TIMKEN BELTS

SAVING COSTS, RAISING OUTPUT: A FEED FACILITY'S EFFICIENCY MAKEOVER

CHALLENGE

A livestock feed manufacturing facility specializing in high-energy feed made from surplus bread, cakes, chips, pasta, and cereals encountered operational inefficiencies. Their main dryer line which is capable of producing up to 100,000 pounds of feed weekly, was underperforming, resulting in reduced production rates and higher maintenance costs.

TIMKEN BELTS SOLUTION

During a facility visit, a Timken® belts expert used the Tension-Finder® and Laser-Align tools to diagnose the problem. The tests revealed that the belts were operating under insufficient tension, and the sheaves were worn and misaligned; conditions that hindered the machine's performance.

To rectify these issues, the damaged sheaves were replaced with new ones and carefully aligned. Additionally, the belt tension was recalculated and adjusted for optimal performance.

RESULTS THAT MATTER

These changes delivered immediate results, restoring the dryer line's performance to its full design capacity. Production increased by an estimated 10%, enabling the facility to produce an extra 10,000 pounds of feed weekly. Over a year, this improvement translates into cost savings of over $200,000. These enhancements not only boosted production efficiency but also significantly reduced costs, delivering lasting value to the facility.

FORECASTED INCREASED PRODUCTION VOLUME	+	ESTIMATED DOWNTIME COST AVOIDANCE	+	REDUCED BELT REPLACEMENT COSTS	=	TOTAL COST SAVINGS ANNUALLY
$156,00		$44,800		$3,700		$204,500

Timken Belts is part of The Timken Company's growing portfolio of engineering bearings and industrial motion products. Timken Belts manufactures premium-performance power transmission belts that help keep industry in motion and the world more productive.