SMITH BITS
A Schlumberger Company

# Xplorer Gemini

## Dynamic twin-seal technology

### APPLICATIONS

- Roller cone drill bits in extended intervals and laterals

### BENEFITS

- Preserves seal integrity longer for improved bearing protection
- Enables longer run in extended intervals
- Performs under heavy WOB, high rpm, high mud weight, and severe dogleg severity
- Resists wearing, tearing, and heat damage
- Helps reduce unplanned trips

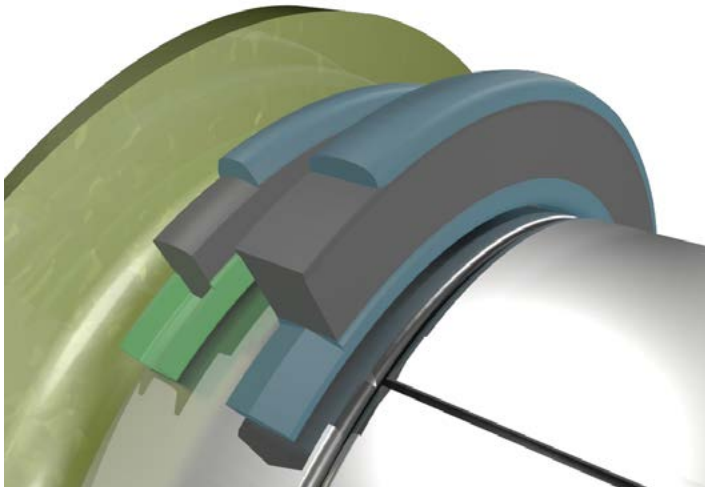
### FEATURES

- Dynamic face elastomer and softer energizing material
- Bullet-shape with large cross-sectional profile
- Primary and secondary seals

Offering two precisely configured seals with excellent material properties, Xplorer Gemini* dynamic twin-seal technology for drill bits exhibits consistent performance over long run intervals. Available for both tungsten carbide insert (TCI) or milled-tooth bits, the dual-seal system ensures high reliability for extended time periods, even with high rpm, heavy WOB, high mud weight, and severe dogleg.

The primary seal maintains seal integrity to protect the bearings using a wear-resistant, dynamic face elastomer and a softer energizing material that exerts consistent (but not excessive) pressure. It is bullet-shaped with a large cross-sectional profile to protect the bearing.

A secondary seal protects the primary seal. It guards against abrasive particles in the wellbore fluids that contact the bearing seal. A proprietary thermoplastic fabric is positioned on the seal's dynamic face to resist wearing, tearing, and heat damage.



*The multiple elements of Xplorer Gemini seal technology enable longer runs in extended intervals.*

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