

FULLER[®]



ONLINE RELIABILITY SERVICES

FOR KILNS

MONITORING AND EXPERTISE TO IMPROVE KILN PERFORMANCE AND AVOID UNPLANNED DOWNTIME

The kiln is at the heart of the cement plant. Your productivity, product quality and sustainability all rely on optimal kiln performance. Unplanned downtime is catastrophic. Yet most kilns operate with just a few isolated sensors and inspections every 2 – 3 years, which doesn't give you enough information to optimise performance and get ahead on kiln maintenance.

Our Online Reliability Service for kilns enables early identification of potential issues before they escalate. Multiple sensors installed on your kiln transmit real-time data to our Global Remote Service Centre, where specialists continuously monitor the equipment for process abnormalities, component failures, and other operational deviations.

By applying early-warning analysis techniques, including Rule Based methods, Condition Based monitoring, Artificial Intelligence and Machine Learning (AI/ML), and custom-created models, we identify when equipment failures may occur and recommend the appropriate corrective actions to optimize your kiln's performance.

KEY BENEFITS

01

Increase uptime
and output.

02

Gain fuel and
power savings.

03

Lower labor costs by
transforming unplanned shutdowns
into planned ones.

04

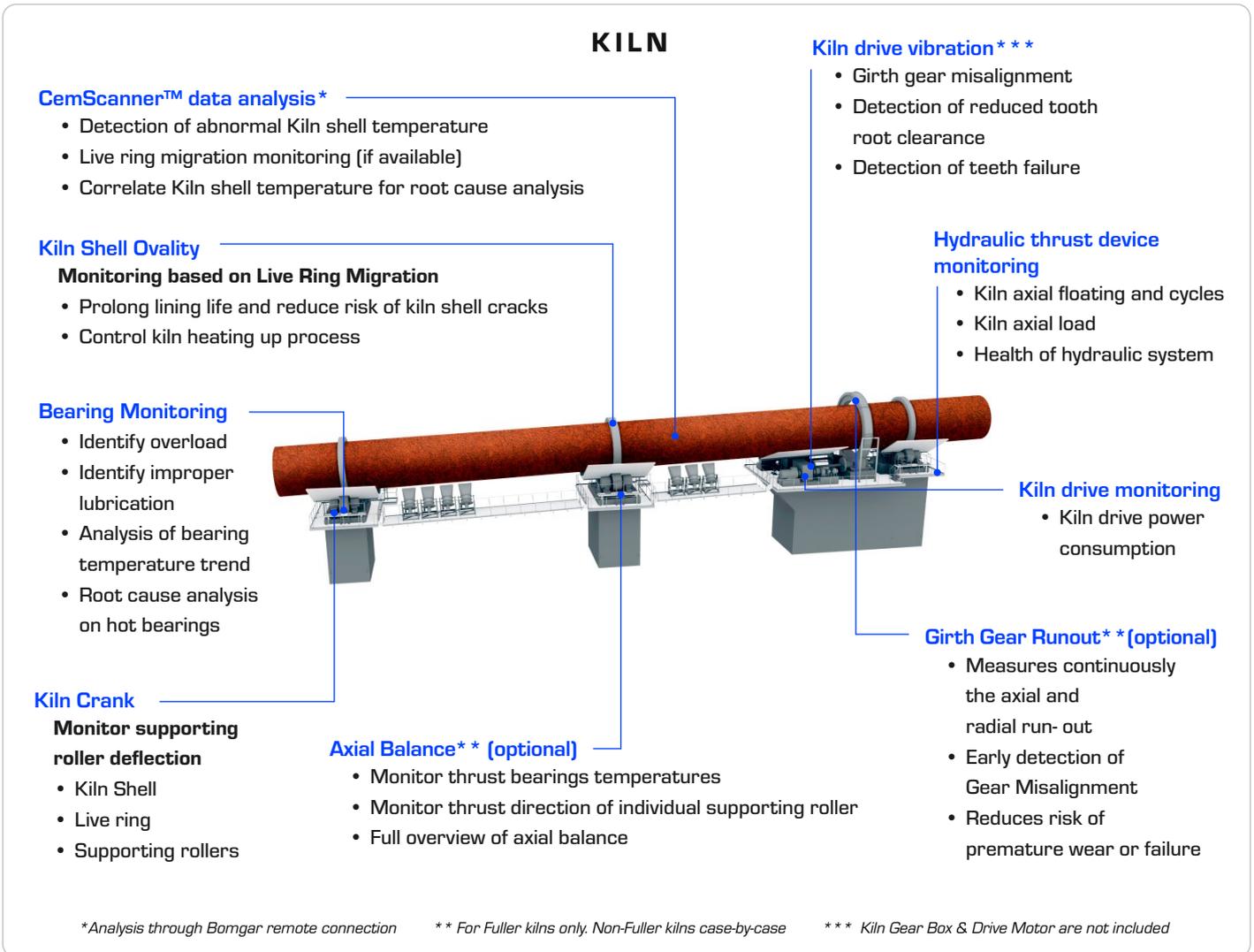
Extend equipment lifespan with
improved preventive maintenance.

05

Reduce premium costs and services
by having the right spares on
site at the right time.

06

Return of investment:
3 months



The OEM expert advantage

Many providers offer to monitor your equipment, but do they truly understand your kiln? We have decades of experience installing, troubleshooting, maintaining, and optimising our kilns. We have integrated that OEM experience and insight into our ORS. So, while others tell you what to worry about, we tell you how to solve recurring problems and enhance reliability. This includes extensive root cause analysis to prevent minor issues from escalating into major problems.

After all, your success is our success. Our OEM expert advisors support and coach your maintenance personnel to achieve excellence, delivering optimised maintenance planning and effective maintenance procedures.

A comprehensive monitoring package

Our ORS use existing control system signals to identify common issues, such as overloading, uneven or underfilling, critical component damage and wear, bearing and drive failure, and overheating gears and bearings.

On top of this, we provide additional monitoring systems, such as vibration, electromagnetic, ultrasonic, and oil analysis, to detect a broader range of abnormal conditions and component failures, delivering continuous insight into your kiln's status.

Implementing ORS

A Fuller project manager will oversee the delivery of any hardware required to provide the service. Your maintenance team will usually be able to install the sensors themselves; however, we can offer installation as an optional extra. After the Health and Usage Monitoring System (HUMS) is installed, we will come to you and commission the systems. Once commissioning is complete, the project manager will hand over to a dedicated service account manager, whose job is to support your maintenance department as their go-to contact whenever assistance is needed. The service account manager will initiate and drive the service to deliver on your KPIs, ensuring that you receive optimal value.

HOW DOES ORS WORK?

