

REDBACK™ ROLLER REAMER

Proven Results, Outstanding Reliability



Since its entry into the market in 1996, the Redback roller reamer has earned its position as the market-leading roller reamer by a time-tested and patented wedge lock retention system and advanced seal-bearing technology. The cutters utilize pressure equalization mechanics in the sealed-bearing cartridge to extend the life of the cutters in harsh drilling environments. The pressure equalization system extends the life of the cutters by equalizing the pressure across the seals in changing pressure environments. The equalizing of the pressure in the cutters assembly extends downhole bearing life and ensures that the sealed assembly works effectively in high-pressure downhole environments.

Redback roller reamers provide a low-torque point of full-gauge stabilization where the roller cutters 'roll' around the wellbore. This reduces drilling torque, stick-slip and vibrations. The vibration reduction can add significant hours to the 'mean time between failures' (MTBF) of other BHA components and extend bit life. Additionally, when compared with a fixed blade stabilizer, the roller reamer causes less wellbore damage.



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Benefits

- Better stabilization and reduced drilling torque provided by low friction stabilization
 - > Rolling around the wall vs. dragging against the wall
 - > Full-gauge stabilization helps stop or mitigate vibrations and stop or slow the vibrational waves being transmitted up and down the drill string
 - > Reduction of stabilization friction that leads to dangerous “whirl” of the drilling system
 - > Decouples vibration modes that cause whirl, erratic vibrations, and damage to bit and BHA components
 - > Low torque and stick-slip resistant stabilization allows driller to adjust drilling parameters to optimize bit performance and increase bit life
- The reduction of stick-slip, torque and vibration leads to longer bit life and improved drilling efficiency and performance
- Improved ROP and drilling harmonics
 - > Improved weight-to-bit transmission. Improved drilling mechanics that provides smooth transmission of energy to the bit
 - > Improved MSE of the BHA/Drill-string and improved drilling harmonics. Get **more energy** to the **bit!**
- Improved rotary steerable performance and higher RPM capability
- Improved wellbore quality
 - > Eliminate dedicated wiper runs, reduced trip time and improve casing running times due to improved wellbore geometry utilizing Reaming-While-Drilling technology
 - > Improved cuttings removal due to better well bore quality and reduction of drilling cutting size
 - > Extended wellbore reach due to reduced torque and hole tortuosity
- Extended meantime between failures of bit and BHA due to reduced torsional and lateral vibrations

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Drilling Tools International, Inc. is a leading provider of downhole tools to the land and offshore drilling markets. For more than 30 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.