

# Juggernaut™ Middle East and North Africa Cutter Platform

## CUSTOMIZED PDC TECHNOLOGY FOR CHALLENGING DRILLING ENVIRONMENT

### OVERVIEW

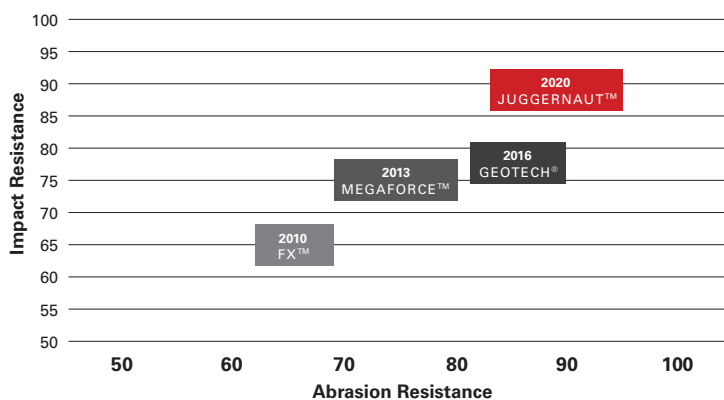
Halliburton Juggernaut™ cutters are the first advanced cutter family specifically created to address the challenging Middle East and North Africa drilling environment.

Middle Eastern and North African applications are characterized by interbedded carbonates (anhydrite, dolomite, limestone) with transition drilling hazards, including changing rock strengths. Additionally, hard and abrasive environments are often encountered. These challenging drilling environments and diverse well designs require a specific polycrystalline diamond compact (PDC) cutter platform that is customized to stay sharper than other cutters, and to drill faster and longer.

We develop customized cutter solutions to properly balance the abrasion and toughness needed in each application, and to optimize in-bit placement of each of our cutter technologies in order to deliver superior performance on each run.

Ongoing cutter development continues to challenge the traditional abrasion vs. toughness tradeoffs, leading to a thicker, stronger diamond with added thermal stability. To date, field data shows that our latest North American cutter technology delivers a 21% improvement in ultimate load and a 64% decrease in wear rate. In combination with enhanced thermal stability, these cutters demonstrate significantly reduced spalling and broken-tooth dull conditions across multiple field applications.

### Evolution of Halliburton Drill Bits & Services' PDC Cutters



For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

### FEATURES

- » Oculus™ big data analytics for automated dull grading
- » Cerebro® and Cerebro Force™ downhole insights
- » PDC development process combining in-depth knowledge of PDC cutter microstructure with unique lab test methodologies to deliver optimized application-specific performance

### BENEFITS

- » Customized cutters, designed for specific applications, that stay sharper than other cutters in order to drill faster and longer
- » Most thermally stable diamond table available in the industry
- » New diamond formula for extreme toughness
- » Integrated data and analytics to recalibrate the cutter prescription per application

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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