The award-winning Hughes Christensen Kymera™ hybrid bit by Baker Hughes combines PDC and roller cone bit technology for smoother drilling, remarkable torque management, and precise steerability.

Leveraging the cutting superiority of PDCs in soft formations and the rock-crushing strength and stability of roller cones in hard or interbedded formations, the hybrid bit has the potential to maintain higher overall rate of penetration (ROP) for more footage than a roller cone or PDC could individually.

A superior directional bit for motor and rotary applications, the Kymera hybrid bit provides increased buildup rate capabilities, dampened torque response, and precise steerability on a variety of bottomhole assemblies.

The Kymera hybrid bit is improving drilling rates in tough applications worldwide. Within the U.S., it is successfully drilling interbedded and chert applications with single bit run lengths extended by more than 200%. In Brazil, it drilled 90% faster and 20% farther than offset bit performances. And in Iceland geothermal wells, it has proven to drill basalt sections more than twice as fast as premium roller-cone bits.

Applications
- Hard and interbedded formations
- Chert drilling
- Directional drilling
- Wells experiencing torque or vibration-related issues

Features and Benefits
- Rolling torque management with dual action cutting structures
  - Increases ROP potential
  - Reduces weight-on-bit requirements
  - Better directional control, lower and more consistent drilling torque
  - Reduces torsional vibration and axial vibration
- Balanced downhole dynamics
  - Enhances stability, bit life, and drilling efficiency
- Advanced roller cone bearing and seal package
  - Maximum seal reliability and longer bit life

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This foot-based data graph demonstrates a field comparison between the level of torque generated by a standard PDC followed by a Kymera™ hybrid drill bit and the dramatic comparison in achievable footage and ROP.