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Cost Savings Opportunity

SKF’s Durable Bearing Solution Reduces Failure and Production Disruptions at Automotive Facility

$86,000
Annual Cost Savings

Increased System Efficiency & Reliability

Eliminated Unplanned Downtime & Maintenance

Issue
An international automotive manufacturing facility produces 1,000 vehicles a day. The coating line was experiencing premature bearing failures on the conveyors (average 6-months mean time between failures), leading to unscheduled production disruptions, waste, and overtime labor costs.

Solution
Motion Industries and SKF examined the application and proposed a bearing solution that included increasing the internal clearance to compensate for thermal expansion, utilizing a seal that protected the lubricant while blocking contaminants, upgrading to a high-temperature grease, and selecting heat-treated steel rings.

Since the installation, there have been no failures in the application for over 2 years — saving the customer over $86,000 annually.

Read the Attached

Case Study

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Mi MOTION INDUSTRIES
Keeping Industry in Motion
An automotive plant has the capacity to produce 1,000 vehicles a day, so any costly, unplanned downtime can hurt the bottom line. The coating lines are a critical part of the process to keep the output moving, but the plant was experiencing premature bearing failures in sealed 6303 ball bearings in their paint conveyors. These failures were leading to production disruptions, waste, and overtime labor costs. The plant reached out to Motion Industries for help.

The local Motion team engaged SKF to examine the application and help the plant get beyond the average 6 month mean time between failures. The SKF proposal included increasing the internal clearance from C3 to C4 to compensate for thermal expansion, utilizing a double lip Viton seal to protect the lubrication and keep out contamination, upgrading to high temperature grease, and selecting rings with S1 heat treated steel.

The plant purchased 400 SKF bearings (6303-2RS2/C4S1GWP) from Motion based on the SKF recommendations, and have seen no failures in the application for over 2 years. The solution provided more rigid and durable bearings that continue to perform, resulting in reduced unplanned down time, improved productivity, lower labor costs, and less waste. A conservative estimate from the maintenance manager is that these improvements have led to over $86,000 in ongoing annual cost savings.

SKF and Motion Industries shine in auto maker’s paint shop

SKF sealed deep groove ball bearing solution results in over $86,000 annual cost savings