

AFRICAN PIONEER

SPECIFICATION SHEET





The vessel is designed according to the class notation “Clean Design” & SPS Code, with high focus to low fuel consumption and reduced emissions to the environment. FO tank arrangement according to “Clean Design” and MARPOL oil fuel tank protection.

The vessel is designed to fulfil following duties: ROV and seabed construction work.

The vessel is DP3 Multipurpose Offshore Support Vessel available for deployment worldwide.



Length o.a.	142.90 m
Length b.p.p.	132.60 m
Breadth mld.	27m
Depth main deck	11m
Depth shelter deck	14.30 m
Max.draft swl	8.00 m
Work deck area(total)	~2,150 m2
Capt. Deck	650 m2 @ 2 t/m2
Main deck	~ 1,500 m2 @ 10 t/m2 removable bulwarks each sides
Fresh water	-980 m3
Fuel oil	-2,900 m3
Water ballast	~9,000 m3
Anti Heeling	1,700 m3
Ilubricating	80 m3
Misc.tanks	60 m3
Gross tonnage	17,070 t
Net tonnage	5,122 t
Deadweight approx	Max. 8,770 t (Inclusive of Cranes, ROV&LARS Arrangement Equipment and SAT Dive System equipment)

CLASS/AUTHORITIES

DNVGL +1A1, E0, SPS, DSV-SAT, Diving System-SAT, NAUT OSV(A), CLEAN DESIGN, DYNPOS AUTRO, COMF-C(3) V(3), ICE C, CRANE, HELDK-SHf, DK(+), BIS, Winterized Basic
Flag: BAHAMAS

MAIN MACHINERY & THRUSTERS

Main generators:	6* 3230ekW = 19,380ekW
Wartsila 6L32	
Emerg.dive gen.:(min.)	1* 1,230 ekW
Emergency ship gen	1* 910 ekW
Bow tunnel thruster	2* 1,935 kW
Aft tunnel thruster	2* 1,170 kW
Bow azimuth thruster (retractable)	2* 1,500 kW
Bow azimuth thruster SB/PS	2* 3,250 kW

MAIN DECK MACHINERY

Main Crane	1* 400 t @ 20.5 m Fully electric AHC Offshore Mast crane (offshore lift) Dual fall with wire capacity for 1500m lifting height Single fall down to 3000m water depth arranged with personal lifting and remote diagnostics access
Auxiliary Crane	1x 40 t@15m radius (Subsea) AHC knuckle boom crane, with wire capacity for 600 m lifting height arr with personal lifting and remote access
Deck cranes	2* 5 t @ 15m radius
Tugger winches	4*15 t

PERFORM CAPACITY

Max speed approx	13 knots
Normal transit speed approx	11-12 knots
Fuel autonomy.	120 days

CONSUMPTION

Speed 10 kn..	~16-20 t/day
Econ transit 11 kn.	~14 t/day
DP operatons	~8-11 t/day
Port	~3-5 t/day

ACCOMODATION

Accommodation for 140 persons, 38 x 1 man cabins and 51 x2 men cabins

Mess room 88 seating capacity.

Full A/C and TV/Satellite service in all cabins, mess rooms, control rooms and offices.

Tween deck :

Diving equipment room, switchboard room, Depth main deck 11.00 m machine repair room

Main deck :

Twin air dive spread, sat control room, diver suit dry, divers laundry, coffee shop, pantry, toilet x8, wardrobe, locker room, female wardrobe, coffee shop, hospital, ward, store, laundry, laundry dirty clothes, engine control room, gymnasium, linen, medic rest room, garbage store, provision trunk/lift, Incinerator.

Shelter deck :

Dive control room, tech room, provision; dry, cool, freeze (meat/fish), galley, bakery, scullery, rest room for galley personnel, mess room, 3 off dayroom, internet café, toilet x9, reception, broom closet, bonded store.

Forecastle deck :

Instrument room, cabins, bell drive rooms, conference room.

Boat deck :

Office x9, linen, laundry, cabins, server/archive, ROV Control Room, Conf. room

Captain deck :

Cabins client/offices, linen store x2, laundry, broom closet, instr. room.

