

# Reliability Services for Cement Industry



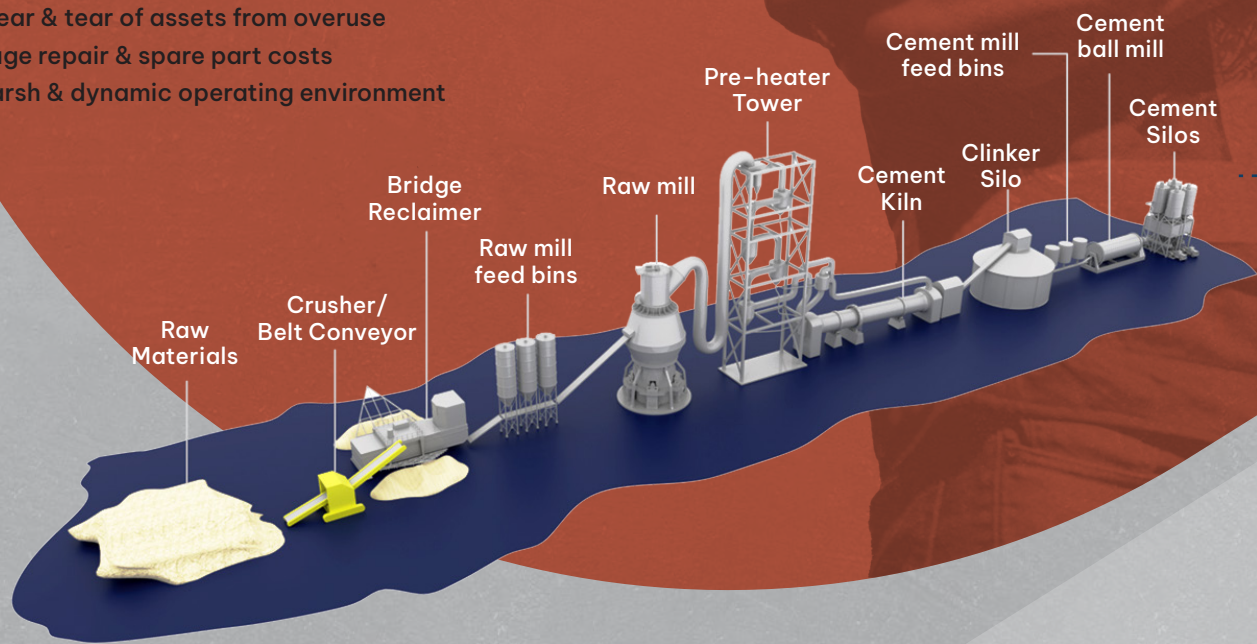
## Driving plant reliability through focused reliability services

The cement industry is facing increasing challenges, with social, environmental, and economic pressures pushing manufacturers to optimize performance while reducing costs. While advanced equipment and efficient operations are important, maintenance procedures play a critical role in achieving true optimization.
















Cement production is characterized by its complexity and each stage of production demands constant monitoring and measuring of components.

## Why condition monitoring is critical for cement plants?

- Complex process with many machines & steps
- Chances of Industrial hazards
- Difficult Remote & Monitoring Control
- Loss from sudden machine failure & downtime
- Wear & tear of assets from overuse
- Huge repair & spare part costs
- Harsh & dynamic operating environment



## Common causes for machine downtime in a cement plant

 Various Industrial fans	 Kiln-Feed	 Hammer crusher	 Suction vacuum pumps
 Double facer drum	 Gearboxes	 Corrugated slag mill	 Rotary feed
 Conveyor pulley bearings	 DCP	 Head sprocket pumps	 Mill elevator
 Shaft impeller	 Roller press	 Separator motors	

# Acoem Reliability Services: Tailored for the Cement Industry

Acoem's approach to predictive maintenance helps the cement industry address unique reliability challenges by conducting comprehensive audits, predicting equipment failures, and implementing sustainable solutions

with advanced technologies. This results in reduced maintenance costs, longer equipment lifespan, and greater operational efficiency for clients.

