



## TELLUS XRD SERIES

# 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



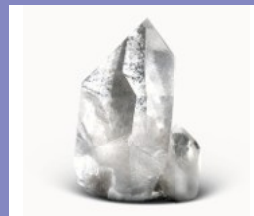
### FLUCTUATING CLINKER COMPOSITION

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

## Final Cement Quality Check

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

## Clinker Phase Monitoring

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

## 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.

**Ensure Quality.**  
**Improve Efficiency.**  
Optimize Cement Production.

**TELLUS**  
XRD series



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0982-AA07052026



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