

# BAGHOUSE FANS

MACHINE HEALTH SOLUTION FOR MINING



## THE PROBLEM:

Baghouse Fans are critical machines in mining facilities around the world. Fans are required to maintain operations and throughput - keeping production areas free of damaging, fine particulate material.

Maintaining Baghouse Fans can be challenging. Machinery is exposed to harsh conditions, is challenging to access, and is rarely offline. Unfortunately, failures are common.



### COST OF ASSET FAILURES

**Up to \$100k/hour**  
Downtime Cost

**2-24 hours**  
Downtime

**Long replacement**  
lead times

### INDUSTRY SAVINGS POTENTIAL

Average yearly baghouse fan failures:

Up to 10 per fan

Up to 20 per facility

## ASSET BLIND SPOTS:

There are several inherent challenges related to monitoring Baghouse Fan health:



**Challenge #1: Vibration frequencies are often undetectable by the human ear and eye.**



**Challenge #2: Assets are difficult to access for preventative maintenance and inspections.**



**Challenge #3: Time-based preventative maintenance is challenging to schedule, conduct, and does not prevent all failures.**

# A NEW APPROACH TO ASSET HEALTH



Above: Wireless, magnetic vibration sensor

Relying on preventative maintenance and occasional inspections do not prevent failures on Baghouse Fans exposed to harsh mine site conditions.

Rugged, wireless vibration sensors installed on critical, problem assets such as Baghouse Fans can be used to continuously monitor health and performance. Real-time data, actionable insights, and alarms are all delivered through KCF Technologies sensor and service packages.

Eliminate Baghouse Fan failures using predictive technology: know exactly when and how to act to avoid disaster.



## HARDWARE

- Monitor drives & bearings
- Rugged, magnetic, wireless
- Easy to install
- Installation packages available
- Measure vibration & temperature
- Advanced sensors are available to track multiple asset health metrics



## SOFTWARE

- Setup automated alarms
- Multiple asset health indicators
- Dashboards
- Easy insights
- Advanced analytics



## REAL-TIME DATA

- Actionable insights available with:
  - Bearing model numbers
  - Motor nameplates
  - Run speed & VFD information
  - Belt or gear ratios
  - Tooth or blade counts



## TRAINING

- Expertise vibration analysis provided with Sentry Solutions packages
  - Regular site visits
  - In-person training
  - Biweekly or monthly reports
- Online KCF Academy portal

## CONTACT US!

Call **814-867-4097** or email [sales@kcftech.com](mailto:sales@kcftech.com) for information.

