Hiko®
Power Engineering

Winter 2025

CONGRATULATIONS

GEOFFREY 20 YEARS WITH HIKO

NEWS

Announcing our new partnership with Sieyuan

Bowthorpe® Sieyuan EFEN GRIDKEY Langmatz

PFISTERER POLARIS Lucy Electric NKT insulect VERSATILITY VIA COLLABORATION

Providing quality connection solutions alongside these leading global brands.

Powering the Future of Electrical Innovation -

Hiko Power Engineering is pleased to announce its partnership with Insulect Australia and the Sieyuan Electric Co. Ltd.

Supplying CTs and CVTs to 220KV, along with the wider portfolio. Sieyuan is a globally recognised leader in designing, developing, and manufacturing high-quality power transmission and distribution equipment.

The company's extensive product portfolio includes switchgear, transformers, circuit breakers, reactors, and other essential components that enable efficient and reliable energy transmission. With a strong focus on research and development, Sieyuan integrates cutting-edge technology into every product, ensuring high performance, durability, and compliance with international standards.

Sieyuan's commitment to quality and customer satisfaction has earned it a trusted reputation among energy providers and utilities worldwide. The company combines technical expertise with a deep understanding of industry challenges to deliver customised solutions that enhance operational efficiency and system reliability.

Driven by a vision for sustainable energy, Sieyuan prioritises eco-friendly practices and innovative designs that support the global transition to greener power grids.

Faster lead times, stronger networks. At Hiko, our suppliers' Asia-Pacific based factories can often deliver the products you need faster. **Less waiting, more powering New Zealand.**

Hiko® Power Engineering

Celebrating **20 years** with Hiko

At Hiko Power Engineering, we proudly carry forward decades of innovation and reliability in New Zealand's power infrastructure. From our beginnings to today's industry leadership, our mission remains clear — deliver robust, high-quality solutions to support Aotearoa's electrical systems.

Retaining industry knowledge has been key to our success and in 2025 we celebrate the enduring leadership of our General Manager, Geoffrey Sullivan, who has been a great asset to the Hamer companies for 20 years, bringing enthusiasm and talent to managing the Hamer and Hiko companies.

— Martin Hamer, Board Chair

Hiko Circuit Breaker Frames

In the demanding landscape of New Zealand's electrical utilities sector, managing complex transformer connections, ensuring reliable circuit protection, and maintaining rapid installation times are critical challenges.

To overcome these operational pain points, our Hiko Circuit Breaker Frames are engineered to provide reliable, targeted solutions for both utility and industrial networks.

The Universal Tank Mount Frame (UTMF) was designed to simplify circuit protection while accommodating a variety of transformer sizes and configurations. Whether dealing with single supply systems or higher-capacity transformers, these frames offer durable, modular solutions that integrate seamlessly with MV switchgear.

How Hiko Circuit Breaker Frames Address Common Challenges

Rapid Installation and Standardisation

Modular frame designs, pre-configured for fast, error-free installation, reduce site downtime and eliminate the need for complex custom builds.

Enhanced Circuit Protection

Integrates seamlessly with EFEN fuse-switch disconnects and circuit breakers, ensuring optimal protection and safe operation in high-demand electrical networks.

Inventory Efficiency

Universal mounting options mean fewer SKUs to stock, reducing procurement costs and simplifying asset management.

Built for NZ Conditions

Constructed to withstand New Zealand's harsh weather and environmental conditions, these frames offer robust UV, corrosion, and impact resistance, ensuring long-term reliability.

Incomer Circuit Breaker with 2 Feeder Circuits Breaker Frame

1MVA Motorised Circuit Breaker LV Frame with Bus Coupler

We know the challenges faced by utilities across New Zealand, and we're here to deliver practical, reliable solutions. To learn more about how our Hiko Circuit Breaker Frames can streamline your transformer installations, visit **hikopower.co.nz**

NKT CPI Inner Cone Connectors

In the demanding world of medium voltage (MV) networks, complex switchgear connections, tight installation spaces, and high maintenance costs are all too common.

We understand these challenges, so have sought the very best and proven solution for you with the NKT CPI Inner Cone Connector.

Engineered by NKT – a leader in cable technology with over 50 years of expertise – these connectors are specifically designed to simplify and secure MV connections in the New Zealand utilities market. Built to EN 50180/50181 standards for Sizes 2 and 3, CPI connectors excel in 11-33kV applications, delivering reliable, low-maintenance performance even in the most demanding conditions.

