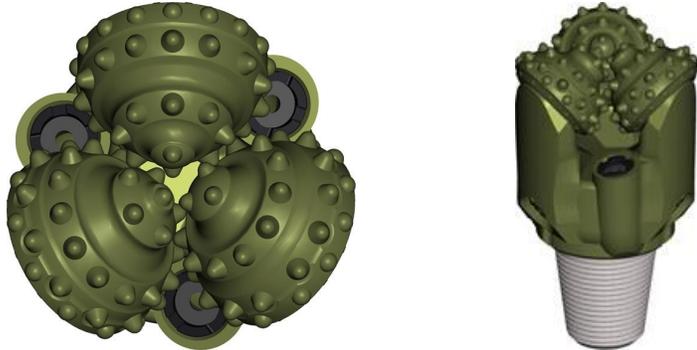


Xplorer

6 1/4 in XR40OD PS



ID: 0058161040 IADC: 617X



Xplorer is the result of a systematic engineering effort to improve performance in slim hole applications. These bits have proven themselves in tough slim hole applications around the world, and offer an unmatched combination of speed and durability in a wide range of formations.

Specifications

Bearing Type	Spinodal™ 2 Bearing w/Silver Plated Components
Seal Type	V-Ramp O-Ring Seals
Bit Connection Type	3 1/2 Reg
Rows	Total: 13 Inner: 10 Gauge: 3
Inserts and Teeth	Total: 120 Inner: 80 Gauge: 40

Operating Parameters

Weight-on-Bit	10,000 to 35,000 (lbf)
	4,400 to 16,000 (daN)
	4.5 to 16 (Tonnes)
Bit Rotary Speed	270 to 40
Recommended Makeup Torque	7,000 to 9,000 ft-lbf

*Operating parameters are typical ranges. Please contact your Smith Bits representative for recommendations for your individual well.

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 V-Ramp seal's unique design distributes contact pressure over a wider contact area ensuring a more consistent track on the bit leg. This results in extended seal life which allows the bit to stay in the hole longer and drill more footage.



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



■ 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.



■ Diamond enhanced heel inserts maintain gauge in abrasive, hard formation drilling and significantly increase cone durability. This feature extends bit life and ensures that a full gauge hole is drilled.



■ 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.

