



Location:
North America-based aggregate plant

Industry:
Aggregate

Problem:
Bearings used at the plant could not accommodate misalignment, leading to performance issues.

Solution:
Rex 6000 Series SHURLOK Adapter Mounted Roller Bearings

Results:
Tightness accuracy improved, misalignment was minimized and the mechanic on the project responded favorably to the new product.

Summary:
The customer found the Rex product to be easier to install than a previously used brand and also found it to be better at handling misalignment.

Rex 6000 Series SHURLOK Adapter Mounted Bearings Reduce Costs at Aggregate Plant

An aggregate plant cut costs dramatically by installing Rex® 6000 Series SHURLOK® Adapter Mounted Roller Bearings on the bend rolls and tail pulleys of inclined belt conveyors that transported materials between processing operations and stock piles. The company saved installation costs because the bearings were easier to replace, and it saved during operation because they handled misalignment and withstood contamination better than the previous bearings.

The Rex 6000 Series SHURLOK Adapter Mounted Roller Bearings have a one-piece housing and are pre-assembled and pre-lubricated. By contrast, adapter mounted roller bearings made by other manufacturers must be assembled, adjusted and lubricated onsite. Setting clearances on the previous bearings in the field with feeler gauges led to inaccuracies, and their split housings exposed them to contaminants during assembly.

With the former bearings, it was difficult to know when the lock nut was properly tightened. To eliminate this problem, the 6000 Series bearings have the Rexnord® Spyglass™ Optical Strain Sensor (OSS) technology built into the mounting collar. A mechanic who was involved

in installing the new bearings said, “The sight glass made it easy to tell when I had the correct tightness because it changed color.”

Because the previous bearings could not accommodate any misalignment, it became a serious problem. The company’s mechanic noted that he liked the way the new bearings moved on the shaft as a result of their misalignment capability, which can accommodate a total misalignment of up to four degrees, +/- two degrees.



Rex 6000 Series SHURLOK Adapter Mounted Roller Bearing is easier to install on the bend roll of this conveyor and also handles misalignment better than the previous bearing.