

APPLICATION FOCUS

Cam Follower Solutions for the Oil Industry

The patented RBCRoller® cam follower provides increased service life and load carrying capacity in highly contaminated operating environments.

The Situation

Tube injectors feed coiled steel tubing into bore holes, facilitating deep hole drilling without concern for collapsing bore hole walls. Yoke style cam followers transmit both the gripping force and unrestricted tube feed guidance necessary for this critical operation. The slow speed of the tube feeding operation creates high cam follower loads. As tubing is retrieved from the bore hole, large amounts of water, acid, and mud attack the cam followers. This often results in expensive, premature cam follower failure and replacement. Typical standard needle roller cam followers were unable to withstand the excessive contamination experienced in tube injector operations.



The Solution

RBC engineers realized that a multi-part solution was needed. Our goals included: improved sealing to minimize entry of contaminants, better grease retention for long life, and higher load capacity to extend life and minimize the effects of particulates that might enter the bearing.

RBCRoller cam followers incorporate groundbreaking design elements to deliver the needed improvement in performance for this demanding application.

RBCRoller Advantages

RBCRoller cam followers utilize a double row of cylindrical rollers that provide up to a 125% increase in dynamic load capacity. In addition to higher load capacity, the rollers utilize end guidance that eliminates the skewing often experienced by typical needle roller cam followers. This minimizes frictional heat for a significant improvement in service life – up to a 400% improvement over needle roller cam followers. To further reduce maintenance concerns, RBCRoller cam followers are lubed for life.

RBCRoller cam followers are now available in a wide variety of sizes and styles including yoke style (studless), stud type, and other innovative configurations.



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