

BIBBY SAPPHIRE

MULTI-ROLE DIVING AND ROV SUPPORT VESSEL



THIS IS WHAT YOU GET...

- Saturation & Air Diving Support
- Structure Installation
- Flexible Flowline & Umbilical Installation
- Inspection, Repair & Maintenance
- Well Abandonment
- Riser Installation
- Spoolpiece Installation
- Pipeline & Structural Inspection

BIBBY 
OFFSHORE
because we love this business™

BIBBY SAPPHIRE SPECIFICATIONS

GENERAL SPECIFICATIONS

Classification	Lloyds register + 100A1 diving support ship, Helicopter landing area LMC, NMS, DP(AA), CAC (3). SOLAS 1974, MARPOL, Stability requirements according to IMO Resolution A.167 (ES. IV) and class/SF class, IMO A.469, ILCC-66, Tonnage-69, COLREG
Build Location	Aker Langsten AS
Flag State Authority	Malta
Port of Registry	Valletta

MAIN PARTICULARS

Overall Length	94.00m
Breadth	22.00m
Depth	9.10m
Draught	6.80m
Deadweight	2800te
Gross Tonnage	6064 tonnes
Net Tonnage	1819 tonnes

ENGINE POWER & PROPULSION

MAIN ENGINES

2 x Wartsila 6L32 engines

- Rated power 2880kW @ 720rpm each
- Actual NOx emissions Value: 11,7 g/kWh
- Fuel consumption@100% load: 186g/kWh
- Coupled with 2 x Marelli M8BM710LB10 Alternator

MAIN ENGINES

2 x Wartsila 9L20 engines

- Rated 1530kW @ 900rpm each
- NOx emissions Value 9,7 g/kWh
- Fuel consumption@100 %load: 195 g/kWh
- Coupled with 2 x Marelli M8BM 630MB8 Alternator

Harbour Engine

- Mitsubishi S6A3-MPTA 460KW driving Newage Stamford HC-M53 4DC 50Kva

Emergency Generator

- Mitsubishi MHI 6D24TC driving Newage Stamford HC M434E1, 690V, 60Hz.

PRIME MOVERS

Main Azimuth Thrusters

- 2 x Rolls Royce Aquamaster US 305/5200 CP (2500 kW)

Retractable Azimuth Thrusters

- 2 x Rolls Royce TCNS 92/62-220 variable pitch (2000 kW)

Tunnel Thruster

- 1 x TT-2800 DPN CP (2000 kW)

DYNAMIC POSITIONING SYSTEMS

DP System	Kongsberg SDP 21
DP Classification	DP (AA)
Reference Systems	2 x DGPS, 2 x HIPAP, 2 x Light Taut Wire, 1 x Radascan

SPEED AND CONSUMPTION

Economical Speed	10.0kts
Full Speed	13.0kts

DP Operations

- DSV operation with port and starboard moon pools and twin diving bells
- ROV operations
- Subsea installation works (manifolds, PLETS, PLEMS etc)
- Geotechnical survey
- Module handling
- Subsea Crane operations

Fuel consumption	20m ³ / 24 hours (10 knot - economical transit speed) up to 30m ³ / 24 hours (13 knot - full speed)
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DP Rough	22m ³ / 24 hours
DP Moderate	20m ³ / 24 hours
DP Calm	18m ³ / 24 hours
Harbour	4/5m ³ / 24 hours (including main crane operations)

TANK CAPACITIES (100%)

Fuel Oil	1500m ³
Ballast Water	2000m ³
Anti Rolling Tank	3 x 425m ³
Portable Water	430m ³
Lubricating Oil	42.2 MT

CARGO DECK

Deck Area	645m ²
Deck Strength	7.0-10.0t/m ²

DECK CRANES

Main Crane	Hydramarine
Main Hoist	SWL 150t @ 5.5m to 10m
Main Hoist (AHC)	SWL 100t @ 5.5m to 15m
Whip line	SWL 15t @ 6.5m to 37m
Auxiliary Crane	Dreggen
Deck lifts	SWL 10t @ 5m to 18m SWL 5t @ 18m to 20m
Subsea lifts	Restricted to 2t
Provisions Crane	SWL 1t

