

SUCCESS STORY

Chain Failure on a Poultry Fryer

\$94,000

IN COST SAVINGS



PROBLEM

A well-known poultry processor was experiencing attachment chain failure in one of their fryers. The dual-strand chain runs in hot oil, scraping the coating residue from the conveyor, and has A1 type attachments and scraper bars every three feet. Periodically, the attachments would come out of alignment, causing the A1 attachment to break at the bend in the side plate.



SOLUTION

After contacting Tsubaki for a solution, our **Technical Solutions Team** visited the site and conducted a thorough review of the application and discussed possible solutions with plant staff. Upon investigation, it was determined that the way the scraper bars were fastened to the A1 attachment created too ridged a structure and, when the attachments were out of alignment, the scraper bar created too much force on the side plate bend. Tsubaki suggested slotting the scraper bars to allow for “float” alongside several other application optimizations.

After implementing Tsubaki’s recommendations, the processor experienced significantly less unplanned downtime. Over a four-month period, unplanned downtime was reduced by 75% from 102 to 25 hours, correlating to a \$94,248 cost saving per year.