



Running smoothly

FAST FACTS

Customer Profile:

A designer, manufacturer, and servicer of electronic sorters used in the food processing industry

Challenge:

The customer was experiencing v-guide failure and premature conveyor belt cracking

Solution:

Lewis-Goetz engineered a solution that involved a larger diameter pulley and decreased cover thickness

Bottom Line:

Less downtime and reduced visits from field techs equaled \$151,149 in annual savings

Challenge

The customer was experiencing v-guide failure and the cover of the conveyor belt was cracking, causing the belt to last only one season of use. The cracks in the cover were causing an issue with bacteria growth, which is unacceptable in a food-grade application. The customer was continually sending field technicians to remove and replace the belt.

Solution

To combat premature cracking of the cover, Lewis-Goetz suggested the customer use a larger diameter pulley and decrease cover thickness. This helps prevent belt deflection. Also, the dimension of the v-guide groove on the pulley was incorrect. The groove was undersized and causing the failure.

Bottom Line

After making the changes, the belt runs much smoother around the pulley. It is now being driven by the pulley and not the v-guide. The customer is experiencing a significant reduction in failures and getting multiple seasons out of a belt, which means less downtime and reduced visits from field technicians. The total savings is estimated at \$151,149 annually.

Lewis-Goetz suggested changes that caused the belt to run smoother around the pulley, which decreased downtime and maintenance costs. The total savings is estimated at \$151,149 annually.

