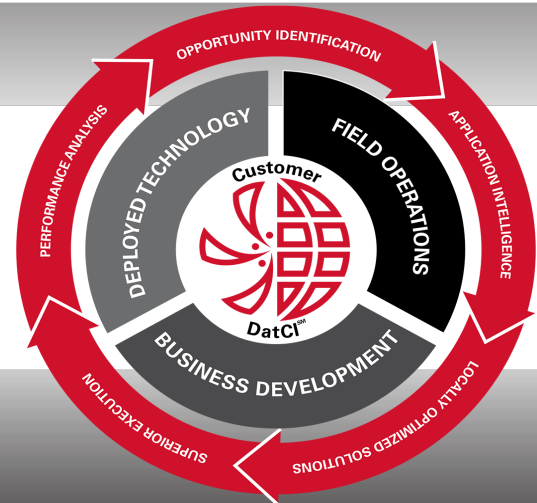


STRIKEFORCE™ ADVANCED ROLLER CONE TECHNOLOGY



DatCISM APPLICATION SPECIFIC KNOWLEDGE

Every drilling challenge is unique thus Halliburton Drill Bits and Services takes a unique approach to maximizing the performance for each and every run. It all starts with local application knowledge. In collaboration with our customers, our designers and application engineers live and breathe the application of interest and utilize that knowledge to determine the optimal StrikeForce™ bit for the application. If necessary, the designing of a new cutting structure can be performed by the local team using the patented IBitSM design software. For the local DatCISM team the process doesn't end with the delivery of the bit; drilling parameter recommendations are also provided to the customer at the rig site to ensure optimum performance. Furthermore, when drilling is completed, the team analyzes the performance and identifies any improvements in design or drilling recommendations to ensure that each successive run demonstrates continuous improvement. The speed at which Halliburton Drill Bits and Services can iterate through the cycles of learning provides an extreme advantage for maximizing drilling economics.

ENERGY BALANCED® BIT TECHNOLOGY

Only Halliburton DBS offers the Energy Balanced® patented technology, a cutting structure which is balanced to equalize the bits' bearing loading among each arm and cone. The balanced bit also has a balanced rock removal among all three cones creating the most efficient cutting structure. This is accomplished via our drilling simulator in which the cutting elements are optimized in their placement, orientation and count by examination of the forces generated as the elements engage with the formation. The result minimizes vibration which enhances the service life of sensitive instrumentation and equipment while increasing ROP and durability.

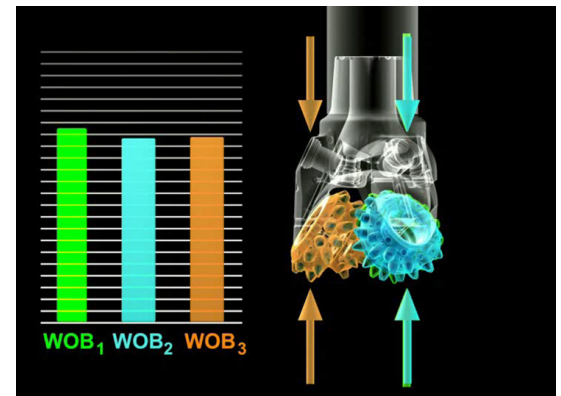


Figure 1. Customized Energy Balancing® allows optimal distribution of force on each cone.

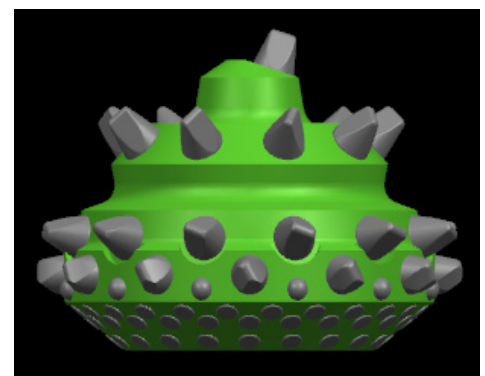


Figure 2. Customized cutting structures can be designed with oriented tungsten carbide inserts.

Solving challenges.™

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