TECO

together, we empower the Future

Solutions

for the Sugar Industry



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Rotating the World Sustainably and Reliably with TECO's Industrial Solutions.

GLOBAL EXPERTISE WITH LOCAL SUPPORT

Operating in over **30 countries** across all five continents.

VAST STOCK AVAILABILITY

Large stock range across Australia & New Zealand.

LOCAL IN-HOUSE WORKSHOP

Full range of mechanical and electrical modifications ensuring adherence to TECO's stringent QAs procedures and relevant standards.

TECO is a global leader specialising in manufacturing and distribution of industrial Electric Motors and Variable Speed Drives.

Our extensive product range includes high-quality Low & Medium Voltage Motors from fractional kW to 22,000 kW for supplies up to 14,200 Volts, energy-efficient Variable Speed Drives and reliable automation equipment.

Our commitment to excellence is evident in our longstanding ISO 9001 and ISO 14001 certifications. Furthermore, our recent acquisition of the EPACT Energy Efficiency Certificate solidifies our position as an exemplary player in the global marketplace.

TECO's commitment to technological advancement and sustainable practice has earned a reputation for delivering superior products and exceptional customer service.

With TECO, you can trust in industry-leading performance, reliability, and a commitment to sustainable practices.



Powering Sustainable Innovation in the Sugar Industry

The sugar industry plays a pivotal role in the global economy, consuming a significant amount of energy in the production process. Recognising this, the industry is at the forefront of adopting sustainable practices, spearheading the transition towards a technological advancement. This commitment to reducing consumption and safeguarding our environment, positions the sugar industry as a leader in sustainable industrial practices.

TECO Global Mission: Efficiency, Sustainability, Excellence

TECO Electric Motors and Variable Speed Drives are revolutionising the sugar industry by setting new benchmarks for efficiency, sustainability, and cost-effectiveness. Our high-efficiency motors and drives are designed to empower sugar manufacturers with unparalleled precision, torque, and speed control, ensuring optimal yield extraction and significantly reducing energy costs.

TECO Electric Motors are engineered with environmentally friendly materials, ensuring compliance with international regulations and reducing the environmental impact associated with their production and disposal.

TECO's Variable Speed Drives can lead to a substantial reduction in energy consumption alongside notable decreases in carbon emissions, exemplifying our commitment to a cleaner, more sustainable planet.



TECO Solutions
Leading Innovations for the Sugar Industry

Reliable Conveyors: Smooth Transport for Better Output

TECO Electric Motors and Variable Speed Drives ensure reliable and efficient sugar production conveyance, with IP66 and class H ratings for seamless operations and minimal downtime.

Cane preparation

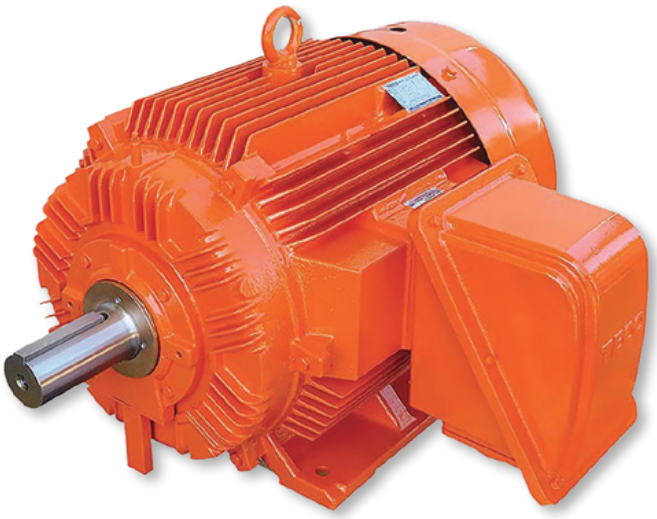
TECO's high efficiency electric motors provide reliable power to cane preparation equipment such as shredders and crushers. Their efficiency and robust design ensure consistent performance and contribute to increased throughput, minimising downtime, and boosting productivity.

Precise Milling: Achieving the Perfect Granule Size

TECO offers Electric Motors and Variable Speed Drives for precise sugar milling, ensuring consistent granule size. Our extensive range of motors, spanning from small single-phase to high voltage options, includes models suited for explosive or dust ignition environments, ensuring consistent achievement across the production process.

