



AHTS STRATIS Z – Specifications

5150 BHP, 59m, 65T BP, DP1, FIFI 1

ABOUT

The AHTS Stratis Z is a KCM 59M AHTS design, built in 2007 by Fujian Southeast Shipbuilding, China, and classed by NKK as an Anchor Handling Tug Supply and Towing Vessel with DPS1 notation.

Powered by twin MAK main engines delivering a total of 5,150 BHP (3,840 kW) and a bollard pull of 65 tonnes, she combines anchor handling, towing and supply capability with a 340 m² clear cargo deck and liquid mud, brine and bulk cement capacity.

The vessel is classed Fire Fighting Ship 1, with two 1,200 m³/h water monitors and foam capability, and her DP1 system was upgraded with an MT Bridgemate installation in October 2024.

KEY FEATURES

NKK Classed AHTS – Towing Vessel

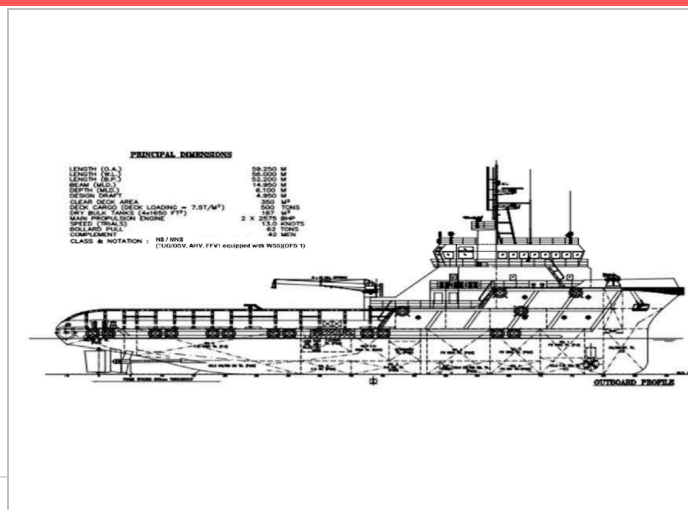
65T Bollard Pull

Fire Fighting Ship – FIFI Class 1

Accommodation for 42 persons

150t pull first layer, 200t brake holding load

DP Class 1 – MT Bridgemate (2024)



STRATIS Z

DESIGN	KCM 59M AHTS
CLASSIFICATION	NKK — NK, +100 A1, AHTS, TOWING VESSEL, DPS1, FIRE FIGHTING SHIP 1, +LMC
BUILDERS	FUJIAN SOUTHEAST SHIPBUILDING - CHINA
PORT OF REG.	LIMASSOL
FLAG	CYPRUS
IMO NO	9425576
YEAR BUILT	2007
CALL SIGN	5BJT6

MEASUREMENTS

LENGTH O.A.	59.25 m
BREADTH MOULDED	14.95 m
DEPTH MOULDED	6.10 m
DESIGN DRAFT	4.95 m
GROSS TONNAGE	1678
NET TONNAGE	503
DWT AT MAX DRAFT	1385 t.

PERFORMANCE / CONSUMPTION

BOLLARD PULL	65 t
AT 100% MCR	12 knots / 15 m3 / day
AT 85% MCR	10 knots / 11 m3 / day
ECONOMIC SPEED	9 knots / 8.5 m3 / day
TYPE OF FUEL	MGO

ACCOMMODATION 42 PERSONS

CABINS	4 x single cabins 3 x 2-men cabins 8 x 4-men cabins	AIR CONDITIONING	Fully
MESS / DAY ROOMS	2 off	OFFICE	1 off
GALLEY	Yes	HOSPITAL	1 off
LAUNDRY	Yes	PROVISION ROOMS / STORES	Yes

CARGO CAPACITIES

DECK AREA		28m x 12m = 340 m ²
DECK STRENGTH		5.0 t/m ²
DECK CARGO		800 t. @ 0.9 m above deck
FUEL OIL		955 m ³
FRESH WATER		360 m ³
DRILL / BALLAST WATER		400 m ³
LIQUID MUD / BRINE	SG 2.5	418 m ³
BULK CEMENT	SG 1.35	187 m ³ : 4 tanks
DISPERSANT		14 m ³
FOAM		14 m ³
AGITATORS		In all liquid mud tanks, with circulation

