

AHTS



PRINCIPAL PARTICULARS

Length Overall	58.7m
Length Between Perpendicular	53.20 m
Breadth Moulded	14.60 m
Depth Moulded	5.50 m
Draft Moulded	4.50 m
GRT	1450

PERFORMANCE

Maximum Speed	13.5 knots
Towing & Anchor Handling duties	
Transport FO, FW, Blk Cement, Liq.Mud, Stores, Materials & Eqpt	
External Fire Fighting	
Move men and materials between platforms	
Safety & rescue operations	
24 hrs/day continuous operation	

Type of Fuel	Marine Diesel Oil
Fuel Consumption	195.5 g/Kw-hr approx
Bollard Pull	65 tonnes

CARGO CAPACITIES

	Total (no. of tanks)
Deadweight	1500 tonnes
Deck loading	7 mt/m ²
Clear Deck Area	370 m ²
Fuel Oil	475 m ³ (8 x Cargo Tanks, 2 x Day Tanks)
Fresh Water	230 m ³ (3 x Tanks)
Ballast/Drill Water	460 m ³ (10 x tanks)
Liquid Mud	255 m ³ (2 x tanks)
Cement Tank	187.2 m ³ (4 x 46.8 m ³)
Lube Oil / Hyd. Oil	4.6 m ³ (1 x tank) / 3.5 m ³ (1 x tanks)
Foam / Detergent	13.5 m ³ (1 x tank) / 13.5 m ³ (1 x tank)

PUMPS

Fuel Oil	1 x 150 m ³ /hr @ 75 mlc (Azcue)
Fresh Water	1 x 100 m ³ /hr @ 75 mlc (Azcue)
Drill Water/Ballast Water	1 x 100 m ³ /hr @ 75 mlc (Azcue)
Liquid Mud	2 x 70 m ³ /hr @ 75 mlc (Mission)
Bilge/Ballast	2 x 75 m ³ /hr @ 40 mlc (Azcue)
GS / Fire Pump	1 x 75 m ³ /hr @ 40 mlc (Azcue)
Bulk Cement Compressor	2 x 13.2 m ³ /min @ 80 psi (max.) air compressors; Airman

PROPULSION SYSTEM

Main Engines	2 x 2575 bhp Catepillar 3516B HD DITA LA3926
Main Generators	3 x 350 ekW, 415V/3ph/50Hz Caterpillar CAT.C18 DITA Marine Genset
Emergency Generator	1 x 67 ekW, 415V/3ph/50Hz Caterpillar CAT.D5 AT Marine Packaged Genset
Bow Thruster	5.5 tonnes, CPP (Elec Motor Driven) Tunnel Type; Kawasaki-KWJ KT-55B3
Steering Gear	2 x 4.0 Tm - Riq
Propulsion	2 x CPP in Kort Nozzles KH 680
Rudders	2 x high performance streamline 'Trailing Flap' West Marine

DECK EQUIPMENT

Anchor Windlass	1 x electro-hydraulic - Mentrade 9T @ 12m/min, suit' for 40 mm (Ø) chains Grade U2
Bow Anchors	2 x 1305 kg AC-14 high holding power anchors
Chains	440 m (L)/Q2 Stud link with swivel & shackle
Towing/AH Winch	1 x hydraulic driven, double drum waterfall type cw.spooling device for the towing drum
- Towing & AH drum rated pull	1000 m (L) x 56 mm (Ø) SWR @ 10 Layers
- Rated Pull (1st layer)	150 mt @ 0-6 m/min (low speed) 71 mt @ 0-12 m/min (mid speed) 23 mt @ 0-36 m/min (high speed)
- Rated Pull (5th layer)	105 mt @ 0-8.6 m/min (low speed) 49.6 mt @ 0-17 m/min (mid speed) 14 mt @ 0-52 m/min (high speed)
- Rated Pull (10th layer)	76 mt @ 0-11.8 m/min (low speed) 36 mt @ 0-23.6 m/min (mid speed) 10 mt @ 0-71 m/min (high speed)
- Braking capacity	200 mt
Stern Roller	dia 1600mm x L- 5000mm (SWL: 200 mt)
Shark Jaws	SWL 200 mt Hydraulic Shark Jaw - Mac gregor
Tow Pins	200 mt Hydraulic Tow Pin - Mac Gregor
Rope Reel	1 x hydraulic driven, Mentrade Rated Pull : 5 t x 20m/min (1st layer)
Deck crane	3 tons SWL, outreach 2.5-9m

