

EQUIPMENT SHEET

BOKA POLARIS

MULTI-ROLE DIVING SUPPORT VESSEL &
OFFSHORE CONSTRUCTION VESSEL



CONSTRUCTION / CLASSIFICATION

Description	Diving Support Vessel, compliance with MODU Code and MOU Regulations
Built	May 1999
Classification	Lloyds Register ⌘ 100A1, Diving Support Vessel, Helideck WDL (5.0 t/m ³ afl of frame. 50) ⌘ LMC, UMS, DP (AAA), Ship Right (MPMS)
IMO	918 7526
Call sign (flag)	M Y K R 6 (British)
GMDSS	Area A3
Official No.	901941
MMSI	232 585 000
Selcall	47425

FEATURES

Saturation & air diving support
Structure installation
Flexible flowline & umbilical installation
Inspection, repair & maintenance
Well abandonment
Riser installation
Spoolpiece installation

MAIN DATA

Gross tonnage	8,234 GT
Net tonnage	2,471 NT
Deadweight (summer)	about 5,500 t
Length overall	113.57 m
Length BP	107.35 m
Beam	22.00 m
Depth	9.50 m
Draught (summer)	6.75 m

PERFORMANCE / APPROXIMATE FUEL CONSUMPTION

Service speed	11.00 kn
Transit speed	18.5 m ³ /24 h
DP operations	13.1 m ³ /24 h
Harbour	6.8 m ³ /24 h

CARGO AREAS

Working deck dims.	35 m x 21 m (abt.)
Working deck area	700 m ² (abt.)
Deck strength	5 t/m ²
Deck load	1,500 t (abt.) One carousel installed below aft deck

TANK CAPACITIES

Fuel oil	1,327 m ³ (abt.)
Potable water	464 m ³ (abt.)
Ballast water	1,900 m ³ (abt.)
Lubricating oil	16 m ³
Stability tanks	1,118 m ³

STABILISATION

Intering active roll reduction system (1 x tank)

ACCOMMODATION

Wheelhouse and accommodation fully air conditioned.

Total berths	104
Single	20
Double	42
Hospital	1 Berth
Gymnasium	Yes

Charterer's spaces including suites, operations areas and survey/work type areas.

HELIDECK

Load capability	Cleaned for EC225 (11.0 t)
D value	19.5 m

Heli-reception and full emergency equipment.

ENGINE POWER & PROPULSION

DIESEL ELECTRIC INSTALLATION COMPRISING OF:

Main engines	4 x Wärtsilä 9L26 diesel engines each driving an alternator and each producing 2,680 kW at 660 V 3Ph.60 Hz. (Total power 10,720 kW)
Harbour set	1 x 750 kW
Emergency set	1 x 150 kW unit located well above the freeboard deck and clear of regulation side damage areas

THRUSTERS

Stern thrusters	2x2,200 kW, fully azimuthing Kaplan nozzle fixed pitch propeller units driven by infinitely variablespeed frequency controlled motors
Bow thrusters	3 x 1,335 kW Tunnel thrusters of variable pitch type set very low for maximum efficiency

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REDUNDANCY FEATURES

Main machinery divided into two separate spaces each capable of independent operation in event of fire/flooding etc. and located clear of assumed side damage.

Switchboards in two compartments also clear of regulation side damage area. Each main propulsion thruster and each tunnel thruster is located in its own separate watertight compartment.

All power/control cabling and pipework lead independently to relevant Thruster/motor/control equipt. etc and widely separated for maximum redundancy. Main machinery control room in engine room space with secondary control from wheelhouse.

A third emergency control centre is located well above the freeboard deck, and inboard of regulation damage areas and surrounded by fire-proof boundaries.

DYNAMIC POSITIONING SYSTEMS

DP system comprises two main control systems within the wheelhouse with further independent control computer position within the emergency control centre.

Independent references/sensors lead to this station by separate cabling for maximum redundancy.

DP system	Simrad SDP 21 (3x Op.stations)
References	3 x DGPS Fanbeam 2 x Taut wire 2 x HIPAP 502 Three gyro compasses Three wind sensors Three motion reference units

Compliance standards	DP (AAA) IMO DP-equipment class 3
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DIVE SYSTEM

Capacity	18 man system
Depth rating	300 m
No of dive bells	2 x bells (6 m ³)
Mixed gas storage	20,400 m ³ onboard with gas reclaim
SPHL evacuation chamber	1 x 18 man (11.75 m ³)
Air diving	2 x Air dive stations and 1 x DDC
Man living chambers	2 x 6 person living chambers (18.2 m ³)
Living chamber	1 x 4 person living chamber (14.8 m ³)
De-compression chamber	1 x 6 person living chamber (16.6 m ³)

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MOONPOOLS

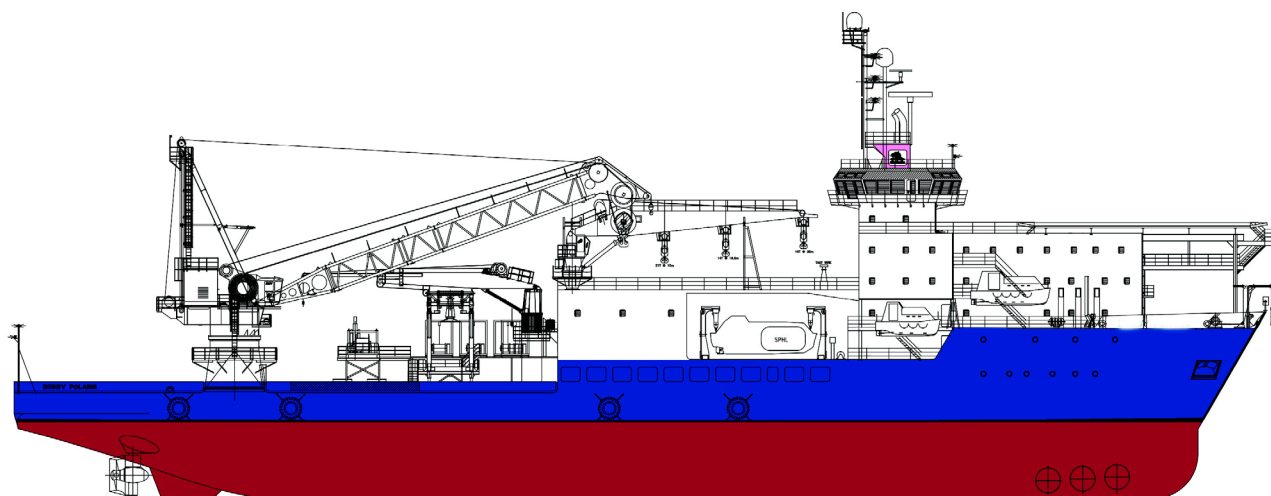
Two moonpools each abt. 4.68 m x 4.68 m for diving operations.

One optional moonpool (stern) abt. 6.24 m x 6.24 m.

DECK MACHINERY

Offshore cranes	1 x 150 mt SWL active heave compensated @ 12.5m radius (250 mt SWL for port use @ 13.0 m radius) 1 x 10 mt at 25 m Hydralift crane 1 x 10 mt at 10 m / 1 mt at 22 m Norlift crane
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Stern and aft main deck stiffened for installation of A-Frame



SIDE VIEW