

OMNI  STEER

WHERE  
DIGITAL

OMNI  STEER

MEETS  
PHYSICAL

## How is the OmniSteer RST Different From Past Generations?

The D-Tech OmniSteer™ rotary steerable platform is engineered as a unified digital + physical system, bridging cutting-edge software with a robust mechanical foundation. Every design choice reflects D-Tech's long-term philosophy: continuous improvement with sustained engineering upgrades that enhance reliability, performance, and ease of use.

# Digital Edge – Turning Data into Decisions

- » AI & Analytics: Real-time data and predictive modeling for smarter steering control and formation response.
- » OmniConnect™ Surface Software: A single platform that handles calibration, tool setup, diagnostics, and automatic updates, ensuring every tool runs the latest firmware and features to the highest levels of performance.
- » Intelligent Firmware: Advanced steering algorithms provide toolface efficiency and stick-slip detection, allowing proactive mitigation based on live downhole data.
- » Closed-Loop Nudge Functionality: Enables micro-adjustments without lengthy downlinks, significantly enhancing trajectory precision.
- » Downlink Mapping & Feedback: Reduces downlink time by up to 60%, improving responsiveness and drilling efficiency while assessing steering efficiency in real time.
- » Cross-Platform Compatibility: Seamlessly integrates with third-party real-time telemetry and MWD systems for better downhole visibility.
- » Near-Bit Azi Gamma capability.
- » 165°C Rating for higher temperature environments.
- » Drilling Dynamics Module to mitigate downhole dysfunction faster and ensure smooth, efficient drilling.

## Engineered for Reliability and Serviceability

- » Configurable for Every Application: From high-dogleg, geothermal, and high-temperature wells (rated to 165°C).
- » Streamlined Architecture: Fewer parts mean faster assembly, lower service costs, and higher reliability.
- » Rugged Steering Body: Improved flow channels, enhanced hydraulics, and upgraded generator/motor assemblies for smoother steering response.
- » Wear-Resistant Components: New piston and sleeve designs with high-strength alloys extend life hours and withstand abrasive conditions.
- » Enhanced RPM Filtering: Provides better downhole stability and data accuracy, even in challenging mud systems.
- » Serviceability & Customization: Components are engineered to provide extended intervals and longer service life, reducing R&M costs without compromising performance.
- » Enhanced torsional capacity to mitigate twist-off risk.
- » Improved hydraulics for faster, more responsive steering.



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