

# Catalog

## 2400m Semi-Submersible Drill Rig





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2400m Semi-Submersible Drill Rig is a latest generation platform with a dynamic positioning system and capable of drilling wells up to 7500 meters in depth in water that is 2400 meters deep.



### Specifications/General Data

Classification: ABS (+A1 Column Stabilized Drilling Unit, +DPS-2,AMS) ACCU

Accommodation: 135 Berths

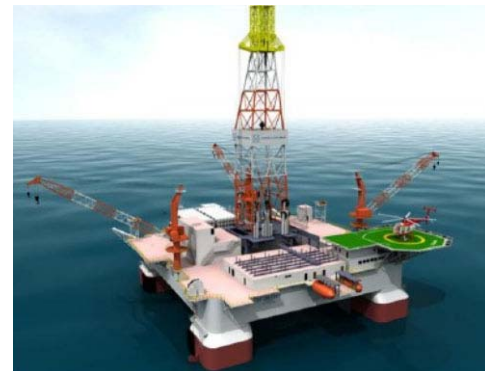
Helideck: Rated for S92 Helicopter

Moon Pool: 6,710 m (22 ft) x 26,457 m (86,8 ft)

Station Keeping: DPS2

Max Drill Depth: 7,500 m (24,600 ft)

Max Water Depth: 2,400 m (7,874 ft)



### Technical Details

|                             |   |
|-----------------------------|---|
| <b>Length Overall:</b>      | 105 m (345 ft)  |
| <b>Breadth:</b>             | 77,3 m ( 253,8 ft)  |
| <b>Height to main Deck:</b> | 34 m (111,5 ft)   |
| <b>Main Deck:</b>           | Length= 68,6 m ( 225 ft )<br>Width= 67,10 m ( 220 ft)                   |
| <b>Pontoons:</b>            | Length= 105 m(350 ft)<br>Height= 7,6 m (25 ft )<br>Width=18,2 m (60 ft) |
| <b>Operating Draft:</b>     | 16,75 m (55 ft)   |
| <b>Ocean Transit Draft:</b> | 7,3 m(24 ft)  |
| <b>VDL-Operating:</b>       | 5,500 mt  |
| <b>VDL-Survival:</b>        | 5,500 mt  |

## Capacities

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Liquid Mud:</b>              | 843 m3 (5,300 bbl)    |
| <b>Drill Water:</b>             | 2,495 m3 (15,692 bbl) |
| <b>Potable Water:</b>           | 439 m3 (15,503 ft3)   |
| <b>Fuel Oil:</b>                | 2,684 m3 (94,784 ft3) |
| <b>Bulk (Barite/Bentonite):</b> | 170 m3 ( 6,003 ft3)   |
| <b>Bulk Cement:</b>             | 127 m3 (4,484 ft3)    |
| <b>Sack Material:</b>           | 46 t 99 kip           |

## Drilling Equipment

|                                    |  |
|------------------------------------|--|
| <b>Derrick:</b>                    | Loadmaster (46 ft x 40 ft x190 ft) x 2,000 kip   |
| <b>Drawworks:</b>                  | Hoisting Capacity: 2,000 kip on 16 drilling lines with 2" dia.<br>Power: 4 each Watercooled OEM TT1500 AC Vector Motors;<br>Continuous rating of the motor is 1,500 HP and intermittent rating for drawworks duty is 2,250 HP<br>Weight (estimated) 205,700 lb   |
| <b>Crown Mounted Compensator:</b>  | Control Flow Model CMC-800,800 kip dynamic load, 25 ft stroke (passive compensator with active piston)   |
| <b>Top Drive:</b>                  | Drilling Torque: 90,000 ft-lbs Continuous<br>Drilling Torque: 128,000 ft-lbs Intermittent<br>Static Lock Brake: 75,000 ft-lb<br>Rating Capacities Static: 1,000 t<br>Drilling Motor Type: OEM HDT-2000 (Through Shaft Design)<br>Weight 75,000 lbs   |
| <b>Rotary Table:</b>               | LEWCO IRD 60 1/2" Rotary Table, With 1150 HP OEM Electric Motor. (With Two Speed Transmission) With Adapter Ring 60 1/2" to 49 1/2 And Master Bushing  |
| <b>Mechanical Handling System:</b> | Patriot Bridge Racker Type BR6000<br>Patriot Fingers Board with total capacity 202 stands of 5 1/2" drill pipe, 73 stands 9 5/8" completion riser, 7 stands 9 1/2" drill collar<br>Patriot Drill Floor Manipulator Arm 3 1/2" to 60" (range of heads required)<br>Patriot IRN 1000H, maximum make-up torque: 135,600 Nm, maximum make-out torque 165,500 Nm. Range of tubulars |



