Kiln Audit Service

Turning data into reliability, performance, and uptime

The challenge

In cement production, rotary kilns operate under extreme thermal and mechanical loads. Minor deviations can lead to uneven load distribution, accelerated wear, reduced refractory life, and increased energy consumption.

The KHD solution

To identify and address these issues, we provide integrated plant survey and measurement services that combine specialized instrumentation with our OEM engineering expertise in kiln design and operation.

Performed under hot operating conditions using non-contact, high-precision instrumentation, these services provide data on the kiln's condition during the survey without requiring a production shutdown.

The benefits

Our services combine measurements with engineering assessment: structured condition evaluations, quantified deviations, root cause analysis, and prioritized corrective recommendations. The findings support maintenance planning and can help you work toward:

- Longer equipment life
- Fewer unplanned stoppages
- Improved kiln stability and efficiency
- Lower maintenance and energy costs
- Better shutdown planning



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What we measure

Our modular service assesses the mechanical condition of your kiln system. Choose a targeted scope or a comprehensive plant survey to suit your needs.

Kiln geometry and alignment

Assess load distribution and operating stability through measurements of kiln axes and roller alignment.

Shell ovality and deformation

Identify deformation that can affect refractory life and structural integrity.

Run-out and dynamic behavior

Assess vibration sources and mechanical instability associated with tire, roller, and girth gear run-out.

Shaft and gear displacement

Assess mechanical loading conditions during the survey.

Kiln shell scanning

Support repair planning and assessment of structural condition.

Drive system diagnostics

Identify conditions that can contribute to gear failures.

Vibration analysis

Assess bearing faults, imbalance, and misalignment to support maintenance planning.

Mechanical condition inspection

Add visual and functional assessments of seals, bearings, and support systems.

Contact us

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Learn more

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