

AHT PEGASUS - Technical Data



GENERAL INFORMATION

Built:	MUTZELFEDTWERFT GERMANY
Delivered:	21 march 2009
Flag:	Antigua & Barbuda
Call Sign:	V2ED2
IMO No.:	9433743
Classification:	Germanischer Lloyd + 100 A5 E2 Deep Sea Tug Boat (Area-A4) + MC E2 AUT, FF1

DIMENSIONS

Length, Overall:	48,81 m
Length, BP:	42,00 m
Breadth, Overall:	14,06 m
Breadth, Molded:	13,80 m
Depth, Main Deck:	07,00 m
Design draft:	5,20 m
Maximum Draft Midship:	6,00 m
GT:	1262 t
NT:	378 t

PERFORMANCE

Speed / Fuel Consumption:	Standby - max.speed 4 knots, aprox. consumption is 8-8.5 t/day
In Port:	0.5 t/day of MGO
Full Sea Speed Consumption:	At 2 Eng 14.5 knots approx. 26 t/day
Economical Speed Consumption:	At 2 Eng configuration 12.5 Knots approx. 16 t/day
Consumption Under Towing:	16 - 26 t/day depending on Tow conditions

MACHINERY

Main Engines:	2 x 2970 kW (MAK-9M25C), Max power 5.940 kW at 750 rpm (total 7965.7 bhp)
Propulsion:	2 x controllable pitch propeller, Diameter 2 x 3.200 mm in HR nozzles, Gearboxes 2 x Reintjes
Bow Thrusters:	electric driven 400kW Jastram
Shaft Generators:	2 x AEM, 640 kW, 800 kVA each, 440V, 60 Hz
Auxiliary Generators:	1 x CAT 3412C, 500kW, 903A, 400V, 50 Hz
Emergency Generators:	86 kW CAT C4.4
Rudders	2 x flap type high performance rudders

CAPACITIES

Deadweight (maximum):	1008,45 mt (aprx.)
Deadweight (design):	576.4 mt (aprx.)
Clear Deck Area:	13.9 m. x 7.1 to 9 m. (aprox. 115 m2)
Deck Strength:	60.5 x10 mt/m2 and 54.5 x 15 mt/m2
Deck Cargo:	150 t (aprx. - when CoG at 0.9 m above deck)
Fuel:	HFO Capacity: 476 cbm MGO Capacity: 228 cbm MGO Capacity for SECA Zone (with HFO tanks cleaned for MGO): 704 cbm
Sludge	16.6 cbm
Oily Bilge Capacity	11.68 cbm
Potable Water:	77.58 cbm
Ballast Water:	155.39 cbm
Ship's Stores:	Independent Freezers (-25 deg.C)-aprx. 9.2 m3 Cold Chambers (+4 deg. C) - aprx. 9.2 m3
Cold Room:	Aprx. 12 m3 (aprx.)
Provisions store:	

TOWING AND ANCHOR HANDLING

Bollard Pull:	104.0 max.
Main Winch:	HATLAPA Electrically Driven Double Drum Towing Winch 1000/2500 kN
Pull :	1000 kN 1 st Layer
Brake holding load:	2500 kN 1 st Layer
Tow Drum Dimension:	Dia. 900 / 2600 mm Length 2020 mm
Tow Drum Wire Capacity:	1200 m steel wire rope, 64 mm dia., in 9 layers Speed 0-15 m/min 1st layer Slack hawser 0-45 m/min 1st layer
Main Tow Wire	1200m x64mm MBL 301T
Spare Tow Wire	800m x 71mm MBL 3726kN
AH Drum Dimensions	Dia. 900 / 2600 mm Length 2020 mm
AH Drum Wire Capacity:	1200 m steel wire rope, 64 mm dia., in 9 layers Speed 0-15 m/min 1st layer Slack hawser 0-45 m/min 1st layer
Storage Winch Dimension:	HATLAPA storage winch Drum dia. 750/2100 mm 3000mm Long.
Storage Winch Capacity:	1600 m steel wire rope, dia 70 mm in 9 layers; nominal pull and speed - 100 kN at 15 m/min, 50 kN at 30

