Optimus ShockWave shaped cutter
Drill Faster. Drill Farther.

The Optimus™ ShockWave shaped cutter from Baker Hughes, saves time and money by extending cutter life to enable your drill bit to drill faster and farther. Designed for the Baker Hughes Dynamus™ extended-life drill bit platform, novel ShockWave geometry improves cutter-rock interaction for efficient drilling and increased durability in all applications.

Drill faster
The ShockWave cutter geometry increases stress on the rock, enabling the rock to fracture with less energy. The result is a cutter that drills like a single chamfer cutter with the impact resistance of a dual chamfer cutter, resulting in increased ROP for a given weight on bit (WOB).

Drill farther
Heat on the face of a cutter causes it to wear and chip faster. The unique shape moves the rock up the trough and breaks it as it hits the ShockWave feature. Cuttings are projected away from the face of the cutter resulting in lower heat on the diamond table. Less heat on the diamond table results in longer cutter life.

Contact a Baker Hughes representative today or visit www.bakerhughes.com to learn more about the Optimus ShockWave shaped cutter.

Applications
- Conventional and unconventional oil and gas wells
- Abrasive and interbedded formations

Benefits
- Lowers WOB requirement for a given ROP
- Reduces friction on diamond table
- Lowers heat generation at cutter/rock interface
- Breaks up rock cuttings to improve efficiency
- Enables faster drilling and longer runs