

WEST ORION

The West Orion is a 6th generation ultra-deepwater semi-submersible drilling rig with operational history offshore Brazil.



GENERAL (U.S.)

Built	2010 Jurong Shipyard Singapore
Design	Friede & Goldman ExD Millennium
Flag/Class	Panama / ABS / CDS, DPS2
Dimensions	380 ft Long / 297 ft Wide
Draft	55.8-65.6 ft Drilling / 27.6 ft Transit
Displacement	47,606-51,283 st Drilling 36,358 st Transit
Variable Load	8,818 st Drilling / 6,283 st Transit
Accommodations	180 Persons
Helideck	Sikorsky S92, EH101
Max. Water Depth	10,000 ft Designed / 7,874 ft Outfitted
Max. Drilling Depth	37,500 ft

STATION KEEPING

Dynamic Positioning	Kongsberg K-Pos 32+12 Class 2
Thrusters	8 x Rolls Royce 4,500 HP Azimuthing
Transit Speed	Up to 6.5 Knots
Mooring Lines	Harbor Mooring Only
Mooring Winches	2 x Windlass: Port Fwd & Stbd Fwd

STORAGE CAPACITIES

Fuel	24,434 bbl
Drill Water	18,589 bbl
Potable Water	5,968 bbl
Active Liquid Mud	9,217 bbl
Reserve Liquid Mud	15,745 bbl
Bulk Bentonite / Barite	11920 ft ³
Bulk Cement	17160 ft ³
Sack Storage	6,100 Sacks

DRILLING PACKAGE

Derrick	Maritime Hydraulic 210 ft Tall with 46 ft x 52 ft Base 2,000,000 lbs Dynamic
Top Drive	MH DDM 1000 Rated for 1,000 st Hoisting Capacity, 2 x 1,150 HP AC Motors, Max. Continuous Torque 94,800 ft-lbs at 125 RPM

Drawworks	Wirth GH 4500 w/ 2" Drill Line Max. Line Pull 14 Lines of 2,283,000 lbs
Rotary Table	Wirth RTSS 60 1/2"
Compensator	MH Crown Mounted Rated for 1,000,000 lbs Compensated, 2,000,000 lbs Static
Tubular Handling	MH Hi-Pro Automated Racking System
Offline Capability	Offline Stand Building Arm / HRN / Mousehole / Aux. VPH
Mud Pumps	4 x Wirth TPK 2,200 HP
HP Mud System	Rated for 7,500 psi
Shale Shakers	8 x Derrick DP 626

SUBSEA EQUIPMENT

BOP	1 x Cameron 18 3/4" 6 RAM 15,000 psi
Annular	2 x Cameron DL 18 3/4" 10,000 psi
Diverter	VETCO KFDS CSO 60 1/2"
Wellhead Connector	Cameron EVO CON Wellehad Connector Assembly 18-3/4" 15,000 psi WP
Riser	Cameron LK 75 ft Length 21" OD, 4" ID Boost Line
Tensioners	6 x MH DATs Max. Total Tension Applied at Ring 1,800 st, 50 ft Stroke

CRANES

Pedestal Cranes	2 x Seatrax Rated for 115 st at 82 ft Radius
Pipe Handling Crane	1 x Hydramarine Rated for 16 st at 49-82 ft Radius
X-Mas Tree Handling	2 x 82 st, 165 st Total

POWER

Main Engines	8 x Cat C280 6,500 HP Diesel Engines
Main Generators	8 x ABB 6,500 HP
Emergency Power	1 x Caterpillar 3512B Diesel Engine 1 x LeroySomers 1,743HP Generator

OTHER INFORMATION

Trip Saver	AKMH Tripsaver. Temporarily Store BOP on Tensioners in Moonpool While Top Hole is Drilled
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Further information: +47 51 30 90 00 – www.seadrill.com

The above information is intended for general reference only. All equipment and specifications are subject to change at any time. Revised October 2018.

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GENERAL (METRIC)

Built	2010 Jurong Shipyard Singapore
Design	F&G ExD Millenium
Flag/Class	Panama / ABS / CDS, DPS2
Dimensions	115.7 m Long / 90.4 m Wide
Draft	17-20 m drilling / 8.4 m transit
Displacement	43,200-46,500 mt drilling 33,000 mt transit
Variable Load	8,000 mt drilling / 5,700 mt transit
Accommodations	180 Persons
Helideck	Sikorsky S92, EH101
Max. Water Depth	3,048 m designed/ 2,400 m outfitted
Max. Drilling Depth	11,430 m

STATION KEEPING

Dynamic Positioning	Kongsberg K-Pos 32+12 Class 2
Thrusters	8 x Rolls Royce 3,300KW Azimuthing
Transit Speed	Up to 6.5 knots
Mooring Lines	Harbor mooring only
Mooring Winches	2 x Windlass: Port

STORAGE CAPACITIES

Fuel	3,885m ³
Drill Water	2,955 m ³
Potable Water	949 m ³
Active Liquid Mud	1,465 m ³
Reserve Liquid Mud	2,503 m ³
Bulk Bentonite / Barite	337 m ³
Bulk Cement	486 m ³
Sack Storage	6,100 sacks

DRILLING PACKAGE

Derrick	Martime Hydraulic 64 m tall with 14 m x 16 m base 907 mt dynamic
Top Drive	MH DDM 1000 rated for 908 mt hoisting

Drawworks	Wirth GH 4500 w/ 2" drill line
Rotary Table	Wirth RTSS 60 ½"
Compensator	MH crown mounted rated for 454 mt compensated, 892 mt static
Tubular Handling	MH Hi-Pro automated racking system
Offline Capability	Offline stand building arm / HRN
Mud Pumps	4x Wirth TPK 1,620 kW
HP Mud System	Rated for 517 bar
Shale Shakers	8 x Derrick DP 626

SUBSEA EQUIPMENT

BOP	1x Cameron 47.625 cm 6 ram1,034
Annular	2x Cameron DL 47.625 cm 689 bar
Diverter	Vetco KFDS CSO 60 ½"
Wellhead Connector	Cameron EVO CON Wellhead Connector Assembly 47.625 cm 1,034 bar WP
Riser	Cameron LK 75 ft Length 21" OD, 4 ID boost line
Tensioners	6 x MH DATs Max. total tension applied at ring 1,633 mt, 15.24 m stroke

CRANES

Pedestal Cranes	2 x Seatrax rated for 105 mt at 25 m radius
Pipe Handling Crane	1 x Hydramarine rated for 15 mt at 12-25 m radius
X-Mas Tree Crane	2 x 75 mt, 150 mt total

POWER

Main Engines	8 x Cat C280 4,800 kW Diesel Engine
Main Generators	8 x ABB 4,800 kW
Emergency Power	1 x Caterpillar 3512 B Diesel Engine 1 x Leroy Somer 1,300 kW generator

OTHER INFORMATION

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