



# Online condition monitoring services for kilns

Predict maintenance and maximise plant productivity

## Improve kiln efficiency and sustainability

Our online condition monitoring services for kilns offer you continuous kiln failure prediction and health evaluation, so you can address issues at the right time and reduce maintenance costs.

### With Level I service, we monitor:

- Bearings
- Hydraulic thrust devices
- Kiln drives
- Possibility for ECS/CemScanner® integration

### With Level II service, we monitor all of the above plus:

- Kiln crank
- Kiln shell ovality
- Kiln drive vibration
- Axial balance.

This service is not exclusively for FLSmidth kilns – we also offer condition monitoring on kilns from other OEMs.

A sensor package and a datalogger are connected to our Global Remote Service Centre team, who monitors the status, analyses the data, and delivers regular reports and quick resolutions for critical issues affecting kiln health.

This service helps detect early symptoms that can't be detected by regular on-site maintenance alone. It's a complement to on-site maintenance, such as hot kiln alignment. Our kiln specialists interpret the data and give you valuable recommendations and solutions to achieve optimum kiln reliability and health.

- **What?** Continuous kiln health monitoring and incident support; regular reports summarising alarms and recommendations; clear, actionable insights that you can implement.
- **Outcome:** You can predict failures that are not possible to detect with on-site preventive maintenance alone. You can therefore take timely action to optimise performance and significantly reduce the risk of kiln failure.
- **Case:** This service identified kiln axial floating instability. Using this data, our experts did a root cause analysis, suggesting a hydraulic leak was to blame – the result of a defective valve. This kind of defect is virtually impossible to identify without the condition monitoring service and would ultimately have resulted in costly, unscheduled downtime.