Efficient Pumping Systems

TECO's energy-efficient Electric Motors and Variable Speed Drives optimise pumping in the sugar industry, with our energy-efficient Electric Motors and intelligent Variable Speed Drives. Designed for optimum performance in pumping applications, our solutions offer precise adjustments to match varying demands, keeping energy costs in check.





TECO MAXe3 Mining

3-Phase Squirrel Cage Motor

0.18kW to 450kW

Unmatched Safety & Protection

With a Totally Enclosed Fan Cooled design and an Ingress Protection Rating of IP66, TECO MAXe3 Electric Motors ensure the utmost safeguarding of your equipment, even in the most challenging environments.

Unmatched ROI

TECO MAXe3 Mining Electric Motors deliver the industry's best payback periods and boast the lowest total cost of ownership. Designed for exceptional efficiency, they optimise energy utilisation, resulting in significant savings throughout the motor's lifespan, saving cost day by day.

Unmatched Durability

TECO MAXe3 Mining Electric Motors are engineered to withstand the most demanding environments, delivering reliable and efficient operation for many years.

- Precision and Rugged Cast Iron Construction
- Class F/H insulation systems rated up to 180°C
- Typical temperature rise less than Class E which is limited to 75°C
- Up to 1.2 service factor 40°C ambient
- Suitable for 60°C ambient at full rated output with no de-rating
- IP66 Protection with sintered bronze porous drain plugs
- Cast Iron Cooling Fans D160 and above
- TECO renowned grease relief purging system
- Two sets of thermistors D160 frame and larger
- IECEX Certified Ex e, Ex nA, Ex tD/tb ready to order
- TECO Mining Specification as standard
- X15 Orange paint finish.



"TECO MAXe3 Mining Electric Motors are engineered to withstand the most demanding environments, delivering reliable and efficient operation for many years."



"By reducing energy waste and optimising power utilisation, TECO AFJH/ AFJP Electric Motors significantly lower operational costs, leading to substantial savings for customer production."

TECO AFJH/AFJP Squirrel Cage

Unmatched Power Density and Efficiency Advancements

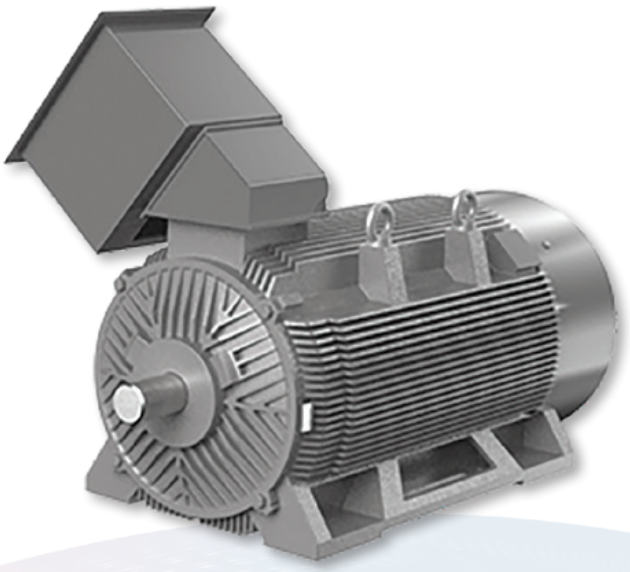
With an astounding improvement of up to 35% in power density, these motors deliver a substantial increase in power within a remarkably compact size.

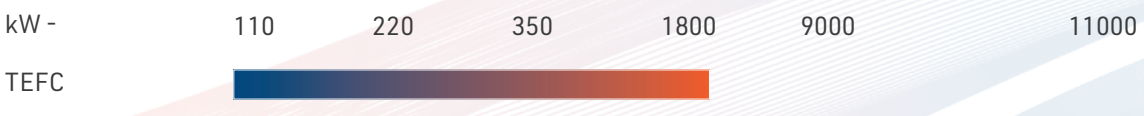
This breakthrough allows for optimal space utilisation and streamlines installation processes. Through meticulous material optimisation, we have achieved a remarkable 20% weight reduction, all while maintaining impeccable structural integrity. This breakthrough not only enhances efficiency but also drives operational performance to new heights.

By reducing energy waste and optimising power utilisation, TECO AFJH/AFJP Electric Motors significantly lower operational costs, leading to substantial savings for customer production. Additionally, our motors feature a carefully optimised thermal system, enabling a reduction in frame size without compromising performance. This compact design ensures efficient space utilisation and allows for seamless integration into various applications.

