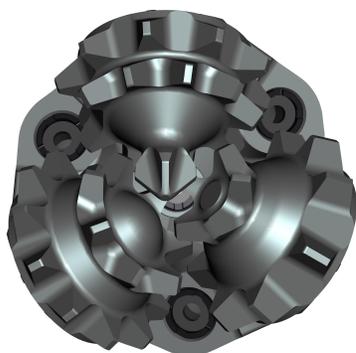


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The SB product line of roller cone bits are designed for less challenging applications, engineered with fit-for-purpose materials and designs to deliver reliability and performance. SB bits incorporate: • Field proven technology • Solid ROP • Reliable 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	4 1/2 Reg
Bearing Type	Sealed Friction Bearing
Seal Type	V-Ramp O-Ring Seals
Inserts and Teeth	Total: 7 Inner: 4 Gauge: 3
Rows	Total: 54 Inner: 25 Gauge: 29

Operating Parameters

Weight-on-Bit	10,000 To 50,000 (lbf) 4,545 To 22,725 (daN) 4 To 22 (Tonnes)
Bit Rotary Speed	50 to 160
Recommended Makeup Torque	12,000 to 16,000 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.
- HMIC2 hardmetal is a proprietary ultra wear resistant material which extends tooth life and allows drilling at high ROP for longer periods of time. This superior hardfacing substantially reduces abrasive wear, and is more fracture resistant than conventional hardmetal.
- The Center Jet maximizes fluid flow, and increases ROP by cleaning the bit more effectively and reducing bit balling.

