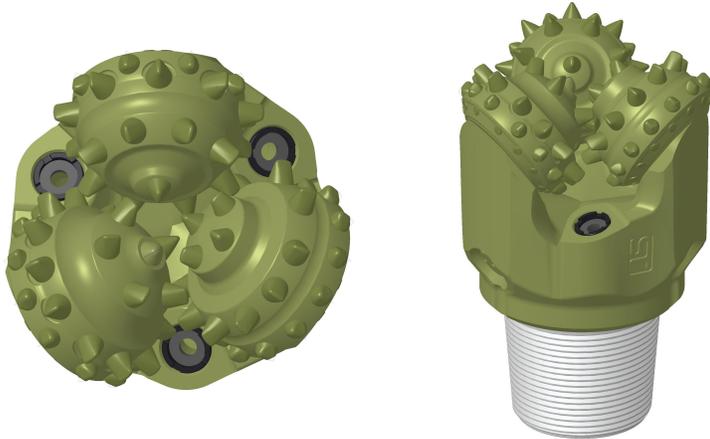


# Xplorer Gemini

## 9 7/8 in XRG427 PS



ID: 0062943050 IADC: 427X



Xplorer Gemini Dynamic Twin Seal System is the industry leader in durability and reliability. Offering two precisely configured seals with extraordinary material properties, Gemini bits deliver consistent performance over long run intervals.

### Specifications

Bit Connection Type	6 5/8 Reg
Bearing Type	Spinodal™ 2 Bearing w/Silver Plated Components
Seal Type	Gemini Twin Seal System
Inserts and Teeth	Total: 84 Inner: 50 Gauge: 34
Rows	Total: 11 Inner: 8 Gauge: 3

### Operating Parameters

Weight-on-Bit	10,000 to 50,000 (lbf)
	4,400 to 22,000 (daN)
	4.5 to 23 (Tonnes)
Bit Rotary Speed	50 to 280
Recommended Makeup Torque	28,000 to 32,000 ft-lbf

### FEATURES

- Spinodal 2 bearing with silver plated components ensures longer runs at higher ROP. This proprietary material offers maximum wear resistance and withstands extreme load forces for longer periods than conventional bearing materials.



- The Gemini twin seal system consists of a primary seal which protects the bearing, and a secondary seal that protects the primary seal. This dual seal system will perform reliably for extended periods of time in high RPM, heavier WOB, high mud weight and severe dogleg applications.



- Chisel shaped inserts maximize ROP in medium-strength shales, limestones and sandstones, and provide optimum ROP performance in mud-up conditions.



- The Center Jet maximizes fluid flow, and increases ROP by cleaning the bit more effectively and reducing bit balling.



- The PS feature offers strategically placed clusters of semi-round top (SRT) shaped carbide inserts that maximize leg protection, prevent bit wear, and substantially increase bit life in abrasive formations.

