

# BORGLAND DOLPHIN TECHNICAL SPECIFICATION



GENERAL DESCRIPTION		STORAGE CAPACITIES	
Design	2nd / 5th gen. Enhanced Aker H-3	Fuel Oil	15,725 bbls (2,550 m3)
Constructing Shipyard	Bergens Mekaniske Verksted, Tangen Verft, Norway	Liquid Mud	2,233 bbls (355 m3) Active / 4,114 bbls (654 m3) Reserve
Year Entered Service / Significant Upgrade	1977 / 1999 (New topside and hull upgrades)	Brine	2,201 bbls (350 m3)
Classification	DNV 1A1, DRILL, HELDK (H, S), ISDS	Base Oil	3,101 bbls (493 m3)
Flag	Singapore	Drill Water	9,221 bbls (1,466 m3)
Dimensions	355 ft (108 m) long x 221 ft (67.36 m) wide x 120 ft (36.58 m) deep	Potable Water	2,359 bbls (375 m3)
Drafts	70 ft (21.34 m) operating / 60 ft (18.29 m) survival / 22 ft (6.7 m) transit	Bulk Material	17,799 ft3 (504 m3)
Accommodation	100 persons	Sack Storage	72 m2
Displacement	29,359 mt operating / 19,253 mt transit		
Variable Deck	3,600 mt operating / 1,200 mt transit / 2,715 deep transit		
Transit Speed	5 knots (historical avg.)		
Maximum Water Depth	1,476 ft (450 m) designed / 1,476 ft (450 m) outfitted		
Maximum Drilling Depth	27,800 ft (8,500 m)		

