The MegaForce™ Bit
The Industry’s Most Robust Matrix Body Drill Bit.
The MegaForce™ Bit

Higher penetration rates. Lower cost per foot. Application-specific designs. The Halliburton MegaForce™ bit is the Industry’s most robust matrix body drill bit

Drilling through the most challenging formations, the MegaForce™ bit features advanced SelectCutter™ PDC technology, ultra-efficient cutter layout force balancing, improved erosion resistant matrix material and enhanced hydraulics. Designed for an operator’s specific application by one of our Application Design Evaluation (ADE™) service specialists using our industry-unique Design at the Customer Interface (DatCI™) Process, the result is a matrix bit with a combination of higher ROP and longer intervals drilled than any other bit.

SelectCutter™ PDC Technology

Abrasion Resistance
- The capability of a cutter to shear formation and minimize the loss of diamond
- Improvements in diamond abrasion resistance maintains the sharp cutting edge longer for a higher rate of penetration.

Impact Resistance
- The ability of a cutter to manage a dynamic force
- Improvements in cutter impact resistance inhibit chipping and breaking to retain a sharp drilling edge for a higher rate of penetration

Enhanced Hydraulics: The Micro Nozzle Advantage

- Improved placement optimizes cleaning and minimizes erosion
- Additional nozzles allow for more TFA flexibility
- Micro nozzles permit significant increases in junk slot volume to:
  - Improve cleaning at high ROP
  - Reduce chances of bit balling
  - Offer additional design flexibility for minimizing erosion

Advanced Tungsten Carbide Matrix

- 20% improvement in erosion resistance over previous matrix
  - Less Cutting structure loss
  - Helps ensure higher ROP
- 20% improvement in wear resistance over previous matrix
  - Less Bit body damage
  - Helps ensure longer intervals drilled

(TMI) Thermal Mechanical Integrity™
- The increased capacity of a cutter to endure frictional heat generated during the drilling process.
- Improving TMI means the diamond-to-diamond bonds can survive elevated temperatures prior to separating resulting in premature cutter wear.
The MegaForce™ Bit

Real-world results from the Industry’s most robust matrix body bit.

Rockies: 20% Faster ROP and increased interval drilled
- HDBS 7 7/8” MM65H vs FX65
- Uintah County Utah
- Drilled 31% more footage at 20% increase in ROP over the same section. Improved dull condition to 1-1-WT

Texas Panhandle: Increased interval in Granite Wash
- HDBS 6 1/8 MM64DH
- Wheeler County Texas
- 18% increase in footage over best offset while drilling in the Granite Wash

Permian Basin: Higher ROP with one run to TD
- HDBS 7 7/8” MM65DMH
- Upton County Texas
- Drilled entire interval at a ROP 37% higher than only other offset to reach TD in one run.

For more information about the Halliburton MegaForce bit, please visit us at www.halliburton.com/drillbits.
# MegaForce™ Drill Bits Nomenclature

<table>
<thead>
<tr>
<th>FAMILY</th>
<th>CLASS</th>
<th>APPLICATION PLATFORM (OPTIONAL)</th>
<th>BLADE COUNT</th>
<th>CUTTER SIZE</th>
<th>BACKUP CUTTER (OPTIONAL)</th>
<th>OPTIONAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MegaForce™ Drill Bits</td>
<td>D = Directional (all other directional systems)</td>
<td>The blade count describes the number of blades on the bit.</td>
<td>3 = Three Blades</td>
<td>2 = 8 mm</td>
<td>3/8”</td>
<td>D = Dual Row Backup</td>
</tr>
<tr>
<td>G = Geo-Pilot® Rotary Steerable</td>
<td>G = Geo-Pilot® EDL Rotary Steerable</td>
<td></td>
<td>4 = Four Blades</td>
<td>3 = 10.5 mm</td>
<td>13/32”</td>
<td>M = Modified Diamond Round</td>
</tr>
<tr>
<td>E = Geo-Pilot® EDL Rotary Steerable</td>
<td>T = Turbine High Rotational Speed</td>
<td></td>
<td>5 = Five Blades</td>
<td>4 = 13 mm</td>
<td>1/2”</td>
<td>R = R1™ Backup Cutters</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6 = Six Blades</td>
<td>5 = 16 mm</td>
<td>5/8”</td>
<td>I = Impreg Backup Discs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7 = Seven Blades</td>
<td>6 = 19 mm</td>
<td>3/4”</td>
<td>C = Carbide Impact Arrestor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8 = Eight Blades</td>
<td>8 = 25 mm</td>
<td>1”</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9 = Nine Blades</td>
<td>9 = 30 mm</td>
<td>1-1/4”</td>
<td></td>
</tr>
</tbody>
</table>

## CUTTER SIZE

The cutter size digit describes the size of the PDC cutters on the bit. On bits with multiple cutter sizes, the predominant size is described.

- 2 = 8 mm | 3/8”
- 3 = 10.5 mm | 13/32”
- 4 = 13 mm | 1/2”
- 5 = 16 mm | 5/8”
- 6 = 19 mm | 3/4”
- 8 = 25 mm | 1”

## BACKUP CUTTER (OPTIONAL)

- D = Dual Row Backup
- M = Modified Diamond Round
- R = R1™ Backup Cutters
- I = Impreg Backup Discs
- C = Carbide Impact Arrestor

## OPTIONAL FEATURES

- Not listed in nomenclature but found on marketing spec sheet. For more information, please contact your local Halliburton Drill Bits representative.
- b = Backreaming
- c = Carbide Reinforcement
- e = SE - Highly Spiraled
- f = Full PDC Gauge Trimmers
- k = Kerfing - Scribe Cutters
- p = PDC Gauge Reinforcement
- u = Updrill
- H = Hard and abrasive

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## Advantages of the MegaForce™ Bit

- Higher Rate of Penetration
- More Robust Cutting Structure
- Lower Cost per Foot
- Application Specific Design