



RAW MIX ANALYSER FX3500



**ON LINE MATERIAL ANALYSIS TO QUANTIFY
Ca, Si, Fe, Al, Mg, K, P, S...**

**High frequency measurement to optimize raw mix
composition thanks to automatic control of
additives weigh-feeders**

ADVANTAGES

Automatic **on-line** equipment with sample preparation, analysis, measurements report and waste ejection

Up to **3 sampling points** can be controlled by the same analyser

Software available for the **automatic control** of the **additives weight feeders**

Improved quality with the continuous monitoring of material specifications

Possibility to use this equipment to control **cement composition**

Easy to install either on site or in automated laboratory

PRINCIPLE

- Custom designed sampling and transport systems
- Material is transferred into a patented high density tungsten carbide puck and ring mill
- Ground sample is introduced into a measuring cell where it is compacted with vibrations
- Measuring cell is loaded into a X-Ray spectrometer from Oxford Instruments : labX3500
 - Analysis is achieved under a flow of helium
- Analog 4-20 mA outputs (Profibus communication also available) of the oxides contents
- Waste ejection toward a dust extraction system and cell cleaning with compressed air

PERFORMANCES

- **High frequency** analysis : up to **7 analysis / hour**
- Measurement **accuracy** (standard deviations):
 - Ca : 0,1 Si : 0,15
 - Al : 0,05 Fe : 0,03
- Automated measurement **cells (± 20) magazine** for 1 week operation
 - **Cell cleanliness** optical **checking** system
 - **2 operating modes**: Automatic - Manual
 - **He** consumption: 1,7 litre / min (during analysis)

SPECIFICATIONS

- Height : 2000 mm Power supply: any from 380 to 600 V; 50-60 Hz
- Depth : 800 mm Compressed air supply: 6 bars, dry and clean
- Length : 2000 mm Location: - next to raw mill(s)
- Weight : 500 kg - in the laboratory

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