



Rotaflex[®] PowerMag System

Maximized Production, Minimized Energy

High-Volume Pumping with Permanent Magnet-Motor Energy and Regenerative-VSD Efficiency

The Weatherford Rotaflex PowerMag System delivers the industry's first integration of long-stroke rod lift with the continuous, direct-drive performance of a permanent magnet motor (PMM) and energy efficiency of ForeSite[®] Power Regenerative variable-speed drive (VSD). By adding the benefits of all three technologies, this system creates next-generation efficiencies for boosted production, reduced energy consumption, and enhanced safety, achieving the industry's highest levels of profitable production and cost-saving value.

FIELD-PROVEN RESULTS: NEW MEXICO

37% Reduction in Energy Consumption

Combined PMM efficiency and ForeSite Power regenerative VSD

17% Improved System Efficiency

Captured and reused regenerative energy during pumping cycles

Reduced Downtime, Enhanced Safety

Eliminated rotating equipment, related OPEX, and redzones

20%

PRODUCTION BOOST

3X

ENERGY SAVINGS*

99%

POWER FACTOR**

98%

EFFICIENCY**

* BASED ON OPERATOR TRIALS COMPARED TO CONVENTIONAL REGENERATIVE VSDs.

** SAVINGS BASED ON 75 KW POWER-RATED MOTOR RUNNING 24/7/365 AT 50% LOAD CAPACITY.



MAXIMIZED PRODUCTION, MINIMIZED ENERGY



Increase Production

Maximize production and lower costs with Rotaflex® continuous, long-stroke design—boosting pump fillage, improving efficiency, and eliminating the need for intermediate lift in deep, high volume wells.

Longer Stroke Lengths

Transition high-volume wells sooner to high-performance rod lift and eliminate the need for intermediate-lift methods.

Counterbalance System and Unique Unit Geometry

Cut rod wear and downhole failures by up to 60%—extending sucker-rod and pump life for greater reliability and lower maintenance.

Maximized VSD Efficiency

Unlock peak lift efficiency by pairing long-stroke performance with real-time optimization and variable upstroke/downstroke speeds for reduced sucker rod wear and extended overall runlife.



Reduce Energy Usage

Cut energy costs with the ForeSite® Power Regenerative System that recycles and optimizes power to help lower OPEX and related emissions. Boost ROI with up to 3X energy savings per well.*

*COMPARED TO CONVENTIONAL REGENERATIVE VSDS

Regenerative Power Production

Capture and reuse energy during each pump cycle—converting what conventional VSDs waste into efficiency gains.

Capacitor-Based Storage

Decrease kWh usage and peak demand by actively capturing and reusing regenerated rod lift energy—cutting overall utility consumption.

Integrated Power Management

Eliminate installation costs with unified VSD technology that combines onsite power storage with an electrical ride-through system—avoiding power-grid needs of solar and wind**.

**BASED ON CUSTOMER TRIALS



Enhance Performance

Boost power with PMM high-strength surface magnets on the prime mover, creating an AC-synchronous, direct-drive motor—delivering high torque, low-speed performance that reduces energy use and improves safety with no moving parts.

Virtually Maintenance-Free Operation

Extend gearbox life and eliminate noise issues with a belt-free design that removes tensile force and sideload—reducing OPEX and simplifying upkeep.

Beltless System

Avoid the downtime and extra maintenance caused by regular belt tensioning, slippage, and misalignments of conventional systems—enhancing safety by eliminating redzone exposure.

Exclusive Direct Drive

Keep peak performance ratios for high-dynamic loads with a beltless system that runs cooler and eliminates power slippage for smoother, more reliable operation.