



# AQUARIUS

6th GEN ULTRA DEEPWATER SEMI-SUBMERSIBLE

RIG OWNED BY AQUADRILL

OPERATED BY VANTAGE DRILLING

More information: [marketing@vantagedrilling.com](mailto:marketing@vantagedrilling.com)



## TECHNICAL SPECIFICATIONS

### GENERAL (METRIC)

<b>Rig Name</b>	Aquarius
<b>Built</b>	2008 – DSME, Korea
<b>Hull ID</b>	-
<b>Major Upgrades</b>	-
<b>Design</b>	GVA 7500
<b>Previous Names</b>	West Aquarius
<b>Flag</b>	Panama
<b>Classification Agency</b>	A DNV ✕ 1A1 Column Stabilised Drilling Unit (N), DRILL (N), HELDK, CRANE, E0, DYNPOS AUTRO, POSMOOR ATA
<b>Dimensions</b>	116.5m Long / 96.6m Wide
<b>Operating Draft</b>	22.86m
<b>Transit draft</b>	9.94m
<b>VDL - Operating</b>	7,000MT
<b>VDL - Survival</b>	7,000MT
<b>VDL - Transit</b>	6,250MT
<b>Transit speed</b>	up to 3.08m/s
<b>Outfitted Max WD</b>	3,048m
<b>Min WD</b>	100m
<b>Usable Deck Space</b>	-
<b>Max Drilling Depth</b>	10,668m
<b>Max Combined Load</b>	-
<b>Quarters</b>	180
<b>Helideck Capacity</b>	22.2m D Value, S61N/S-92 Compatible
<b>Helideck Certification</b>	CAP437

<b>Riser min ID</b>	488.6mm
<b>Kill / Choke lines min ID</b>	114mm ID Choke & Kill Line
<b>Kill / Choke lines rating</b>	1,034bar

### CAPACITIES

<b>Diesel</b>	3,380 m <sup>3</sup>
<b>Drillwater</b>	2,600 m <sup>3</sup>
<b>Potable Water</b>	520 m <sup>3</sup>
<b>Bulk Product</b>	280m <sup>3</sup> Cement, 620m <sup>3</sup> Barite/Bentonite
<b>Sack Storage</b>	7,500 sacks
<b>Base Oil</b>	620 m <sup>3</sup>
<b>Brine</b>	670 m <sup>3</sup>
<b>Liquid Mud</b>	2,470 m <sup>3</sup> (Active + Reserve)
<b>Mudpits (excl slug/mix)</b>	-

### WELL CONTROL

<b>Diverter</b>	Hydril 1511mm - 34.5bar
<b>BOP</b>	1 x Cameron 5 RAM 1,034 Bar + 2 x Cameron DL 47.625cm 689 Bar
<b>C&amp;K Manifold</b>	Techdrill, API 16C, 77.78mm 1,034bar

### POWER

<b>Main Engines</b>	8 x Wartsila 4,710kW at 720 RPM Diesel engines
<b>Auxillary Engine</b>	Not available
<b>Total Power</b>	-
<b>Main Generators</b>	8 x ABB 4700 KW
<b>Emergency Power</b>	Provided from Main engines as per DP3

### DRILLING PACKAGE

<b>Derrick</b>	AKMH Single Derrick, 14m x 15.85m base x 61.87m clear working height. API-4F 3rd ed.
<b>Racking Capacity</b>	11,247m (all DP sizes)
<b>Drawworks</b>	Wirth GH 4500 w/ 50.8 mm Drill Line Max. Line Pull 14 Lines of 1,036MT
<b>Rotary Table</b>	Wirth RTSS 153.7 cm
<b>Top Drive</b>	MH DDM 1000 Rated for 907MT hoisting, 2 x 1,150 HP AC Motors, Max. Cont. Torque 128,531Nm at 125 RPM

### MUD SYSTEM

<b>Pressure Rating</b>	517 bar
<b>Pumps</b>	4 x Wirth TPK 1,655 kW
<b>Solids Control</b>	6 X BEM650 dual deck shakers (2 configured as Mud cleaners with 20 x 101mm cones each)

### RISER SYSTEM

<b>Riser tension</b>	6 x MH Dual wire line tensioner, 1632MT combined capacity with a maximum stroke of 533mm Cameron Load King, 344.7bar psi
<b>Riser type / make</b>	101.6mm ID booster line, 2 x 344.7bar 88.9mm ID hydraulic lines. 22.9m length

### STATION KEEPING

<b>DP class</b>	DP 3
<b>DP control system</b>	Kongsberg Maritime, Main: DPMC-32, Bkp: DPC-12
<b>Mooring lines</b>	84mm R5 chain
<b>Mooring winches</b>	Pusnes winch rated for 225MT pull.
<b>Thrusters</b>	8 x Azimuthing 3.5 MW Rolls Royce thruster

### TUBULARS

<b>Drill pipe</b>	Various, details available on request
<b>Drill Collars</b>	Various, details available on request

