

Fixed Cutter Drill Bits

Juggernaut® X cutters

Advanced PDC technology for optimized drilling performance

FEATURES

- Ultra-thick diamond tables that can be shaped to optimize drilling efficiency
- Oculus™ automated dull grading and analytics for proper cutter selection
- Engineered for complex formations

BENEFITS

- Improved efficiency: cutters increase ROP, operators can drill faster and reduce well construction time
- Improved durability: with decreased breakage, chipping, and spalling for longer operational life
- Versatility: performs in interbedded, hard rock, abrasive formations, geothermal, and other low carbon applications

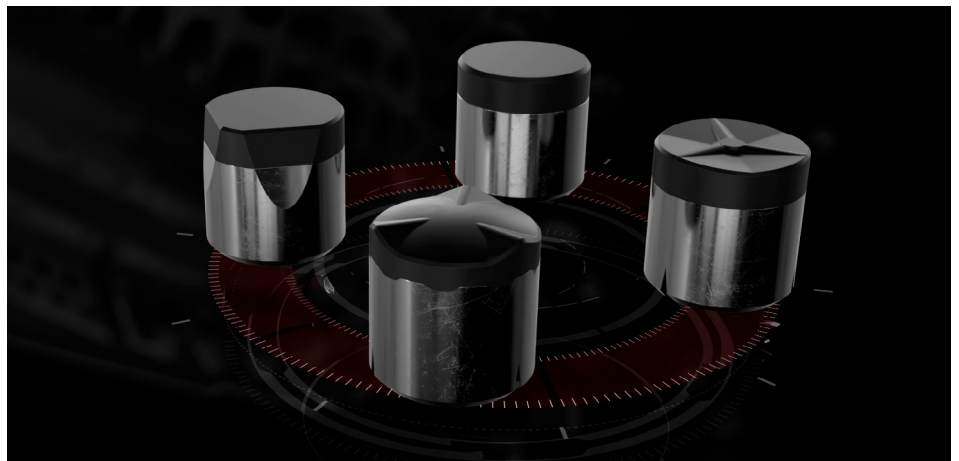
Overview

Drilling operators face harsh geological challenges. Hard rock formations command improvements in cutter technologies that increase rate of penetration (ROP) and mitigate well construction time.

Halliburton's Juggernaut® X PDC cutters are engineered to maximize performance and increase durability to deliver optimal results in varied drilling conditions. Test results show decreased PDC breakage, chipping, and spalling.

The development of Juggernaut X cutters began in the lab, where dull conditions were analyzed with Oculus™ automated dull grading. This process led to new cutters that outperform existing capabilities for complex drilling environments. Juggernaut X cutters enable operators to achieve greater footage at higher ROP with a single drill bit. These premium cutters are equipped with ultra-thick diamond tables and allow for geometric shaping that boosts drilling efficiency.

Field testing of the Juggernaut X cutters showed a 20% improvement in dull conditions and demonstrated superior durability and performance. The cutters perform in a variety of environments, such as interbedded, hard rock, abrasive formations, geothermal, and other low carbon applications.



Juggernaut® X cutters perform in complex drilling environments, such as interbedded, hard rock, abrasive formations, geothermal, and other low carbon applications.

Cutter durability and performance

	STANDARD CUTTERS	JUGGERNAUT® CUTTERS	JUGGERNAUT® X CUTTERS
Durability	Low	Medium	High
Abrasion resistance	Low	Medium	High
Thermal stability	Medium	Medium	High
Shapeability	Minimal	Most	All
Diamond thickness	2 mm	3 mm+	3.5 mm+
Advanced carbide	No	No	Yes

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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