

# Vibration Analysis



## Head off tomorrow's problems today.

In the past predictive maintenance was an aspiration. Today's technology is making it the industry standard. Vibration analysis is a proven method for detecting the earliest onset of system degradation before it results in costly downtime and emergency repairs. Trane's predictive maintenance using vibration analysis leverages Augury®, the leader in machine health through artificial intelligence and the internet of things.



## Vibration Analysis Is An Early Warning System

Emerging problems can be identified before your next scheduled maintenance; before performance is affected long before a breakdown occurs.

Vibration analysis gives Trane® technicians insight into the actual condition of machines. The vibration signatures of compressors, motors, pumps, fans, cooling towers and chillers reveal critical information about the equipment's health

### The Process

Trane Service Technicians use portable vibration and ultrasonic sensors that convey information to Augury® through an app. In 30 seconds, the device detects the symptoms of shaft misalignments, bearing wear and degrading tolerances—things that are likely to cause additional problems if left unaddressed. The technician receives immediate preliminary results. You'll receive a full report.

### The Analysis

AI-enabled machine diagnostics, a cloud-based database and centralized analysis deliver feedback with unprecedented speed and accuracy. Empowering the nearly instant feedback is the nation's biggest network of diagnostic data. Augury's insights draw from more than 60,000 critical machines in over 6,000 facilities across North America.



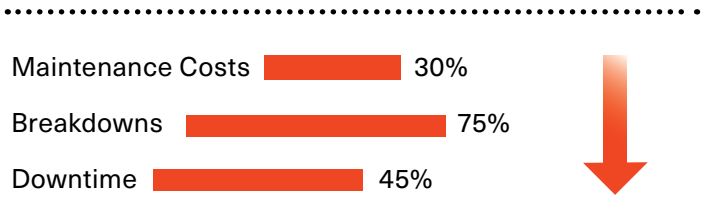
### The Benefits

- Maximize equipment life
- Virtually eliminate emergency service costs
- Avoid serious business disruptions
- Maintain energy efficiency and sustainability



### Include Vibration Analysis In Your Service Agreement

Predictive maintenance (also known as Condition Based Maintenance) has been shown to produce an average reduction\* in:



\*U.S. Department of Energy, Federal Energy Management Program (FEMP), 2010

If scheduled maintenance is smart, then predictive maintenance is brilliant. Include Vibration Analysis in your Service Agreement. Vibration analysis is one of Trane's many predictive maintenance tactics and a best practice for running an optimal system.

**Contact your local Trane sales office for more information.**



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