- Vertical and horizontal configuration
- Cast iron frame
- Oversized anti-friction or sleeve bearings
- Large oversized steel fabricated terminal box relocatable to the opposite site
- Bespoke design & drop-in replacement replacements are available
- Safe area & Hazardous area applications
- Voltages up to 11,000V.

- Totally enclosed fan cooled (TEFC) design ensures optimal protection from external elements, enhancing motor longevity and reliability.
- Versatile vertical and horizontal configuration options provide flexibility for various installation requirements.
- The robust cast iron frame guarantees durability and strength, ensuring reliable performance even in demanding environments.
- Choose between anti-friction or sleeve bearings, allowing customisation based on specific application needs.
- The oversized steel fabricated terminal box provides a sturdy and secure enclosure for electrical connections, ensuring safety and convenience.
- Our motors are designed to be bespoke and drop-in replacements, offering seamless integration into existing systems with minimal modifications required.
- Suitable for both safe and hazardous areas, TECO AFJH/AFJP Electric Motors meet stringent safety standards and provide peace of mind in any operating environment.





TECO Squirrel Cage TEAAC

Designed for Unparalleled Performance and Reliability

TECO Squirrel Cage Electric Motor - TEAAC will revolutionise industrial operations.

With its features and advanced technology, TECO Squirrel Cage Electric Motor - TEAAC sets new standard in power, efficiency, and durability.

Its robust construction ensures optimal performance and extended lifespan, protecting internal components from dust, dirt, and moisture even in the harshest operating conditions.

No matter how harsh the operating conditions, our electric motor design guarantees uninterrupted operation, minimising downtime and maintenance costs.

TECO Squirrel Cage Electric Motor - TEAAC is rigorously tested to meet stringent safety standards, making it suitable for both safe and hazardous areas.

With advanced protective measures, reliable insulation, and robust enclosures, our motor ensures the well-being of your workforce while complying with industry regulations.



Vertical and horizontal configuration options

Providing versatile adaptability to suit specific installation requirements. Our motor integrates seamlessly into your current industrial setup, ensuring a hassle-free installation process.

Heavy Duty Steel Fabricated Frame

Guarantees exceptional durability and structural integrity. This robust construction ensures reliable performance even under demanding conditions, providing a motor that can withstand the rigors of industrial applications.

Oversized Anti- friction or Sleeve Bearings

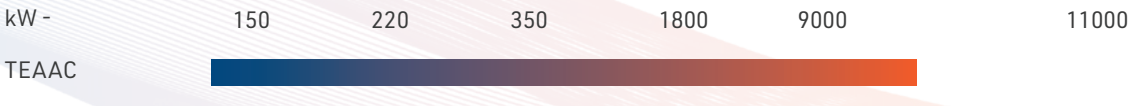
Allowing for enhanced efficiency and reliability. These bearings are designed to handle heavy loads and minimise friction losses, resulting in smoother operation and reduced energy consumption.

Bespoke Design & Drop-In Replacements

Tailor the motor's dimensions, voltage, and other specifications to meet specific requirements. Additionally, our motor is designed as a drop-in replacement for existing installations, minimising downtime and installation costs.

Air Cooled/Water Cooled with option for forced ventilation

Allowing customers to choose the optimal temperature control method for their application. With efficient cooling mechanisms in place, our motor ensures that internal components operate within their designated temperature range, maximising performance and reliability.





"No matter how harsh the operating conditions, our electric motor design guarantees uninterrupted operation, minimising downtime and maintenance costs."



"Engineered to withstand the most demanding operating conditions, this robust construction ensures reliable performance and exceptional heat dissipation, resulting in long-lasting durability and uninterrupted productivity."

TECO Wound Rotor

Designed for unparalleled performance

TECO Wound Rotor - TEAAC is a game-changer, combining exceptional versatility and power to improve customer industrial operations.

Its unique vertical or horizontal configurations simplify the installation process, seamlessly integrating TECO motors into the current setup, minimising downtime, and boosting productivity from the moment of installation.

With the steel fabricated frame, TECO Wound Rotor Induction Motor - TEAAC guarantees unmatched strength and durability.

Engineered to withstand the most demanding operating conditions, this robust construction ensures reliable performance and exceptional heat dissipation, resulting in long-lasting durability and uninterrupted productivity.

