



VIBRATION ANALYSIS /
PREDICTIVE MAINTENANCE

Fewer Equipment Breakdowns and Better System Performance



Bahnson
Mechanical Systems
An EMCOR Company



The cost associated with equipment malfunctions (parts, labor, downtime, failures) decreases when companies move away from reactive maintenance practices and adopt a combination of preventive and predictive practices.

Bahnson Mechanical System's vibration analysis service compares industry thresholds, similar equipment, and the individual history of a machine to help identify emerging malfunctions as early as possible. **Vibration analysis is a highly effective predictive solution that helps minimize repair costs and avoid equipment failures and associated downtime.**

VIBRATION ANALYSIS HELPS PREVENT

Major repairs and costly replacements

Increased maintenance costs

Time-consuming shutdowns

Higher energy costs from declining equipment efficiency

Damage to other equipment and/or parts caused by improper operation of failing components

Unnecessary waste from replacing parts that may still be functioning properly

Fighting Vibration, while Saving Time and Money

When mechanical components vibrate in ways they aren't meant to, continuous and uneven wear can occur. Over time this can cause equipment failure, resulting in downtime for repairs and costly interruptions to regular operations.

To combat vibration, our experts use advanced vibration analysis technology that takes data readings and thermographic images of equipment while it is still running. This data is then processed and compared to industry averages and previous readings to identify deviations from

the norm. This helps us detect equipment problems well before they become emergencies and allows clients to plan ahead and take lower-cost corrective actions that are less disruptive to regular business operations.

Promote Uptime with Innovative Technology

Our team utilizes mobile tablets equipped with a sophisticated thermography and vibration analysis application. This app has an intuitive interface to promote seamless data collection and offers real-time analysis that helps our technicians swiftly identify potential equipment issues and determine corrective action.

Our solution can help diagnose range of issues in a wide variety of components, including:

- > Motors
- > Spindles
- > Shaft imbalances
- > Gears
- > Belt wear
- > Pumps
- > Bearings
- > Fans

To get ahead of your equipment's maintenance needs, contact our team today.

WHAT CAN WE DO FOR YOU?

Bahnson Mechanical Systems
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Clemmons, NC 27012
336.760.3111 bahnson.com



Bahnsen

Mechanical Systems
An EMCOR Company



A Major Facilities Services Provider —
offering a broad range of HVAC and
full mechanical services to virtually
every market segment for 100+ years.

From manufacturing and power
generation to commercial facilities
and process plants, BMS provides
engineered air systems to support
specialized environments.

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Building
Environments
**Beyond
Expectations**