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A purpose-built DNV Classed DP2 DSV with diesel-electric propulsion which was delivered in May 2010. The vessel features a fully built-in and classed 18-man single bell saturation diving system rated to 300m water depth, including a self-propelled hyperbaric lifeboat, and is designed for working in harsh environmental conditions.

Dive gas storage cylinders are located below main deck level, leaving all back deck space for project equipment.

A 100t active heave-compensated knuckle-boom crane enables the vessel to perform light construction operations.

DNV Class notation includes CLEAN DESIGN (strict environmental standards) and COMFORT CLASS (on board levels of noise and vibration in compliance with international standards). The vessel is equipped with numerous offices, a conference room, a hospital, a gymnasium, recreation rooms, an internet lounge, a cinema and a sauna.

Accommodation comprises 86 berths, and all cabins have en-suite bathroom.







OWNERS Mermaid Subsea Services (Int). Ltd

Type design Skipsteknisk ST254 CD

Year of build 2010
Classification society DNV
IMO No. 9484778
Flag Panama
Port of registry Panama

Class notation ICE-C SF COMF HELDK-SH

DSV-SAT EODYNPOS-AUTR

NAUT-OSV(A) CLEAN DESIGN DK (+)

DNV registry info ERN (99.99.99)ERS

DIMENSION & CAPACITIES

95.0m L.O.A. L.B.P. 82.2m 20.0m Beam Depth to tween deck 6.2m Depth to main deck 9.8m Summer draft 7.70m Freeboard 2.115m Displacement 8850 t

Deadweight 4500 t approx.

Gross tonnage 6365 t Net tonnage 1910 t Suez Canal NRT 5358 t

Main deck area 700m2 (deck strength 10t/m2)

 Fuel oil:
 1171m3

 Lube oil:
 73m3

 Potable water:
 1336m3

 Water makers:
 2 x 20 tpd

 Water ballast:
 2896m3

Anti-heeling system: 300m3 @1250m3 /hrs

PERFORMANCE CAPACITIES

Fuel autonomy: Approx. 90 days in DP, at 90% fuel

capacity & 10 t/day consumption 11000 miles at 90% fuel capacity Self-sufficient, assuming max

production of 40 t/day

FUEL CONSUMPTION

Transit range:

Potable water:

At full speed @13.8 knots: 27 tMGO/day
Cruising speed 11 knots: 18 tMGO/day
In DPMode: 7 - 10 t MGO/day
In port or at anchor: 4 tMGO/day

CONTROL ROOMS

Engine control room: Tween deck
Saturation control: Main deck
Air dive control: Main deck
Sat dive control: A deck
ROV control: A deck

HELIDECK

Construction: 21m diameter, steel
Capacity: Sikorski S92- 12.8 t
Compliance: CAP437 / DNVHELDK-SH

Certification: UK HCA

MACHINERY & PROPULSION

 $\begin{array}{lll} \mbox{Main generators} & 2\times2188\mbox{kW} 690\mbox{V} 60\mbox{Hz} \\ 3\times1901\mbox{kW} 690\mbox{V} 60\mbox{Hz} \\ \mbox{Emergency generators} & 1\times550\mbox{kW} 440\mbox{V} 60\mbox{Hz} \mbox{Dive} \\ \mbox{Emergency generator} & 1\times550\mbox{kW} 440\mbox{V} 60\mbox{Hz} \mbox{Dive} \\ \mbox{Bow tunnel thrusters} & 2\times\mbox{Brunvoll 1400 kW} (18.4\mbox{ t}) \\ \mbox{Bow retractable azimuth} & 1\times\mbox{Brunvoll 1400 kW} (23.7\mbox{ t}) \\ \mbox{Stern azimuths} & 2\times\mbox{Schottel 2400 kW} (26.7\mbox{ t}) \\ \mbox{The stern 2400 kW} & (26.7\mbox{ t}) \\ \mbox{The ster$