- Fixed or brush lifting options
- Vertical and horizontal configuration
- Steel fabricated frame
- Oversized Anti-friction or Sleeve bearings
- Steel fabricated terminal box
- Bespoke design & drop-in replacement available
- Voltages up to 13,800V
- Air Cooled Design
- Water Cooled Design

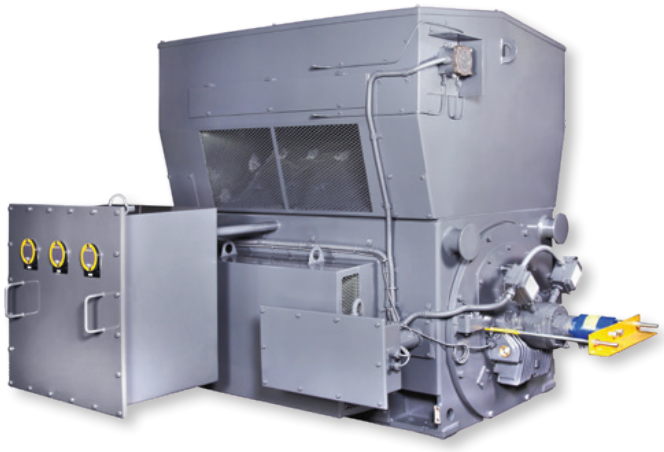
Reliability and efficiency are at the core of our motor's design, thanks to the oversized antifriction or sleeve bearings that minimise friction and maximise energy conservation.

The motor's secure and corrosion-resistant steel fabricated terminal box, ensures smooth and safe operation throughout your industrial environment.

TECO Wound Rotor Induction Motor - TEAAC offers bespoke design capabilities, allowing customers to tailor the motor's dimensions, voltage specifications, and other critical aspects to perfectly suit their needs.

TECO Wound Rotor Motors can be designed as a drop-in replacement, facilitating integration into your existing setup, minimising installation costs, and operational disruptions.

With voltage capabilities reaching up to 13,800V, our motor's high-powered performance empowers customers to tackle even the most demanding applications with ease.





TECO Low Voltage Variable Speed Drives





TECO supplies a extensive range of low and medium voltage motor control solutions designed to optimise performance and energy efficiency.

Backed by advanced technology and local stock across Australia and New Zealand, we also offer DOL starters, star-delta starters, contactors, overload protection devices, and related accessories.

A510s – Premium Advanced Current Vector Control

- 380-480V 3Ph - 0.75-45kW (IP20) 55-315kW (IP00 / IP20 Optional)
- Dual ratings for Normal & Heavy-Duty Applications
- 12 Digital I/O & 4 Analog I/O
- 7 Motor Control Modes incl. Open & Closed Loop Vector Control
- 200% / 0.5 Hz Starting Torque
- Overloads HD: 150% /1 min, 200% / 2sec & ND: 120% / 1min
- Braking Options Available (Internal & External)
- Built-in Comms – Modbus - Optional: Profibus DP, TCP-IP, DeviceNet, CANopen, Ethernet / IP, EtherCAT
- STO Functions Built-in
- Built-in RTC & Simple PLC Functionality
- High Speed Dual Core Processor – 4 Quadrant Control suited to Elevator & Crane Control
- Comprehensive range of Options & Accessories

E510s - General Current Vector Control

- 200-240V 1Ph / 3Ph – 0.37-2.2kW (IP20 / IP66) & 380-480V 3 Ph - 0.75-55kW (IP20)
- 0.75-11kW (IP66)
- Dual Ratings from 22kW and above, for Normal & Heavy-Duty Applications
- 8 Digital I/O & 3 Analog I/O
- 3 Motor Control Modes incl. V/F & Open Loop Vector Control
- 150% / 1.0 Hz Starting Torque (SLV)
- Overloads HD: 150% /1 min, 200% / 2sec & ND: 120% / 1min
- Braking Options Available (Internal & External)
- Built-in Comms – Modbus / BACnet - Optional: Profibus DP, TCP-IP, DeviceNet, CANopen,
- Ethernet / IP
- STO Functions Built-in
- Advanced Auto-tuning modes.
- Exclusive Soft PWM Control resulting in Reduced Motor Noise



F510 – Advanced Pump and Fan Control

- 380-480V 3 Ph - 0.75-45kW (IP55) 55-600kW (IP00 / IP20 Optional)
- Single Rating for Normal Duty Applications
- 9 Digital I/O & 4 Analog I/O
- 3 Motor Control Modes incl. V/F & Open Loop Vector Control
- 150% / 0.5 Hz Starting Torque (SLV)
- Overload ND: 120% / 1min
- Braking Options Available (Internal Only)
- Built-in Comms – Modbus / BACnet / Metasys - Optional: Profibus DP, TCP-IP, DeviceNet, CANopen, Ethernet / IP, EtherCAT
- STO Functions Built-in
- Pump Cascade Control - 4 Motors as Standard up to 8 Motors with Option Card
- Specialised Pump Control Functions – Dry Pump, Blockage Detection & Sleep Mode
- Building Services Control – Fire Override Mode



