

# Hedron® Fixed Cutter PDC Bits

## NEXT-GENERATION OF CUSTOMIZED DRILL BITS



### OVERVIEW

Halliburton Drill Bits and Services Hedron® platform of fixed cutter PDC drill bits combine state-of-the-art technology with an industry-leading customization process to deliver the highest performing, application-specific designs.

Every Hedron drill bit is designed using the Design at the Customer Interface (DatCI<sup>SM</sup>) process, along with proprietary IBitS™ modeling and simulation software, enabling our design teams to tailor each bit to unique challenges. While Hedron drill bits can utilize a wide range of design options and features, at the core of every Hedron drill bit are:

#### Juggernaut® Cutters

Juggernaut cutters are the latest in the advanced Halliburton cutter solutions family. These cutters properly balance the abrasion and toughness needed in

each application. In combination with enhanced thermal stability, these cutters significantly reduce spalling and broken cutter dull conditions across multiple field applications.

#### Cerebro® In-Bit Sensing

In-bit data from offsets provide a clear understanding of the downhole drilling environment experienced by the drill bit. It enables Halliburton to select the best combination of bit features that can directly address harmful, performance-limiting downhole conditions.

#### Oculus™ Automated Dull Grading Analytics

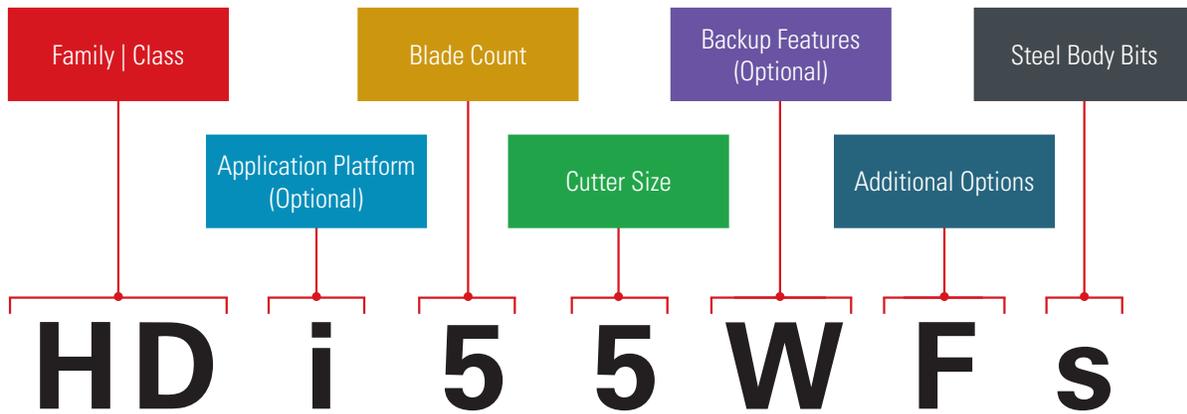
Oculus is a state-of-the-art automated dull grading analytics system that utilizes machine-learning algorithms to capture precise dull information for each individual cutter.

### 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
- » Proprietary IBitS™ modeling and simulation software

### BENEFITS

- » Increased drilling performance and efficiency in the most challenging applications
- » Optimized cutters in each position
- » Bit features that directly address harmful, performance-limiting downhole conditions
- » Precision design tools that deliver accelerated performance improvement



Family | Class

HD = Hedron®

Application Platform (Optional)

- D = Directional
- E = GeoPilot™ Dirigo RSS System
- G = Point-the-Bit RSS System
- i = Push-the-Bit RSS Including iCruise®

Blade Count

Blade count indicates the number of blades on the bit.

- 3 = Three Blades
- 4 = Four Blades
- 5 = Five Blades
- 6 = Six Blades
- 7 = Seven Blades
- 8 = Eight Blades
- 9 = Nine Blades
- 0 = Ten Blades
- 1 = Eleven Blades
- 2 = Twelve or More Blades

Cutter Size

The cutter size digit describes the main cutter size on the bit in 1/8" increments.

- 2 = 1/4" (8mm)
- 3 = 3/8" (10.5mm)
- 4 = 1/2" (13mm)
- 5 = 5/8" (16mm)
- 6 = 3/4" (19mm)

Backup Features (Optional)

- D = Dual Row Backup PDC Cutters
- W = Stega™ Efficient Backup Cutter Layout
- I = Impregnated Diamond Backup Discs
- R = Shyfter™ Active Shaped Backup Elements
- M = Shyfter™ Passive Shaped Backup Elements
- U = Cruzer™ Depth-of-Cut Rolling Element

Additional Options

- K = Geometrix® Shaped Cutters
- B = Saber™ Engineered Blade Relief
- O = Cerebro® In-bit Sensing Capable
- F = Cerebro Force™ In-bit Sensing Capable
- T = Tracker™ Articulating Gauge Pads

Steel Body Bits

s = Steel Body Bits

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

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