

# Optimising Pharmaceutical Processes with TECO Electric Motors

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## TECO Electric Motors and Variable Speed Drives for the Pharmaceutical Industry

Optimizing Pharmaceutical Processes with TECO Electric Motors & Variable Speed Drives

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In the highly-regulated landscape of pharmaceutical manufacturing, precision and efficiency are not just goals; they are imperative. TECO Electric Motors and Variable Speed Drives emerge as indispensable solutions, strategically addressing critical pain points within the industry.

Maintenance planning, temperature and wash down requirements, high speed production with precision levels as yet unmatched across general industry can all be addressed with a well thought out and executed product plan. Upgrades are possible as either planned and managed across a line or even a site. The other way is to replace with robust, higher efficiency products as existing units fail or are needed.

Mixing and Blending Conveyor Systems HVAC Systems for Clean Rooms Pumping Systems

Pharmaceutical manufacturers often grapple with the challenge of achieving consistent mixing and blending. The repercussions of irregularities in dosage and composition can be severe, impacting product quality and regulatory compliance.

TECO Variable Speed Drives empower manufacturers with precise control over mixing and blending processes. By fine-tuning speed and torque, our drives ensure uniformity, minimising the risk of inconsistencies. TECO Electric Motors provide the necessary power for a reliable and seamless blending experience, helping pharmaceutical companies meet stringent quality standards.

With a range of Drives suited to harsh environments, including IP 66 models, TECO has a motor and drive solution that will withstand the rigours of cleaning regimes, chemicals and dust. TECO stock motors with Class H Insulation are suited to continual high temperature operations, boast a 1.2 service factor and have a patented greasing system that almost guarantees units cannot be over greased. The TECO systems also makes it obvious when the motor is sufficiently lubricated.

Maintenance is a huge cost for any modern plant and TECO ensure with Asset monitoring equipment, rugged and reliable motors and variable speed drives that our products will become the favourite of your maintenance team and the asset owners.

Efficient material flow is the lifeblood of pharmaceutical production. Conveyor systems, when plagued by breakdowns, inefficiencies, and frequent maintenance needs, disrupt this flow, leading to operational bottlenecks and increased costs.

TECO Electric Motors are engineered for reliability, reducing the frequency of breakdowns and the need for extensive maintenance. Our Variable Speed Drives optimise conveyor speed, ensuring a smooth and continuous material flow. TECO approach minimises downtime, allowing pharmaceutical

manufacturers to focus on what matters most – seamless production.

Conveyors are found all across pharmaceutical plants as well as in material crushers and screens. Our Electric Motors when paired with TECO Variable Speed Drives, ensure precise control over conveyor speed, accurate positioning, and controlled material handling during loading and unloading operations. We also have a very high quality range of vibrating motors, hydraulic, air or electrically driven, perfect for keeping lines moving, ensuring storage bins are emptied and preventing production delays from product becoming stuck.

TECO's solutions adapt to varying material characteristics, withstand harsh environments, and optimize processes for energy efficiency. The design facilitates easy maintenance, ensuring the reliability of your material handling system.

Maintaining precise environmental conditions in clean rooms is paramount in pharmaceutical production. Fluctuations in temperature and humidity levels pose a constant challenge, compromising the integrity of sensitive processes.

By seamlessly controlling temperature and humidity levels, our Electric Motors contribute to the creation and maintenance of the ideal clean room environment. TECO Variable Speed Drives – including a unit designed specifically for HVAC applications – enable real-time adjustments and carry all the expected features such as “run to destruction” for fan safety during emergencies, BACNet control and simple, reliable and easy to program screens or remote access options.

Risks associated with fine dust and potential ignition are resolved easily with the TECO range of Explosion and Dust proof motors, all available locally from within our network. TECO produces and upgrades Ex motors to international standard within Australia ensuring lead times and service are of the highest standards.

Pharmaceutical companies can uphold stringent environmental standards and meet regulatory requirements for Ventilation, Heating and Cooling as well as humidity control when using TECO equipment. Our range includes a full suite of product options available throughout Australia and New Zealand from our branch network.

The handling of pharmaceutical liquids demands a high degree of precision. Inefficient pumping systems often lead to wastage, compromised product quality, and increased operational costs.

TECO Electric Motors, drive pumping systems with unmatched efficiency. By leveraging TECO Variable Speed Drives, manufacturers gain precise control over the pumping process, reducing energy consumption and ensuring optimal liquid handling. TECO's solution not only enhances efficiency but also contributes to cost savings and sustainability in pharmaceutical operations.

TECO's energy efficient motors are designed for optimum performance in pumping applications, while variable speed control ensures precise adjustments to match varying demands.

TECO's offers world leading solutions for pump applications, where our Low to Medium Voltage Motors drive water pumps for drainage or washing, handle abrasive slurry, extract condensate and even pump oil and greases with ease. Paired with Variable Speed Drives, all TECO motors provide precise control, adapting seamlessly to variable flow and pressure requirements. The robust design withstands abrasive environments and minimizes the risks of cavitation, contributing to efficient and reliable pumping systems.

TECO also offer a complete solution in Explosive proof motors and with our local Modification capability, can quickly assemble the correctly rated motor for your specific application. With Motors and drives rated to IP 66, TECO can offer a solution you know will perform for many years in almost any situation.

Pharmaceutical 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 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

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