The AutoTrak G3 rotary closed-loop system is a fully integrated rotary steerable drilling and evaluation system that incorporates highly advanced Baker Hughes OnTrak™ MWD/LWD technology and two-way communications and power. The AutoTrak steering unit is specifically designed to provide the industry’s most reliable and precise steering response in a wide range of formation types, drilling conditions, and well profiles. Around the globe, operators from deepwater to onshore rely on AutoTrak systems to steer in weak sediments as well as in hard rock formations for efficient, reliable target intersection for optimum production.

Integrated MWD/LWD
In the AutoTrak G3 BHA, the OnTrak sensor sub is placed directly above the steering unit—delivering accurate, near-bit measurements (azimuthal Gamma ray, multiple propagation resistivity, directional, borehole pressure, and vibration/dynamics) for greater efficiency and more precise navigation. Using this integrated system, challenging wells are steered to the most productive reservoir targets—simultaneously delivering excellent wellbore quality along with low tortuosity.

Two-way communications
The system’s Bi-directional Communication and Power Module (BCPM) provides power to the downhole measurement-while-drilling and logging-while-drilling (MWD/LWD) tools as well as fast, two-way communications between the tool and surface using mud pulse telemetry—permitting wellpath changes on the fly without interrupting the drilling process. The BCPM supplies communications and power for our other LWD tools as well. Because our numerous MWD and LWD systems can communicate with the surface via a single downhole sub, tool length and sub placement are optimized. This enables closer sensor-to-bit measurements and simplifies BHA designs.

Industry-leading performance
Today, AutoTrak G3 RCLS is recognized as the industry standard in rotary steerable performance and precision, reliably steering to and through the reservoir.

Applications
- Real-time reservoir navigation applications, integrating multiple MWD/LWD measurements
- Complex 3D designer wells
- Multilateral wells
- Extended reach wells

Benefits
- Maximizes drilling performance
- Accesses difficult targets for maximum reservoir contact
- Extends lateral reach
- Provides reliable performance in all environments

Features
- Steering with continuous drillstring rotation for improved ROP and hole cleaning
- Change directional targets without interrupting the drilling process, for efficient reservoir navigation with maximum drilling performance
- Combines advanced MWD/LWD and drilling optimization into an integrated BHA
- Fully modular system, adding further LWD measurements as required