

# ROTOSTEER™

## The Next Generation of Extended Reach Drilling

The RotoSteer™ tool is positioned above an existing steerable BHA to drive the BHA independently from the drill string. Developing torque from drill string rotation, RotoSteer enables the continuous rotation of the drill string during all drilling operations. It eliminates the need for agitation tools while attaining the benefits of a rotary steerable in extended reach applications. RotoSteer utilizes a steerable BHA with the addition of a specialized drilling motor-based device. This tool produces torque from drill string rotation which is used to counteract the torque generated from the drilling motor, allowing for continuous rotation while sliding. The RotoSteer in conjunction with the steerable BHA acts as a "Point the Bit" system and is a cost-effective option for drilling longer reach horizontal wells.

### How RotoSteer Works

During drilling ahead operations (higher string rpm), RotoSteer allows the BHA to rotate in conjunction with the drill string. During sliding operations (lower drill string rpm), RotoSteer counteracts the drilling motor reactive torque, holding the BHA stationary with small changes in drill string RPM or WOB adjustments.

### Benefits

- Reduced cost in steerable BHA applications through improved ROP by reducing torque and drag and improved hole cleaning
- Further cost savings in the completion of the well with reduced doglegs and improved borehole quality
- Simple installation and operation; The RotoSteer is installed above the BHA in the drill string and requires no special handling or orientation
- Easily adjustable for a variety of mud motors and drilling conditions
- Limits torque output while preventing the damaging effects of "stalling" the PDM
- Uses familiar conventional drilling methods; Controlled by balancing RPM and WOB

### Technical Specifications

Tool Size	5.00"	6.50" & 6.75"
Outer Diameter	5"	6.50" & 6.75"
Overall Length	474"	398"
Weight	1500 lbs.	2000 lbs.
Recommended Flow Rates	150-350 gpm	300-650 gpm
Continuous operating Drilling motor torque	5500 ft. lbs.	8000 ft. lbs.
Temperature Range	300°F	300°F
Operational Pressure Drop Generated	400-700 psi	400-700 psi
Max Pull	328000 lbs.	406900 lbs.
Absolute Overpull	546000 lbs.	678200 lbs.
Torsional Load to Yield Body Connection	17,000 ft. lbs.	48,000 ft. lbs.
Connections	3 ½ IF Pin & Box DS 42 Pin & Box XT 39 Pin & Box	4 ½ IF Pin & Box

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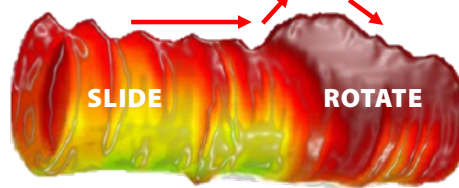
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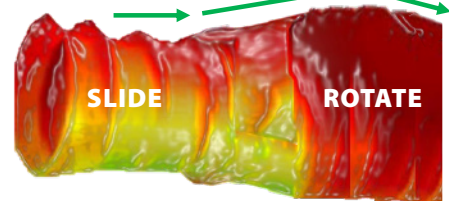
# ROTOSTEER™

**ABRUPT LEDGES**



Conventional Ledging

**TRANSITION LEDGES**



RotoSteer Ledging

## CASE STUDIES:

### Tioga County, Pennsylvania

Applications in two different formations proved significant ROP increase for slide and rotate intervals combined

**March 2023**

8,737'MD run was a 37° mark in curve section to TD in lateral with a 350% increase in ROP in slide

**July 2023**

8,340'MD run drilled in 84.22 D&C hours in 2nd half of lateral section, maintained 54'/hr. Slide ROP AVG. to TD of 27,687'MD

**Nov. 2023**

1st OH S/T performed in lateral in tandem with RotoSteer, 7'000'MD drilled after S/T to TD of 27,737'MD

### Eddy County, New Mexico

Lateral section intervals of 8,700'MD+ are accomplished in 3 bit runs, decreased from 8-10 bit runs with applications prior to RotoSteer

### Roger Mills County, Oklahoma

Lateral section of 7,349'MD drilled in only two runs

### Cass County, Texas

Multiple run laterals become one-run laterals with RotoSteer in the drillstring

### Reeves County, Texas

After failed RSS run and failed vibratory tool run attempt, RotoSteer finished the last 3,170'MD of same wellbore to TD of lateral section

Drilling Tools International, Inc. is a leading provider of downhole tools to the land and offshore drilling markets. For nearly 40 years our company has been guided by the principals of Strength, Innovation and Performance. We consistently deliver world class customer service while providing quality products that meet the demanding drilling applications of today's market.

Our Quality Management System is certified in compliance to ISO 9001, and API Spec Q1 and our manufacturing is licensed to API Spec 7-1. Our Quality Management System governs all of our processes from planning, to process control, to delivery. This ensures that we consistently manufacture products that not only meet API standards but also meet the ever-changing needs of our customers.