

Fixed Cutter Drill Bits

Cruzer™ depth-of-cut rolling element

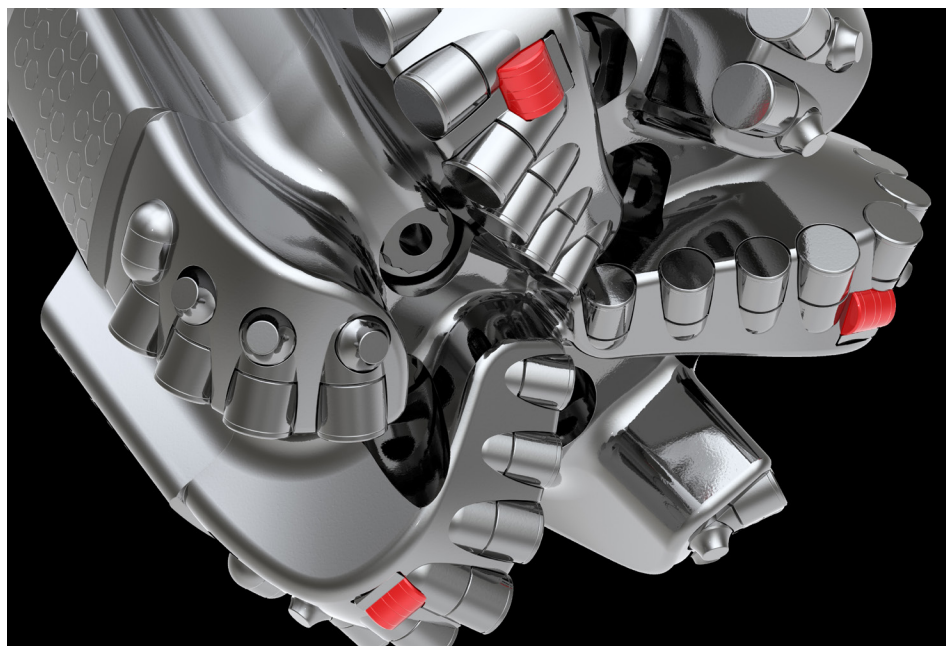
Increased tool face control for better drilling economics and directional control

FEATURES

- Diamond depth-of-cut rolling element
- Supports dynamic stability of rotary steerable systems
- Optimized placement

BENEFITS

- Increased tool face control without reducing drilling torque
- Increased average rate of penetration (ROP)
- Lowers cost per foot



Overview

The Cruiser™ depth-of-cut rolling element is an enhancement feature available on polycrystalline diamond compact (PDC) fixed cutter drill bits. With this technology, the drill bit can drill the most challenging formations because of its high level of abrasion resistance, impact resistance, and thermal mechanical integrity (TMI). Additionally, the rolling elements reduce total bit torque requirements when compared to static depth-of-cut elements.

The diamond and carbide bearing lowers the coefficient of friction, which ensures low torque and heat generation. The material integrity of this bearing keeps the rolling element in place, thus minimizing wear. The rolling element's small package size allows this feature to be incorporated into existing or new designs and are repairable and replaceable for future runs.

Designed to improve overall drilling economics by reducing torque and increasing ROP, other benefits include durability, steerability, and consistency of results. The Cruiser rolling element is particularly effective in applications requiring more stabilized control of the directional drilling process.

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