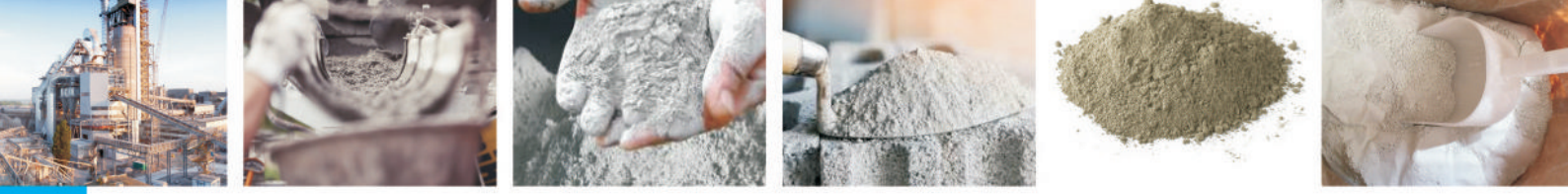
金义博®

JINYIBO INSTRUMENT

Precise Instruments,Perfect Experience

On-site process and quality control of cement clinker and raw materials

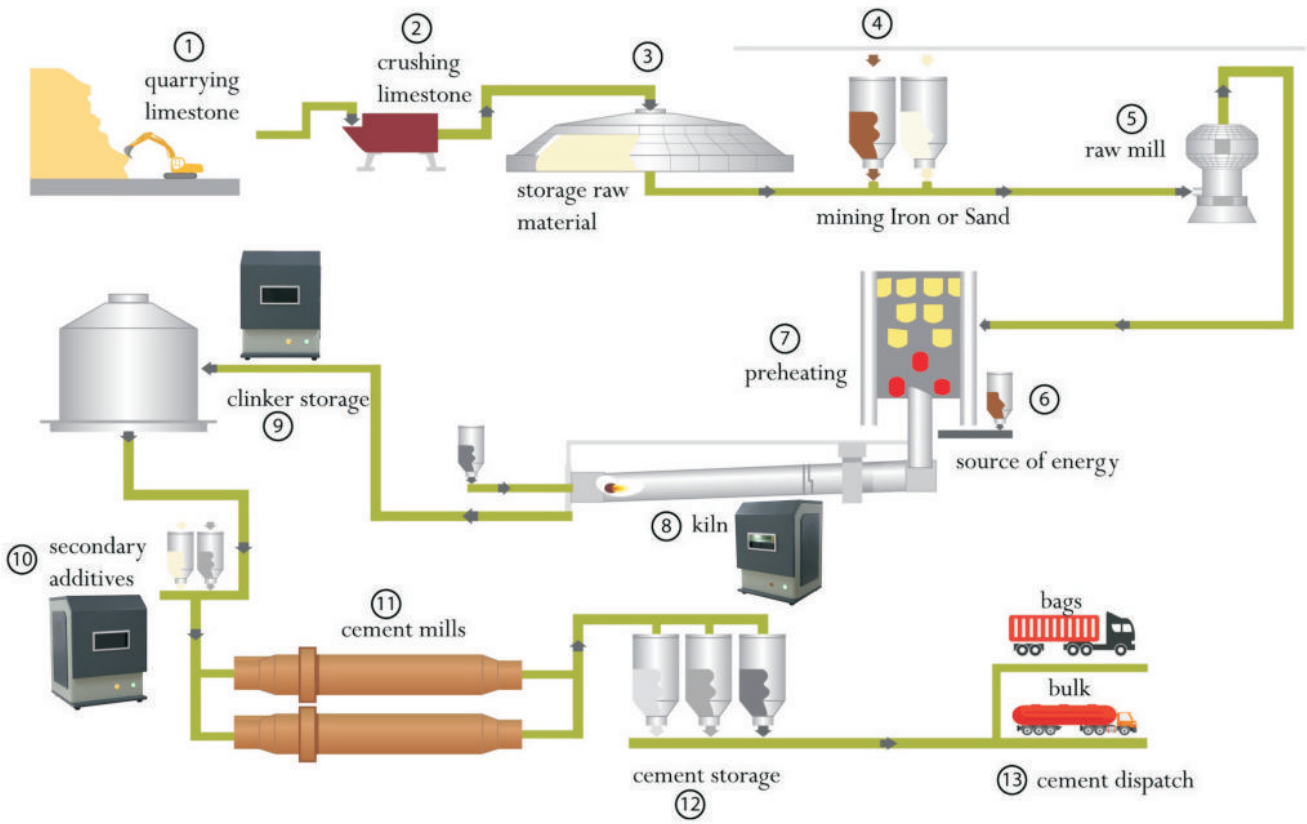


P9800S

Full Elemental Cement Analyzer

The P9800S Cement Analyer is X-ray Fluorescence for everyone in the cement industry. This product is the only one in China that adopts the upper-illuminated optical path structure, which overcomes the problem of powder-like ash pollution detector and light pipe, improves measurement accuracy and is easy to maintain .It has a sample liftable test platform and a sample spin system, the lifting platform automatically puts down the sample at the end of the measurement to facilitate the replacement of the sample, and the X-ray does not illuminate the person, which is safe and reliable. With a monitored sample spin system, the measurement deviation caused by sample non-uniformity can be eliminated and the stability of the measurement can be improved.

