

**Location:**

Large Minnesota-based OEM supplier of conveyors and conveyor components

Industry:

Wide variety

Problem:

Time-consuming installation of bearings on pulleys

Solution:

Rex ZAF 6000 Series SHURLOK Adapter Mounted Bearings

Results:

40 man hours saved per month

Summary:

Easy-to-install SHURLOK Bearings significantly reduce installation time.

Rex 6000 Series SHURLOK Adapter Mounted Bearings Convey Savings in Installation Time

A large OEM supplier of conveyors and conveyor components dramatically cut installation times by switching to Rex® ZAF 6000 Series SHURLOK® Adapter Mounted Bearings, allowing them to save money, decrease assembly time and deliver product more quickly to customers.

Superior Core Systems™, headquartered in Morris, MN, is a large supplier of conveyors and conveyor components. As an OEM, they serve almost any industry that transports material via conveyors, such as the aggregate, waste collection, gold mining, coal mining, power plants, wood products and ship loading industries.

The head and tail pulleys of a conveyor system use two bearings each. Superior utilizes tapered adapter style bearings because they offer the most rigid and reliable mount to the shaft. At the time, the company was using SAF-style split block tapered adapter bearings, which took a lot of time to install because they require extreme care when mounting to the shaft. Besides being time consuming, the SAF-style bearings had additional drawbacks:

- SAF-style bearings are delivered unassembled and ungreased so they need substantial assembly time.
- The assembly process is subjective because internal clearances must be measured with feeler gauges.
- Unassembled bearings pose the risk of contamination during the installation process.

SHURLOK bearings slash installation times

The Rex ZAF 6000 Series SHURLOK Adapter Mounted Bearings were introduced to Superior Core Systems to address the money they were losing in terms of labor and downtime to install the SAF-style bearings.

The ZAF 6000 SHURLOK Bearing provides all the advantages of a tapered adapter bearing but is packaged as a shaft-ready device that can be installed right out of the box. The ZAF 6000 offers:

- Solid, one-piece housing that is completely assembled, including seals, grease and pre-set clearance.
- Spyglass™ Optical Strain Sensing (OSS) technology, ensuring correct installation every time by providing visual feedback when the bearing is tightened to the shaft. When the OSS eye changes color, the bearing is correctly installed.
- An integral locknut and sleeve, threaded onto the bearing inner race, makes installation and removal fast and easy.
- Pre-assembled arrival to eliminate the risk of contamination during the install process.
- Three field-interchangeable seals and auxiliary caps meet the needs of very demanding contaminated applications.

Time saved per month by using SHURLOK bearings:

Savings per bearing installed: 1 hour
Number of pulleys installed per month: 20 pulleys
Bearings per month (two per pulley): 40 bearings

Total Documented Savings: 40 man hours per month

Rexnord also provided value by offering training sessions on the installation and maintenance of the ZAF 6000 SHURLOK Bearings. Now, when a conveyor pulley requires tapered adapter bearings, Superior Core Systems' first choice is SHURLOK because of the savings in installation time. As Superior Core Systems Supervisor Josh Boardman attests, "If there is a choice, the choice is SHURLOK."



The Rex ZAF 6000 Series SHURLOK Adapter Mounted Bearing is quickly installed onto the conveyor pulleys.



Spyglass Optical Strain Sensor (OSS) technology lets the mechanic know when correct tightness is reached.