

Fixed Cutter Drill Bits

Trifex™ 4D-shaped cutters

Unique geometry for increased drilling efficiency

FEATURES

- Unique geometry compared to traditional cylinder cutters
- Centralized chip-breaker
- Sharper edge
- Relieved face
- Rib for improved toughness
- Optimized with Oculus™ automated dull grading analytics

BENEFITS

- Deflects cuttings across the diamond face
- Reduction in friction
- More efficient shearing
- Up to 20% improvement in cutting efficiency versus planar face geometry

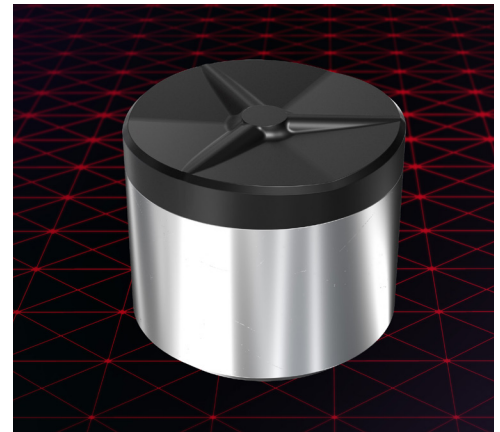
Overview

The Geometrix® 4D-shaped line of PDC cutters offer unique geometries to traditional cylinder cutters to produce more efficient drilling. Using the Design at the Customer Interface (DatCI™) process, application design evaluation (ADE™) specialists around the world bring custom solutions to specific applications in an effort to increase rate of penetration and reduce drilling costs. The design of various shapes are customized for different applications to better solve for chip flow, friction, and thermal degradation.

Trifex 4D-shaped cutters are built on the existing platform of Juggernaut® PDC cutter technology specifically designed for the toughest and most abrasive applications. Utilizing Oculus™ automated dull grading technology, Trifex cutters can be precisely placed on a cutting structure to maximize efficiency in the application. In drilling simulations, the Trifex cutter show up to a 20% improvement in cutting efficiency versus standard face geometry.

Design

The Trifex cutter features a sharper edge for more efficient shearing, a relieved face to reduce friction, a rib to increase structural integrity, and centralized chip-breaker to deflect cuttings across the diamond face.



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