CRANEAGE

Main crane - port side McGregor 100t active heave-

compensated knuckle-boom offshore crane. wire dia. 56mm

MAIN WINCH - DYNAMIC FACTOR 1.3

100t - double fall9m radius, hook depth 1000m50t - single fall15m radius, hook depth 2000m25t - single fall25m radius, hook depth 2000m

AUX. WINCH-DYNAMIC FACTOR 1.3

10t 26m radius, 500m hook depth

Personnel lifts 5t to radius 26m

AUXILLARY CRANE PORTSIDE

Dreggen electro-hydraulic 5t knuckle-boom crane

5t 15m radius, hook depth 500m

Personnel lifts 1t to radius 15m

STORES CRANE - PORT AFT END OF HELIDECK

Hella HLRM 50-6S hydraulic crane 1.6t 18.6m radius

OFFICE & MEETING ROOMS

Conference room
Project office
Main deck, 14 seats
Main deck, 6 work stations
Client office
Main deck, 2 work stations
OCM office
Main deck, 2 work stations
Client/OCM office
C deck, 1 work station
Ship's office
D deck, 2 work stations +

large worktable

ACCOMMODATION

Total of 86 persons Full HVAC in all cabins, offices,

mess room, lounges, 28 x 1 pers. cabins, 29 x 2 pers. cabins. All

cabins en-suite.

Hospital 1 bed

RECREATIONAL FACILITIES

Exercise room 24m² gymnasium Mess room 48 seats, B deck

Duty mess A deck
Cinema/games room Main deck
TV room B deck

Internet café B deck, 4 stations

Quiet lounge B deck



WORKSHOPS & SERVICES

Engine room workshop Tween deck Dive workshops Tween deck Tween deck Dive equipment stores Central stores Main deck Dive hat workshop Main deck Deck workshop Main deck Laundry Main deck Divers' laundry Main deck Incinerator room A deck Main deck Rigging store Focsle store A deck

DYNAMIC POSITIONING

Kongsberg K-POS 21 dual redundant dynamic positioning system with DP references as follows: 1x dual frequency Seatex DPS-132 DGPS, utilising Spotbeam, Inmarsat and IALA corrections 1x dual frequency Seatex DPS-232 DGPS/GLONASS, utilising Spotbeam, Inmarsat & IALA

corrections 2 x HiPAP 500 USBL hydroacoustic systems

1 x radius 1000

1 x Bandak Mk 15T tautwire

1x fanbeam Mk 4

3 x ship's SPT 319 transponders

COMMUNICATION EQUIPMENT

C band VSAT C band 128k/128k

dedicated bandwidth, with 10 x direct dial and 2 x crew call

telephone lines

KU band VSAT KU 1mb/1mb dedicated

bandwidth with $4\,\mathrm{x}$ direct dial and $2\,\mathrm{crew}$ call telephone lines

FAX 1x fax transmitter/receiver

(bridge)

GMDSS A3 RADIO STATION

VHF

Inmarsat B 1 x fleet 77 +

Inmarsat C 1 x Furuno Felcom 15 incl SSAS
MF/HF transceiver 1 x Furuno Felcom 15 incl LRIT 1 x
Navtex Furuno 150W MF/HF with DSC

1 x Furuno Navtex NX700B 2 x Furuno FM 8800 Simplex DSC VHF 4 x Sailor RT2048

Simplex VHF

Lifeboat transmitter 3 x portable VHF - Jotron Tron

TR20 3x

SART (2 at wheelhouse and 1 in SPHL) 3 x EPIRB (1 float free above bridge, 1 inside bridge,

1 in SPHL)