E710 – Next Gen Compact Current Vector Control

- 200-240V 1Ph / 3Ph – 0.37-2.2kW (IP20) & 380-480V 3 Ph - 0.75-7.5kW (IP20)
- Single Rating for Heavy-Duty Applications
- 9 Digital I/O & 4 Analog I/O
- 7 Motor Control Modes incl. Open & Closed Loop Vector Control
- 150% / 0.5 Hz Starting Torque (SLV)
- Overloads HD: 150% /1 min
- Braking Options Available (Internal Only)
- Built-in Comms – Modbus - Optional: Profibus DP, TCP-IP, DeviceNet,
- CANopen, Ethernet / IP, EtherCAT
- STO Functions Built-in
- Predictive Diagnosis – monitors key component deterioration status (pre-failure advice)
- Compact Design & Side-by-side installation reducing installation footprint



L510s – Compact Basic Vector Control

- 200-240V 1Ph / 3Ph – 0.2-2.2kW (IP20) & 380-480V 3 Ph - 0.75-2.2kW (IP20)
- Single Rating for Heavy-Duty Applications
- 6 Digital I/O & 3 Analog I/O
- 2 Motor Control Modes incl. V/F & Open Loop Vector Control
- 150% / 3.0 Hz Starting Torque (SLV)
- Overload HD: 150% /1 min
- Braking Options Available (Internal Only)
- Built-in Comms – Modbus / BACnet - Optional: Profibus DP, TCP-IP, DeviceNet,
- CANopen, Ethernet / IP
- Small yet Powerful design well suited to Stand-alone installations

TECO
Soft Starters

Precision-Engineered Solutions for Efficient, Protected Operation

Controls the starting and stopping of Electric Squirrel Cage Induction Motors (SCIM's) for Low Voltage Industrial Applications.

Purpose-built for non-VSD applications, TECO Soft Starters apply leading edge smart control technologies in the managed acceleration and deceleration of your SCIM's, they not only provide the desired starting and stopping functionality, but they also protect your equipment and process by controlling inrush, reducing mechanical shock, and stabilising plant operation.





TECO Soft-starters - Suitable for nearly every Non-VSD Application

- 200 -575 V / 380-690 V / 960-1320 V / 2.3-13.8kV / 18-1700A Std incl. 202-1092A at 1000V
- Control Voltages: RSXi - 110~240VAC or 380~440VAC, TSXi - 110~120VAC or 220~240VAC , Option 24VAC/24VDC
- 2 / 3 Phase Control Designs to suit both Budget & Application Requirements
- Flexible connection: in-line and inside-delta (model dependent)
- Digital & Analog I/O standard; Fieldbus/Ethernet options incl. Comms Cards with Ground Fault Detection built in.
- Vast Range of Accessories for Safety & Control
- Fast commissioning via local or remote HMI with intuitive smart parameters
- Built-in diagnostics with logs and live data feedback
- Controlled Start / Stop with current limit, adjustable Acceleration / Deceleration Characteristics and kickstart, along with a Complete Range of Adjustable Motor Protection Features
- Designs with built-in or external bypass to Reduced Heat Losses and Electrical Interference
- Soft Stop for pumps & long conveyors, which reduces mechanical stresses
- Other Sizes & Custom Designs Available on Request with fast turn-around times.

TECO Transformers

Engineered transformer options and project delivery scope

For cement upgrades and expansions, transformer selection and delivery scope directly affect outage duration and commissioning risk.

TECO's Energy Solutions portfolio covers dry type transformers up to 10MVA / 33kV, oil type FM-rated transformers up to 10MVA / 36kV, and distribution transformers up to 20MVA / 33kV.

Where required, TECO supports projects through technical coordination across motors, drives and transformers, helping reduce interface risk across the system.

Best fit in cement: substation upgrades, new feeders for large motors/drives, and plant expansions where coordinated delivery supports faster, lower-risk commissioning



Dry Type
Up To 10MVA 33kV



Oil Type Fm Rated (Fire)
Up To 10MVA 36kV



Distribution Type
Up to 20MVA 33KV

TECOBAR® Busway Systems

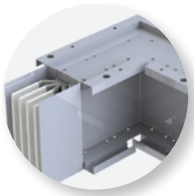
Low and medium voltage distribution for cement sites

Cement plants need electrical power distribution systems that are maintenance-free and protected against dust ingress, maintaining performance under vibration and constrained access conditions.

