

**VANTAGE DRILLING COMPANY  
TITANIUM EXPLORER**

**GENERAL SPECIFICATIONS**

<b>Shipyards Delivery</b>	Jul-11
<b>Classification Agency</b>	ABS ✕ A1 (E), Drilling Unit AMS, ACCU, CDS, DPS3, SH-DLA
<b>Design</b>	DSME Ultra Deepwater Drillship
<b>Dimensions</b>	781' x 137' x 62'
<b>Moonpool</b>	82' x 41'
<b>Water Depth</b>	Design: 12,000 ft Equipped: 12,000 ft
<b>Max. Drilling Depth</b>	40,000 ft
<b>Variable Deck Load</b>	Operating: 20,000 mt Survival: 20,000 mt Transit: 20,000 mt
<b>Operating Draft</b>	39 ft
<b>Transit Draft</b>	27 ft
<b>Max. Wave Height</b>	Normal Drilling: 15 ft, Max Operating: 24 ft
<b>Helideck Capacity</b>	Sikorsky S-92, S-61N or equivalent



**DRILLING EQUIPMENT**

<b>Derrick</b>	Aker Kvaerner Maritime Hydraulics (AKMH) Pyramid Dynamic Derrick, 46 ft x 52 ft base x 210 ft clear working height
<b>Capacity</b>	2.5 Million lbs Static Hook Load
<b>Racking Capacity</b>	6 $\frac{5}{8}$ " Drill pipe—368 stands x 135 ft (49680ft) 9 $\frac{1}{2}$ " Drill collars— 8 stands x 135 ft (992 ft) 13 $\frac{5}{8}$ " casing - 35 stands x 135 ft (4725 ft) Or 9 $\frac{5}{8}$ " casing - 54 stands x 135 ft (7290 ft) Or 7" liner – 91 stands x 135 ft (12285 ft) Quad range II drill pipe, triple range III casing
<b>Drawworks</b>	AKMH Wirth GH 6000-EG-01-AC electric motor driven 6000 hp, 1190 mt capacity with 14 lines
<b>Rotary Table</b>	AKMH Wirth RTSS 60 $\frac{1}{2}$ ", hydraulically driven, 1250 sht capacity
<b>Iron Roughneck</b>	2 x AKMH 'Torque Master' for tubular range 2 $\frac{3}{8}$ " to 20"
<b>Top Drive</b>	AKMH model MDDM-1250-AC-2M, 1250 sht capacity, AC motor driven, 101,200 ft lbs max continuous torque, 151,300 ft lbs intermittent, 0 -282 max rpm, 2 x 1270 hp AC motors

**CAPACITIES**

<b>Diesel Fuel Oil</b>	21,385 bbls	<b>Heavy Fuel Oil</b>	19,498 bbls
<b>Drillwater</b>	15,096 bbls	<b>Fresh Water</b>	8,176 bbls
<b>Liquid Mud</b>	20,127 bbls	<b>Base Oil</b>	5032 bbls
<b>Bulk Storage</b>	31,783 ft <sup>3</sup>	<b>Brine</b>	5032 bbls
<b>Sack Storage</b>	10,000 Sacks		

**OTHER PARTICULARS**

<b>Accommodations</b>	180 Persons
<b>Mud Pumps</b>	4 x AKMH Wirth model TPK-7 $\frac{1}{2}$ x 14 / 2200 CL, 2,200 hp 7,500 psi, c/w 2 x GE AC motors
<b>BOP Stack</b>	1 x Cameron 18 $\frac{3}{4}$ " 15,000 psi 5 x ram BOP, (2 TL doubles + 1 TL Single), + 2 x Cameron 18 $\frac{3}{4}$ " 10,000 psi DL annular BOP's

<b>Diverter</b>	1 x 60½" 500 psi with 16" diverter lines
<b>C &amp; K Manifold</b>	API 16C 3 <sup>1</sup> / <sub>16</sub> " 15k HP side / 4 <sup>1</sup> / <sub>16</sub> " 10k LP side
<b>Mud Manifold</b>	API 6A PSL dual 5" NB 7,500 psi wp
<b>Cement Manifold</b>	API 6A PSL single 3" NB 15,000 psi wp
<b>Motion Compensator</b>	AKMH Crown Mounted Compensator, rated at 680 mt with a 25 ft stroke AKMH Active Heave Compensator, rated at 25 mt with a 25 ft stroke
<b>Control System</b>	Cameron Multiplex (MUX) Control System

### PROPULSION & POWER

<b>DP Class</b>	DP-3
<b>DP Control System</b>	Convert Team, triple redundant
<b>Main Engines</b>	6 x STX MAN 14V32/40 diesel engines c/w Siemens AC 8438 kVA alternators
<b>Emergency Power</b>	1 x STX MAN B&W diesel engine c/w Siemens 2800 kVA alternator (in addition, as per DP-3 class requirements, one main generator can be assigned as emergency generator)
<b>Thrusters</b>	6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt thrust nominal)

### RISER SYSTEMS

<b>Riser</b>	21" Aker Kvaerner CLIP riser w/ 15k psi Choke and Kill lines, 5k psi booster line, 2x hydraulic lines
<b>Riser Tensioning</b>	8 x AKMH wire line tensioners, 4,000,000 lbs total capacity with 50 ft line travel (12.5 ft stroke)
<b>Riser Length</b>	12,000 ft + buoyancy (75 ft joints)

### HANDLING SYSTEMS

<b>Cranes</b>	4 x Platform pedestal cranes, Liebherr, 3 x model BOS 4200-85 Litronic, 85 mt max load at 9 m radius & 37.5 mt at 46 m radius (static), 80 mt max load at 9 m & 30.6 mt at 46 m (dynamic) Auxiliary hook 15 mt max load at 51 m radius (dynamic), 1 x model BOS 4200-50 Litronic, 50 mt max load at 9 m radius & 39.2 mt at 46 m radius (static), 50 mt max load at 9 m & 32.3 mt at 46 m (dynamic), Auxiliary hook 15 mt max load at 51 m radius (dynamic) 1 x AKMH 20 mt capacity riser gantry cranes (can accommodate 75 ft long riser joints) 1 x AKMH 9 mt capacity 25 m reach knuckle boom crane
<b>Tubular Handling</b>	1 X AKMH Dual bridge crane system, c/w dual lower guiding arms, each 15 mt capacity 1 x AKMH Eagle dual standbuilding arm, each 6.4 mt capacity, for 15 ft to 45 ft tubulars 1 x AKMH drill floor manipulator arm 1 x AKMH 15 mt capacity pipe handling catwalk suitable for handling 45 ft tubulars 1 x AKMH 40 mt capacity riser catwalk suitable for handling 83 ft riser joints
<b>Xmas Tree Handling</b>	150 mt capacity hydraulically operated Xmas tree trolley
<b>Xmas Tree Hoists</b>	2 x 75 mt capacity hydraulically operated hoists
<b>BOP Handling</b>	460 mt capacity hydraulically operated BOP trolley
<b>LMRP Hoists</b>	2 x 75 mt capacity hydraulically operated overhead gantry cranes are installed for handling of BOP components once installed in the storage area

### LIFESAVING SYSTEMS

<b>Lifeboats</b>	6 x 60 man capacity Norsafe JYN 8.5 m davit launched lifeboats (200% of PoB)
<b>Life rafts</b>	8 x 20 man + 8 x 25 man inflatable liferafts (200% of PoB)
<b>Lifejackets</b>	250 lifejackets (180 in accommodation)
<b>Lifebuoys</b>	14 installed in accordance with IMO MODU & SOLAS