



AHTS CAPTAIN NICHOLAS Z – Specifications

15000 BHP, 86m, 175T BP, DP2, FIFI 1

ABOUT

The multi-functional AHTS Captain Nicholas Z is a Rolls-Royce UT720 design, retrofit 2024, with an estimated bollard pull of 187 tonnes, designed to ensure high quality anchor handling capabilities in demanding offshore environments, and one with as little environmental impact as possible.

A powerful deepwater anchor handler that also has full supply capability and excellent standby rescue capacity. In addition, the ship is equipped for firefighting, rescue, oil recovery and ROV operations.

KEY FEATURES

- DNV/GL Classed AHTS
- 175T continuous Bollard Pull
- FIFI Class 1
- Accommodation for 26 persons
- 250t pull first layer, 350t brake capacity
- Dynamic Positioning Class 2 – New DP System



CAPTAIN NICHOLAS Z

DESIGN	UT 720
CLASSIFICATION	1A1 Fire fighter(I) Supply vessel Tug DPS(2) E0 SF
BUILDERS	JSC "AMUR SHIPBUILDING PLANT"
PORT OF REG.	RIO DE JANEIRO
FLAG	BRAZIL
MMSI	710006848
IMO NO	9334179
DELIVERY DATE	JUNE 2008
CALL SIGN	PU8318

MEASUREMENTS

LENGTH O.A.	74.90 m
LENGTH B.P.P	64.40 m
BREATH MOULDED	18.00 m
DEPTH MOULDED	8.00 m
DESIGN DRAFT	6.00 m
DRAUGHT, MAX.	6.60 m
FREEBOARD, MIN	1.15 m
CORRESPONDING DWT	3214
GROSS TONNAGE	3063
NET TONNAGE	918
LIGHTSHIP	2737.43 T

PERFORMANCE / CONSUMPTION

BOLLARD PULL	175 t
MAX. SPEED	14 knots
SPEED FULLY LOADED	13 knots / 31 t / day
ECON SPEED FULLY LOADED	10 knots / 20 t / day
AH OPERATIONS	20 t / day
DP OPERATIONS	19-24 t / day
HARBOUR MODE	1 t / day

ACCOMMODATION 33 PERSONS

CABINS	6 x single cabins 6 x 2-men cabins 2 x 4-men cabins	CONFERENCE ROOM	1 off
DAYROOM	1 off	GYMNASIUM	1 off
SKY LOBBY / DAYROOM	1 off	RESCUE ROOM	For 22 persons
DAYROOM FOR SMOKERS	1 off	HOSPITAL CAPACITY	1 Bed
DIRTY MESS	1 off	COOL STORE / FREEZER	Yes

CARGO CAPACITIES

DECK CARGO	2348 t.
DECK AREA MAX	33.75m x 15.85m = 534 m2
DECK STRENGTH	10 t/m2 at Aft
FUEL OIL	950 m3
LIQUID MUD	4 tanks 568.4 m3
BRINE	4 tanks 283.6 m3
BASE OIL	305.2 m3
POT WATER	773.6 m3
BALLAST / DRILL WATER	947.7 m3 / 1205.3 m3
SPECIAL PRODUCT	271 m3
DRY BULK	4 tanks 282 m3
ROLL DAMPING SYSTEM	2 x Roll Reduction tanks
ORO	8 tanks 1174 m3
FREEZER ROOM	5.2 m3
CHILLER ROOM	7.2 m3
CARGO MANIFOLDS	Main deck: Midship both side Main deck: Aft both side
AGITATORS	In all Mud tanks
REEFER CONNECTIONS	Refer Connection on Deck 4 Nos Sockets provided on deck for refrigerated containers, DETAILS:-380 volts,50 hz,3phase,4 pin(3p+1), Make-Mennekens.,16amps X 1 no,32amps X 2 nos,63amps X 1 no

DISCHARGE RATES

FUEL / ORO	Allweiler X 250 m3@9 bar
FUEL/BASE OIL	Allweiler X 250 m3@9 bar
MUD / ORO	2 X Allweiler X 75 m3@18 bar
BRINE	1 X Allweiler X 75 m3@9 bar
BASE OIL/FUEL	1 X Allweiler X 100 m3@9 bar
POTABLE WATER	Allweiler X 150 m3@9 bar
BALLAST / DRILL	Allweiler X 250 m3@9 bar
BALLAST / ORO	Allweiler X 250 m3@9 bar
DRY BULK	02 Bulk Compressors

