

BIBBY TOPAZ

MULTI-ROLE DIVING 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

BIBBY 
OFFSHORE
because we love this business™

BIBBY TOPAZ SPECIFICATIONS

GENERAL SPECIFICATIONS

Classification	DNV + 1A1 SF, COMF-V(3)C(3), HELDK-SH, EO DYNPOS-AUTR, CLEAN, DSV-SAT, DSV-SURFACE
Build Location	Fosen Mekaniske Verksteder AS, NORWAY
Yard Number	76
Design	ST-256-L
Delivered	2007
Classification	Det Norske Veritas (DNV)
Call sign	3EHY8
IMO Number	9382815
Flag State Authority	Panama
Port of Registry	Panama

MAIN PARTICULARS

Overall Length	106.60m
Breadth	22.00m
Depth	9.60m
Draught	7.30m
Deadweight	5337 tonnes
Gross Tonnage	8009 tonnes
Net Tonnage	2403 tonnes

ENGINE POWER & PROPULSION

MAIN ENGINES

- 4 x Wartsila 6L32B2 diesel engines** (Marine gas oil, MGO)
- Rated power each 2880kW @ 720rpm each Total: 11520 kW
 - NOx emissions Value: 11,7 g/kWh
 - MGO consumption@100% load: 186g/kWh
 - Coupled with 4 x Marelli MJR 710 LB 10 Alternators each rated at 3600 kVA

Harbour Engine

- Mitsubishi S12A2, 803kW/1800rpm driving Newage Stamford HCM634K2, 963kVA alternator

Emergency Generator

- Mitsubishi MHI S6Bk, 276 kW @ 1800 R.P.M driving Stamford HCM434E1, 325 kVA alternator

PROPULSION

Main Azimuth Thrusters

- 2 x Wartsila type CS2510/2500 WN each rated at 3000 kW

Retractable Azimuth Thrusters

- 2 x Wartsila type CS1510-350/1530 MNR each rated at 2200kW

Tunnel Thrusters (1 fwd & 1 aft)

- 2 x Wartsila type CT275Z-D each rated at 2000 kW

DYNAMIC POSITIONING SYSTEMS

DP System	Kongsberg K-POS DP 31
DP Classification	AUTR DP II
Reference Systems	
	• 2 x DGPS; Kongsberg 200 & 132
	• 2 x HIPAP; Kongsberg 500
	• 2 x Light Taut Wire; Bandak Mk2
	• 1 x RadaScan; V115

DP OPERATIONS

DP Operations

- DSV operations with port and starboard moon pools and twin diving bells
- ROV operations
- Subsea installation works (Manifolds, Plets, Plems etc)
- Spoolpiece tie ins
- Umbilical and Flexible flowline Installation
- Geotechnical and worksite survey
- Module handling
- Subsea Crane operations

APPROXIMATE FUEL CONSUMPTIONS

Transit speed	24m ³ / 24 hours (11 knot - economical transit speed)
Full speed	36m ³ / 24 hours (12.5 knot - full speed)
DP Rough	18m ³ / 24 hours
DP Moderate	17m ³ / 24 hours
DP Calm	16m ³ / 24 hours
Harbour	8m ³ / 24 hours (including main crane operations)

TANK CAPACITIES (100%)

Fuel Oil	2240m ³
Ballast Water	2400m ³
Anti Rolling Tank	3 x 425m ³
Portable Water	551m ³
Lubricating Oil	81m ³

CARGO DECK

Deck Area	900m ²
Deck Strength	5.0-10.0t/m ²
Maximum Deck Load	~2000 tonnes depending on loading conditions and operations
Main Moonpool	7.2m x 7.2m, situated on the centre line, main deck, 15.6m aft from amidships

DECK CRANES

Main Crane

Hydramarine crane, active heave compensated (AHC) 150 tonnes (@10m radius)

Auxiliary Deck Crane I Dreggen crane 10 tonnes (@1s8m radius)

Auxiliary Deck Crane II Provision crane 1.05 tonnes (@14.7m radius)

ROV SYSTEMS

Permanently installed Comanche 24 Electric Work Class ROV System fitted with a heavy weather launch and recovery system; multiple survey capability and multiple camera and sensor interface; 2,000 mtrs/3,280 ft depth rated; auto-heading and depth and altitude; DC propulsion thrusters; 2 manipulators as standard; Orion 7P manipulator & Orion 4P slave arm. 215kg standard payload and 285kg with additional buoyancy. Work skid capability. Garaged TMS system.

BIBBY TOPAZ SPECIFICATIONS

DIVE SYSTEM

Saturation System	Dräger 18 persons
Maximum Operating Depth	300m
Single lock Main Living Chambers	2 x 6 persons living chambers (25.7m ³)
Triple lock De-Compression Chamber	1 x 6 person living chamber (29.2m ³)
Twin lock transfer Chamber	21.5m ³
SPHL Evacuation System	
1 x 18 person (10.5m ³) Ocean wide hyperbaric lifeboat	
Port Bell	1 x 3 person (5.7m ³)
Starboard Bell	1 x 3 person (5.7m ³)
Gas Storage	
23 x 2.0m ³ & 23 x 2.4m ³ tubes, (total capacity 20240m ³ @ 200bar)	
HP Gas Transfer Compressor	2 x Compair H 5437.1 HP Heliox compressors
LP Air	1 x Boge SD40-2 screw compressor
HP Air	1 x Bauer V5-HP V150-11-5 compressor
Diver Gas Reclaim	2 x Divex Gasmizer gas reclaim compressors
Air Diving	1 x Air dive chamber, twin basket deployment skid
Dive Moonpool	2 x Moonpool (port /starboard)
Dive System Classified to:	DNV

