



GunDRILL 6 Blade Bi Directional Reamer



GunDRILL 4 Blade Bi Directional Reamer



GunDRILL 4 Blade Directional Reamer



GunDRILL 6 Blade Uni Directional Reamer

The GunDRILL Reamer is a versatile drilling reamer. This unique PDC-based reamer is the only one of its type on the market today, delivering accurately gauged and high quality wellbores. This tool can open boreholes in cases of severe swelling and/or borehole instability.

It provides reaming through a simple blade design that uses proprietary Tungsten Carbide Inserts (TCI) that provide more reaming or stabilization according to the drilling and formation conditions and maintains the gauge for extended durations. TCI distribution is optimized to provide continuous reaming in longitudinal and radial directions. The Rubicon PDC distribution works with our in-house cutter matrix design, resulting in balanced drilling and reduced vibrations. PDC gauge is passive allowing it to interact with formation only when undergauge occurs.

The GunDRILL Reamer is highly flexible being uni-directional for applications where only back reaming is required and bi-directional for applications where front and back reaming is required. There is also the directional variant with flat TCIs for application where sliding is expected. The tool can be made in steel and non-magnetic configurations to extend the flexibility of tool placement anywhere along the BHA.

MAKING IT BETTER

By utilizing the Rubicon GunDRILL Reamer the borehole is reamed to perfection, the BHA can be pulled to surface safely overcoming high torque, multiple sticking points and difficult intervals. In some situations, it increases ROP due to smoother running in hole and casing /completions can be set to TD without issue.

Applications

A GunDRILL Reamer should be used whenever stuck pipe problems are expected such as:

- Mobile, fractured and faulted formations
- Reactive formations
- Over-Pressured formations
- Hole cleaning problems
- Unconsolidated formations
- Key seats, ledges and micro doglegs
- Swelling shale and salt formations
- Heavy back reaming
- Tight spots

A GunDRILL Reamer should also be used when smooth well construction is desired, such as:

- Deployment of casing
- Deployment of open hole completions

Features

- Balanced and optimized cutting and reaming structure
- Structural integrity validated using FEA
- Optimized mud flow through helical mud ways validated using CFD
- 360° contact for maximum stabilization and lower vibration
- Comes in three configurations Uni Directional, Bi Directional and Directional
- 4 Blades configuration available for extra flow by area
- Proprietary TCI design maintains tool gauge for extended durations and provides better directional control

Customer Benefits

- Reduced torque compared to the fixed blade stabilizers
- Security against sticking downhole, provided string can be rotated
- Re-opens holes to avoid having stuck pipe due to borehole problems
- Reduces torque and drag lost in reaming highly irregular holes
- Improves hole shape by removing ledges and irregularities
- Reduce NPT related to POOH and encountering heavy back reaming in mobile and transient formations
- Opens key seats and micro doglegs
- Eliminates dedicated wiper trips
- Smooth deployment of well construction

For more information

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