## Services offered:

- Health assessment of critical assets such as Roller Presses | Kiln Main Drives | Vertical Roller Mills
- Precision maintenance correction including torsion shaft alignment of Rotary kiln | Ball mill | Cooling tower
- In-situ dynamic balancing of separator fans
- Advance Engineering Services for troubleshooting the rotating machinery of cement plants
- False Air Leakage Detection
- Compressed air and gas leak detection
- Localizing Partial and Corona Discharge in Switchyards and Switchgears

*The focus is on identifying the root cause of problems in advance to prevent defects from turning into failures, leading to reduced maintenance costs, longer equipment lifespan, and greater operational efficiency and cost savings for our clients in the cement industry.*

## Assured Reliability Outcomes

We are committed to helping cement manufacturers achieve reliable and efficient plant operations. Our focused reliability services are backed by:



Advanced technologies



Adaptive & proactive approach



Industry expertise

Our expert team has years of experience working on different cement technologies with exposure to local industrial working conditions. This specialist knowledge combined with many years of experience has led us to offer comprehensive monitoring and diagnostic services remotely as well as on-site.

We take the SURE route to reliability services:



See



Understand



Respond



Execute

# Next-Generation Reliability Solutions for the Cement Industry

Our predictive maintenance tools, powered by AI and utilizing wired or wireless sensors, IoT, augmented mechanics, machine learning, and data analytics, help anticipate problems before they occur. Schedule maintenance at the right time, receive alerts for potential issues, and enhance industrial productivity with certainty.

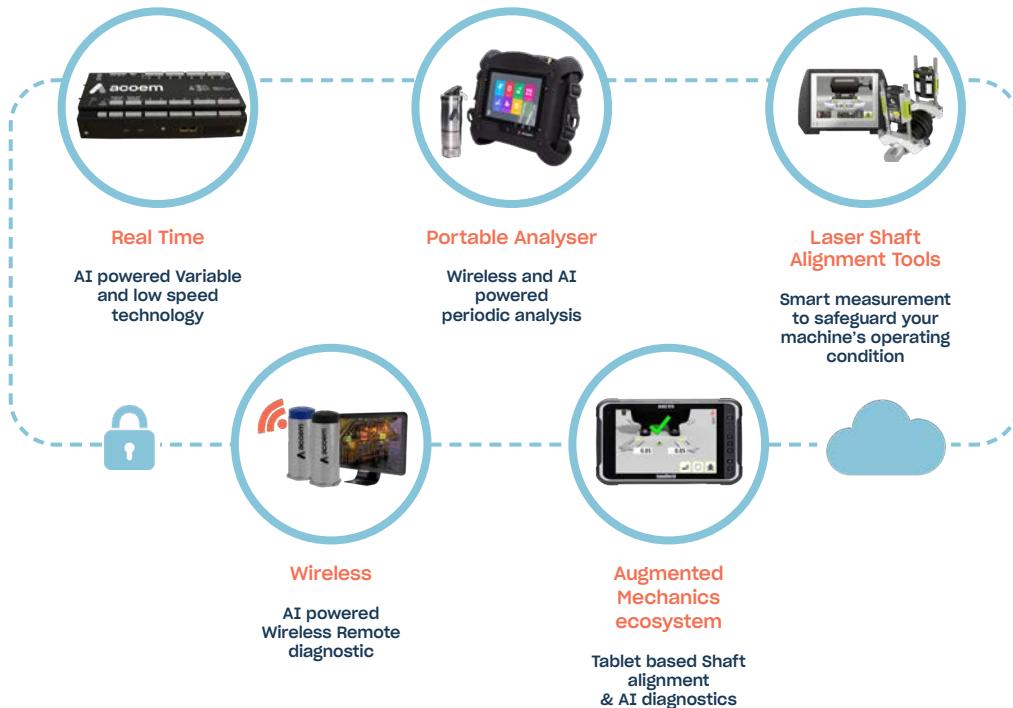


Powered by  
**Accurex™**



**99%\***  
of assets in critical condition are accurately detected

\* based on millions of data sets reviewed by experts



## Training and Support

We also provide comprehensive training programs for your plant's staff to enhance their skills and knowledge in reliability best practices. Our team offers ongoing support and consultation, working closely with your team to continuously improve your plant's reliability performance.

### Accoem certification program

- Vibration Technology
- Bearing Technology
- Alignment Turbo Machinery
- Precision Maintenance
- Unlocking Maintenance Reliability Transformation



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