

# BELT CONVEYORS

MACHINE HEALTH SOLUTION FOR MINING INDUSTRY



## THE PROBLEM:

At most mining sites, belt conveyors are critical to move & store material. In order to reduce unplanned downtime, KCF uses continuous monitoring on critical assets such as backstops, clutches, and pulleys. Continuous monitoring can prevent unplanned downtime hours that are caused by bearing defects, clutch failures, and bent pulleys.



### COST OF ASSET FAILURES

**Downtime**  
12-24 Hours

**Other**  
Safety, Injuries, Quality

### INDUSTRY SAVINGS POTENTIAL

Ability to minimize unplanned downtime utilizing vibration & temperature

Continuous monitoring gives us the ability to approach the asset health from a broader perspective

## ASSET BLIND SPOTS:

There are several inherent challenges related to monitoring Belt Conveyors.



**Challenge #1: Bearings are in inaccessible areas, KCF sensors make it safe and easy to provide continuous monitoring.**



**Challenge #2: Continuous monitoring allows you to catch failures earlier in the P to F curve, preventing significant asset damage.**



**Challenge #3: Time-based protocols do not capture actual inflicted damage.**