

QuickCut™ MillBit™ Assembly

Drills longer ratholes to accommodate longer BHAs and abrasive, high-compressive-strength formations

Applications

- Casing exits in higher-compressive-strength formations that exceed carbide-cutting-structure capabilities
- Casing exits that require longer, more complex drilling assemblies to be positioned completely outside the departure window
- Short-radius step outs from the parent casing
- Multilateral installations with longer directional-drilling bottomhole assemblies (BHAs)

Features and Benefits

- The MillBit design leverages field-proven QuickCut casing-exit technology.
- A robust steel body facilitates the transition from milling to drilling.
- Independent cutting structures target milling and drilling operations separately.
- High-density PDC cutters are strategically placed to be exposed only while formation drilling.
- The MillBit assembly is interchangeable with Weatherford QuickCut and Shallow-Angle QuickCut concave systems.

Tool Description

The Weatherford QuickCut MillBit assembly drills a longer rathole to accommodate longer directional-drilling BHAs and forward drilling in abrasive, high-compressive-strength formations. Suitable for casing exits and multilateral installations in both new and existing wells, the MillBit assembly is interchangeable with 2- or 3-degree whipstock assemblies.

QuickCut MillBit performance is not limited by casing material, the number of casing strings, or casing inclination. It includes independent cutting structures that target milling and drilling operations separately. Once the MillBit assembly departs the casing wall, high-density PDC drilling cutters engage the formation.



The Weatherford QuickCut MillBit assembly features independent cutting structures that target milling and drilling operations separately.



QuickCut™ MillBit™ Assembly

Specifications

QuickCut milling assembly (3-degree concave)

Casing size	9-5/8 in. (244.5 mm)
Casing weight	43, 47, and 53.50 SD (64.7, 69.9, and 79.6 kg/m)
Concave OD	8 in. (203 mm)
Lead mill OD	8.5 in. (215.9 mm)
Lead mill pilot OD	6-3/8 in. (161.93 mm)
Lead mill connection	4-1/2 in. REG
Flex mill OD	8.5 in. (215.9 mm)
Flex mill connection	4-1/2 in. IF Box × 4-1/2 in. REG Pin

Shallow-Angle QuickCut milling assembly (2-degree concave)

Casing size	9-5/8 in. (244.5 mm)
Casing weight	43, 47, and 53.50 SD (64.7, 69.9, and 79.6 kg/m)
Concave OD	8 in. (203 mm)
Lead mill OD	8.5 in. (215.9 mm)
Lead mill pilot OD	6-3/8 in. (161.93 mm)
Lead mill connection	4-1/2 in. REG
Secondary mill OD	8.5 in. (215.9 mm)
Secondary mill connection	4-1/2 in. IF Box × 4-1/2 in. REG Pin
Flex mandrel connection	4-1/2 in. IF
Steering mill OD	8.5 in. (215.9 mm)
Steering mill connection	4-1/2 in. IF