DISCHARGE RATES

FUEL OIL		1 x 150 m ³ /h at 75 m
FRESH WATER		1 x 100 m ³ /h at 75 m
DRILL / BALLAST WATER		1 x 100 m ³ /h at 75 m
LIQUID MUD / BRINE		1 x 75 m ³ /h at 75 m
BULK CEMENT		2 air compressors – 2 x 13 m ³ / min, 5.6 bar

MACHINERY/PROPULSION

MAIN ENGINES	2 x MAK, Total 5150 BHP / 3840 kW
AUXILIARY GENERATORS	3 x 315 kVA @ 1500 rpm, 3x 415V 50 Hz
EMERGENCY GENERATOR	1 x 52 kVA @ 1500 rpm, 1x 415V 50 Hz
BOW THRUSTER	1 x 315 kW tunnel, electrically driven CPP

PROPELLERS / STEERING

2 X BERG CONTROLLABLE PITCH
PROPELLERS IN KORT NOZZLES, DIAMETER
2650 MM

2 X ULSTEIN HIGH LIFT FLAP TYPE RUDDERS

DP/JOYSTICK CONTROL

DP1 – MT BRIDGEMATE	Installed Oct. 2024, with IJS
2 OFF MRU	
2 OFF WIND SENSORS	
2 OFF GYRO	
2 OFF DGPS	Veripos LD900

FIRE FIGHTING / SPECIAL EQUIPMENT

FIRE FIGHTING CLASS	FIFI Class 1
WATER MONITORS	2 x 1,200 m3/h at 12 bar foam capacity 300 m3/h
FIFI PUMPS	2 x 1,400 m3/h at 14 bar each with deluge system
WATER MAKER	1 x 3 t / day

ANCHOR HANDLING EQUIPMENT CAPACITY

1 X KARMOY HYDRAULIC LOW PRESSURE WINCH	150 t pull / 200 t brake
2 DECLUTCHABLE DRUMS IN WATERFALL ARRANGEMENT	
DRUM SIZE (EACH DRUM)	Dia. 900 / 2,090 mm x 1,800 mm length
DRUM CAPACITY (EACH DRUM)	1,000 m of 52 mm steel wire rope
RATED PULL	150 t on 1st layer at 0-8.4 m/min
BRAKE HOLDING LOAD	200 t on 1st layer
SPOOLING DEVICE	Combined for both drums
1 X STORAGE WIRE REEL: HYDRAULIC UNIT, 1 DRUM	12 t pull @ 1st layer at 0-18 m/min
STORAGE WIRE REEL CAPACITY	1,000 m of 52 mm wire
2 SETS SHARK JAW	200 t SWL each
1 PAIR TOWING PINS: VERTICAL / RETRACTABLE TYPE	200 t SWL
1 X STERN ROLLER: L 4000 MM X D 1600 MM	200 t SWL

MOORING & DECK EQUIPMENT

TUGGER WINCHES	2 x 10 t at 25 m/min
CAPSTANS	2 x 10 t at 14 m/min
DECK CRANE	3 t at 9 m

NAVIGATION EQUIPMENT

RADAR	2 off	GYRO COMPASS	1 off
MAGNETIC COMPASS	1 off	DIGITAL ECHO SOUNDER	1 off
SPEED LOG	1 off	GPS	1 off
AUTOPILOT SYSTEM	1 off	ECDIS	ECDIS 4000

COMMUNICATION EQUIPMENT

GMDSS AREA A3	Compliant	SSB DUPLEX DSC	1 off
INMARSAT C	2 off	INMARSAT F	1 off
VHF	2 off	IRIDIUM SYSTEM	1 off
EPIRB	Yes	SART	Yes
NAVTEX	Yes	INTERCOM (EACH ROOM)	Yes
E-MAIL	Yes	NEXUS WAVE	Yes

GENERAL ARRANGEMENT

PRINCIPAL DIMENSIONS

LENGTH (O.A.)	59.250 M
LENGTH (W.L.)	56.000 M
LENGTH (B.P.)	52.200 M
BEAM (M.L.D.)	14.950 M
DEPTH (M.L.D.)	6.100 M
DESIGN DRAFT	4.950 M
CLEAR DECK AREA	350 M ²
DECK CARGO (DECK LOADING = 7.5T/M ²)	500 TONS
DRY BULK TANKS (4x1650 FT ³)	187 M ³
MAIN PROPULSION ENGINE	2 X 2575 SHP
SPEED (TRIALS)	13.0 KNOTS
BOLLARD PULL	62 TONS
COMPLEMENT	42 MEN
CLASS & NOTATION :	NS / MNS
	(TUG/OSV, AHV, FFV1 equipped with W55)(DPS 1)

