

Fixed Cutter Drill Bits

Juggernaut® cutters

Customized PDC technology to address the most challenging drilling environments

FEATURES

- Juggernaut® cutter technology for increased impact and abrasion resistance
- Oculus™ automated dull grading analytics for proper cutter selection
- Cerebro® in-bit sensing insights incorporated into each design
- Optimized application-specific performance

BENEFITS

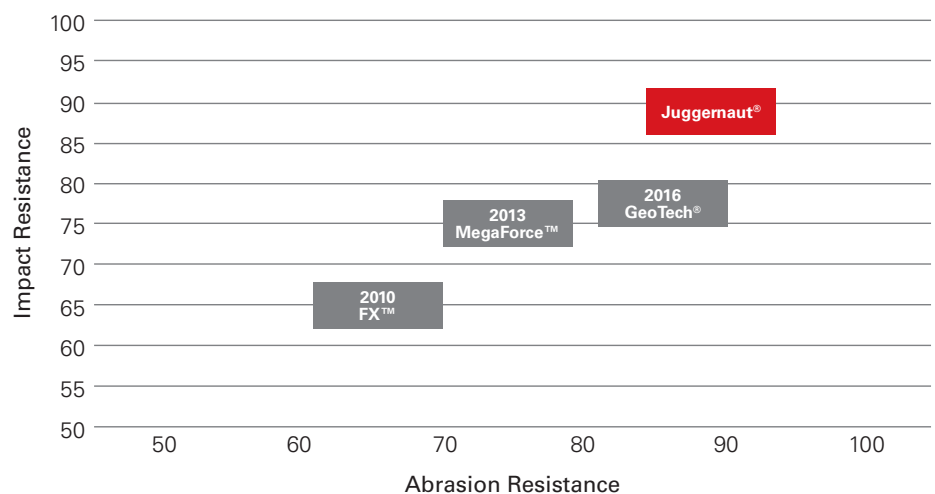
- New diamond formula for extreme toughness
- Significantly reduces spalling and broken cutter dull condition across multiple field applications
- Machine-learning algorithms capture precise dull information for each individual cutter
- In-bit data from offsets provide a clear understanding of the downhole drilling environment

Overview

Juggernaut® cutters are an advanced family of cutters specifically designed to address today's most challenging drilling environments. Global drilling applications are complex, characterized by interbedded formations, challenging lithologies, and varying rock strengths. Additionally, hard and abrasive environments are often encountered. These demanding conditions and diverse well designs require a specialized polycrystalline diamond compact (PDC) cutter platform that remains sharper, drills faster, and lasts longer than other cutters.

Ongoing cutter development continues to challenge the traditional abrasion vs. toughness trade-offs, leading to a thicker, stronger diamond with enhanced thermal stability. Juggernaut cutters are engineered to balance abrasion and toughness for each application and to optimize in-bit placement of the cutter technologies for superior performance.

Field data shows that Juggernaut cutters have achieved a 21% improvement in ultimate load and a 64% reduction in wear rate. Combined with enhanced thermal stability, these cutters exhibit significantly reduced spalling and broken cutter dull conditions across multiple field applications.



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