



→ Fives FCB: our experience dedicated to your plants

fivesfcb-sav@fivesgroup.com
 Tel: +33 (0)3 20 43 77 74 - Fax: +33 (0)3 20 43 75 16



Advanced technologies

- Horomill®
- Rhodax®
- Shoe-mounted mill
- "E" ball-race vertical mill
- TSV™ classifier
- Flash dryer
- Zero-NOx precalciner
- Kiln on 2 or 3 piers
- Low pressure drop preheater

Complete plants

- Design and engineering
- Supply of equipment
- Turnkey construction
- Erection
- Commissioning

Efficient services

- Revamping
- Training
- Technical assistance
- After-sales

Services



A team of experts at your service to improve the performance of your equipment and reduce your production units' maintenance costs.

- Services and technical assistance
- Revamping
- Spare parts
- Training

→ Fives FCB, empowering your plants to reach the highest availability



In full line with its know-how as turnkey contractor and equipment supplier, **Fives FCB** has an integrated Services department with a reactive team of technicians and engineers ready to respond to your requests.

With its expertise in revamping, equipment repair and the supply of spare parts, **Fives FCB** makes all its skills available for your facilities.

→ Services

- Technical assistance contract
- Mechanical and lubrication expertise
- Driving unit inspection
- Supervision
- Erection studies
- Non-destructive controls
- Vibration measurements
- Commissioning
- Theoretical and on-field Training

→ Rotary Kiln and calciner



- Comprehensive kiln audit
- Cold or hot kiln alignment
- Shell deformation
- Kiln adjustment
- Roller replacement and adjustment
- Bearing scraping
- Kiln roller and tyre machining

→ Mills and classifier



- Horomill® roller sleeves replacement and services
- Driving unit and mill Alignment
- Mill tyre and trunnion machining
- Shoe bearings refurbishment and scraping
- Classifier checking and ceramic services
- Grindability testing

→ Other equipment

Expertise and supervision for:

- Crusher
- Rhodax®
- Dryer



→ Spare parts

- Fives FCB equipment and others
- Genuine spare parts
- Perfect fit for quick replacement
- Instrumentation and control spare parts
- Enquiry on www.fivesgroup.com



→ Kiln and burning plant

- Flap valves and splash box
- Cutting ducts/dip tubes
- Upstream seal spare parts
- Supporting bearings spare parts
- Supporting rollers and tyre
- Hydraulic thrust spare parts
- Downstream seal wearing parts
- Nose-ring plates



→ Mills and classifier

- **Horomill® spare parts:** roller sleeves, complete roller, swivels, scrapers, shoe bearing, liners, hydraulic components, ...
- **Ball mills spare parts:** diaphragm, mill end, bearing, hydraulic components, ...
- **"E" Vertical Mill spare parts:** lower and upper rings, balls, parts for pressure system, stirrup, ...
- **TSV™ classifier spare parts:** complete turbine, centering ring, shaft, guide vanes, bearings, liners, ceramics, ...



→ Other equipment

- **Crusher:** complete rotor, hammers, shaft, inertial rotor, anvil, bearings, ...
- **Rhodax®:** cone, crushing chamber, ...
- **Dryer**



→ Revamping

Successful package

- Expertise
- Sizing and design studies
- Material supply
- Erection studies
- Supervision



→ Rotary Kiln and calciner

Replacement of:

- Inlet seal (upstream)
- Shell
- Tyre with floating shims
- Outlet seal (downstream)
- Roller station (roller shaft and supporting bearing)
- Girth gear and pinion, driving unit
- Hydraulic thrust



→ Mills and classifier

Replacement of:

- Shell
- Trunnion
- Girth gear, pinion, driving unit
- Diaphragm (multi-part or not)
- Lubrication unit
- Classifier sealing, bearing, wear protection, ...



→ Updated equipment technology

- Crusher
- Rhodax®
- Dryer

