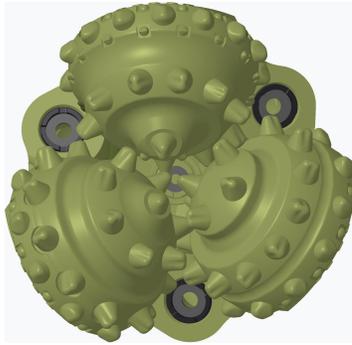


Xplorer Gemini

11 in GFI05BV CPS



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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

Bearing Type	Spinodal™ 2 Bearing w/Silver Plated Components
Seal Type	Gemini™ Twin Seal System
Bit Connection Type	6 5/8 Reg
Rows	Total: 10 Inner: 7 Gage: 3
Inserts and Teeth	Total: 79 Inner: 44 Gauge: 35

Operating Parameters

Weight-on-Bit	30,000 to 60,000 (lbf)
	13,000 to 27,000 (daN)
	14 to 27 (Tonnes)
Bit Rotary Speed	160 to 50
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.



■ The DogBone* insert's unique geometry provides maximum resistance to breakage without sacrificing ROP. This patented insert geometry combines larger radius insert corners with a small radius inner tip which maximizes resistance to breakage.



■ The proprietary geometry of the relieved gauge chisel insert incorporates an aggressive leading edge that efficiently cuts gauge and a generously contoured, relieved trailing side that mitigates the tensile stresses that can lead to gauge breakage in standard gauge inserts. The result is a more durable cutting structure, a full gauge hole, and extended bit life.



■ Binary carbide gauge places wear resistant semi-round top carbide inserts between the primary gauge inserts to enhance gauge retention in transitional drilling. This substantially improves gauge durability and allows longer in-gauge bit runs.



■ V-Flo™ directs nozzles to the leading side of the following bit cone to maximize cleaning. The resulting upward spiral flow enhances bottom hole cleaning, prevents bit balling and allows the bit to drill at maximum ROP.



■ 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.

