Balanced Longevity with Reliable Results

The TurboForce™ diamond impregnated drill bits feature advanced technology that result in longer intervals drilled, enhanced versatility and reliability, and a lower cost per foot. Halliburton’s exclusive mass distribution calculation and balancing methods improve bit stability and negate underbalanced centrifugal forces. The increased diamond content on the continuous shoulder further promotes bit stability and enables greater run length. Hydro-dynamic bridges redirect fluid and boost the cleaning and cooling of the cutting structure. A proprietary wear indicator precisely determines the bit condition, optimizing decisions for product usage. Advanced active gauge geometry reduces differential sticking, improving overall drilling efficiency.

TurboForce™ Drill Bit Differentiators

- Longer Intervals Drilled
- Increased Stability
- Improved Cleaning and Cooling
- Lower Cost Per Foot
- Application Specific Design
**Mass Balancing**
The reduction in mass imbalance force results in longer runs.

- **Unbalanced**
  - If RPM = 1200
  - Then force angle = 158°
  - Centrifugal force = 275 N

- **Internally Balanced**
  - If RPM = 1200
  - Then force angle = ---
  - Centrifugal force = 0 N

**Continuous Shoulder**
The state-of-the-art TurboForce drill bits provide a larger contact area with higher diamond volume, enabling better downhole stability and longer bit life.

**Hydro-Dynamic Bridges**
The structure of the TurboForce bits redirects fluid flow across the bottom hole, strengthening the high diamond volume blades and improved cleaning and cooling.

**Wear Indicator**
A proprietary feature constructed of a low-friction titanium material, the wear indicator enables precise recognition of bit wear, improving operational efficiency.

**Optimized Active Gauge**
A new active gauge enables better stabilization and lowers torque, improving stability while reducing the chances of differential or bit sticking.