



1991

Fives tests the pilot version of the *broyeur horizontal à galet (BHG)*, which would soon become known to the global cement industry as the FCB Horomill®

1994

Turkish producer Çimentoş orders an FCB Horomill® 3400 for its cement grinding plant in Izmir, Turkey (see **Success Story: Çimentoş**, p. 13)

Cementos Moctezuma orders two FCB Horomill®s for cement and raw meal grinding, for its new plant in Tepetzingo, Mexico, the first ones on the American continent (see **Success Story: Cementos Moctezuma**, p. 19)

1996

Lafarge's slag cement grinding plant in Karsdorf, Germany begins production with an FCB Horomill® 3800 (see **Success Story: Lafarge Zement**, p. 18)

2000
2001

Cementos Moctezuma commissions two more mills for its Tepetzingo site—one for raw meal and the other for cement (see **Success Story: Cementos Moctezuma**, p. 19)

2004

First completely automatic plant start occurs at Buzzi Unicem's Trino (Italy) facility

2006

Cemex Panama orders an FCB Horomill® grinding mill for its plant in Bayano

Fives' first twin mills for Vinaconex start up at its Vietnam facilities (see **Success Story: Vietnam**, p. 26)

2008

Vinaconex starts up twin FCB Horomill® mills for its Thai Nguyen plant (see **Success Story: Vietnam**, p. 26)

Holcim affiliate Holcim México orders triplets: 3 FCB Horomill® grinding mills for its Hermosillo (Mexico) 3,500 tpd facility, each producing 100 tph with zero water consumption (see **Success Story: Holcim México**, p. 27)

2013

Fives breaks ground on new Testing Center, equipped with FCB Horomill® pilot plant in Noyelles-lès-Seclin, France (see **Fives FCB Research and Testing Center**, pp. 38-39)

The FCB A erodecantor makes its debut at the Teresa (Philippines) plant of Lafarge Republic (now Republic Cement) (see **Success Story: Republic Cement**, p. 36)

2016

Holcim Brasil (now CSN) starts up the largest mill to date, the FCB Horomill® 4400, at its Barroso (Brazil) raw meal plant (see **Success Story: CSN**, p. 34)

2018

Fives brings the FCB FLAG™ station to market—a modular grinding plant designed for fast delivery, start-up, flexibility and maximum production



2023

Cementos Moctezuma and Fives sign a contract for a new FCB Horomill® 3800 to further increase cement production capacity at Cementos Moctezuma's Tepetzingo plant—the 15th FCB Horomill® purchased by Cementos Moctezuma

2025

Switching from cement to pure slag production, Oyak commissions Fives to update its Darica plant's FCB Horomill® 3600 (see **Success Story: Oyak**, p. 45), originally installed onsite for Lafarge in 1996

Fives FCB expands in the United States, opening its new Alabama-based subsidiary Fives FCB USA Inc. to better serve its North American customers

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1993

FCB Horomill® technology is presented to the cement industry for the first time at the International VDZ Congress in Germany

1995



The first industrial-size FCB Horomill® starts up in Faulquemont, France for Société Mosellane d'Anhydrite (Heidelberg)

Republic Cement Corporation (now Republic Cement) orders the first FCB Horomill® in Asia, for its Bulacan plant in the Philippines

1998



The FCB Horomill® proves its capabilities for very fine production with successes in Krölpa (Germany) for customer maxit, and in Amsterdam (The Netherlands) for another customer

2002

Fives sells a first complete plant including the FCB Horomill® for cement grinding to Holcim Costa Rica

2005

Vicat orders its second FCB Horomill® for its Turkish subsidiary Konya Cement

2007



Rizhao Jinghua orders 2 sets of FCB Horomill® twins for its steel slag production in Rizhao (China), the first application for steel slag grinding

2012



Jiujiang (China) is the site of the first FCB Horomill® single shoe for Jingye's steel slag production

Revamped, larger sleeve on FCB Horomill® is installed at Cementos Moctezuma's Cerritos plant in Mexico

2014

To modernize and improve the environmental performance of its subsidiary Lone Star Industries' Maryneal (Texas) plant, Buzzi Unicem orders an FCB Horomill® for raw meal after the successful commissioning of the one purchased for cement grinding

2017

FCB Horomill® helps Cementos Fortaleza's Tula (Mexico) plant achieve high performance for blended cement grinding while energy consumption for the entire workshop is lower than 22 kWh/t (see **Success Story: Cementos Fortaleza**, p. 35)

First implementation of the automatic welding system at the Barroso plant in Brazil, allowing for in-situ refurbishment of the grinding roller, resulting in easier and faster maintenance

2020



Fives enhances remote tech support to better help customers at a distance during the COVID-19 pandemic

2024

Already an active member of the European Cement Research Association (ECRA) for many years, Fives FCB joins the American Cement Association (ACA)

2026

CQI upgrades its Saint Basile Plant facility (see **Success Story: Ciment Québec Inc.**, p. 44) with two FCB Horomill® 4200 grinding installations and FCB TSV™ THF Classifiers



1991-1994 A revolution in grinding technology

1994-2001 A series of firsts

2001-2011 Ramping up production

2011-2022 Building bigger, better

2022-today A renewed focus on sustainability