

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