

Company Profile

Since found in 1996, DFMC has always dedicated to industrial online measuring instrument and process control system. In cement industry, DFMC made EA-CEMENT cross-belt analyzer gains the recognition of the largest cement producing market in only 9 years. More than 400 EA-CEMENT has been applied in cement plants and all running stably since installed. We are the professional manufacturer of online instrument. We know process better.

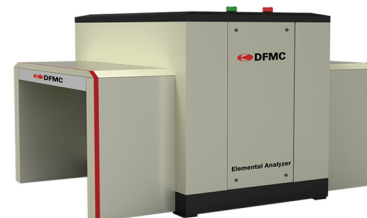
Product Features

- Large volume NaI detector: Customized large volume detector from US enables better detecting efficiency, higher accuracy while minimize the source amount.
- No need for source disposal: Unique hollow source rod design reserves 12 empty seats for top-up sources in the future, which means no need for source disposal in almost 30 years.
- Free upgrade for software functions: DFMC is professional in online instrument and process control, we understand that there are always particular demands from different sites. DFMC skillful team will customize and upgrade the software according to site demand.
- Remote monitoring: DFMC not only provide remote technical support, but also build up a remote monitoring center where the professional team monitors the EA running status at each site every day, of course, under the permission of user.



Product Overview

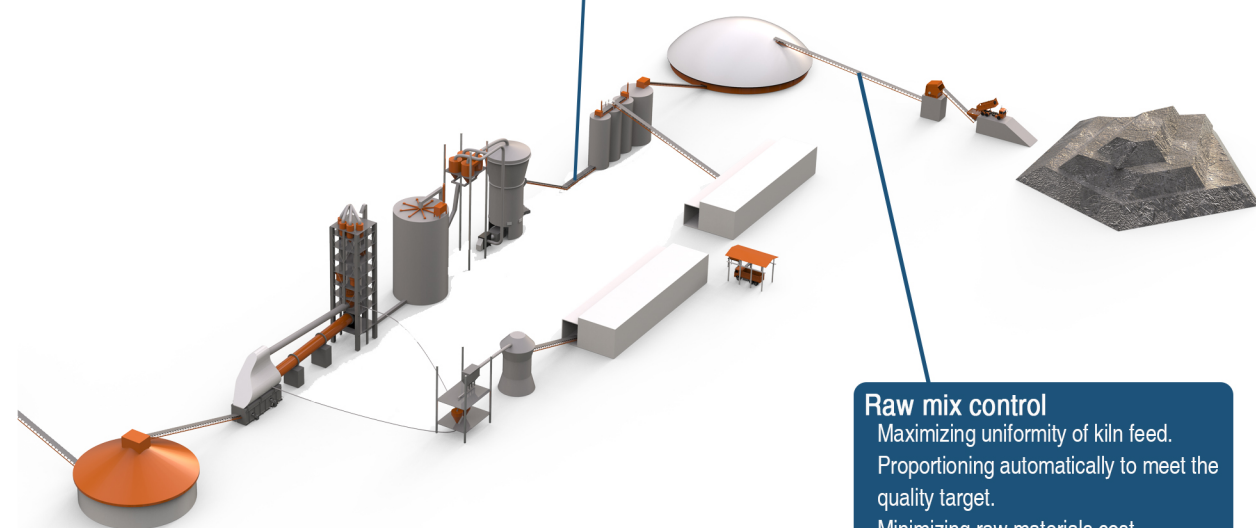
Cross-Belt Elemental Analyzer (EA-CEMENT) is an online cross-belt type material quality detection device. It has great significance for quarry management, pre-blending stockpile control and raw mix control at cement plant.



- Modular design
- High performance detector
- Low amount Cf-252 source
- More than enough shielding materials
- Separate signal cabinet not influenced by harsh environment

Pre-blending stockpile control
Tracking stockpile chemistry and control it to meet the quality target.
Utilizing more lower quality limestone to prolong lifetime of the quarry.

Raw mix control
Maximizing uniformity of kiln feed.
Proportioning automatically to meet the quality target.
Minimizing raw materials cost.



Technical Parameters:

Physical Parameters

Belt Width	650mm	800mm	1000mm	1200mm	1400mm	1600mm
Length	2200mm	2200mm	2200mm	2200mm	2200mm	2200mm
Width	1700mm	1700mm	1700mm	2250mm	2250mm	2450mm
Height	1600mm	1600mm	1600mm	1650mm	1700mm	1650mm
Weight	2800kg	2800kg	2800kg	3000kg	3100kg	3300kg
Troughing Angle	35°					

Electron Device

Signal Cabinet	Length=1100mm Width=770mm Height=300mm
Signal Cabinet Protection Level	IP65
Power	Single phase 230V, 50 to 60Hz, 6.5Amps, 3-wire (L1,N,GND)

Environment

Temperature	-30°C~50°C
Humidity	0~100%

Analysis

Principle	Prompt Gamma Neutron Activation
Neutron source	From 15ug to 60ug, determined by application and accuracy requirements
Elements	Si, Al, Fe, Ca, Mg, K, Na, S, Cl, Mn, P, Zn, N, V, Cu, Ni, Ti, Cr, Ag, Hg, As and etc.
Moisture	Optional
Parameters	LSF, Silica ratio, Iron ratio, Basicity, C3S, C2S, C3A, C4AF and etc.

Communication

Protocol	OPC, Webservice
Cabinet to operator console (customer supplied)	Fiber optic, specification determined by distance supplied