ROV SYSTEMS

1 x 150HP Quasar MKII Work Class ROV
System fitted with a heavy duty launch and recovery system rated for 3000 MSW

1 x Seaeye Lynx Observation Class ROV - fully integrated launch & recovery system rated to 1500 MSW
Option - Additional OBSROV

Note: All details believed correct but not guaranteed and are subject to alteration

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DIVE SYSTEM

Saturation System	Drass 18 person (Limited to 15)
Maximum operating depth	300m
Main living chambers	2 x 6 person living chambers (20.9m ³)
De-compression chamber	1 x 4 person living chamber (22.5m ³)
Living chamber	1 x 4 person day chamber (14.5m ³)
Day chamber	1 x 6 person day chamber (9.2m ³)
HLB evacuation chamber	1 x 15 person (7.98 m ³)
Port bell	1 x 3 person (5.2 m ³)
Starboard bell	1 x 3 person (5.2 m ³)
Gas storage	Mix Gas storage 88 bottles = 18832m ³ Air storage 4 bottles = 856m ³ Clean Gas Storage 2 bottles = 428m ³ Dirty Gas Storage 2 bottles = 428m ³

Dirty Gas	4 x 200bar (1070litre)
HP Gas transfer compressor	2 x Rix 35 cfm (200bar supply) 1 x Compair compressor 65 cfm (200bar supply)

LP air	2 x Rollair 360 cfm (8bar supply)
Diver gas reclaim	4 x Corken 11.4 cfm (70bar supply)
Air diving	1 x Air dive chamber, 2 x basket deployment skid

Dive Moonpool	2 x moonpool (port / starboard)
Dive system classified to:	Lloyds Register Class
Dive System classified to:	IMCA, IMO & DMA

Dive System has split SAT capability

HELIDECK

Euro Copter EC 225
Maximum "D" value: 19.5m
Maximum take-off weight: 11.0te

ACCOMMODATION

Total	136
Single Cabins	20
Double Cabins	11
4 Men Cabins	26
Hospital	1
Messroom	64 seating capacity
Recreation room	30 (non-smoking)
Recreation room	8 (smoking)

Gymnasium
Client office
Coabis Inspection suite
Inspection suite
Project office
Safety office
2 x Laundry
Heliport reception
Ships offices
Conference room

COMMUNICATION SYSTEMS

GMDSS AREA	A1, A2, A3
VHF DSC/Radiotelephony x 4	SAILOR RT5022
MF/HF DSC/Radiotelephony	SAILOR HC4500/HT4520
INMARSAT C with built in EGC receiver x 2	SAILOR TT-3000E
INMARSAT F	NERA Fleet Broadband
NAVTEX receiver	JMC NT2000
COSPAS-SARSAT free float EPIRB	JOTRON TRON 40S
SART x 2	TRONSART

