KCF technologies

CONVEYANCE

CONVEYOR SYSTEMS

MACHINE HEALTH SOLUTION FOR AUTOMOTIVE

THE PROBLEM:

Automotive conveyors have different uses, including moving parts, processing, indexing, welding, and moving heavy parts. This is critical in the operations for Toyota's manufacturing process.

When a conveyor is damaged or fails an operations shutdown is likely. Depending on the severity of the failure it could shut down a line and cause significant downtime.

COST OF ASSET FAILURES
$900,000/hour Downtime Cost
1-2 hours Downtime
Other Safety and environmental

Navistar's SAVINGS POTENTIAL
1 hour of downtime per asset per year **$900,000**
About 100 hours of downtime per shop **$90,000,000**

ASSET BLIND SPOTS:

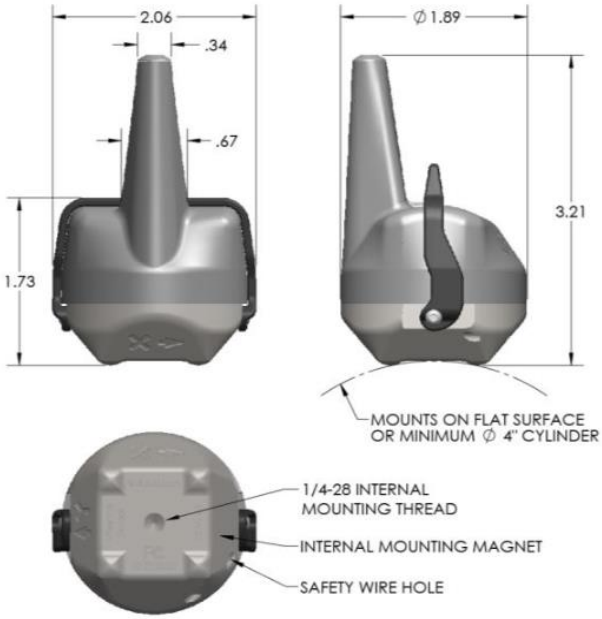
There are several inherent challenges related to monitoring conveyor systems.

Challenge #1: Improper care and lubrication can cause premature bearing failure

Challenge #2: Excessive tooth loads can result in higher stresses which can lead to the gearbox failing.

Challenge #3: Repetitive high load beyond endurance limit can cause the chain to fracture.

A NEW APPROACH TO CONVEYOR SYSTEMS



Above are the specifications of a V3 Sensor

Time-based maintenance is often used, resulting in maintenance on assets that don't need it and over greasing bearings that can cause more damage, rather than preventing.

Our solution, using V3 sensors and SMARTdiagnostics, enables continuous, real-time machine health monitoring. This solution allows for automated callouts directly through Maximo using advanced analytics and creating dashboards to increase the plant's visibility.

HARDWARE

- V3 Vibration Sensors
- Base stations
- Repeaters
- Time-based data collection

SOFTWARE

- Threshold Settings
- Indicators
- Sensor Configurations
- Dashboards
- Reporting
- Maximo Integration

REAL-TIME DATA

- Integrated with your real time data and machine information:
- Schematics of systems/equipment
- Run speed
- VFD information
- Bearing types
- PLC integration/process data

TRAINING

- Sentry
  - Daily visits
  - Site visits
  - In-person training
- Academy
- Customer training/handbooks

CONTACT US!

Call **814-867-4097** or email sales@kcftech.com for information.

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