

Cement manufacturing applications

Vibration sensors help improve reliability and efficiency so you can minimize unplanned downtime, reduce operating costs and protect critical components from damage or failure.



Vibration monitoring for cement manufacturing

Using accelerometers and 4-20 mA sensors for condition monitoring in cement manufacturing plants is proven to maximize operational uptime and minimize maintenance costs. Detecting and preventing unexpected machine failures is a priority. Vibration monitoring helps establish machine baselines, allowing trend histories of key components. This provides a cost-saving, reliable choice for maintaining components, extending equipment life and maximizing operational efficiency.



Vibration monitoring benefits

- Vibration levels can reveal machine's health and offer insight into developing faults
- Low-cost implementation – can be easily incorporated into existing control systems
- Increased safety and asset management
- Better alarm handling and reporting
- Programmable alarm functions for automatic work order generation
- Optimized maintenance scheduling

Monitor vibration levels on critical pieces of equipment

- Motor bearings
- Air compressors
- Belt drives
- Kiln rollers
- Fans and blowers
- Hammer mills



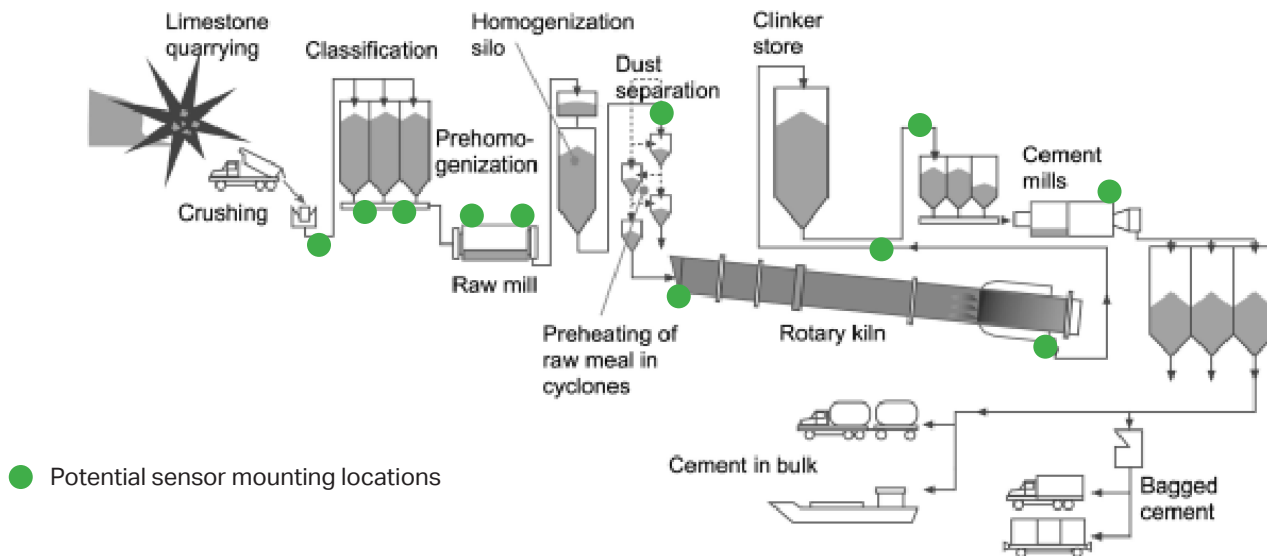
Quickly identify machinery faults

- Bearing damage*
- Misalignment*
- Imbalance*
- Contamination
- Bent shaft

* primary causes of equipment failure

Reliable vibration monitoring helps you understand asset condition

Data driven decision-making | Critical vibration measurement points | Thousands of sensors per plant



Key considerations, recommended solutions and products for cement factories

| Consideration | Solution | Product |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Imbalance on fans or motors | 4-20 mA velocity sensors, standard accelerometers | PC420V, 786A |
| Contamination from dust and debris | Side exit sensors with strong hermetic seal, IP68 rated cable assemblies, stainless steel enclosures | 787A, R6Q-J9T2AS, VLS junction boxes |
| High temperatures in kiln areas | High temperature accelerometers and cable/connector assemblies | HT780A, HT786A + R6Q-J9T2A |
| Belt drive misalignment | Tight tolerance accelerometers, intelligent vibration transmitter for dynamic analysis and connection to plant infrastructure | 786A, 787A + iT300 |
| Bearing damage or fatigue | Dynamic, high-frequency accelerometers and intelligent vibration transmitter for field-configurability and direct connection to control system | 786A, 786A-I + iT300 |
| Conveyors (running speed <3600 RPM) | 4-20 mA sensors, high sensitivity accelerometers | PC420 sensors, 786-500, 787-500 |

Why choose Wilcoxon?

- Customer support
- Reliability and quality
- Consistent, long-term product performance
- One-stop for everything you need

Complete solutions for vibration monitoring

Sensors, cables and connectors, mounting accessories, enclosures, portable meters, intelligent transmitters

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