



**TorkBuster®**

The Ultimate Stick-Slip Solution



When Every Run Counts™



Ulterra's unique TorkBuster tool dramatically reduces bit related torque and stick-slip problems adding significant efficiency to drilling operations.

### Technology Benefits

- Reduced drilling cost by improving bit performance
- Effective alternative to multiple Roller cone runs
- Enables use of more aggressive PDC bits
- Higher ROP in hard formations
- Increases PDC bit life resulting in fewer trips
- Improved BHA life- mitigates damage associated with stick slip
- Improved tool face control in directional applications



### Increased Performance

- Formation threshold = torque required to fail the formation and the level of reactive torque transmitted into the BHA
- If formation threshold changes erratically, reactive torque becomes erratic, causing BHA instability and stick-slip
- TorkBuster impulse torque= high frequency torsional energy provided by TorkBuster
- Enables higher formation threshold to be drilled without increasing reactive torque transmitted into BHA
- With TorkBuster reactive torque is transmitted smoothly into the BHA reducing vibrations and stick-slip
- TorkBuster is available for hole sizes from 6" (152mm) to 9 7/8" (250mm)

### Patented Application

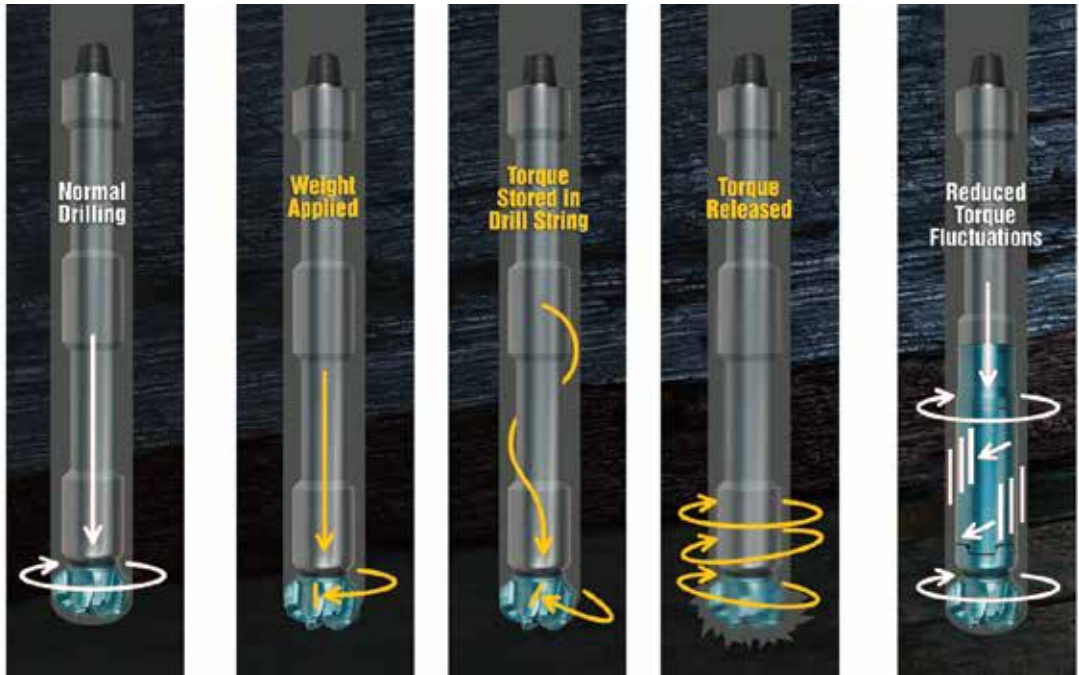
- Mitigates bit related "Stick Slip"
- Generates Torsional Energy
- Smooths out reactive torque into the BHA
- Directs high frequency rotational impact forces to the bit

# TORKBUSTER Ultimate Stick-Slip Technology

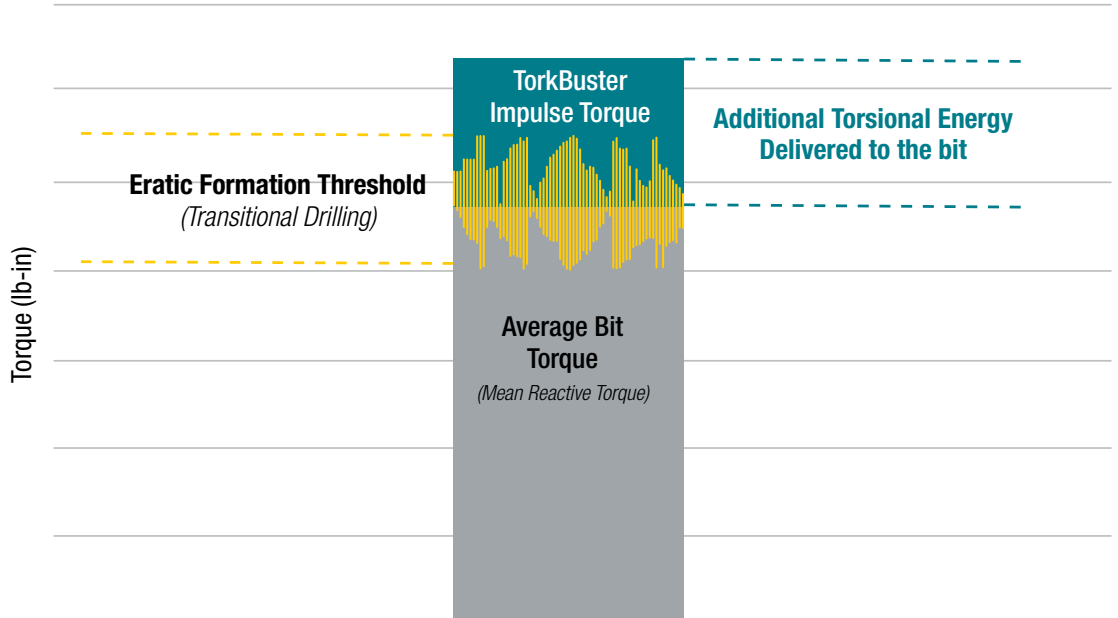
## Torque Reduction

### Problem Drilling without Torkbuster

### Solution with Torkbuster



## Application



## When Every Run Counts™

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*Ultrerra is dedicated to maximizing the efficiency of oil and gas drilling operations through the use of cutting edge steel and matrix PDC bits and innovative application technologies. Throughout the world's drilling basins we are building our reputation on proven performance. When every run counts, let us show you how we can improve your drilling efficiencies and lower your costs.*



**ULTERRA™**

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