

# BLACKFORD DOLPHIN TECHNICAL SPECIFICATION



GENERAL DESCRIPTION		STORAGE CAPACITIES	
Design	Enhanced Aker H-3	Fuel Oil	20,486 bbls (3,257 m <sup>3</sup> )
Constructing Shipyard	Aker Nylands Verksted (Norway), Keppel Verolme (Netherlands)	Liquid Mud	2,420 bbls (385 m <sup>3</sup> ) Active / 2,800 bbls (445 m <sup>3</sup> ) Reserve
Year Entered Service / Significant Upgrade	<u>1974 / 2008</u>	Brine	4,200 bbls (668 m <sup>3</sup> )
Classification	<u>DNV 1A1, DRILL, HELDK, CRANE R</u>	Base Oil	3,101 bbls (493 m <sup>3</sup> )
Flag	Singapore	Drill Water	14,950 bbls (2,377 m <sup>3</sup> )
Dimensions	355 ft (108 m) long x 259 ft (79.03 m) wide x 120 (36.58m) deep	Potable Water	5,170 bbls (822 m <sup>3</sup> )
Drafts	68.9 ft (21.00 m) operating / 60 ft (18.29 m) survival / 30.84 ft (9.4 m) transit	Bulk Material	<u>18,896 cu.ft (535 m<sup>3</sup>)</u>
Accommodation	120 (115 w. 5 single cabins)	Sack Storage	900 sacks (153 mt)
Displacement	36,241 mt operating / 23,653 mt transit		
<u>Variable Deck</u>	4,500 mt operating / 3,313 mt transit		
<u>Transit Speed</u>	5 knots (historical avg.)		
Maximum Water Depth	6,000 ft (1,829 m) designed / outfitted 6,000 ft (1,829 m)		
Maximum Drilling Depth	30,000 ft (9,144 m)		

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DRILLING EQUIPMENT		BOP & SUBSEA EQUIPMENT	
Derrick	NOVType SDBN 750, 160 ft (48.77 m) high, with 40 ft (12.2 m) x 35 ft (10.7 m) base, 900 mt racking capacity	BOP	GE 18 ¾", 15,000 psi, 5 ram, dual annular, Vetco DWHD or ExF H4, H2S service Wellhead connector, API S53 compliant
Hookload Capacity	1,500,000 lbs (750 st)	BOP Control	AXON Mux, Dual Triplex 104-350000-074, 5,000 psi
Drawworks	NOV SSGD 4600, 750 st	BOP Handling	NOV gantry crane, 2 x 155 mt and 2 x 30 mt NOV moonpool carrier/Tripsaver, 700 mt
Compensator	NOVCrown Mounted Compensator CMC-1500/80/25, Capacities: 750 st static, 400 st compensated 27.6st active stroke 25ft (7.62m)	Marine Riser	Vetco MR6-E 21" OD riser (70 ft long joints) with 3" ID choke and kill lines, working pressure 15,000 psi, 4" ID booster line
Rotary Table	NOV D605, 1250 st, 60 ½" opening	Tensioners	4 x dual NOV DWRt-200-60 rated at 200,000 lbs /90.6 mt each, a stroke length of 15 ft (4.6 m) and a total line travel of 60 ft (18.3 m).
Top Drive	NOV EPS 750-E-AC-KT, 750 st, Electric, 64,175 ft.-lbs continuous torque	Diverter	Hydril FS 21-500, rated at 500 psi
Tubular Handling	NOV Derrick mounted Hydraracker HR-XY-SB (3 1/2" – 9 ¾"), NOV Catwalk machine and knuckle boom rig cranes with tubular gripper yoke (2 7/8" – 20").	Tree Handling	Up to 4 deck skids, 70 mt Xmas moonpool trolley, 110 mt NOV gantry crane (same as for BOP handling)
Iron Roughneck	NOV Hydratong MPT w. three point jaw system (3 ½" - 9 ¾" Tubular). Casing up to 25".	Moonpool	55.8 ft (17 m) x 24.0 ft (7.3 m)
Mud Pumps	3 x NOV 14-P-220 triplex pumps		
HP Mud System	Rated for 7,500 psi		
Solids Control	5 x NOV VSM 300 shale shakers, NOV CTX desander, NOV SE-20 desilter and NOV gum- bo conveyor. Directional skip & ship chute		
STATION KEEPING / PROPULSION SYSTEM		CRANES	
Thrusters	2 x In-line fixed propeller, 2,640 kW each	Crane #1	NOV C3932KE-85/20-42 knuckle boom, 85 mt
Mooring System	Taut leg for deepwater / Catenary for shallow water 4 x double NOV BLM W325 AC winches 8 x Bruce Dennla MK4, 12 m2 / 8 x Stevpris MK6, 18 mt 8 x 4,429 ft (1,350 m), R4 84 mm chain Bexco polyester lines (various lengths)	Crane #2	NOV C3932KE-85/20-42 knuckle boom, 85 mt
POWER & MACHINERY		OTHER INFORMATION	
Main Power	4 x Caterpillar 3612, 4 x 3,600 kW	Helideck	Rated for Sikorsky S-61 or EC225, CAP 437
Emergency Power	1 x Caterpillar 3516, 1,800 kW	Moonpool Baskets	2 x MH AB 200 L 2P
Power Distribution	4 x NAV Baylor / T855WPT, 4 x 3,800 kW	Lifeboats	4 x Norsafe Miriam 8.5 TELB (Totally Enclosed)
		Loading Stations	Port & starboard hose reels for bulk & bunker products

This short form specification is intended for general reference purposes only. The specification of the drilling unit concerned is subject to contract and Dolphin Drilling does not warrant the accuracy or completeness of this short form specification

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