

RBI INDUSTRIES, LLC. PowerMAX™ SCR AND VFD RIGS OFFERS “NEW GENERATION” DEEP DRILLING RIG PACKAGES

RBI Industries, LLC. PowerMAX™ package is built with the latest in AC or DC drilling technology.

It is unique for several reasons, most notably in that it designed with the latest in cost effective high-tech drilling technology. Our AC and DC drilling rigs are economical, powerful, quiet, low maintenance and environmentally friendly, this is one “**Mean Green Drilling Machine**”.

This green giant is also one of the largest land rig designs to use an Electronic Driller and remote performance drilling technology.

The electronic driller is an M/D Totco Electronic Drilling System with 2 disc brakes, with band brakes installed as a failsafe back-up system.

The Electronic Driller allows finite control of factors affecting rate of penetration and bit life rarely offered on a land rig of this size. Continuous line feed available with the Electronic Driller, instead of the drill off procedure commonly occurring with band brakes, allows constant weight on bit and performance drilling technology not economically seen before until now.

This feature not only increases rate of penetration, but also increases bit life by eliminating torque and chatter routinely experienced with PDC bits and allows remote monitoring anywhere in the world.

RBI’s new rig design is completely **STATE-OF-THE-ART!**

The control system uses programmable logic controllers (PLC’s) for DC logic and communication to the driller’s console. This is delivered through a pair of twisted, shielded cables rather than through the trio of 20 conductor cables, with DC logic and engine/generator information displayed with a panel view screen.

This allows the driller to have touch screen diagnostics for troubleshooting and monitoring system performance, the system can also be custom designed to customer preference, all of which contributes to more problem-free rig performance and **BEST-IN-CLASS** performance.

RBI’s PowerMAX™ uses a custom designed 1,650,000-lb capacity mast, self-elevating substructure with a mud recovery system under the substructure and a custom designed 3000 HP drawworks.

The power package consists of four 3512 B Caterpillar electronically controlled 1,475-hp engines driving 1,505-kw generators to power a 5-bay control house.

Three (3) 2200 HP mud pumps are capable of simultaneous operation at manufacturer’s hydraulic horsepower rating using AC or DC motors.



The 4-tank, 2,100-bbl mud system is equipped with a complete fluid processing system and a custom designed collection tank complete with augers for cuttings transfer. This will provide a closed loop operation, which meets the most rigid environmental regulations.

The FPS system has 5 linear motion shakers, one functioning as a desanding mud cleaner and one as a desilting mud cleaner, mounted on a newly designed tank system.

The tank system has external piping and valving and specially configured tanks that allow for minimization of mud volumes when possible and quicker cleanout for changing mud systems or preparing to move.

The mud system is capable of being configured either as a 1,100, 1,600, or 2,100-bbl operating system by simply switching the appropriate valves.

RBI's PowerMAX™ has been configured with every safety feature proven effective in daily operations. These include the latest in tongs, which are ergonomically designed to minimize hand injuries. The skid resistant floor plates are color coded to remind crewmen where it is safe to stand and work while tripping pipe.

RBI's PowerMAX™ has been designed to minimize the time and effort required to rig up and rig down. Retractable piping, lines and control cables and minimal teardown of components will allow this 30,000-ft capacity rig to move in 3 days or less!

We can supply our PowerMAX™ package in 1000, 1500, 2000 and 3000 Horsepower configurations.

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