



CEMENT MILLSCAN

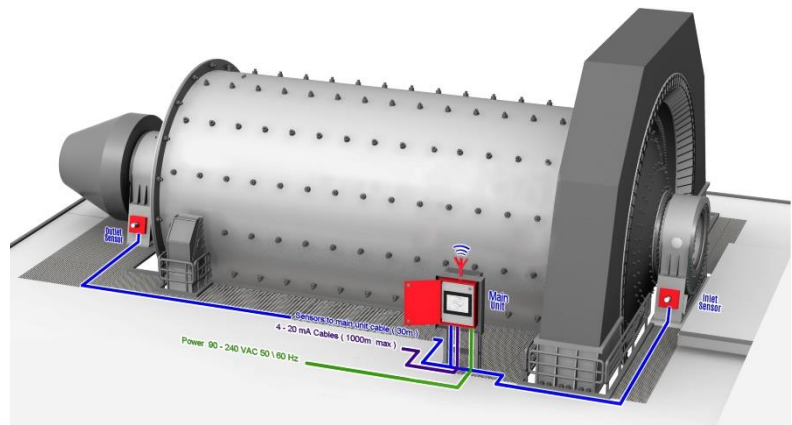
INCREASE THROUGHPUT & REDUCE ENERGY CONSUMPTION

OVERVIEW

Cement MillScan is a next-generation instrument used to **increase profitability** of a cement-producing operation by **increasing throughput** and **reducing energy costs**.

Cement MillScan uses vibration-based technologies to measure mill volume fills in single, double, or triple compartment mills at high frequency allowing efficient manual or automated expert control of the milling circuit.

With more than 400 installations globally and 15 years of experience, Process IQ's Cement MillScan is the global leader in mill vibration technologies.

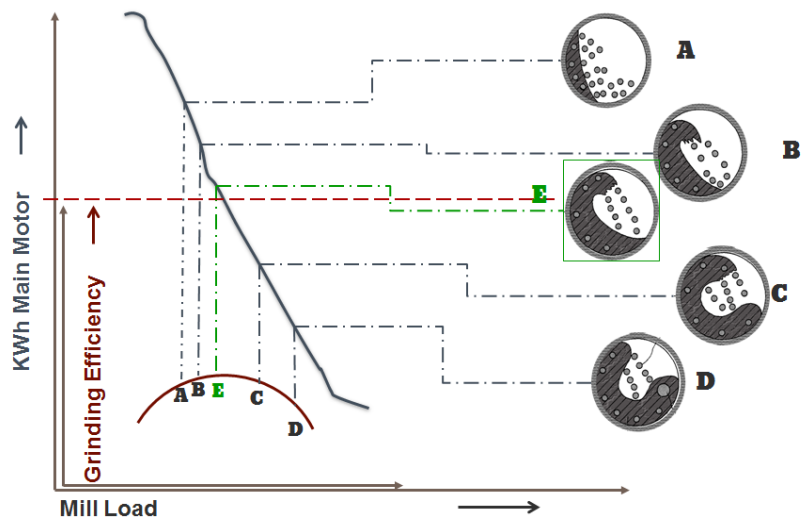


OPTIMISED MILLING

Optimal milling happens at the peak of the mill to power curve where steel balls impact the toe of the load as illustrated in E. Most operations run closer to A thus expending more energy required and damaging liners in the process.

Cement MillScan provides the necessary measurements to operate a ball mill at optimal power to load ratio maximising throughput, minimising energy consumption, and maximising liner life.

Process IQ's Advanced Process Control solutions also provide the necessary technologies to automate control with the input from the Cement MillScan to achieve optimised milling.



FEATURES & BENEFITS

- Precise mill fill level measurement
- All digital system with no component drift
- Not affected by temperature, dust or dirt
- High resolution data
- Fast and easy installation that typically can be performed in less than two hours
- Quick calibration procedure can be performed in less than 5 minutes

USE CASES

- Real-time feed control
- Observe operational health of mill chambers
- Detect problem with diaphragms or grates
- Debottleneck & stabilise milling operation
- Produce more cement with less power
- Combine with expert control system to automate mill optimisation programme

ADVANTAGES OVER ACCOUSTICS

- **DATA QUALITY**
Acoustics are susceptible to sound from nearby mills and equipment (cross-talk)
- **COMPLETE PICTURE**
Acoustics are poor at measuring sound coming from the mill outlet chamber
- **RELIABILITY**
Acoustics have issues with dust and is difficult to install

ADVANTAGES OVER LOAD CELLS

- **RESPONSE TIME**
Load cells tend to be noisy with slow signal response time
- **REAL-TIME FEED CONTROL**
Load cells unsuitable for instantaneous fresh feed control

ABOUT US

Process IQ provide measurement and control solutions to improve throughput, recovery and efficiency for the cement, mining, metallurgical and minerals processing industry.

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