



# LOSS ON IGNITION ANALYSER PF1



## TWO APPLICATIONS

Measurement of the decarbonation rate at the bottom of the precalciner

**PF1 KT**

→ Optimization of the precalciner operation

Measurement of the filler rate in the finished product flow

**PF1 KE**

→ Optimization of the filler rate in cement

## ADVANTAGES

**Automatic on-line** equipment with integrated sample preparation, measurement and residues cleaning

**Output** information used to **control** the **precalciner** and to **optimize** the burning operations

**Cost savings** due to **production increase** combined with **energy savings**

Possibility to use the same equipment to **regulate** the **filler rate** at the optimum level according to legislation

**Easy to install** either on site or in automated laboratory

## PRINCIPLE

- Sampling and transport systems are custom designed for each application:
  - PF1 KT: air cooled piston sampler type PC303
  - PF1 KF: screw sampling solution type PREC100 + P11
    - Volumetric pre-weighing
  - Precise sample weighing with an electronic scale
    - Heating at 975 °C during 20 min
    - Residual material weighing
- Analog 4-20 mA output (Profibus communication also available) to precalciner controls (KT model) or to the grinding mill control unit (KF model)
  - Automated crucible cleaning system
  - Pneumatic waste ejection

## PERFORMANCES

- **High frequency analysis** : up to **2 analysis / hour**
  - **No sample cross contamination**
  - Equipment **adaptable** to worldwide standards
  - **3 operating modes**: Automatic - Manual - Test
    - **High precision scale** : 1/2500
- **No loss of CO<sub>2</sub>** during sample transport to the analyser (KT model)

## SPECIFICATIONS

- |          |           |   |
|----------|-----------|---|
| • Height | : 1933 mm | Power supply: any from 380 to 600 V; 50-60 Hz   |
| • Depth  | : 833 mm  | Compressed air supply: 6 bars, dry and clean    |
| • Length | : 1433 mm | Location: - close to the precalciner (KT model) |
| • Weight | : 500 kg  | - in the cement laboratory (KF model)           |

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