

# Online Neutron Activation Cement Element Analyzer



Elemental analyzer (EA) is an online cross-belt testing equipment for the content of material elements (components). The analyzer continuously scans the material, online analyzes the content of each element in the material and calculates the relevant quality control parameters. The production process is controlled according to the results of the analyzer online detection. Improve production processes, reduce production costs and improve product quality.

## Product principle

EA adopts prompt gamma neutron activation analysis (PGNAA) technology.

## Product features

- The unique measurement structure improves the detection efficiency.
- The high-performance detector and signal processing system improve the measurement performance of the product.
- The structure of multi-source and multi-detector can be adjusted flexibly to meet the needs of various site processes.
- A variety of specifications are available for site selection and can be designed for field measurement when there are special needs.

## Technical parameters

Applicative conveyor(mm)	650	800	1000	1200	1400	1600
Analyzer length(mm)*	2200	2200	2200	2200	2200	2200
Analyzer width(mm)*	1700	1700	1700	2250	2250	2450
Analyzer height(mm)*	1500	1500	1500	1700	1700	1700
Weight(kg)*	2600	2600	2600	2900	3000	3300
Angle of support groove	25°~45°					
Neutron source	Cf-252					
Signal processing cabinet	Protection class: IP66		Dimension: 1100×770×300mm			
Working temperature	Working temperature of measuring device: -30°C~50°C					
Power supply	~220V±10% 50Hz/60Hz, 6.5A, 3-wire(L、N、GND)					
Measuring principle	Prompt gamma neutron activation analysis (PGNAA) technology					
Analysis time	The shortest time is 1 minute, settable by user					
Analysis element	Si, Al, Fe, Ca, Mg, K, Na, S, Cl, Mn, Cu, Ni, Ti, etc.					
Calculate quality parameters	LSF, KH, SM, IM, C <sub>3</sub> S, C <sub>2</sub> S, C <sub>3</sub> A, C <sub>4</sub> AF, Alkalinity and etc.					

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