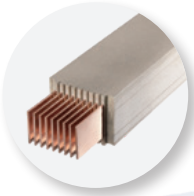
TECOBAR® busway systems provide a compact alternative to traditional cabling for LV and MV power distribution, designed to minimise intervention and simplify upgrades and tie-ins.

Key specifications across the TECOBAR range include IP68 ingress protection, IK10 mechanical impact rating, and fire testing to IEC 60331 and BS 6387. LV configurations are available up to 1000 V and MV configurations up to 24kV.

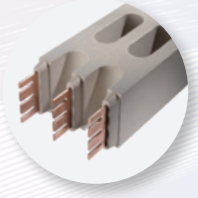
Best fit in cement: switchrooms, major drive feeders and plant expansions where sealed distribution and simpler maintenance reduce outage exposure.



Sandwich Busway



Low Voltage Cast Resin Busway



Medium voltage Cast Resin Busway

TECO Medium Voltage Speed Drives MV510

Designed to revolutionise motor control across diverse industries, the TECO MV510 Medium Voltage Drive is your ultimate MV motor starting and speed control solution.



With its cutting-edge technology and versatile features, the TECO MV510 ensures reliable motor control for a wide range of applications, from Water and Waste Water, Oil & Gas to Utility/Power Generation and Metals and Mining.

TECO MV510 is designed utilising a multilevel H-Bridge topology that reduces harmonic levels to extremely low levels. The modular design facilitates ease of installation, commissioning and maintenance.





Simplified Installation

The TECO MV510 Medium Voltage Drive has a modular design, enabling quick and easy installation, commissioning, and maintenance.

Exceptional Servicability

The MV510's modular architecture is built around low-voltage (690 V) power cells, enabling fast, safe, and straightforward maintenance. Individual power cells can be replaced without high-voltage clearances or specialised handling procedures.

Optimised Spare Parts

The MV510 uses universal, interchangeable power cells and components across all voltage and power ratings. A single spare parts inventory can support multiple drives, reducing capital tied up in spares and simplifying inventory management.

Advanced Harmonic Performance & Motor Compatibility

The MV510's multilevel H-bridge topology delivers near-sinusoidal output voltage and current, significantly reducing motor harmonics and torque pulsation even at low speeds.

Ultra-low line-side harmonics ensure full compatibility with both new and existing motors, with no external filters required. The MV510 exceeds IEEE-519 harmonic limits and imposes virtually no restriction on motor cable length.

Efficiency in Multiple Motor Control

The TECO MV510 is capable of controlling multiple motors with ease. Start multiple motors and seamlessly transfer them synchronously to utility lines and back to the drive, all with a single drive and bypass cabinet.

Seamless Communication

The MV510 supports the industry-standard communication protocols such as Modbus, Profinet and Ethernet, allowing seamless integration with various SCADA or DCS systems.

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HEAD OFFICE AUSTRALIA

TECO Australia Pty Limited
335-337 Woodpark Road,
Smithfield NSW 2164

P: +61 2 9765 8118
F: +61 2 9765 8185

E: sales.nsw@teco.com.au
W: www.teco.com.au

VIC/TAS

TECO Australia Pty Limited
16 Longstaff Road,Bayswater
VIC 3153

P: +61 3 9720 4411
E: vicsales@teco.com.au

SA/NT

TECO Australia Pty Limited

M: +61 423 480 965
P: +61 3 9720 4411
E: vicsales@teco.com.au

NEW ZEALAND

TECO New Zealand Ltd
11 Container Drive, Rolleston,
Canterbury 7614

P: + 64 3 271 8480
E: sales@teco.co.nz

WA

TECO Australia Pty Limited
18 Hazelhurst Street,Kewdale
WA 6105

P: + 61 8 9479 4879
E: sales.wa@teco.com.au

QLD

TECO Australia Pty Limited
50 Murdoch Circuit, Acacia Ridge
QLD 4110

P: + 61 7 3373 9600
E: sales.qld@teco.com.au

NEW ZEALAND

TECO New Zealand Ltd
4 Autumn Place, Penrose,
Auckland 1061

P: + 64 9 526 8480
E: sales@teco.co.nz

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