Application Process



P9800S Features

Features

Accurate, **fast**, **non–destructive**, **intuitive and environmentally friendly**

Accurate: test results can be close to wet chemical method testing

Fast: It takes only a few minutes to analyze dozens of elements in a sample

Non–destructive: does not destroy the physical and chemical properties of the sample being analyzed

Intuitive: Analytical results are presented graphically

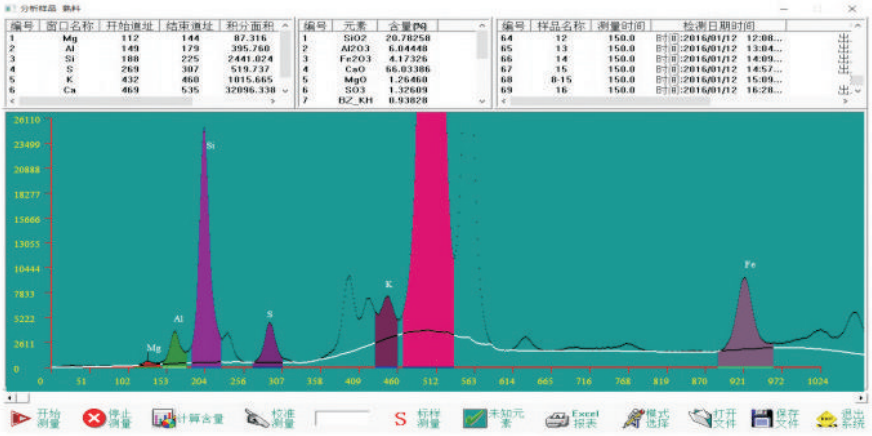
Environmental protection: no pollution damage to the environment

Technical Specification

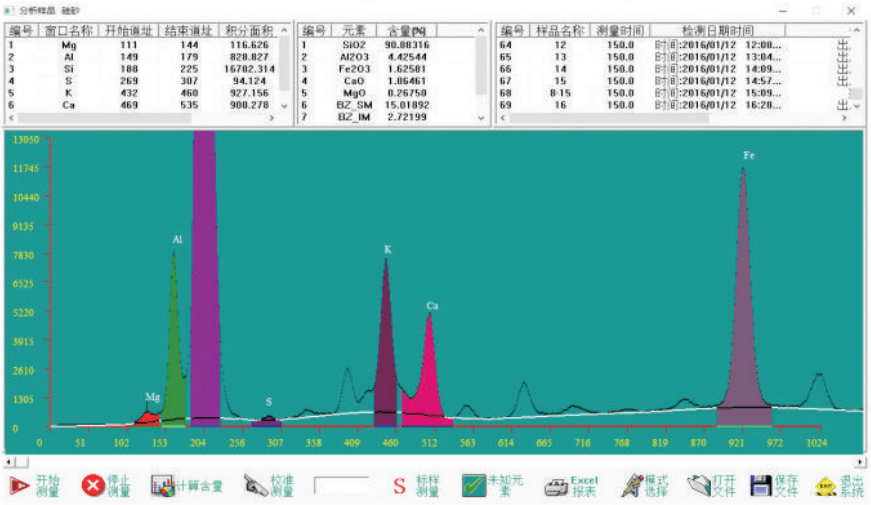
Elemental analysis range	(Na) — (U)
Content analysis range	1PPM-99.99% (Different element content ranges)
Measure time	30-200 Seconds
Detector	Electric Refrigeration Fast-SDD Semiconductor Detector
Instrument resolution	(127±5) eV
Multichannel analyzer	2048
Input voltage	AC 220V±10%, 50HZ
Environment humidity	30%--80%
Pulse forming	Triangular pulse shaping, pulse forming time≤2 μ S, Pulse mode and line mode freely interchangeable
Differential nonlinearity	＜0.1%
Integral nonlinearity	＜0.01%
Vacuum pump rated power	550W
HD CCD	5 million pixels
Round sample vacuum chamber	240*83mm
Grouped equipment	1 set of regulated power supply matching the power of the equipment
Programmed gain control, 1-65535 level fine adjustable	
10 seconds vacuum10-2pa (High vacuum area 10-5pa)	
Automatically switch filters	
Fully digital multichannel spectrometer	
Own database management system	
Users can increase the sample type and type according to their needs, without software restrictions	

