

Electric Motors and Drives for Cement - TECO Electric Motors Australia and New Zealand

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

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Cement

Strengthening Cement Operations with TECO Electric Motors & Drives

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TECO's range of electric motors and variable speed drives (VSD) sets the standard for reliability in the cement industry, providing customised solutions to enhance everyday operations. Whether it's dust or heat, heavy loads, or other harsh conditions, it makes a significant difference for plant operators, engineers, and maintenance teams.

TECO offers a complete solution, including low and medium-voltage electric motors, VSDs, soft starters, vibrators, and power distribution systems. Our equipment is designed using our extensive experience and close relationships with customers in Australia and New Zealand.

High Torque Crushing Power Continuous Kiln Reliability Stable High-Torque Grinding Efficient Airflow Control Reliable Load Handling Durable Vibration Performance

Crushers utilised within cement plants demand high starting torque and thermal margin for repeated starts with loaded chambers, with risks including stalled operation, overheating, and drivetrain damage.

The TECO AFJE/AFJN low-voltage motors, paired with soft starters or A510s VSDs, deliver controlled torque ramps and distinguish genuine stalls from process overloads.

This ensures reliable, repeatable starts, reduced mechanical stress, and higher uptime in raw material processing. Local AU/NZ support helps minimise downtime in harsh, dusty environments.

Kiln drives necessitate stable torque under continuous heat and contamination, with risks including insulation breakdown, bearing failure, and costly downtimes in crucial applications.

The TECO AFJH/AFJP medium voltage motors, paired with M510 drives, TECO transformers, and TECOBAR busways, provide thermal endurance, contamination tolerance, and power stability.

Specifically designed for hash-duty operation, TECO motors enable predictable service operations. This supports continuous core production activities with fewer unplanned outages across Australian and New Zealand plants.

Ball and vertical mills are known to face torque swings, high inertia, and thermal cycling, leading to mid-run and inefficient grinding.

The TECO wound rotor or TEAAC/TEWAC medium voltage motors with MV510 drives (frozen charge detection) are designed to match load variations, ensuring low-speed stability and safe restarts.

Protection tuning supports process swings without nuisance faults. The result is steadier operation, optimised energy use, and improved throughput in demanding cement milling operations.

Induced Draft/Forced Draft fans require variable speed for stable draft control. However, they are exposed to risks such as energy waste, overheating, resonance in high-inertia systems, and unstable draft control.

The TECO MV510 medium voltage drives deliver near-sinusoidal output, paired with MAXeV4 IE4 or AFJE motors designed for full speed-range VSD duty.

Stable torque responses reduce energy consumption, eliminating spurious trips and outperforming fixed-speed throttling in cement airflow management.

Conveyors operate under frequent loaded starts in dusty environments, leading to risks such as overheating, bearing wear, and flow disruptions.

The TECO MAXe3 Mining motors, TECO AFJE/AFJN Low Voltage Electric Motors, TECO MAXeV4 IE4 Electric Motors for high run-hour auxiliaries, TECO A510s Advanced Current Vector Control VSD, and TECO Soft Starters for long or high-inertia starts without speed control.

This delivers more predictable material flow, greater process flexibility, and reduced reactive maintenance across AU/NZ cement operations.

Screening and vibrating equipment suffer rapid wear and unstable flow due to dust exposure in fines handling.

The TECO Invicta BLz base-mounted vibrators use thrust roller bearings for feeders, screens, and chutes, with vibration force matched to each application.

Certified for combustible dust environments, they maintain consistent throughput. This reduces interruptions and mounting fatigue in hazardous cement material handling areas.

Efficiency in Grain Handling with TECO

Cement production operates in harsh conditions where dust, thermal overload, and equipment trips pose excessive challenges. Conventional systems can lead to unexpected downtimes, accelerated wear and tear from high-inertia loads, and reduced throughput across applications such as crushers, kilns, and mills.

TECO's range of electric motors and VSDs is designed to optimise performance under such conditions. By effectively managing dust, heat, and variable loads, they improve reliability and minimise energy consumption/waste.

TECO Australia & New Zealand provides IP66-rated, ATEX-certified motors and drives, backed by local suppliers. Paired with TECO VSDs and soft starters, these solutions support more efficient plant operation.

Cement Solutions For You TECO MAXeV4 IE4 Super Premium Efficiency Electric Motor PAY CALCULATOR WATCH VIDEO Calculate Your Savings and Payback Period Ready to Secure Your Savings? The data speaks for itself. To get a precise quote on the TECO VIEW MORE TECO MV510 Medium Voltage Optimised for Efficiency and Reliability Designed for a range of applications including Oil & Gas, and Power Generation, TECO MV510 stands out with its multilevel H-Bridge topology, ensuring ultra-low harmonic VIEW MORE Invicta BLZ Base Mounted Vibrators TECO cutting-edge electric rotary vibrators is designed to deliver exceptional performance across various industries. With adjustable out-of-balance weights at both ends, our vibrators provide precise control over vibrations, allowing you VIEW MORE TECO MAXe3 MINING Premium Efficiency Premium Efficiency Electric Motors specifically designed to meet the rigorous demands of the Mining industry. With True IP66 protection rating and Class H insulation system, TECO MAXe3 Mining Electric Motor VIEW MORE TECO AFJE MAXe3 Mining The TECO AFJE Electric Motor, made of cast iron, is engineered to meet or surpass the IEC60034 Minimum High Efficiency Performance Standard. This motor can deliver power ranging from 150 VIEW MORE Read Our Brochure More Cement Solutions Medium and High Voltage Motors Drives and Automation Equipment Soft Starters Explore Our Reliable Power Solutions Energy Solutions ENERGY SOLUTIONS Book a Consultation Have questions or need assistance? Reach out to us through the contact form, and we'll be happy to assist you.

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