|                          |  |
|--------------------------|--|
|                          | <p>(3 1/2" to 9 3/4")</p> <p>Patriot Casing Stabing Basket OSB250 (SWL300kg)/Reach= 8,4 m</p> <p>Patriot Hydraulic Cathead (2ea) Line Pull = 0-15,000 kg</p> <p>Patriot Lower Racking Arm, Pipe sizes: 3 1/2" to 9 5/8" (adaptor plates)</p> <p>Patriot Catwalk Machine (Capacity 30 t/75 ft joint of riser)</p> <p>Patriot Centralized HPU= 650 l/mim x 207 bar</p> |
| <b>Mud Pumps:</b>        | 4 x Marathon LEWCO\Le Tourneau W-2215 Single Acting Triplex Mud Pump rated 7,500 psi for 2,200 maximum input HP at 110 maximum spm   |
| <b>Mud Process:</b>      | <p>Derrick Flow Line cleaner Model FLC-514 (4ea)</p> <p>Derrick Flow Line cleaner Model FLV-514 with integrated desander and desilter (1ea)</p> <p>Flow Line primer Model FLP-28/200</p>   |
| <b>BOP+LMRP:</b>         | Cameron 18-3/4" , 15,000 psi WP, "TL" BOP STACK (5-cavity) guidelineless system  |
| <b>Riser:</b>            | VETCO Marine Riser Type MR-64 with 21" x 0,750 wall, 75 ft long, with buoyancy 51,5" (105ea)   |
| <b>Telescopic Joint:</b> | VETCO Type MR-6E Nom 21"x55 ft stroke (2ea)  |
| <b>Riser Tensioners:</b> | <p>Control Flow Model CFI 250 kip Single Rod End up Ram (2ea)</p> <p>Control Flow Model CFI 250 kip Double Rod End up Ram (4ea)</p> <p>2,500 kip Total Tension</p>   |





## Machinery

|                         |  |
|-------------------------|--|
| <b>Main Power:</b>      | 7 Caterpillar 3616 Engines x 900 rpm<br>Driving Kato 8P12-400 Generators/4,400 ekW/11,000 V/60 Hz/0,8 pf   |
| <b>Emergency Power:</b> | 1 x Caterpillar 3412B Engines x 1,800 rpm<br>Driving Kato Generator 1,000 ekW/460 V/60 Hz/0,8 pf"  |
| <b>Power:</b>           | Medium Voltage 11 KV x 60 Hz Power Distribution<br>Siemens SF6-Insulated Switchgear Type NX PLUS<br>Low Voltage 460 VAC x 60 Hz Siemens Simodraw |
| <b>Distribution:</b>    | 220 VAC Outlets 220 VAC/110 VAC 60 Hz  |
| <b>Deck Cranes:</b>     | Patriot Pedestal Type 140 ft rated 60 t (1ea)<br>Patriot Pedestal Type 130 ft rated 50 t (2ea)   |
| <b>Thrusters:</b>       | 8 x Wartsila-Lips Steerable Thrusters Type FS 1510/NU<br>with Siemens 2,425 kW Electric Motors   |

## Mooring Equipment

|                 |                                 |
|-----------------|---------------------------------|
| <b>Winches:</b> | 2 x 110 t                       |
| <b>Wire:</b>    | Steel Wire 450 m x 76,2 mm dia. |
| <b>Anchors:</b> | 2 x 10 t                        |

Note: The anchors are for harbor use only. In case of depth water emergency mooring, you will pre-launch HHP Anchors and chains

## Vessel Management System

Dynamic Position + Power Management +Ballast Control to be provided by Kongsberg





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