Motors and drives for cement production

Canonical: https://electricmotors.teco.com.au/industry/cement/

Details:

Cement production puts different demands on equipment at each stage. We work through the load profile, starting duty, heat, dust and plant electrical system to select motors, drives and starting equipment for the job.

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Applications and selection priorities

Application	What we consider
Crushers	Allow for loaded starts, high starting torque, repeat starts and shock loading. Coordinate the motor and starting method with couplings and gearboxes.
Kiln drives	Assess continuous duty, thermal exposure, contamination and stable torque delivery through the gearbox.
Ball and vertical mills	Account for changing feed, high inertia, thermal cycling and the required start and restart behaviour.
Induced- and forced-draft fans	Match the speed range, motor cooling and control response to process draft requirements and the electrical network.
Conveyors	Review starts under load, duty cycle, dust exposure and overload or jam detection.
Screens, feeders and chutes	Match vibrator force, mounting and operating duty to material flow and separation requirements.

Engineer the complete installation

Our cement brochure covers low- and medium-voltage motors, A510s and MV510 drives, soft starters, MAXeV4 motors and Invicta vibration equipment. These are options for a defined duty, not interchangeable combinations. Where power distribution is part of the project, our wider TECO offering includes transformers and TECOBAR busway. Confirm any specialist function, including mill restart protection, for the selected drive and commissioned system.

Explore the equipment families

Our industry range brings together the families below. Confirm the exact variant, duty and approvals for your installation; a listing here is not approval for every application. Archived guides are retained for identification and support.

Product family	Information
TECO MAXeV4 IE4 Super Premium Efficiency Electric Motor	Read enriched guide
TECO MV510 Medium Voltage	Read enriched guide
Invicta BLZ Base Mounted Vibrators	Read enriched guide
TECO MAXe3 MINING Premium Efficiency	Read enriched guide
TECO AFJE MAXe3 Mining	Read enriched guide

Industry literature

Download our cement production brochure (PDF) — 20 pages.

The brochure provides industry context and product-range information. Confirm the selected model and edition in its datasheets, drawings and operating manual before applying a rating to your installation.

Talk to our team

Tell us about your application, equipment and site requirements. Contact our Australia and New Zealand team .