

Industry: Food

Application: Reduced Downtime for Replacing Bearings on Conveyor

Products: DODGE® E-Z KLEEN® Bearings



The Challenge

A customer had a conveyor in a washdown environment where they were using $1\frac{1}{2}$ " standard-duty pillow block bearings. The existing bearings had to be replaced on-average twice a year, resulting in unscheduled downtime.

The Baldor Solution

We compared the existing bearings with our DODGE E-Z KLEEN bearings and were able to show an overall cost savings, which included reduced maintenance costs and the elimination of unscheduled downtime.* Best of all, the customer will need to replace our DODGE E-Z KLEEN bearings only once a year at a scheduled interval.

* See back page for details of data analysis.

The Savings

Using our DODGE stainless-steel housed E-Z KLEEN bearings resulted in an overall cost savings of \$1,142 and reduced the company's downtime, as well as maintenance costs.

The Conclusion

Since this customer's application needs were in a washdown environment, stainless-steel housed E-Z KLEEN bearings were a key factor in making this solution successful. The DODGE E-Z KLEEN bearings reduced the customer's total cost of ownership by providing a bearing that needed to be replaced only once a year.





ANNUAL OPERATING COST

Existing Bearings

Baldor Solution

Total Savings of: \$1,141

Step 1 —

For each product that was analyzed, Baldor asked the following questions:

- What was the amount of time required to perform each of the following activities?
 - Lock out conveyor drive and belt
 - Remove the existing drive
 - Select and purchase new components
 - Install a new drive
- What was the number of employees required for each activity?
- What was the labor rate for each activity?
- What was the cost of parts for each activity?
- What was the replacement frequency of each component?
- What were the downtime costs (\$ per hour)?

Step 2 -

We calculated the total operating costs for the existing and proposed solutions using the following formulas:

Installation Cost = [(Time Spent on Activity/60 Minutes) \times (# of Employees for Each Activity) \times (Labor Rate) \times (Replacement Frequency)]

Downtime Cost = [Downtime Cost (\$ per Hour) x (Time Spent on Activity) x (Replacement Frequency)]

RESULT:

Existing or Alternative Total Operating Cost
Baldor Total Operating Cost
SAVINGS

\$ 2,331 \$ 1,168

Step 3 —

We compared the purchase price of the existing and proposed solutions to illustrate an accurate assessment of overall costs.

RESULT:

Existing or Alternative Purchase Price Baldor Purchase Price SAVINGS

\$ 70 \$ 92

Step 4 —

Based on these calculations, we were able to discover and document a **TOTAL DOCUMENTED SAVINGS OF:**

+ \$ 1,141