Capstan	2 x 5 t @ 15 m/min electro-hydraulic; Mentrade
Tugger Winch	2 x 10 t @ 15 m/min electro-hydraulic; Cap: 250m x dia22mm SWR @ 6 Layer; Mentrade

ACCOMMODATION

Berths	2 x 1 man cabin = 2 4 x 2 man cabin = 8 8 x 4 man cabin = 32
Total	42
Sick Bay/Hospital	1 x 1 man = 1
All cabins fully air-conditioned & c/w attached toilet w/c all fittings	

RADIO AND NAVIGATION EQUIPMENT

X-Band ARPA Radar	1 set FAR-2117, FURUNO w/c 21" LCD Color Display Unit
X-Band Radar	1 set FR-1942MK2, FURUNO w/c 10" Display Unit
GMDSS RadioSystem	RT-1800, FURUNO 250W Rack console Area A1,A2,A3 Integrated MF/HF, NBDP, DSC/Watch Receiver
INMARSAT C	1 set Felcom-15, FURUNO cw VDU -IC 511,KB -500
VHF	2 set Rt. UK
Navtex Receiver	1 set NX-700B, FURUNO
EPIRB	1 set E5, McMurdo
SART	2 set S4, McMurdo
Two-Way Radio	3 set RT , UK
GPS Navigators	1 set GP-150, FURUNO
AIS	1 set FA-150, FURUNO
Facsimile Receiver	1 set FAX-408, FURUNO
Speed Log	1 set DS-80, FURUNO
Echo Sounder	1 set FE-700, FURUNO
Gyro Compass	2 set GC 80 SIMRAD
PA,Sound Power Tele	Vingtor /CMR
Self poweredtelephone	9 Sts , Vingtor/CMR

FIRE FIGHTING SYSTEM

EXTERNAL(FFS)	
FIFI Sytem	Class 1 with water curtain all round
Fire Pump	2 x 1541 m ³ /hr @ 128 mlc, SFP 250x350 driven by front PTO of M/E
Monitors - (water/foam)	1 x 300-1200 m ³ /hr, @110m 1200 Long barrel FFS
- (water)	1 x 1200 m ³ /hr, FE-200 1200 Long barrel FFE
Oil Dispersant System	Using ODL pump 9.6 cub.m/hr w/c stby GS pump 75 cub.m/hr MI 50 F max 6% two spray booms 6 m length spray booms

INTERNAL

Emergency Fire Pump	1 x 25 m ³ /hr @ 45 mlc (CA 80 15 A - Azcue)
Locker with Fire Man's Outfit	4 sets (as per class requirements)
Portable FIFI Appliances	As per Safety Plan and Fire Control Plan
CO2 system for engine room - Total Flooding Fixed System	
Fire Detection & Alarm System in living spaces & engine room	
Fire Main System with Fire Hydrants and Fire Hoses as per class requirements	

MISCELLANEOUS

Liferafts	4x20+2x25 men Inflatable Type SOLAS Approved
Rescue Boat	1 x 6 men; 4.5m FRP Rescue Boat (speed > 6 knts) w/c 18.6 KW (25 HP) Mercury/Yamaha Engine
Rescue Boat Davit	SOLAS approved type SWL: as per requirements
Life Bouy	total 8 pcs, Various type as per SOLAS
Life Jacket	53 Sets ,SOLAS approved
Immersion Suit	45 sets - SOLAS Approved type
Embarkation Ladder	2 pcs
First Aid Kit	1 pc
Oily Water Separator	1 x 1 m ³ /hr c/w 15 ppm alarm, Jiangsu Nanjing; ZYFM(NJ)
Fresh Water Maker	1 x 5 Ton/day, SLCE
Sewage Treatment Plant	1 x 50 men CAP; Jiangsu Nanji Machinery WCB-50
MSB, ESB	MCA - Yuexin Shipyard
Consoles, DB, Starter Panels	MCA - Yuexin Shipyard
Liquid Mud Agitator	Electric Driven 1/mud tank (Allweiler)
Central Air Conditioning Sys.	Nanjing China
Flood lights	6X sodium halogen type -1000W- francis Germany