Different X-ray Fluorescence Spectrum

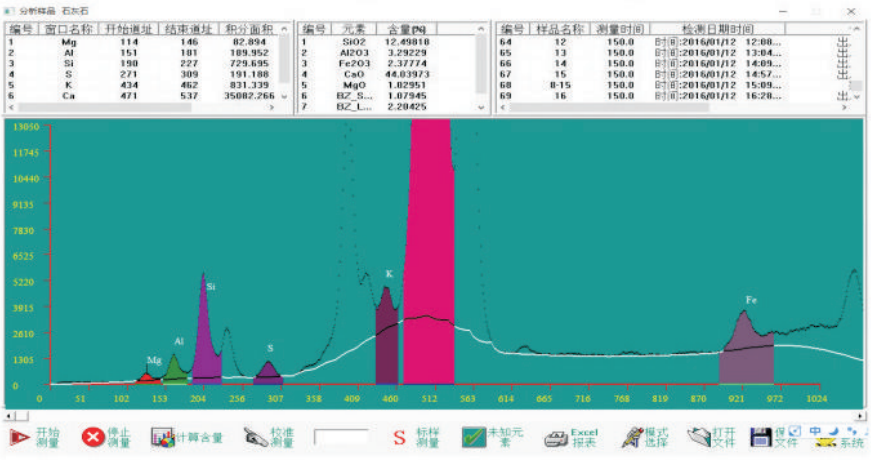
Clinker X-ray Fluorescence Spectrum



Sandstone X-ray Fluorescence Spectrum



Limestone X-ray Fluorescence Spectrum



Common Application Areas and Examples

The results of the raw material analysis and comparison are as follows:

Sample Name	Method	SiO_2	Fe_2O_3	Al_2O_3	TiO_2	CaO	MgO	K_2O	Na_2O
XS1	Chemistry	11.13	3.82	2.14	0.11	45.10	0.81	0.35	0.22
	Fluorescence	11.02	3.87	2.15	0.16	45.16	0.81	0.38	0.24
	Error	-0.11	0.05	0.01	0.05	0.06	0.00	0.03	0.02
XS2	Chemistry	11.65	3.58	2.38	0.12	44.50	1.07	0.38	0.24
	Fluorescence	11.75	3.61	2.47	0.17	44.61	1.15	0.45	0.21
	Error	0.10	0.03	0.09	0.05	0.11	0.08	0.07	-0.03
XS3	Chemistry	12.19	3.33	2.62	0.14	43.89	1.34	0.42	0.26
	Fluorescence	12.24	3.38	2.61	0.18	44.01	1.32	0.48	0.33
	Error	0.05	0.05	-0.01	0.04	0.12	-0.02	0.06	0.07
XS4	Chemistry	12.71	3.09	2.86	0.15	43.29	1.60	0.45	0.28
	Fluorescence	12.64	3.06	2.85	0.19	43.34	1.55	0.47	0.36
	Error	-0.07	-0.03	-0.01	0.04	0.05	-0.05	0.02	0.08
XS5	Chemistry	13.25	2.84	3.11	0.16	42.68	1.86	0.48	0.30
	Fluorescence	13.37	2.89	3.15	0.20	42.58	1.93	0.51	0.33
	Error	0.12	0.05	0.04	0.04	-0.10	0.07	0.03	0.03

Stability Test

No.	Analysis mode	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	CaO (%)	MgO (%)	Na_2O (%)
1	Grinding raw material	13.134	3.3806	2.180	43.8800	0.6703	0.1260
2	Grinding raw material	13.135	3.3796	2.181	43.890	0.6721	0.1249
3	Grinding raw material	13.145	3.3596	2.161	43.874	0.6710	0.1248
4	Grinding raw material	13.105	3.3666	2.183	43.865	0.6743	0.1256
5	Grinding raw material	13.120	3.3895	2.182	43.842	0.6732	0.1259
6	Grinding raw material	13.135	3.3632	2.180	43.862	0.6722	0.1251
7	Grinding raw material	13.1464	3.3547	2.182	43.8313	0.6754	0.1253
8	Grinding raw material	13.1274	3.3336	2.187	43.858	0.67433	0.1247
9	Grinding raw material	13.132	3.3776	2.184	43.866	0.6732	0.1243
10	Grinding raw material	13.1474	3.3996	2.185	43.875	0.6742	0.1244
11	Grinding raw material	13.126	3.3676	2.180	43.8911	0.6769	0.1257

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