



# Ice Cream Production Facility

## Industry Issue/Challenge

A large manufacturer operates high-volume ice cream production facilities with tunnel freezers playing a critical role in the production of their ice cream products. The tunnel freezer's drive chain was responsible for powering the Tetra-Pak conveyor system but was only lasting three months before requiring replacement. The short service life led to frequent unplanned downtime and interruptions during peak production periods.

iwis reviewed the application and environment, and utilized a product substitution that far exceeded all expectations.

## Application

The tunnel freezer conveyor system moves product through sub-zero temperatures. The drive chain powers the entire system and must operate reliably under heavy load and freezing conditions. The chain's failure directly impacts output, efficiency, and uptime.



Click or scan  
to learn more

**iwis industry solutions**





## Product Solution

The existing drive chain was replaced with iwis 10B-3 cfb.dry chain. This upgraded solution includes a lube-for-life bushing, eliminating the need for manual lubrication and providing resistance to wear in low-temperature environments. B.dry roller chain is extremely wear-resistant, corrosion-free and able to operate at extreme temperatures.

The result was an eightfold increase in chain life, extending service intervals from three months to over two years.



## Results

Chain life extended from

**3 months to**  
over  
**24 months**

Improved planning capability with chains now changed out annually as part of scheduled downtime

Significant increase in line uptime and reliability

**Reduced emergency maintenance and disruption to production**

Standardized solution implemented across both Memphis and Sikeston plants