How CPI Connectors Solve Your Challenges

Seamless Installations

Tired of complex terminations? CPI's multi-range stress cones and shear-bolt connectors simplify the process, reducing the need for specialised tools and precise tolerances.

Inventory Optimisation

Managing multiple SKUs for different cable sizes? CPI connectors cover a wide range of cable cross-sections, consolidating your inventory and easing procurement.

Maintenance-Free Reliability

High-grade silicone rubber construction ensures UV, ozone, and heat resistance, delivering a maintenance-free solution that stands up to New Zealand's tough weather conditions.

Trusted Performance

With robust corona resistance and superior insulation properties, CPI connectors are a trusted choice for secure, long-term MV connections.

MT Eden TSC 48kV 300 Cu MTe-13

> NKT CPI Inner Cone Connectors are designed for use with medium voltage switchgear, RMUs (Ring Main Units), and transformers that are equipped with inner cone bushings. These connectors are commonly used in systems where compact, screened, and reliable cable terminations are required, especially in urban substations and industrial installations.

Mike Scott,
Hiko Power Engineering,
South Island Account Manager

NKT Renewables Cable Accessories

As New Zealand accelerates its shift to renewable energy, the need for robust, reliable electrical connections in solar farm infrastructure has never been greater.

Proven in solar farms across Europe and now available for the New Zealand market, the CB 72 Branch Connector is engineered for 72.5 kV connections between XLPE- or EPR-insulated cables and GIS or transformer bushings (outer cone type F). It's ideally suited for the parallel cable configurations typical of large-scale solar farms.

The NKT CB 72 Branch Connector is a premium product solution designed specifically for high-voltage, renewable applications and a product we are proud to offer to the market.

Future-proof your solar network with proven European technology, backed by local expertise.

Solving Real-World Solar Challenges

High Reliability in Harsh Conditions

Made from durable silicone rubber and tested to IEC 60840 and EN 50673 standards, it's built to perform in New Zealand's wide-ranging climates.

Overvoltage Protection

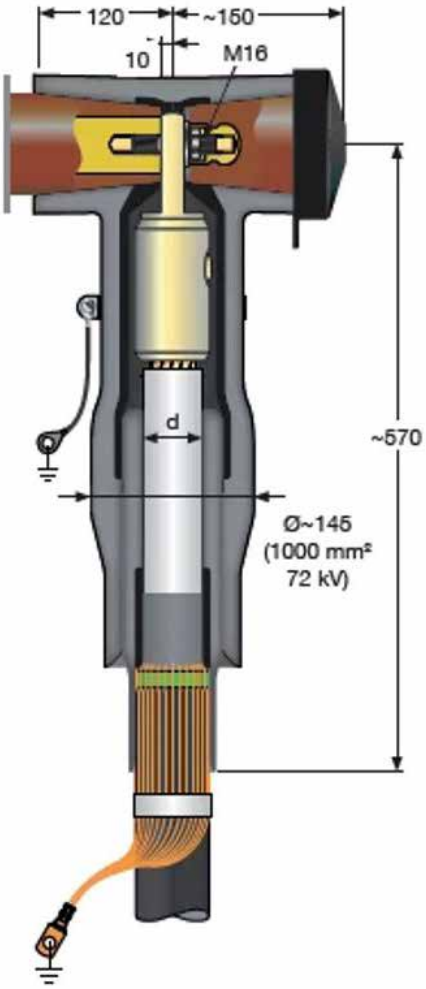
Compatible with surge arrester coupling for safeguarding transformers and switchgear against voltage transients—a key risk in solar farms exposed to lightning and grid fluctuations.

Simplified Installations

The pre-moulded geometric field control element ensures consistent performance without the need for tuning to harmonic or system frequency, reducing risk and install time.

Scalable Design

Easily integrates with coupling connectors for multi-cable phase configurations, streamlining complex solar layouts.



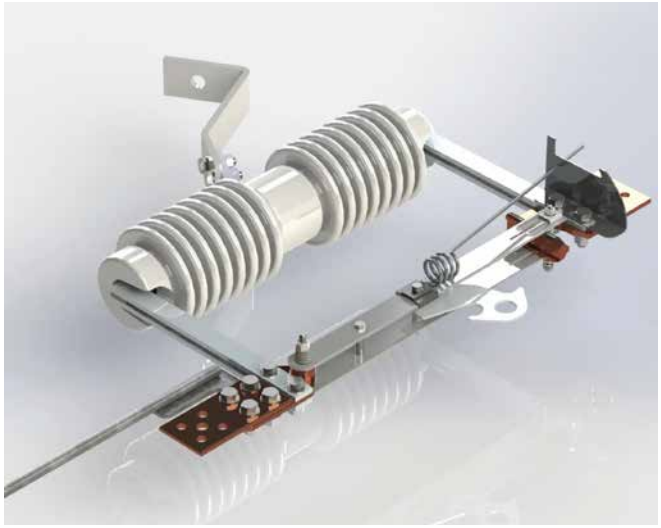
NKT CB72 Branch Connector

Insulect HV Isolating Links

As demands grow on New Zealand's electrical networks, substation design and functionality must be both flexible and future-ready.