### CRANES

<b>Pedestal Cranes</b>	2 x Seatrax Pedestal crane
<b>API SWL</b>	100MT max load at 25m radius
<b>BOP Crane</b>	520MT BOP Skid. BOP Crane 2 x 75MT
<b>Riser Gantry Crane</b>	1 x AKMH Riser Gantry Crane, SWL 40 MT

Revision Date: December 2021

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## TECHNICAL SPECIFICATIONS

### GENERAL (IMPERIAL)

<b>Rig Name</b>	Aquarius
<b>Built</b>	2008 – DSME, Korea
<b>Hull ID</b>	-
<b>Major Upgrades</b>	-
<b>Design</b>	GVA 7500
<b>Previous Names</b>	West Aquarius
<b>Flag</b>	Panama
<b>Classification Agency</b>	A DNV ✕ 1A1 Column Stabilised Drilling Unit (N), DRILL (N), HELDK, CRANE, EO, DYNPOS AUTRO, POSMOOR ATA
<b>Dimensions</b>	386.8ft Long / 317.3ft Wide
<b>Operating Draft</b>	75ft
<b>Transit draft</b>	32.6ft
<b>VDL - Operating</b>	7,716st
<b>VDL - Survival</b>	7,716st
<b>VDL - Transit</b>	6,888st
<b>Transit speed</b>	up to 6 kts
<b>Outfitted Max WD</b>	10,000ft
<b>Min WD</b>	328ft
<b>Usable Deck Space</b>	-
<b>Max Drilling Depth</b>	35,000 ft
<b>Max Combined Load</b>	-
<b>Quarters</b>	180
<b>Helideck Capacity</b>	72ft D Value, S61N/S-92 Compatible
<b>Helideck Certification</b>	CAP437

### DRILLING PACKAGE

<b>Derrick</b>	AKMH Single Derrick, 46ft. x 52ft. base x 203ft. clear working height. API-4F 3rd ed.
<b>Racking Capacity</b>	38,900ft (all DP sizes)
<b>Drawworks</b>	Wirth GH 4500 w/ 2" Drill Line Max. Line Pull 14 Lines of 1,142st
<b>Rotary Table</b>	Wirth RTSS 60 ½"
<b>Top Drive</b>	MH DDM 1000 Rated for 1,000st hoisting, 2 x 1,150 HP AC Motors, Max. Cont. Torque 94,800ft-lbs at 125 RPM

### MUD SYSTEM

<b>Pressure Rating</b>	7,500psi
<b>Pumps</b>	4 x Wirth TPK 2,200 HP
<b>Solids Control</b>	6 X BEM650 dual deck shakers (2 configured as Mud cleaners with 20 x 4" cones each)

### RISER SYSTEM

<b>Riser tension</b>	6 x MH Dual wire line tensioner, 1800st combined capacity with a maximum stroke of 50ft.
<b>Riser type / make</b>	21" Cameron Load King, 5k psi 4" ID booster line, 2 x 5K psi 3.5" ID hydraulic lines. 75ft length
<b>Riser min ID</b>	19.24"

<b>Kill / Choke lines min ID</b>	4.5" ID Choke & Kill Line
<b>Kill / Choke lines rating</b>	15k psi

### CAPACITIES

<b>Diesel</b>	21,309 bbl
<b>Drillwater</b>	16,416 bbl
<b>Potable Water</b>	3,283 bbl
<b>Bulk Product</b>	9,888ft <sup>3</sup> Cement & 21,895ft <sup>3</sup> Barite/Bentonite
<b>Sack Storage</b>	7,500sacks
<b>Base Oil</b>	3,900 bbl
<b>Brine</b>	4,214 bbl
<b>Liquid Mud</b>	15,535 bbl (Active + Reserve)
<b>Mudpits (excl slug/mix)</b>	-

### WELL CONTROL

<b>Diverter</b>	Hydril 59-1/2" – 500psi
<b>BOP</b>	1 x Cameron 5 RAM 15,000psi + 2 x Cameron DL 18¾" 10,000 psi
<b>C&amp;K Manifold</b>	Techdrill, API 16C 3-1/16" 15,000psi

### POWER

<b>Main Engines</b>	8 x Wartsila 6,312 HP at 720 RPM
<b>Auxillary Engine</b>	Not available
<b>Total Power</b>	-
<b>Main Generators</b>	8 x ABB 6,312 HP
<b>Emergency Power</b>	Provided from Main engines as per DP3

### STATION KEEPING

<b>DP class</b>	DP 3
<b>DP control system</b>	Kongsberg Maritime, Main: DPMC-32, Bkp: DPC-12
<b>Mooring lines</b>	3.3" R5 chain
<b>Mooring winches</b>	Pusnes winch rated for 248st pull.
<b>Thrusters</b>	8 x Azimuthing 3.5 MW Rolls Royce thruster

### TUBULARS

<b>Drill pipe</b>	Various, details available on request
<b>Drill Collars</b>	Various, details available on request

### CRANES

<b>Pedestal Cranes</b>	2 x Seatrax Series 108,
<b>API SWL</b>	110st max load at 82 ft radius
<b>BOP Crane</b>	573st BOP Skid. BOP Crane 2 x 82st
<b>Riser Gantry Crane</b>	1 x AKMH Riser Gantry Crane, SWL 44st

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