

# DiamondBack CC Reamer Shoe

Guides casing and liners to total depth through use of a compact design and cutting structure suited for soft-medium formations

## Applications

- Casing- or liner-running with little or no rotation
- Moderate wellbore cleanup
- Soft-medium and unstable formations
- Highly deviated, inclined, dogleg, vertical, and horizontal wells

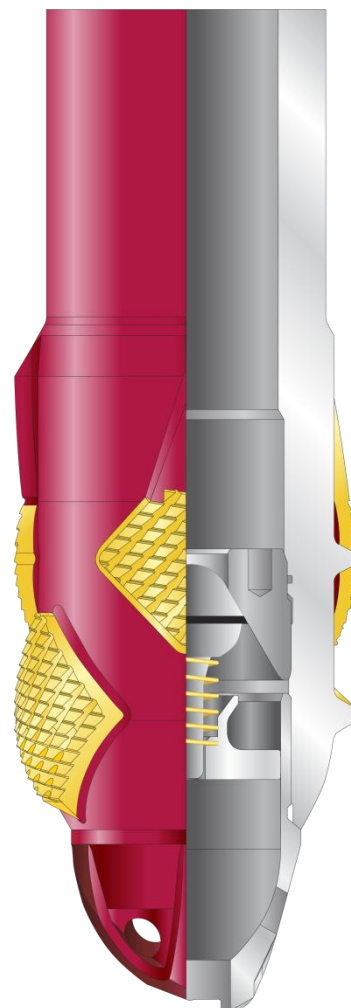
## Features and Benefits

- The integral, tungsten-carbide cutting structure provides full-bore coverage in both rotating and reciprocating applications, which enables easy passage to total depth (TD).
- The diamond-shaped cutting structures provide a 360° cutting radius that overcomes openhole bridges and well sloughing.
- The eccentric nose can climb ledges and negotiate other wellbore obstructions while the cutting structure reams out tight spots.
- The shoe enables both rotating and reciprocating reaming action while running casing and liners.
- The compact design and less-aggressive cutting structure smooth the wellbore with minimal cuttings disturbance.
- Large flow-directed ports provide full-bore coverage while rotating and reaming, and they prevent channeling while cement is pumped.
- Comprised of aluminum alloy, the standard nose withstands impact loading and high set-down weight yet still enables fast drill-out with a polycrystalline diamond (PDC) or tri-cone bit.
- The tool is compatible with all casing- and liner-running systems.
- The tool can be customized with specialty noses, valves, or threads to meet specific operational requirements.

## Tool Description

Designed for casing- and liner-running in highly deviated and horizontal wells with soft-medium formations, the DiamondBack CC reamer shoe overcomes wellbore restrictions while the cutting structure reams out tight spots, which enables the tubular string to reach TD. The eccentric guide nose climbs ledges and negotiates obstructions.

The compact tool design features a diamond-shaped, tungsten-carbide cutting structure that provides full-bore coverage in both rotating and reciprocating applications. In addition, rigid standoff stabilizer blades clear a path for the casing or liner string and most types of rigid centralizers installed above the reamer. The nose assembly is available in eccentric aluminum (standard) or eccentric composite configuration. Float valve options—all rated to API RP 10F IIIC standards—include single, double, cemented, mechanically fixed. When no valve is required, a baffle plate can be added to facilitate plug landing.



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