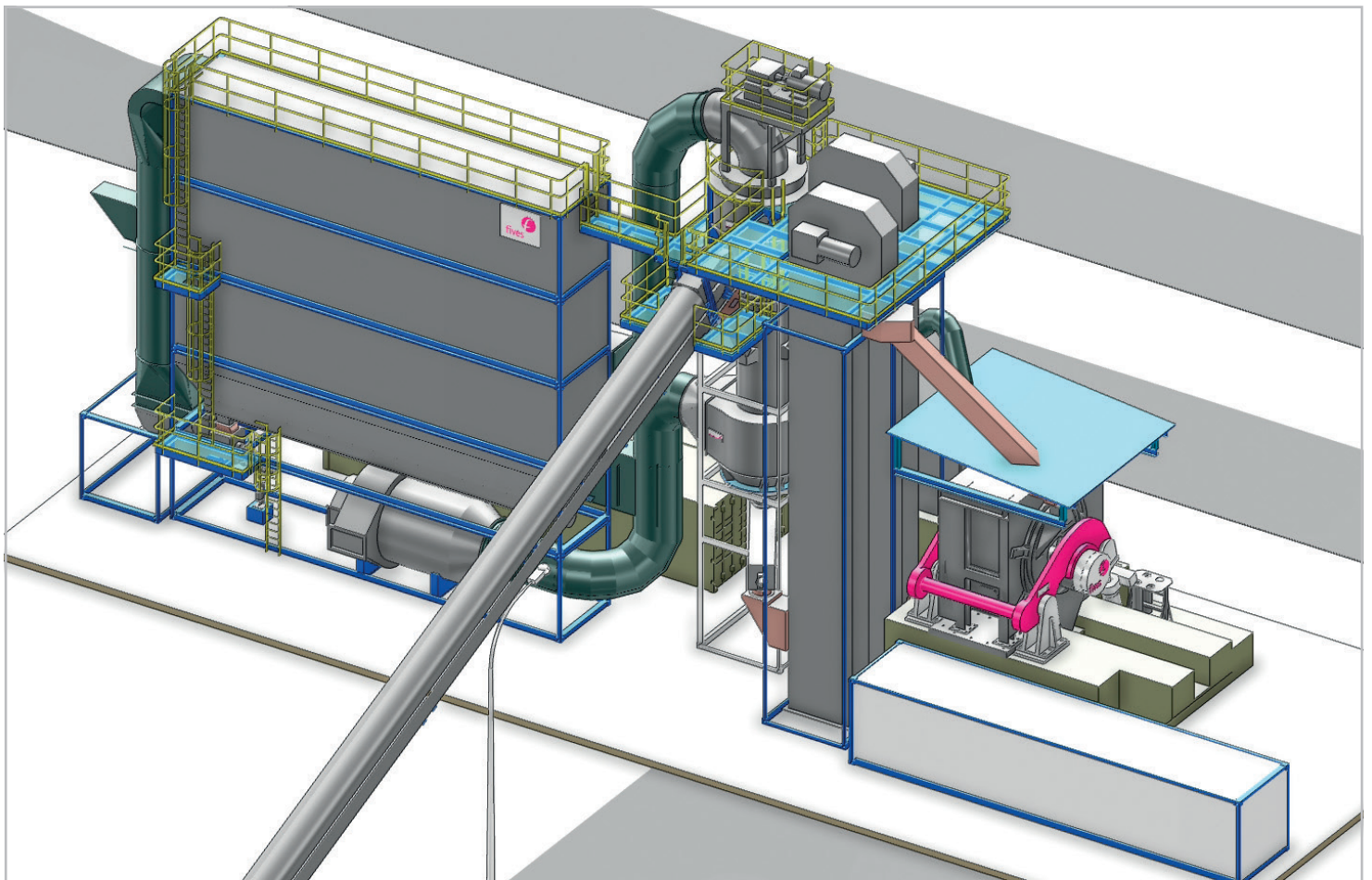


FCB FLAG™ station

The FLeXible Advanced Grinding station

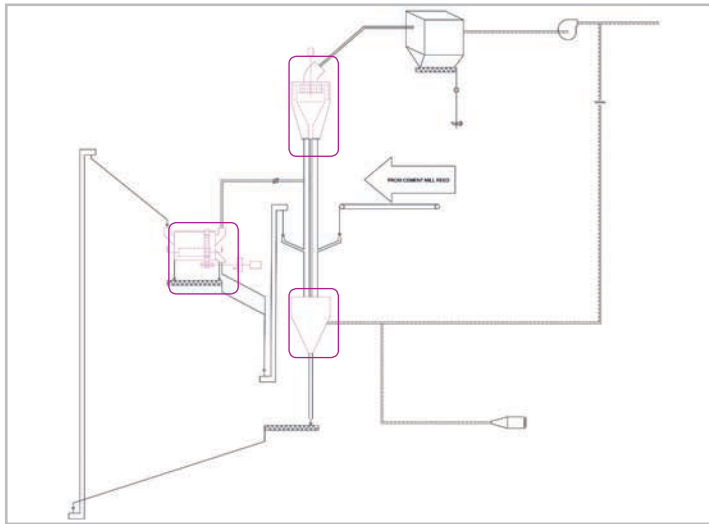


Modular grinding plant designed for fast delivery and start up to enter new markets, adapt operations to market changes and maximize production

- The best available technologies in grinding, drying & classifying
- Zero water injection leading to better cement quality
- The lowest electrical consumption in the market
- High flexibility to adapt to the production of any type of cement
- Easy assembly, operation & maintenance
- Fast delivery and start-up (EP or EPC execution scheme)

A flexible and modular unit combining the best available technologies in grinding, drying and classifying

FCB FLAG™ station features the FCB Horomill® grinding plant advantages and meets cement producers requirements in terms of minimized capital investment, maximized production and reduced operating costs.



FEATURES

- One single circuit with 3 separated process functions to get the best out of each technology:
 - The grinding efficiency of the FCB Horomill®
 - The drying capacity of the FCB Flash Dryer : aerodecanter combined with hot gas generator
 - The classifying quality of the FCB TSV™ Classifier
- Fully automated operation (start-up/running/stoppage sequences and management of product recipes)
- A standard circuit with optional configurations: raw material crushing, cement silos, cement packing & dispatch, etc.
- Two standard sizes:
 - FCB Horomill® 2200 from 20 to 25 tph
 - FCB Horomill® 2800 from 45 to 50 tph



FAST UNIT SET UP

