

Rotary Deck Bushing

Balls make the difference...
Increased drilling production proves it



Function

Essentially the Foremost Rotary Deck Bushing is a two piece bearing assembly which replaces the friction or non-rotating bushing which sits in the deck of a blast hole drill. The inner bearing race of the rotary bushing will rotate with the drill steel when sufficient surface contact is made by the rotating drill steel as it passes through the center bore of the bushing.

The outer race of the bushing is held stationary in the deck of the drill by means of locating flats and or lugs which are positioned on the circumference of the flange that is integral with the outer race. The flange supports the bushing assembly in the deck hole which maintains the central position with the drill steel.

Features

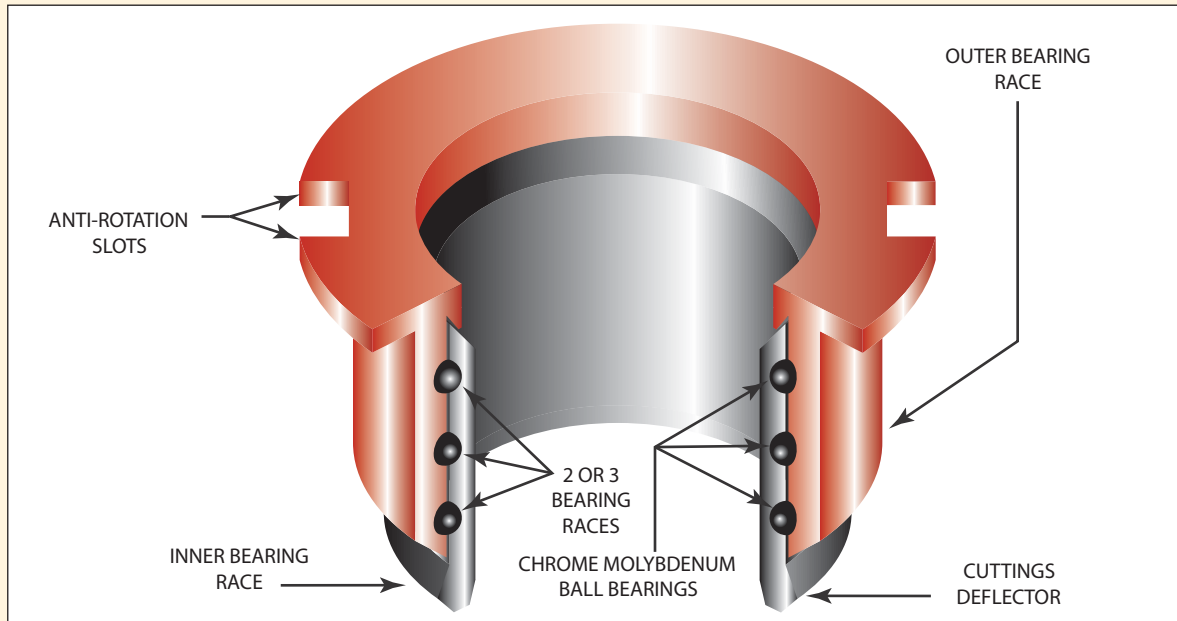
- No Maintenance requirements
- Manufactured to O.E.M. specifications
- Availability in various configurations (hardened, standard, extended)
- Precision machined

Benefits

- Reduced friction to drill string components
- Permits higher operating speed
- Provides stabilization for collaring in the bit
- No modifications to the drill are required
- Increased bit life
- Reduced drill vibrations

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Typically the life and over-all performance of a rotary deck bushing is similar to that of a tricone bit. The factors which impact the running life of these two products are basically the same. The deck bushing will outlast the tricone when it comes down to individual product life. The longevity of each bushing may vary from one area of a mining operation to another. This depends on the drilling conditions and other factors listed below just as those same conditions would have an effect on various sizes and types of bits.

In hard rock drilling applications found at most iron ore and copper mines where the cuttings are typically more abrasive, the deck bushing will not be in service for as long a period as that, for example, of the average coal mine application where the overburden is generally boulders and gravels etc. Typically rotary deck bushing life can vary between 25 and 65,000 meters depending upon the application.

Factors Affecting Deck Bushing Performance

- R.P.M. of the drill steel
- Vertical or angle drilling application
- Drill steel diameter
- Deck Bushing diameter
- Condition of the drill
- Pulldown forces applied to the drill steel
- Drilling conditions (abrasiveness of the cuttings)



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Unless otherwise stated, specifications are for a standard unit and are subject to change without notice. Performance specifications are theoretical maximums and do not include mechanical or other efficiency losses. Actual performance may vary.