

Eliminate Rust From Your Kitchen

Using Lovejoy® Stainless Steel Hubs and Jaw In-Shear 6 Pin Ring

The Challenge

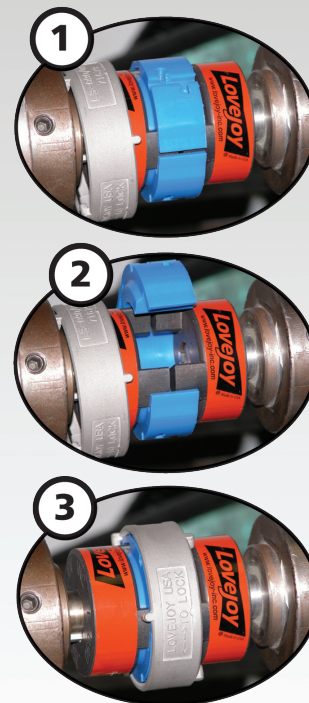
For leading food manufacturers, plant efficiency is equally as important as producing a quality product. To stay competitive, preventive maintenance strategies are essential to minimize downtime. Any process, procedure, or product that contributes to plant efficiency is indispensable in providing service levels that distributors and customers demand. Couplings are a key component used in many applications within the food manufacturing process. When they fail, thousands of dollars in production time can be lost.

This food manufacturing plant contacted Lovejoy to perform a coupling analysis on their existing applications. Lovejoy found process pumps used in the kitchen area as well as seamers in the cannery process were utilizing standard sleeve couplings, consisting of two cast iron flanges and a rubber sleeve. This coupling type required a great deal of time to change the element upon failure. The flanges had to be moved for the element removal. In addition, the washdown chemicals were causing the coupling hubs to rust into the shafts.



The Result

Lovejoy replaced these couplings with stainless steel hubs and the Jaw In-Shear 6 Pin element and ring. The Lovejoy stainless steel hubs were less expensive than traditional stainless steel couplings, and provided an excellent rust preventative solution. The Lovejoy Jaw In-Shear 6 Pin is made up of a urethane, wrap style element, which performed longer than the previous element, and a 347 stainless steel locking ring. The easy “no tools necessary” assembly characteristics of this coupling eliminated any need to move the flanges for element replacement. The reduction in failures, and the corresponding reduction in unscheduled maintenance resulted in a 95% increase in efficiency for these applications.



Jaw In-Shear 6 Pin Assembly