

One of the leading cement manufacturers wanted to scale its Digital Transformation journey with technology-enabled Predictive Maintenance solutions.

45 hours of
Unexpected Downtime
avoided

Machine's Health
Score improved from
40% to **83%**

Scaling up at
179 more
monitoring locations

About the Company



Industry: Cement



Plant Capacity: 12
MTPA



Machines Monitored:
Pre-Heater FAN

Business Case:

With a vast network of over 400 cement dumps and more than 7000 channel partners, the cement manufacturer enjoys a premium position in its markets. It is recognized for its immaculate quality and services. With modern and fully computerized, integrated cement plants at multiple locations, they were keen to add predictive maintenance capabilities powered by smart technologies to their industrial operations.

With Proactive diagnosis and data analysis of one of the Pre-Heater fan assemblies installed in a cement production unit, an impending fault was detected in its bearing. Equipment replacement was recommended before the fault worsened & adversely impacted the production. Timely action significantly improved the machine's health score & saved unexpected downtime.

Solution:

Infinite Uptime's Industrial Diagnostic Service supported with a patented Vibration Monitoring System offered instantaneous engaging insights into the health of the PH Fan located at the height of 70 feet in the plant. The real-time health monitoring increased the confidence of the workforce and ensured security on the production floor.

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Client Speaks

We started monitoring our machines with a single plant as a proof of concept. Although we faced hurdles in the initial phases, the entire installation to activation was seamlessly completed with support from Infinite Uptime's team. The results post-go-live have been encouraging. We have **reduced machine downtime, reduced our maintenance hassles,** and experienced operational improvements. This is an outcome of a great '**People, Process, Technology** and **Data-driven** approach' brought in by our partner, Infinite Uptime.

In our **Digitalization** journey, we will be replicating this success in multiple other plants.

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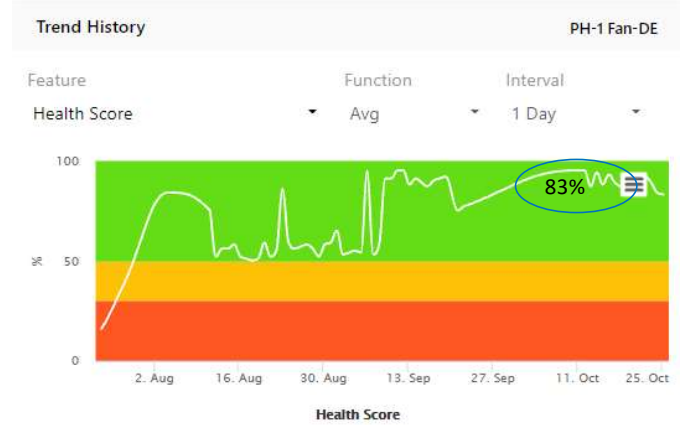
Implementing Digital Machine Health Solution

The real-time diagnostics and quickly executable remedial measures prevented a potential operational disruption. Further, optimal performance of the Pre-Heater fan ensured the burning flame of the kiln burner and confirmed the uninterrupted operation of the entire fan assembly.

PH Fan Health Score before corrective measures



PH Fan Health Score after corrective measures



Summary:

Infinite Uptime's Diagnostics and Predictive Maintenance Solution assured endless operating time and the lowest maintenance cost. The in-depth study of the Pre-Heater fan ensured the safety of the workforce, security of the equipment and enabled focusing on production targets, thus enhancing the quality of the grey cement. Moreover, it also avoided collateral damage to the Hearth Furnace. The expert guidelines minimized excessive power loss and prevented the undesired fan stoppage.



Infinite Uptime is a global Predictive Maintenance Services and Plant Reliability solutions company. We help the maintenance and manufacturing teams to attain the highest level of plant reliability by reducing unplanned downtime, mitigating operational risks, and improving overall efficiency. We leverage industry 4.0 technologies and a digital-first approach to create responsive maintenance strategies for diverse global manufacturing industries including Cement, Steel, Metals & Mining, FMCG, Chemicals, Oil & Gas, Power, Pharma, Tire & Rubber, Automotive, Construction, Pipes and more.

Our advanced analytics and real-time industrial diagnostics help plant maintenance leaders and condition-based monitoring teams to accurately predict and avoid machine failure every single time. To create a reliability-based maintenance strategy contact our Customer Success Team today. Write to us at contact@infinite-uptime.com or visit <https://www.infinite-uptime.com> to know more.

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