



FCB Flash Calciner

Comprehensive unit of mineral calcination by flash process



FCB Flash calciner combines the highest flexibility with optimized energy efficiency

- Calcination of all types of minerals such as clay as a low carbon clinker substitute
- High product quality and reactivity
- Very compact workshop
- Pre-grinding to optimize calcination

Flexible and reliable calcination of a wide range of materials

FCB Flash Calciner provides a fine control of the calcination degree for an homogeneous and high reactive material.

1

Raw material grinding/drying

A dedicated mill and classifier for increased fineness and drying with hot gases from the preheater outlet

2

Preheating and calcining

Based on indirect firing providing an optimum temperature control and the possible use of alternative fuels or any other energy sources

3

High-efficiency cooling with color control

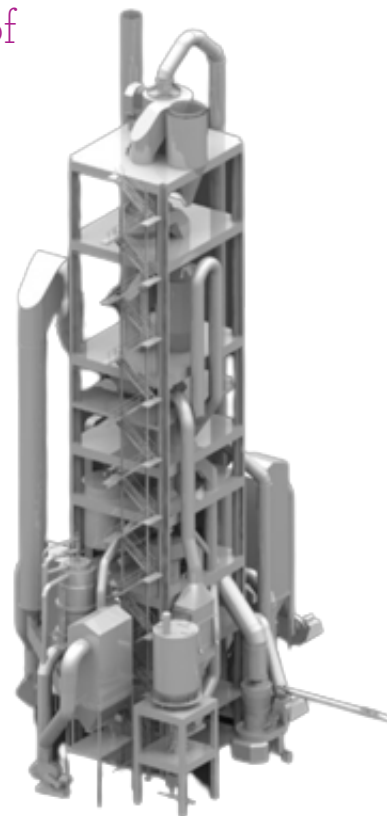
Through low pressure drop cyclones

Patented color control system for clay calcination

Color control is made thanks to a reducing atmosphere. The operating principle consists in dissociating the reduction phase from the calcination allowing high level of alternative fuels.

Integrated gas treatment

Efficient pollutants neutralization with optimized reagent consumption is done through: dry scrubbing (lime injection) to reduce SOx emissions, Regenerative Thermal Oxydizer system to treat VOC & HC and active coal injection to capture heavy metals and dioxins.



Main advantages compared to rotary kiln solution

- Faster warm-up
- Accurate temperature control
- Lower energy consumption through heat recovery
- Lower maintenance needs
- Compact footprint
- Lower CAPEX for new plants



Part of our **GetGreen** solutions
by optimizing the cement-to-clinker ratio

reduces up to **40%** of cement
production CO2 emissions

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