MISCELLANEOUS

SEWAGE TREATMENT PLANT IRTUS GMBH, EVAC VACCUM SEWAGE SYSTEM, 18 PERSONS

VESSEL FITTED WITH PASSIVE ROLL DAMPING SYSTEM THROUGH TWO ROLL REDUCTION TANKS

MACHINERY/PROPULSION

MAIN ENGINES & PROPULSION AFT	2 x 7500 bhp Wartsila, Type : W 12V32 Diesel Engines, Total 15000 BHP, (2 x 5520 KW)
AUXILIARY GENERATORS	2 x 500 KW Caterpillar
MAIN GENERATORS	2 x 1900 KW ABB
EMERGENCY GENERATOR	1 x 160KW, Caterpillar, C9
BOW THRUSTER	1 x 883 KW RR type 375 TV
AZIMUTH THRUSTER BOW	1 x 883 KW RR type TCNS 73/50 - 180, VROS
STERN THRUSTER	1 x 883 KW RR type 375 TV
PROPELLERS	2 x Kamewa Ulstein, CPP in Kort Nozzles
RUDDERS	2 x Ulstein High Lift rudders

DYNAMIC POSITIONING SYSTEM

DP SYSTEM TYPE	DP-2 system Complying with DP(2) requirements
REFERENCE SYSTEMS:	2 x Gyros, 1 x Wind Sensors, 1 x VRU, 1 x DGPS, CYSCAN, Furuno Seastar

FIFI FIGHTING:

PUMP	2 Main Engine PTO driven x 1600m ³ /hr @ 140mlc
MONITORS	2 monitors located on wheelhouse top
FOAM TANK	NA
DISPERSANT TANK	18.8M ³
DISPERSANT BOOMS	2 Portable booms on Forecastle deck
DISPERSANT SYSTEM / NOZZLES	1 No, AYLES FERNI, 5 Roller Pump, Model CP2-Hypro , Capacity- 45 gallons/min, Pressure- 200 ps

DECK EQUIPMENT:

TUGGER WINCHES	2 x Max pull 12 Tons , 100 M X 26 mm wire
CAPSTANS	2 Nos, BRATTVAAG, LCM4110,10 T
DECK CRANE	TTS MARINE ASA, SWL 3T, Max Load: 3T@15m

ANCHOR HANDLING EQUIPMENT CAPACITY

BOLLARD PULL	187.7 Tonnes
AHT WINCH	Brattvag, 250 Tons , Double Drum, reversed waterfall type Anchor handling winch , type SL 250W/BSL250W
DECLUTCHABLE DRUMS	02 Nos
LINE PULL	243 tonnes at 0-10.9 m/min(double drive hoist) at First Layer
BRAKES	Brattvaag,Band Brake Hydraulically controlled, 350 tonnes at first layer
DRUM SIZE	1500 mm x 2850 mm x 2500 mm
WIRE CAPACITY	592m of 136mm dia wire or 1469m x 87mm dia wire
RIG CHAIN	Size of chain 76 mm
CONTROL	Wheel House and Local
STORAGE WIRE REELS	2 x Type Rauma Brattvaag AIM 13220
SHARK JAW	2 Sets SWL 750 Tonnes each
TOWING PINS	2 Sets (4 Pins) SWL 330 Tonnes each Pin
STERN ROLLER	1 x 5000 mm, dia 2700 mm, design for download pull of 500 T
RIG CHAIN GYPSY	2 x 3 inches(76mm)
RIG CHAIN	Size of chain 76 mm, Chain locker capacity 2 x 128.8 m3
RIG CHAIN LOCKER	2 x 128.8 m3

ANCHOR & MOORING

WINDLASS	
ANCHORS	2, Type SPEK , Weight 2.83 Tonnes
CABLES	2, 46 MM 22 SHACKLES EACH
MOORING DRUM	2,400MM DIA/DIA 1250 X 1000MM
WARPING DRUM	2,500MM X 500MM
OLD MAN / MOORING ROLLERS	4 NOS ON FOXLE DK AND 2 NOS ON MAIN DECK
FAIR / PANAMA LEADS	3 Nos on Foxle Dk,
BITTS / BOLLARDS / BOW STOPPERS	4 SETS ON MAIN DK, BOW STOPPERS 2 ON FOC'LE DECK

NAVIGATION & COMMUNICATION

RADARS	2 Nos X-Band Furuno, FAR 2117 S- Band FAR 2137S
GPS	2 Nos ,Furuno, GP 150
ECHOSOUNDER	1 No , Furuno, FE 700
AUTOPILOT	1 No , Robertson, AP9MK3
GYRO COMPASS	2 Nos , Yokogawa, MED-B-793
SPEED LOG	1 No , JRC, JLN 550
NAVTEX	1 No , JRC, NCR 333
SSB	1 No , JRC, JSB 196GM
GMDSS AREA COVERAGE	Area A1, A2 & A3
INMARSAT	1 No , Fleet 77 , Sailor
VHF/DSC	2 Nos , JRC, JHS 32 B
ANEMOMETER	1 No , Gill, 1390 PS 004
P.A. SYSTEM	1 No , Steenhans, SPA M4 SAR
VDR / SVDR	1 NO Totem Plus 20075.
FIRE FIGHTING & LIFE SAVING	As Per SOLAS