Designed to Defy Abrasive Conditions

Today, high demand for new roads and industrial buildings keeps cement plants running around the clock. Constant production, coupled with abrasive cement dust, takes a serious toll on production equipment — especially rotating in bucket elevators and conveyors where backstops and cam clutches are used.

When exposed to cement dust, the seals on typical backstops and cam clutches can wear prematurely, leading to issues such as:

- Loss of lubrication and/or cooling oil
- Equipment breakdown
- Hazardous waste disposal fees/EPA compliance
- Soil contamination from oil leaks

The resulting downtime, overtime and lost-production costs add up quickly. Even if you try to mitigate unplanned maintenance by stocking spares, you’re still paying for it one way or another.

Rather than planning for failure, Tsubaki aims to prevent it. Over the past 50 years, we have taken the lessons learned from installations, in-house tests and field observations and used them to design a backstop specifically for the cement industry.

With their closed design, our BS and BS-HS series of backstops and cam clutches do not require the use of a breather element, therefore eliminating the ingress of dust contaminants, resulting in reduced wear and longer service life.

FEATURES

- Synthetic grease only requires replacement annually
- Unique multistage seal design
- Breather element not required

ADVANTAGES

- Minimal scheduled maintenance
- Closed design limits dust ingress and minimizes lubricant contamination
- Eliminates oil leakage concerns
- Minimal hazardous waste disposal fees
More Innovative Solutions for Harsh Environments

Build reliability into your system with sprockets and power transmission components from Tsubaki.

SMART TOOTH® Sprockets
Tsubaki’s SMART TOOTH sprockets with patented Wear Indicator technology offer users the ability to identify and schedule drive-system maintenance before critical component failure occurs. The result is extended chain life and reduced downtime for increased productivity. Tsubaki’s long history of designing innovative chain and sprocket products ensures that you will receive the best system solution.

TL Series Torque Limiter
Tsubaki has developed a superior torque limiter that allows for more precise adjustments than other products of the same name. We accomplish this by using a finer-pitch thread on the adjustment bolts, enabling accurate setting of the slip point — no longer settle for just a ballpark value. Tsubaki torque limiters use specially formulated friction materials to extend time between replacements and improve repeatability of the slip point. Tsubaki torque limiters provide long life, consistent performance, and the best value over years of operation.

WORKHORSE® Chains
Tsubaki’s WORKHORSE elevator chains are specifically designed for use within aggressive bulk-material-handling environments with harsh fine particulates such as cement, lime, gypsum, salt and potash. Leveraging Tsubaki’s extensive heritage within the aggregate segment along with a proprietary blend of premium domestic steels and refined heat treatments, the WORKHORSE series was uniquely bred to provide superior strength, maximum toughness and legendary dependability.