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	m/min. Brake holding load - 160 kN Minimum breaking load of rope - 200 kN.
Chain Gypsy Cable Lifter:	N/A
Rig Chain Locker:	N/A
Pop Up Quarter Pins:	2 x
Anchor Recovery Frame:	N/A
Stern Roller:	250 t SWL, 3,00 m length, 2,00 m Ø
Tow Pins / Guide Pins:	Karmoy, 300 t SWL
Gog arrangement:	Fixed

DECK MACHINERY

Tuggers:	2 x 10 t, 22mm wire each Locally, bridge, control. DRUM 450/850 mm DIA X 550mm L; nominal pull 100 kN(1 st layer); nominal speed 5/15 m/min; break holding load 180 kN(1st layer)
Capstans:	N/A
Windlass:	2 x HATLAPA combined anchor mooring winch. Chain 34mm K2; number of cable lifters - 2; Pull breaking loose anchor 111 kN (short time); nominal pull 74 kN; Nominal speed 5/15 m/min; break holding load 524 kN.
Bow Mooring:	See Windlass
Smit Towing Bracket:	100 t
Crane Capacity:	PALFINGER PK 65002 M Hydraulic crane 2,8 t SWL at 14m

ELECTRONICS

Main Radar:	2 x Sam Electronics, RADARPILOT 1100, ARPA
ECDIS	SAM ELECTRONICS, CM-93/3 Pro
Auto Pilot:	ANSCHUTZ, Nauto pilot 2025
Gyro Compass:	ANSCHUTZ, STD 22
Magnetic Compass:	Cassens&Plath GmbH, REFLECTA/1
Echo Sounder:	SAM ELECTRONICS, DEBEG 4630
DGPS:	SAM ELECTRONICS, SATLOG DEBEG 4100
Anemometer:	THIES CLIMA
Speed Log:	SAM ELECTRONICS, 4900
Communications:	GMDSS equipment A1+A2+A3+A4 GMDSS MF/HF Radio x 2 GMDSS VHF Radio x 3 Portable VHF x 2 Portable VHF Radio GMDSS x 3 INMARSAT-C IMARSAT-F (FB500) SART x 2 EPIRB Navtex Fax Email Telex All modern nautical equipment to highest standard
Weather Fax:	SAM ELECTRONICS, DEBEG 2952

DYNAMIC POSITIONING

Joystick:	Joystick Schottel Masterstick
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EXTERNAL FIRE FIGHTING

Capacity:	2 x FFS 1200cbm/h FSB Monitors
Throw Length:	120 m
Throw Height:	50m

STANDBY RESCUE EQUIPMENT

1 x MOB boat ZODIAC RIBO 420 with 40 HP outboard propeller engine. Max. speed including 6 persons 12 knots, with boat davit for quick launch & recovery.
Rescue zone on both Port and starboard side Main Deck

ACCOMMODATION

Total Capacity 18 persons
officer single berth cabins 7
crew single berth cabins 4
crew double berth cabins 3
Hospital 1

ENVIRONMENTAL FEATURES

Oily water separator according IMO MEPC 107(49), "OILCHIEF" with 15 ppm alarm monitor OMD type; capacity - 0.5 cbm/h
Biological Sewage Treatment Plant according IMO MEPC 159(55), "BIOMASTER". Hydraulic load - 3.7 cbm/day
Stern Roller fitted with environmental friendly grease system.

MISCELLANEOUS

Deck strengthened for heavy cargoes 10, 15 t/m ² .
Wood sheeted main deck except for aft area which is steel plated for anchor handling activities.
CCTV monitoring system for winches and deck.
Fitted with 4 remote cameras in winch/deck areas for anchor-handling/towing/mooring operations with TV monitor in wheelhouse
Fitted with 3 Halogen searchlights, each 2,000 W, wheelhouse top and electrically operated from inside wheelhouse, 2 x 500 W flood-lights, for cargo deck
Welding and cutting equipment and lathe in workshop
Fresh water ultra violet sterilizer
Fire fighting pump 2 x 1500 cbm / h each at 16 bar
Fire detection system fitted to the bridge, accommodation, engine room and emergency generator spaces
CO2 fire extinguishing system fitted in the engine room , ECR: CO2 fire extinguishing galley
Statutory life rafts, life-jackets, immersion suits, pyrotechnics
Salvage Equipment 2 portable diesel-driven salvage pumps Workboat with 40 bhp outboard engine

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