COMMUNICATION SYSTEMS

GMDSS AREA	A3
VHF DSC/Radiotelephony x 4	SAILOR RT5022
VHF Emergency	Jotron, Tron TR20
UHF Handheld Radios	10 x Motorola GP340
MF/HF DSC/Radiotelephony	SAILOR HC4500/HT4520
INMARSAT C with built in EGC receiver x 2	SAILOR TT-3000E
INMARSAT F	NERA F77
NAVTEX receiver	MCMURDO NAV-7
AIS	SAM Electronics, DEBEG 3400
COSPAS-SARSAT free float EPIRB	JOTRON TRON 40S
SART x 2	TRONSART
GMDSS VHF x 3	JOTRON TR20
SAT TV	British (Sky) & Norwegian (Canal +, NRK, TV2)
Data Transfer	512 kbps

ACCOMMODATION

Total	105 + 18 divers in SAT
Single Cabins	20
Double Cabins	39
4 Bed Cabins	2
Hospital	1 + Examination table
Messroom	Seats 66
Recreation Room	TV Lounge, seats 16
Recreation Room	Internet Lounge, seats 17, TV, 2 x internet workstations
Smokers lounge	TV, seats 12
Gymnasium	Equipped
Client Office 1	4 x Workstations
Client Office 2	5 x Workstations
Photo Copier Room	Photocopier, filing cabinets
Project Office	6 x workstations, photocopier, survey desk
Ships Office	2 x workstations
Offshore Project Managers Office	Workstation
Field Engineers Office	Workstation
Heliport Reception	Reception desk and seating area
Dive Technicians Office	3 x workstations

Conference Room

Wall mounted TV connected to workstation with remote keyboard and mouse, seats 14

Dive Control (port /starboard)

Dive control Centre, Dive coordinators office + 2 x workstations stbd/ROV control port

Saturation Control

Saturation Control Kitchen

Kitchen for diver's needs + washing machine and dryer

Dive Technicians Workshop

Bench, vice, pillar drill, compressed air, tools etc...

Engine Room Workshop

Bench, vice, pillar drill, lathe, bench grinder, compressed air, tools etc...

Laundry Rooms

4 x ships (stewards for linen etc...), project & crews, officers, divers

DOCUMENTATION AVAILABLE ON REQUEST

Dive System Design Audit

Dive System FMECA

Vessel FMEA

DP Trials Report

Response amplitude operators (RAO's)

Stability Booklet

BIBBY TOPAZ SPECIFICATIONS

HELIDECK

Sikorsky S92

Maximum "D" value: 20.88m

Maximum take-off weight: 12.8te

DNV Classed and complies with the requirements of CAA CAP437

Heli-beacon

Tele supply A.S., type TS-20B

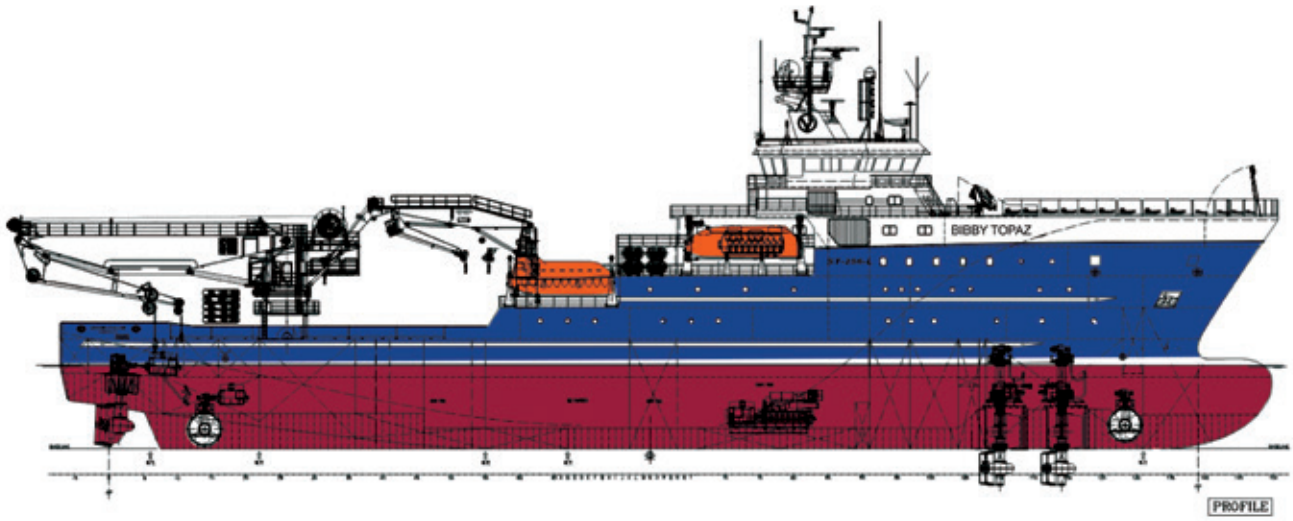
Table 1

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
Sikorsky S92	20.88	21	17.17	12020	12.0t	Large

Helideck Monitoring System (HMS)

Kongsberg HMS 100



Kitchen



Bibby Topaz



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