

Problem

Walkaround vibration monitoring systems are commonly used to enable predictive and condition-based maintenance, in many continuous manufacturing processes. However, the time and cost of manually acquiring the data is expensive and limits the measurements to monthly or quarterly snapshots. This has value, but is labor intensive and does not provide continuous trending.

Solution

Continuous monitoring with low-cost wireless sensors enables a CBM group to augment the walk-around data gathering practices. The wireless sensors are mounted permanently on high-priority assets to provide continuous monitoring between periodic walk-arounds. Wireless sensors are also placed for extended-duration diagnostic monitoring of failure-prone machines or those with unexpected or questionable behavior. The data is consistent with existing monitoring practices and enables the walk-around data acquisition to be more efficient and focused on problems rather than on general collection.



Continuous, wireless vibration monitoring allows predictive maintenance teams to be more efficient by allowing them to continue to monitor machines between periodic walk-arounds.

Success Factors	Customer Value
Save time on walk-around CBM practices	Perform manual data collection when problems are identified
Extended duration diagnostics	Identify previously unanswered questions of machine failures
Integrate data into existing plant software	Monitoring for alarm conditions is continuous with much more data
Call attention to problems	More productive time for the PdM team



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