Bridge deck :

Ship Office, Main Conference room Lounge x2, Tech. Library, ICT/Server room, Toilet x3, Instrument room PS/SB, Office, DP3 Emergency Control Station, AC room.

Wheelhouse deck:

Manoeuvring consoles Fw/Aft Radio station, Survey area, Office, Toilet.

Top of wheelhouse deck :

Reception/TV room Toilet, Store/firestation, store x2, Helisuits.

WORKSHOPS & SERVICES

Engine work shop, deck workshop/store, deck store, paint store, ROV workshop store, incinerator room, compactor, food waste machinate, cargo hold c/w hydraulic operated load bearing deck hatch (3x3m), deck store.

MOON POOLS

2x moon pool for twin bell SAT dive system, with damping zones 1x moon pool 7.2 x 7.2m, with damping zones

DIVING SYSTEM (Not Commissioned)

24 man double bell saturation diving system, depth down to 300 meters. The cabin can accommodate 4 x 6 people. Hyperbaric oxygen lifeboat 2* 24 people.

HELIDECK

Construction. 22 m diameter. Load capability, For Sikorsky S92, Class HELDK-SH, Stern azimuth thruster: IMO regulations and UK Civil Aviation Authorities CAP 437, Rated 12.8t.

ROVs

Provision of Two (2) WROVs inclusive of LARS, Storage Area, Side hinged Doors

ELECTRICAL PACKAGE

ABB with OCTOPUS Weather monitoring system, Remote Diagnostic system

DYNAMIC POSITIONING SYSTEM, IAS

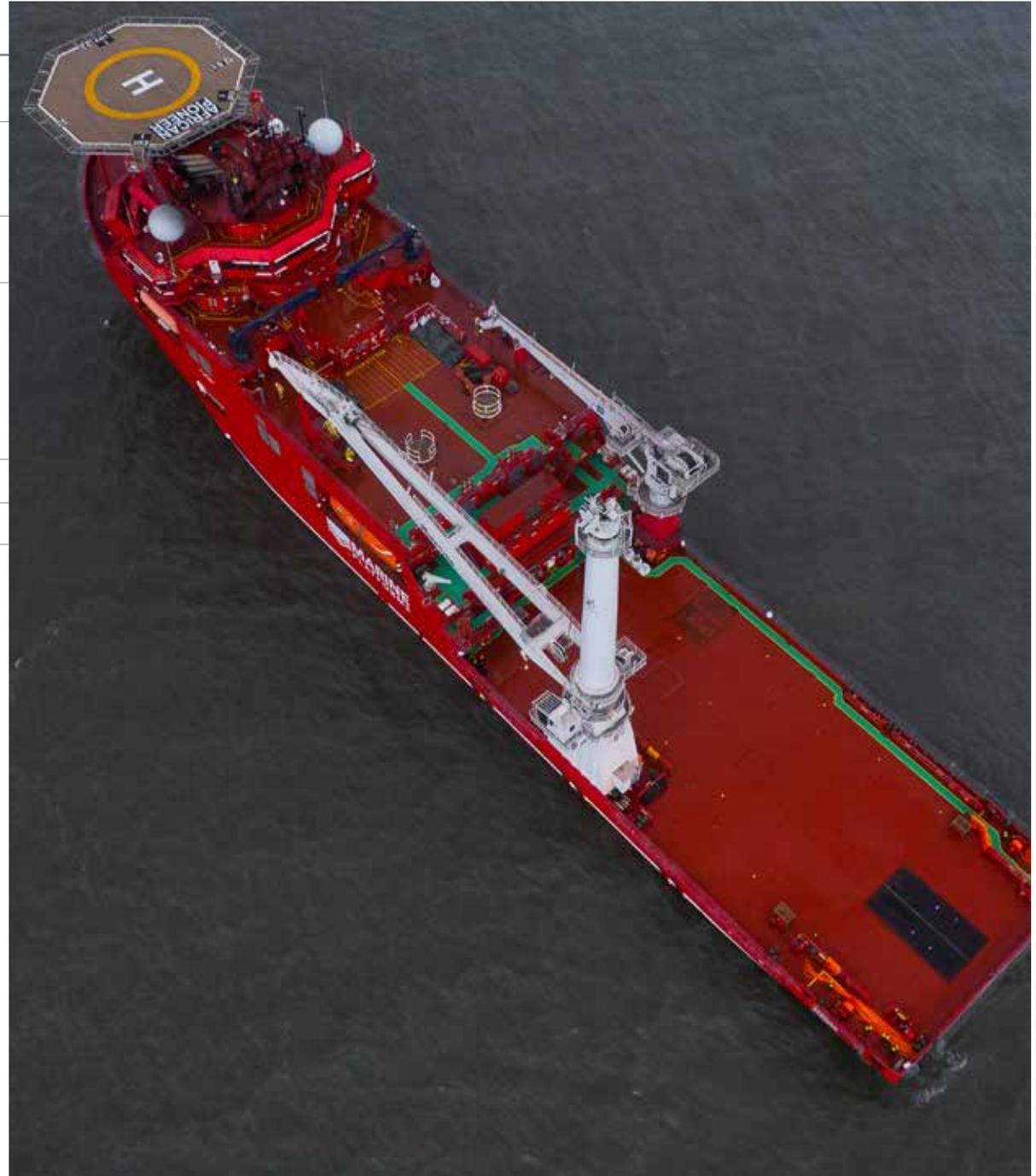
DP Class 3, DNVGL AUTRO K-Master Work stations, K-Pos DP22 DP system, K-Pos DP12 BU Class 3 Backup DP, C-Joy Independent Joystick System, K-Thrust