- Supply of pre-assembled & pre-wired modules for fast delivery, erection and start up of the plant

HIGH QUALITY PRODUCTION

- Higher cement quality as no water injection is required
- Steady production rate thanks to a very low wear rate
- Quality level similar to classical larger FCB Horomill®

MAXIMIZED FLEXIBILITY

- Feed moisture up to 15% with no impact on production output
- Capability to accommodate all types of additives
- Production of all types of cements: OPC and various blended cements (limestone, pozzolana, BF, slag...)
- Full automation including recipe transition
- Optimized capacity regardless of the clinker characteristics

REDUCED OPERATING COSTS

- The lowest electrical consumption available in the market
- Zero water injection leading to optimal thermal consumption
- High reliability with low maintenance
- Comprehensive Service program to support O&M teams

EXAMPLE OF TYPICAL APPLICATIONS

Cement type	OPC 3300 Blaine		PPC 4000 Blaine	
Unit size	2200	2800	2200	2800
Typical Output	20 tph	45 tph	25 tph	50 tph
Specific power absorbed*	26 kWh/t	26 kWh/t	22 kWh/t	22 kWh/t
Installed mill power	550 kW	1100 kW	550 kW	1100 kW
Nb of containers	12	16	12	16

*Total grinding circuit absorbed power at shaft

- **Modular and compact installation that can be relocated**
- **One integrated plant including the best available technologies**
- **Maximized performances in terms of production, quality and flexibility**
- **Minimized capital investment and operating costs**
- **Fast delivery and start-up**

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