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HELIDECK

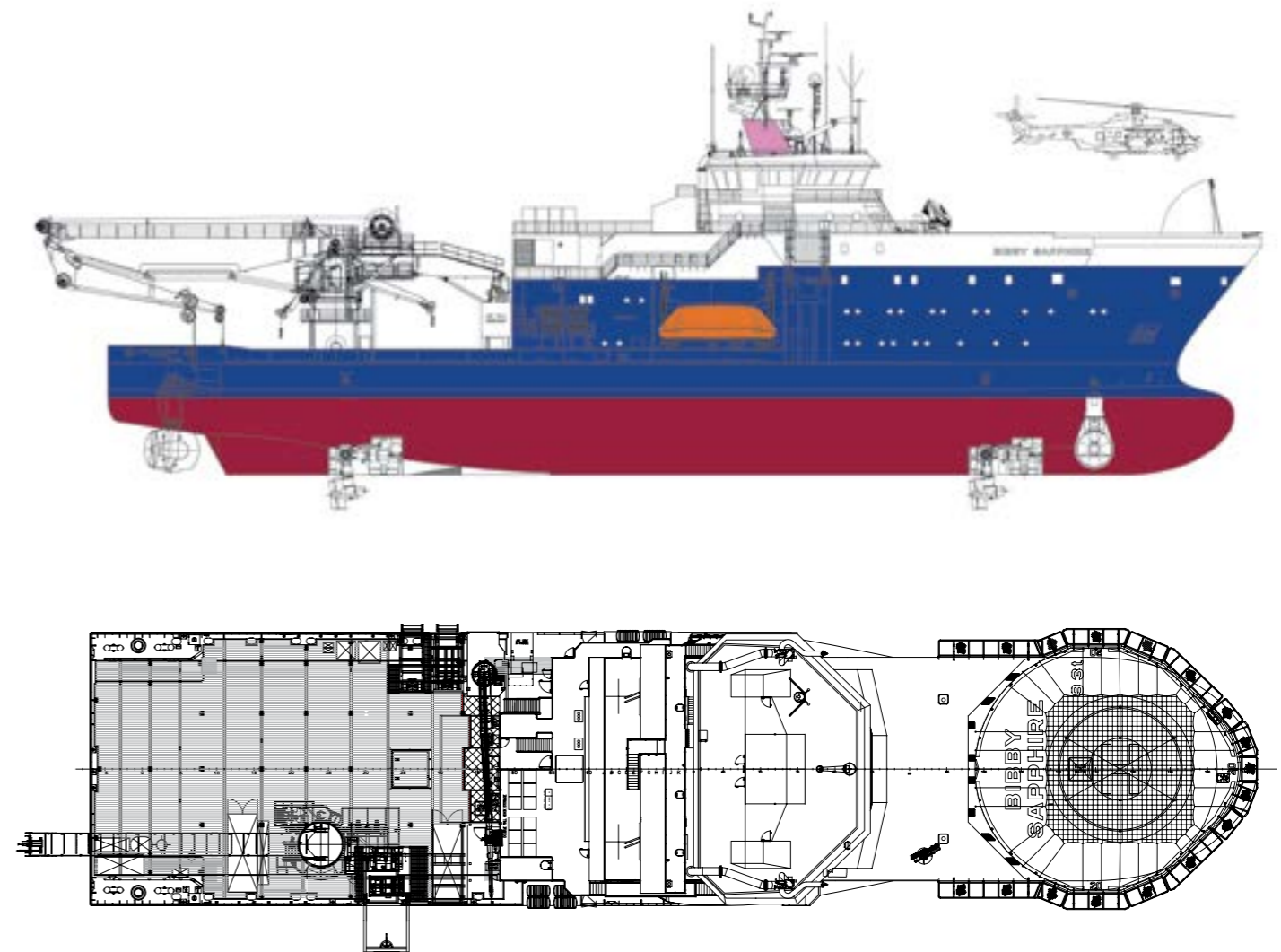
Eurocopter 225
 Maximum "D" value: 19.50m
 Maximum take off weight: 11te
 LR Classed and complies with the requirements of CAA CAP437
 Heli-beacon Tele supply A.S., type TS-20B

D-Value, 't' value and other Helicopter Type Criteria

Type	D Value (Metres)	Perimeter 'D' Marking	Rotor Diameter (Metres)	Max Weight (kg)	't' value	Landing Net Size
Bolkow Bo 105D	12.00	12	9.90	2400	2.4t	Not required
EC 135 T2+	12.20	12	10.20	2910	2.9t	Not required
Bolkow 117	13.00	13	11.00	3200	3.2t	Not required
Augusta A109	13.05	13	11.00	2600	2.6t	Small
Dauphin AS365 N2	13.68	14	11.93	4250	4.3t	Small
Dauphin AS365 N3	13.73	14	11.94	4300	4.3t	Small
EC 155B1	14.30	14	12.60	4850	4.9t	Medium
Sikorsky S76	16.00	16	13.40	5307	5.3t	Medium
Augusta/Westland AW139	16.66	17	13.80	6400	6.4t	Medium
Bell 412	17.13	17	14.02	5397	5.4t	Not Required
Bell 212	17.46	17	14.63	5080	5.1t	Not Required
Super Puma AS332L	18.70	19	15.60	8599	8.6t	Medium
Bell 214ST	18.95	19	15.85	7936	8.0t	Medium
Super Puma AS332L2	19.50	20	16.20	9300	9.3t	Medium
EC 225	19.50	20	16.20	11000	11.0t	Medium

Helideck Monitoring System (HMS)

Kongsberg HMS 100, version 3.4.0



Bibby Sapphire



Helideck



Gymnasium



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