Remote Control System, K-Chief 700 Integrated Automation System, HMS 100

Helideck Monitoring System, K-Bridge Integrated Navigation System, Bridge/Back-up Room/ECR Consoles, K-IMS

REFERENCE SYSTEM

Gyrocompass	3*Anschütz Standard 22 Gyrocompass with switch-over and repeaters
Wind Sensor	2*Gill Ultrasonic Wind Sensor Normal transit speed approx. 11-12 knots 1*OMC-160 Wind Sensor
Diff-Pos System	3*Kongsberg MRV-5 1*Kongsberg DPS-700
Position Reference System	2*C-Nav 3050 G DGPS 1*Kongsberg HiPAP 502 1*Kongsberg HiPAP 602 2*Spot Track Position Reference System 1*CyScan Position Reference System 2* Mk 15/B Taut Wire System (500m)



COMMUNICATION SYSTEMS

GMDSS A3 radio station, lifeboat transmitters / emerg. equipment, VHF & UHF, digital communication, navigation/video screen, intercom/Tel/PA system, SPT,
Loudhailer system, CCTV system, VSAT C band,
internet, Sailor 77 Fleet Broadband.

CONTROL ROOMS

Engine control room on main deck, ROV & data controlroom (inspection/survey) on same deck level.

LIFE SAVING APPLIANCES

Davit launched lifeboat 2 off 70 persons
life boat acc. to the SPS rule requirements
Life rafts According to rules
Hyperbaric life boat: 2 off 24 Pers. Capacity

