

# MAXIMIZING UPTIME: DIAMOND® CHAIN IMPROVES EFFICIENCY IN THE PULP AND PAPER INDUSTRY

## CHALLENGE ▼

Unplanned downtime can cripple production and create both financial and operational pressures. A kraft paper production facility was struggling with frequent conveyor chain failures. The conveyor, responsible for transporting brown stock pulp into the mill, is critical to maintaining production. The chain's 24-week lifespan required frequent replacements, causing unplanned downtime and sizable hourly losses of \$75,000. To remain competitive, the facility needed a solution to extend the chain's life, minimize interruptions and reduce overall costs.

## SOLUTION ▼

After thoroughly assessing the conveyor's operational demands and existing chain limitations, a Diamond-Drives expert recommended our Diamond® Heavy Series roller chain. Its superior engineering made it the ideal solution for this customer's conveyor system. 50% preloading minimized premature elongation, hot-dip lubrication provided long-lasting wear protection, precision assembly ensured consistent performance under high stress and advanced metallurgical properties were designed to withstand demanding environments.

## RESULTS THAT MATTER ▼

Implementing Diamond chain delivered two benefits: an extended life cycle and substantial cost savings.

The chain lasted an impressive 70 weeks – nearly triple the lifespan of the previous chain and double its projected 36-week lifespan. While the chain's cost remained minimal, when combined with the reduction in downtime, the savings were an estimated \$88,000 annually. This success demonstrates Diamond-Drives' ability to provide tailored solutions that promote operational excellence while delivering measurable financial benefits.



	Competitor	Diamond Estimate*	Diamond Actual**
Annual chain expense	\$1,443	\$971	\$666
Annual downtime expense	\$162,500	\$109,445	\$75,000
Total chain expense	\$163,943	\$110,416	\$75,666
Yearly Diamond chain savings		\$53,527	\$88,277

\*projected 36-week lifespan    \*\* 70-week actual lifespan