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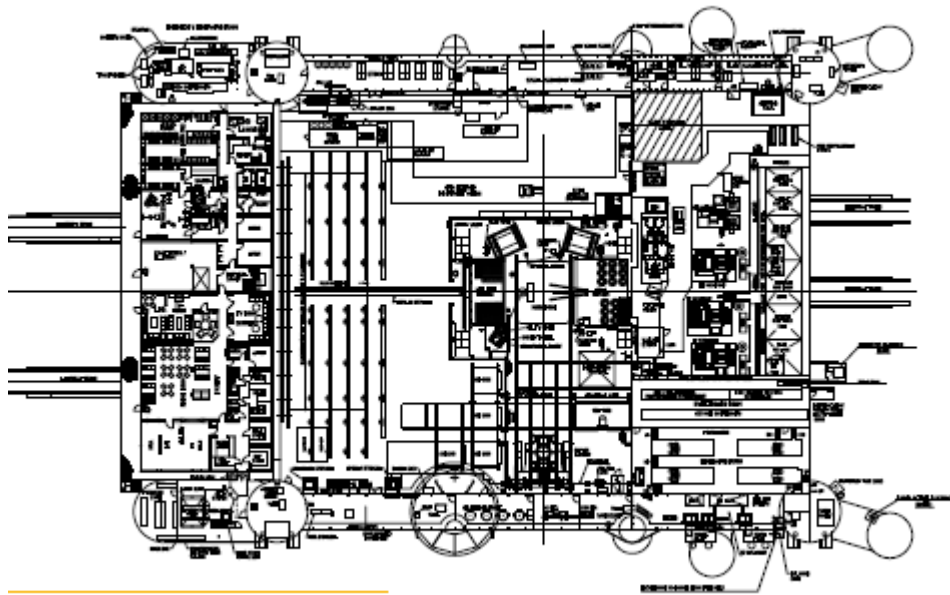
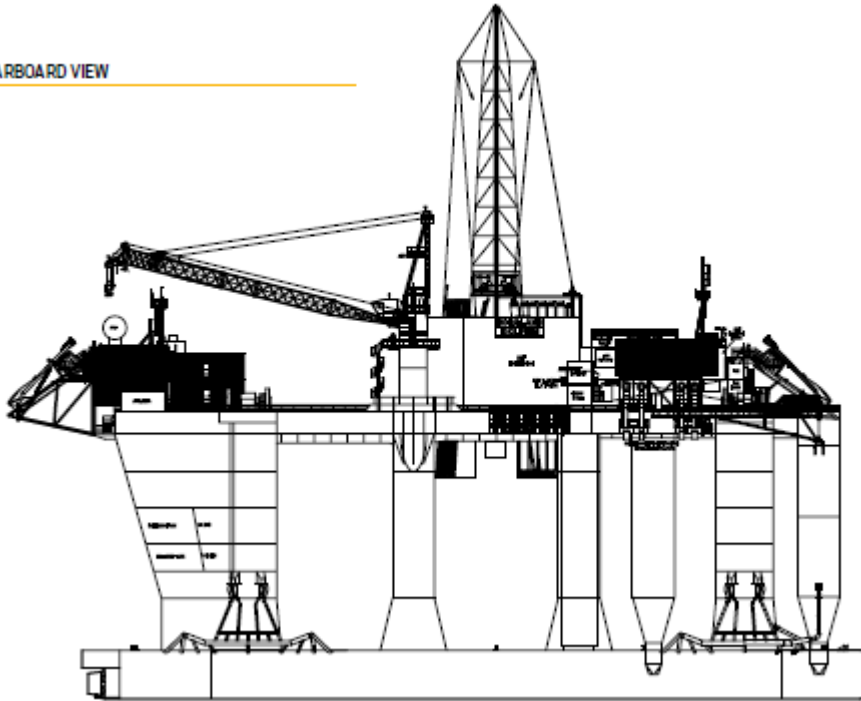
DRILLING EQUIPMENT		BOP & SUBSEA EQUIPMENT	
Derrick	Maritime Hydraulics, 206.7 ft (63 m) high, with 23 ft (7 m) x 42.7 ft (13 m) base	BOP	NOV NXT 18 3/4" 15,000 psi, 5 ram, dual annular, Vetco EXF H4 Wellhead connector, API S53 compliant
Hookload Capacity	1,300,000 lbs / 650 st	BOP Control	Discrete hydraulic control system, API S53 compliant
Drawworks	Maritime Hydraulics RamRig cylinders, 650 st	BOP Handling	MH BOP transporter 320 mt, Kenz EHBOP 2 x 50 mt overhead crane,
Compensator	Maritime Hydraulics RamRig cylinders, 650 st active and passive compensation	Marine Riser	Vetco MR6D 21" OD riser (75 ft long joints) with 3" ID choke and kill lines, working pressure 15,000 psi
Rotary Table	Wirth RTSS 49 1/2" H, 650 st	Tensioners	8 x Maritime Hydraulics rated at 100,000 lbs / 45 mt each, a stroke length of 12.5 ft (3.81 m) and total line travel of 50 ft (15.24 m)
Top Drive	Maritime Hydraulics DDM 650-HY, 4 x Rexroth hydraulic motors; rated to 55,800 ft.-lbs continuous drilling torque	Diverter	Hydril FS 21-500 Model K rated at 500 psi
Tubular Handling	Maritime Hydraulics RamRig and Monkey arm pipe racking system with setback capacity for up to 23,524 ft (7170 m) of 5-7/8" drill pipe and 20 stands of 8" collars	Tree Handling	2 x 60 mt Xmas tree hydraulic skid plates 1x 105 mt moonpool trolley Dedicated area for Xmas tree stacking with stabbing dolly 2x hydraulic infill panels in moonpool
Iron Roughneck	Maritime Hydraulics 1899, 3 1/2" - 10" OD	Moonpool	25.7 ft (7.8 m) x 20.9 ft (6.
Mud Pumps	3 x National Oilwell 12P160 triplex pumps, each driven by 2 x GE 752 motors		
HP Mud System	Rated for 5,000 psi		
Solids Control	5 x Swaco BEM 650 shale shakers		
STATION KEEPING / PROPULSION SYSTEM		CRANES	
Thrusters	2 x In-line Ulstein Propeller Compass TCNP, 1,250 kW each	Crane #1	1 x Molde Kran, 70 mt.
Mooring System	4 x double Ulstein Norwinch windlasses, 8 x Stevpris MK6 15 mt rated anchors 4 x R5 76 mm Stud link + 4 x 76 mm RNV R5 chain	Crane #2	1 x NOV OC3000LE 4520/1546, 45 mt.
		Crane #3	1 x Maritime Hydraulics 3065-55 Pipe deck crane, 6 mt
POWER & MACHINERY		OTHER INFORMATION	
Main Power	4 x Caterpillar 3612 DITA, 4 x 3,800 kW	Helideck	Rated for Sikorsky S-61 N or S-92 and Super Puma helicopters.
Emergency Power	1 x Caterpillar 3516 BDITA, 1,825 kW	Burner Booms	2 x 88.5 ft (27.5 m)
Power Distribution	4 x Baylor / T855VUT-490 (4,500 kVA) and 6 x Cegeieci SCR's	Loading stations	Reel type loading stations (port and stbd) with hoses for potable water, drilling water, fuel, OBM, WBM, cement, base oil, brine and Cuttings
		Lifeboats	4 x Norsafe GES 40, free fall type
		Main Power	4 x Caterpillar 3612 DITA, 4 x 3,800 kW
		Emergency Power	1 x Caterpillar 3516 B DITA, 1,825 kW
		Power Distribution	4 x Baylor / T855VUT-490 (4,500 kVA) and 6 x Cegeieci SCR's

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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STARBOARD VIEW



MAIN DECK