Anemometer	Gill Instruments Ltd. 1390-PS-004
EPIRB	Rolls-Royce Marine AS, JLN-550, JQA-3A
Intercom Telephone	Zenitel Marine, VSP

Fire fighting equipment and anti-pollution equipment

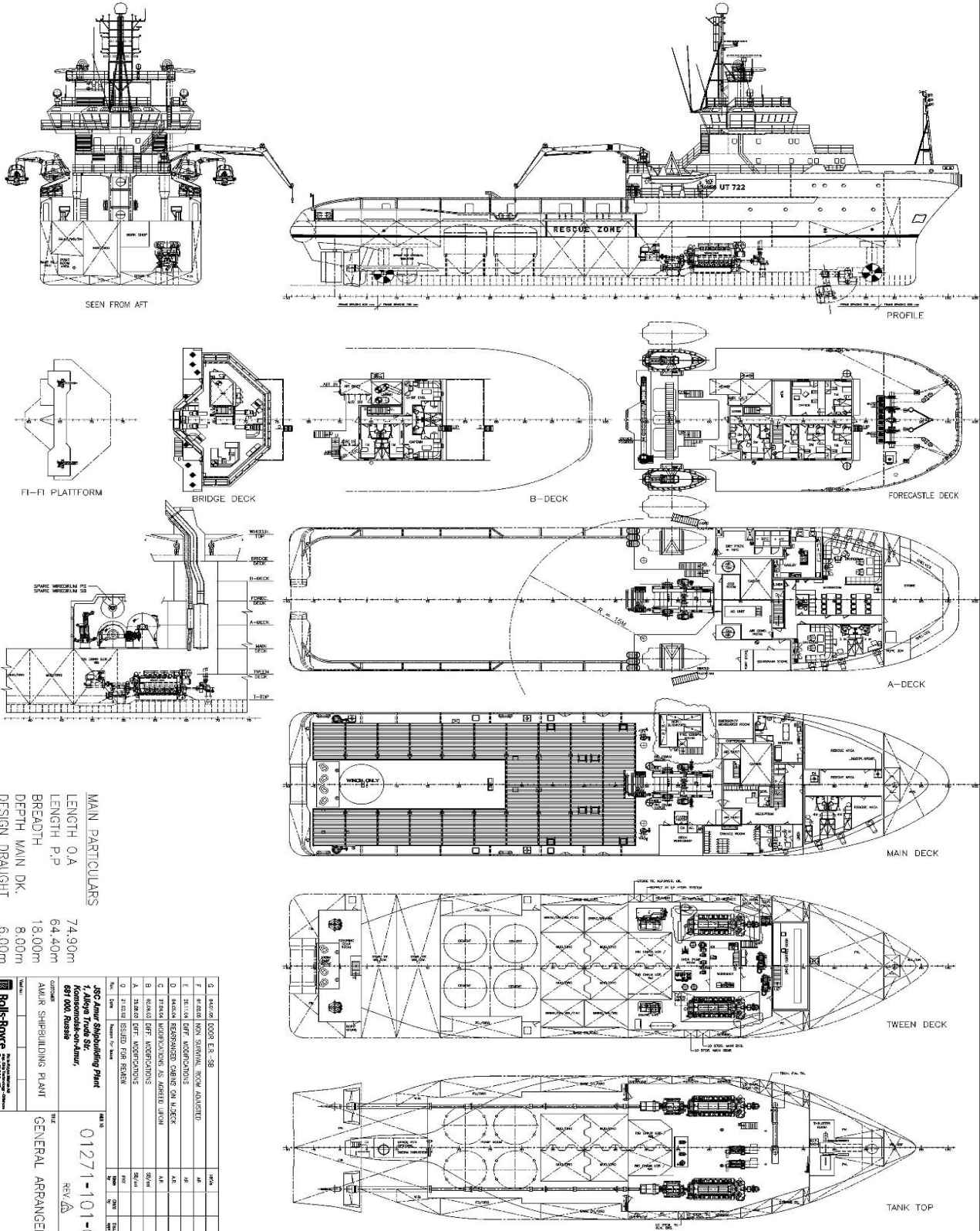
FIFI System	FIFI Class 1
FiFi Monitors	2 x 1200 m3 /hr @ 12 bar, Remote joystick controlled from bridge
FiFi Pumps	1 x 1200 m3 / hr - water; 1 x 300 m3/hr - foam
Fire Extinguishers	UNITOR
Fixed Co2	Covering Engine room, emergency generator room, paint store

Safety equipment

Fast Rescue Boat	FR. FASSMER GMBH & CO, Type FRR 6.5 ID-SF
Life rafts	6 x DSB DEUTSCHE SCHLAUCHBOOT GMBH & CO, Type LR 97 (L), 16 PERSONS EACH

Accommodation - (26 bunks)

4 x 1 berth cabins	4 berths
6 x 2 berth cabins	12 berths
2 x 4 berth cabin	8 berths
1 x Hospital	2 berths



MAIN PARTICULARS

LENGTH O.A. 74.90m
 LENGTH P.P. 64.40m
 BREADTH 18.00m
 DEPTH MAIN DK. 8.00m
 DESIGN DRAUGHT 6.00m
 MAX d (s) approx. 6.60m

NO.	REVISION	DATE	BY	CHKD.	APP.
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 681000, Russia

01271-101-001
 REV. Δ

GENERAL ARRANGEMENT

Rolls-Royce
 AMUR SHIPBUILDING PLANT

UT-design

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