

# Cross-Belt Elemental Composition Analyzer

This cross-belt analyzer is designed for real-time monitoring of elemental composition on conveyor belts. It utilizes X-ray fluorescence (XRF) technology to provide accurate data for process optimization and quality control.



## Overview

### Real-Time Elemental Analysis

The Cross-Belt Elemental Composition Analyzer provides advanced, non-contact monitoring of raw materials and final products during the sintering process. By utilizing Prompt Gamma Neutron Activation Analysis (PGNAA) technology, it delivers real-time data on critical elemental concentrations to optimize process technology. This system helps industrial operations reduce parameter fluctuations, enhance final product quality, and significantly increase production efficiency.

## Technical Specifications

Measurement Technology	PGNAA (Prompt Gamma Neutron Activation Analysis)
Measurement Type	Real-time, non-contact
Detectable Elements	Ca, Si, Fe, S

## Operational Benefits

### Key Operational Advantages

- Real-time quality control parameters
- Optimization of process technology
- Reduction in parameter fluctuations
- Cost reduction and profit increase
- Improved final product quality