

## High performance technologies and process equipment for cement and mineral industries

Within the international industrial engineering group Fives, the Cement & Minerals business line specialises in the design, supply and installation of **core process equipment**, **comprehensive systems** and **complete plants** offering high performance and low energy consumption. Our expertise ranges from crushing, grinding, drying, classification, flash calcination, pyroprocessing, control and optimization technologies to project management of complete plants.

We provide our clients with equipment and services for the production of value-added low-clinker blended cement and SCMs such as calcined clays, pozzolan and GBFS & steel slags, as well as coal ash beneficiation.

Our unique expertise as an O.E.M. enables us to contribute to improving the operational flexibility, productivity and energy efficiency of our customers' facilities, while increasing their profitability.



Crushing



Grinding / Drying / Classification



Gas treatment



Flash Calcination



Pyroprocessing



Optimization & Control

Fives also offers plant site services to support customers. Our worldwide team of experts provides responsive and relevant support for operation and maintenance of burning lines and grinding workshops, whatever the original manufacturer.

Fives creates innovative solutions to ensure the reliability of clients' equipment, increase their performance and reduce their maintenance costs.

### THEY TRUST US:

BUZZI-UNICEM — CEMENTOS MOCTEZUMA — CEMEX — CIMENT QUEBEC INC. — CIMPOR — CRH — ELEMENTIA — GICA — HEIDELBERGCEMENT — HOLCIM — OYAK — QATAR NATIONAL CEMENT COMPANY — ROHRDORFER ZEMENT — TCC — TITAN — VICAT — VINA CONEX — VINAINCON — VALE ...

# Fives brings its high-level expertise to supply tailor-made solutions that offer optimal performance and sustainability

Committed to reducing the impact of industry processes on the environment, Fives provides the cement and minerals industries with solutions that help preserve natural resources and reduce polluting emissions.



## FIVES' AVAILABLE SOLUTIONS TO REDUCE THE CARBON FOOTPRINT OF THE CEMENT INDUSTRY

### Get Green



Energy efficiency



Fuel switching



Material substitution



CO<sub>2</sub> capture & storage

### FIVES' solutions for CO<sub>2</sub> abatement



FCB Horomill®	●		●	
FCB TSV™ Classifier	●		●	
FCB Aerodecantor	●		●	
FCB Rhodax®			●	●
FCB Carbonator				●
FCB calciners (Zero-NOX, In-Line)	●	●		
Preca-Max®	●	●		
FCB Pyro-Line	●	●		
FCB Flash Calciner	●	●	●	
FCB By-pass	●	●		
Opti-Mill™ & Opti-Kiln™	●	●	●	
Pillard NOVAFLAM® Evolution	●	●		
Oxy-Combustion process				●

## FIVES, YOUR PARTNER FOR A MORE EFFICIENT AND SUSTAINABLE INDUSTRY

### INDUSTRY CAN DO IT

Fives designs and manufactures machines, process equipment and production lines for the world's largest industrial groups.

From the first railway lines to the elevators in Eiffel Tower and industry 4.0, for more than 200 years, Fives has been designing breakthrough technologies and solutions that create industry. As a pioneer of decarbonization and digitalization, Fives is always one innovation ahead thanks to its ability to anticipate customer needs. Fives is able to provide both environmental and economic performance in 25 countries, responding to the specific needs of each local market thanks to its more than 9,200 employees.

9,200  
employees

2,101 M€  
order intake

87  
nationalities

2,281 M€  
of sales

200  
years of history

2,869  
patents in 838 families

2024 key figures

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#### Fives FCB

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