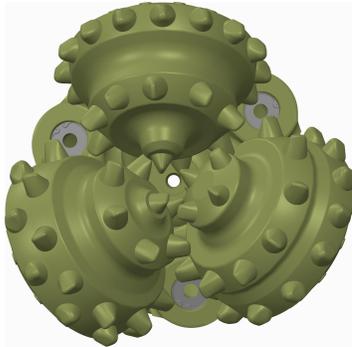


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The SB product line of roller cone bits are designed for less challenging applications, engineered with fit-for-purpose materials and designs to deliver reliability and performance. SB bits incorporate: • Field proven technology • Solid ROP • Reliable bearing packages • Lubricants and elastomers that provide reliable performance • Predictable cutting structures and hardfacing • Applicable to very soft to medium formation drilling

Specifications

Bit Connection Type	6 5/8 Reg
Bearing Type	Sealed Friction Bearing
Seal Type	V-Ramp O-Ring Seals
Inserts and Teeth	Total: 79 Inner: 41 Gauge: 38
Rows	Total: 10 Inner: 7 Gauge: 3

Operating Parameters

Weight-on-Bit	15,000 To 60,000 (lbf)
	6,700 To 27,000 (daN)
	6.8 To 27 (Tonnes)
Bit Rotary Speed	50 to 160
Recommended Makeup Torque	28,000 To 32,000 ft-lbf

FEATURES

■ The sealed friction bearing with pressed in bearing sleeve provides a robust, reliable system capable of excellent performance in a wide range of applications.



■ 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.



■ 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.

