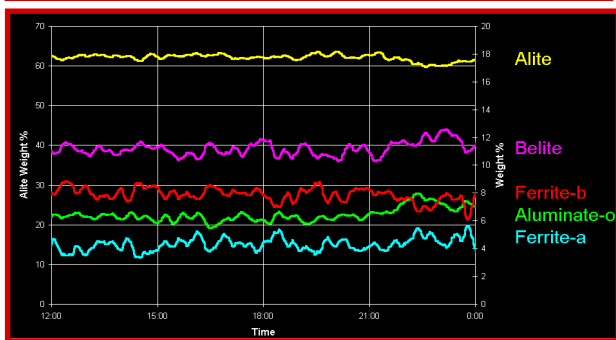
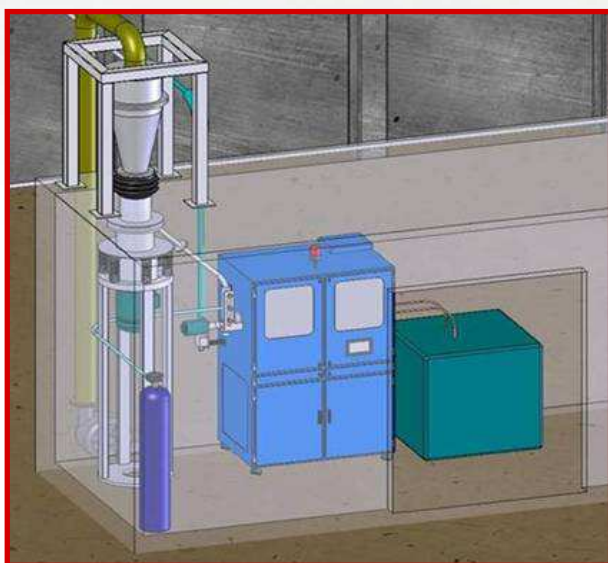


ON LINE CLINKER XRD ANALYSER COSMA



**THIS ANALYSER MEASURES THE MINERAL
COMPOSITION OF CLINKER ON LINE**

**Key information for the cement manufacturing process to
guarantee the end product quality with optimized burning
conditions and alternative fuels use**

ADVANTAGES

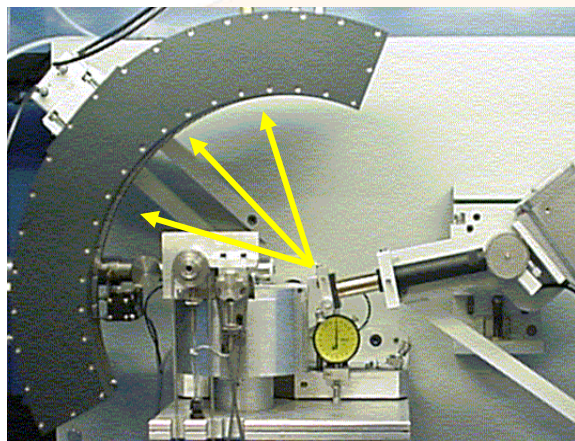
- Automatic **on-line** equipment requiring no human intervention
- Up to **3 sampling points** can be controlled by the same analyser
- Monitoring and **control** of kiln operations
- High **cost savings** by adjustment of burning conditions & alternative fuels use
- Continuous** measurement of **clinker quality** using **Rietveld**
- Full pattern collection with **fixed 120 degree area detector**, providing **real time analysis**

PRINCIPLE

- Custom designed automatic sampling & transport systems
 - Clinker grinding
- Continuous ground clinker feeding toward the analyser's turntable
 - Continuous XRD analysis with fixed detector
 - Output data transmitted to the kiln management unit
 - Sampled clinker automatically returned to the process

PERFORMANCES

- **Continuous** analysis : from **50** to **100 g/min** are analysed
- **High performance** grinding unit that guarantees a constant fineness
 - **No sample cross contamination**
 - **Static repeatability** :



Mineral Phase	Range (%)	St. Dev. (%)
Alite (C ₃ S)	40 - 70	0,8
Belite (C ₂ S)	5 - 20	0,8
Aluminate (C ₃ A)	5 - 15	0,4
Ferrite (C ₄ AF)	5 - 20	0,4
Free Lime (CaO)	0 - 1,5	0,07
Gypsum	0 - 6	0,3
Bassanite	0 - 6	0,3
Calcite	0 - 15	0,3

SPECIFICATIONS

- Height : 2000 mm
 - Depth : 800 mm
 - Length : 1800 mm
 - Weight : 600 kg
- Power supply: any from 380 to 600 V; 50-60 Hz
Compressed air supply: 6 bars, dry and clean
Location: close to the cooler(s)

ITECA reserves the right to modify its products without any prior notification