NAVIGATION EQUIPMENT

ECDIS 2 x TECDIS ECDIS with slave

display on both bridge wings & conning display on forward

and aft bridge

Chart radar 1 x Furuno FCR2827 Radar 1 x Furuno FCR2827S 10cm

 1 x Furuno GP150 GPS

 AlS
 1 x Furuno FA150 AlS

 Gyro
 3 x SG Brown Surveyor

digital repeaters & rate of turn indicators on forward and aft

bridge, and analogue repeaters on bridge wings

Auto pilot 1 x Simrad AP50

Echo sounder 1x Furuno FE700 with slave

display at DP desk

Doppler log 1x Furuno DS80 with slave

display at DP desk

BNWAS Ulstein bridge navigation/watch

alarm system (UBAS)

Searchlights 3 x installed above bridge

THE DNV CLASSED SAT SPREAD

The deep diving system is designed for the following parameter:

Manufacturer Drager
Max working depth 300MSW

Design working pressure 40Bar saturation diving

Breathing gas 18 pers.

Capacity 24 hours diving/day

Sea state H24m

Bell 1 x 3 man@8.23m³
Bell handling 1 x heave compensated

electrically driven LARS system

Chamber system 1 x aerated moon pool

2 x 4 pers. chamber 2 x 5 pers. chamber 1 x TUP chamber

1 x TUP chamber (for bell mating) 2 x external Drager regeneration

system

SPHL 1 x 18 pers. davit launch & recovery

system & independent power pack

Gas storage 21, 600m3 of gas storage

AIR DIVE SYSTEM

Air dive system 1 x twin lock chamber Integrated

air dive LARS

SAFETY EQUIPMENT

Vessel is fully SOLAS compliant with state requirements and

carries LSA & FFA to flag

SPHL 1 x 22 pers. (18 divers + 4 crew)

self propelled hyperbaric lifeboat,

starboard side

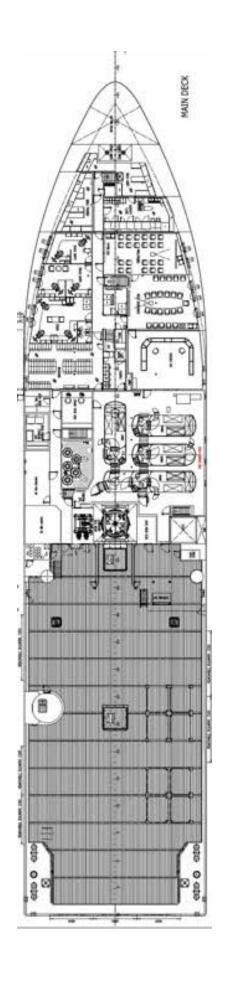
Life rafts 8 x 35 pers. life rafts mounted on

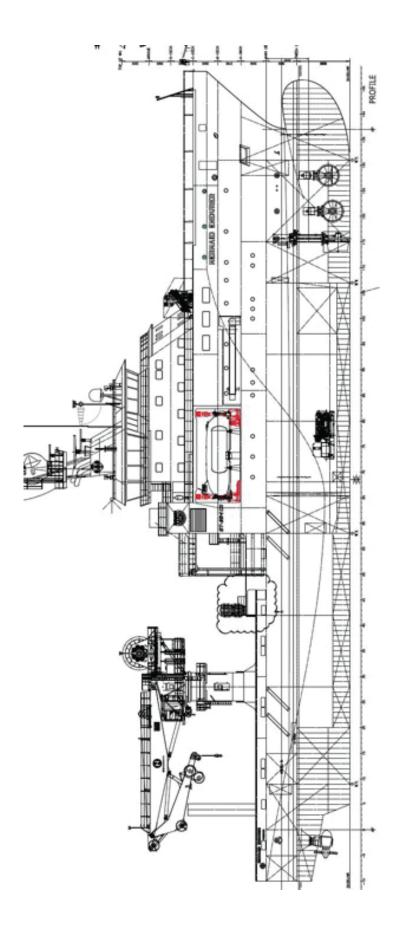
both sides of the forward main deck

Fast rescue craft 1 x Norsafe jet propelled FRC,

port side









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