



PRECISION IN CEMENT STRENGTH IN CONSTRUCTION SAFETY FOR ALL

Struggling with inconsistent clinker quality, unpredictable hydration performance, or inefficient material analysis?

TELLUS Industry XRD is designed to bring accuracy, automation, and speed to cement production monitoring.

ADDRESSING CHALLENGES

IN CEMENT MANUFACTURING:

FLUCTUATING CLINKER COMPOSITION –

AFFECTING
STRENGTH
AND DURABILITY



LIMITED REAL-TIME QUALITY CONTROL –

LEADING
TO INEFFICIENCIES
AND HIGHER COSTS



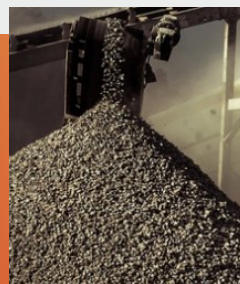
INCONSISTENT MINERAL PHASES –

IMPACTING
SETTING
TIME
AND PERFORMANCE



MANUAL SAMPLE HANDLING –

INCREASING
ERRORS
AND SLOWING
DOWN ANALYSIS



How TELLUS Industry Fits into Cement Production:

Raw Material Analysis

- Identify mineralogical composition before processing
- Optimize raw mix for consistent clinker formation

Clinker Phase Monitoring

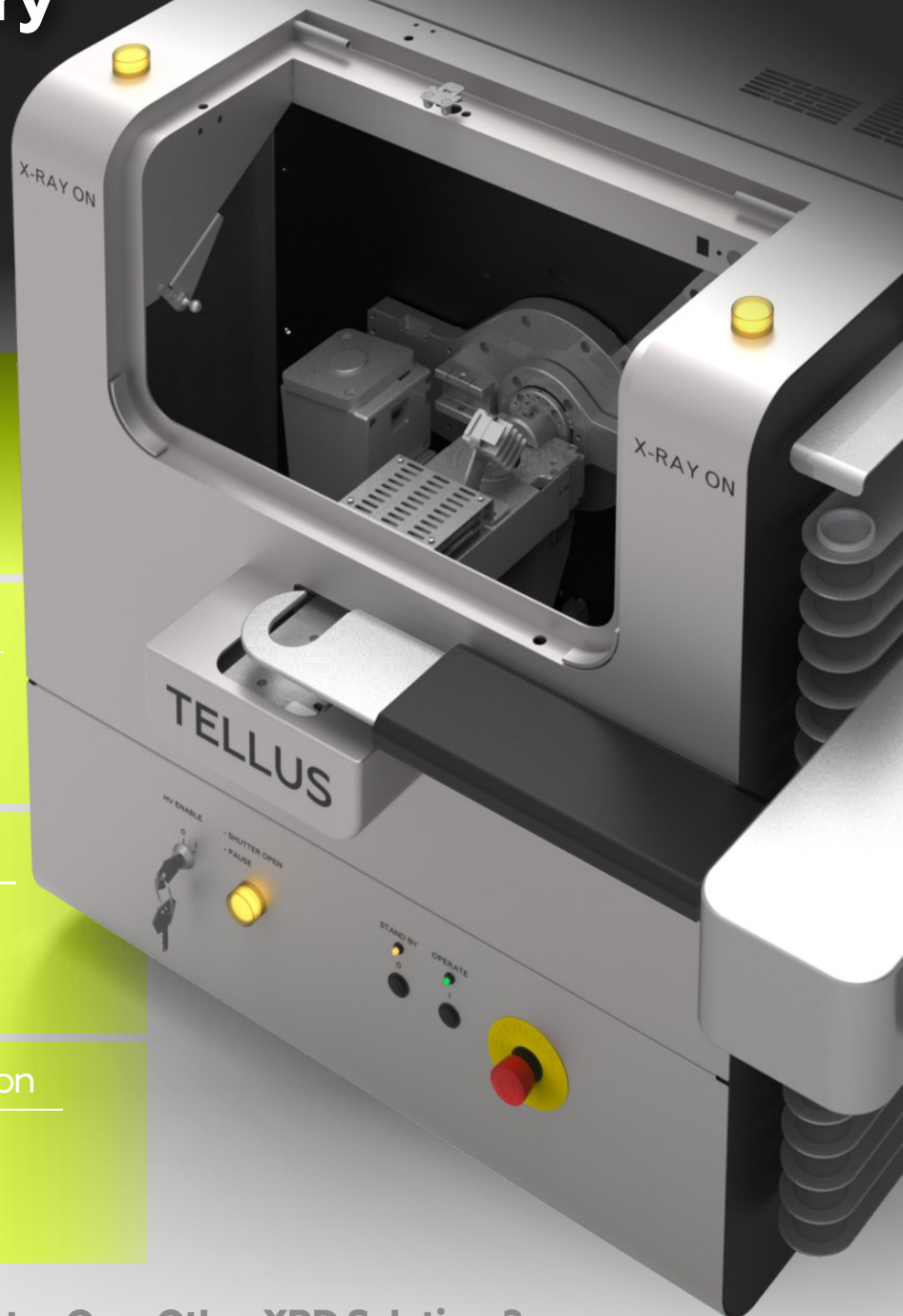
- Detect alite, belite, and aluminate content for precise quality control
- Adjust kiln operations for consistent clinker properties

Final Cement Quality Check

- Quantify hydration phases to predict setting time & strength
- Improve product uniformity and performance

Alternative Material Validation

- Assess supplementary cementitious materials (SCMs)
- Ensure compliance with sustainability targets



Why Choose TELLUS Industry Over Other XRD Solutions?

Automated Sample Handling – No manual loading, seamless continuous analysis.

Rapid, High-Throughput Analysis – Scans up to 600°/min, delivering fast, actionable data.

Compact Yet Powerful – A benchtop system with full-scale XRD capabilities, saving valuable lab space.

Built for Industrial Conditions – Rugged, dust-resistant, and designed for 24/7 operation.

Seamless Integration – Easily connects with existing LIMS and production control systems.