AVAILABLE DECK SERVICE

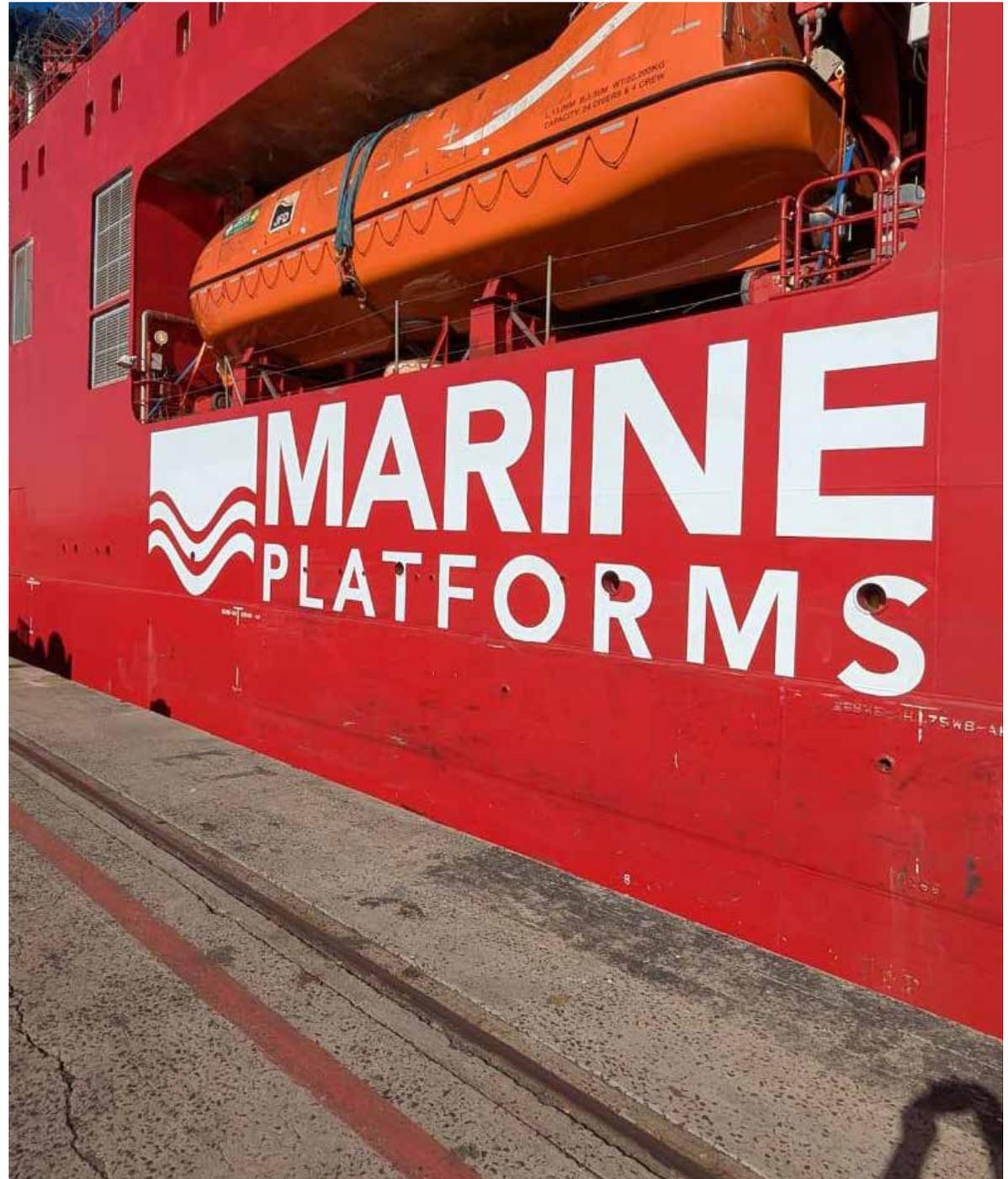
Fresh/technical water, compressed air, electrical power take offs, plug & play communication, seawater cooling for ROVs and other project deck equipment, protected by bumper bars etc.

SUBSEA INSTALLATION A-FRAME 150T

Lifting Capacity: SWL 150t, Hydraulic, Portable
Remote Control Device
Outreach: 4m
Docking Head and Winch: SWL 80t
Tilt Angle: -25° ~ $+50^{\circ}$
Height Clearance: ~20m
Width Clearance: ~12.46m

SUBSEA INSTALLATION A-FRAME & WINCH 9T

A-Frame:
Lifting Capacity: SWL 7t, Hydraulic, Portable Remote
Control Device
Outreach: 4.5m
Tilt Angle: -20° ~ $+40^{\circ}$
Height Clearance: ~9m
Width Clearance: ~5m
Winch:
Max. Load: 90kN at Top Layer



MT
MT6027