That's why Hiko Power Engineering includes the Insulect HV Isolating Links in its suite of high-voltage substation solutions—providing a simple, robust answer to safe disconnection and fault isolation across a wide range of voltage levels.

Designed and tested in Australia to AS/IEC 62271.102 standards, these links are trusted by utilities for use across distribution networks and substations from 12kV to 72.5kV, with current ratings up to 1600A. Whether integrated into compact rural substations or large-scale switchyards, they provide a dependable, visible break between HV apparatus—critical for safe maintenance and system upgrades.



Single Phase HV Islolating Link

Addressing Key Industry Challenges

Enhanced Safety and Isolation

Offers a clear, physical break in the system—improving operator confidence during switching and maintenance.

Flexible Configuratio

Mountable vertically, underslung, or at 30 degrees to suit site layouts, retrofits, or new designs.

Load Break Capability

Optional 630A load-breaking attachments enable operation under load without requiring additional switchgear.

Durability and Customisation

Available with porcelain, silicon, or cycloaliphatic insulators and options like flicker blades, fuse holders, and earthing stirrups to suit diverse network conditions.

As part of Hiko's broader substation hardware portfolio — including air break switches, ring main units and more — the Insulect HV Isolating Link strengthens your network's switching capability with minimal complexity.

Insulect Air Break Switches

In the evolving New Zealand electricity distribution sector, ensuring safe, reliable isolation and switching on overhead networks is critical.

We understand the unique demands of local infrastructure, which is why we supply Insulect Air Insulated Load Break Switches — a proven solution engineered for the precision and flexibility needed to solve network challenges.

Designed, assembled, and tested in Australia to AS 62271.102 / IEC 62271.102 standards, these switches are widely used throughout distribution networks for effective sectionalising, load management, and fault isolation. Available in both 12/24kV and 36kV ratings and supporting continuous currents up to 1250A, Insulect switches are trusted across New Zealand for their adaptability and reliability.

From urban grids to rural feeders, Insulect Air Break Switches provide a robust, flexible platform for managing New Zealand's evolving power needs.

Insulect Air Insulated Load Break Switches

Solving Common Network Challenges

Minimising Outages

Fast, safe sectionalising helps isolate faults quickly, restoring service to unaffected areas and reducing customer downtime.

Versatile Installation Options

Whether pole-top or mid-pole, side-break or vertical-break, these switches integrate easily with existing infrastructure.

Rural Network Reliability

Designed for challenging environments, including remote and exposed locations, with customisable insulators and mounting options.

Enhanced Operator Safety

Manual, hook stick, or motorised operation (including SCADA compatibility) offers safe switching from the ground or remote sites.

Pfisterer SICON Stepless Shear Bolt Connectors

The demand for quick, reliable connections that minimise installation time and reduce operational risks is ever-present in the power distribution sector.

The Pfisterer SICON Stepless Shear Bolt Connector is a premium solution engineered to streamline installations and enhance network reliability.

Designed for universal fit across a wide range of conductor sizes, SICON connectors eliminate the need to stock multiple connector types, simplifying procurement and reducing inventory complexity. Unlike traditional compression lugs that require specialised crimping tools, SICON connectors install using just a standard hex key, ensuring a fast, tool-free assembly process. This not only saves valuable time in the field but also reduces the risk of installation errors.

Hiko Solutions Always Focus on Real World Issues

Time-Saving Installation

Quick, tool-free assembly using a standard hex key – no crimping tools required.

Universal Compatibility

One connector accommodates multiple conductor sizes, minimising stockholding and simplifying logistics.

Consistent Connection Quality

Stepless shear bolt technology ensures optimal contact force every time, preventing loose connections and reducing maintenance risks.

Safety Enhanced

The smooth, shear-off design eliminates sharp edges, reducing hazards for installers and ensuring a safe working environment.

For New Zealand's power networks, where reliability and operational efficiency are paramount, Pfisterer SICON connectors provide a proven, low-risk solution that keeps your systems running smoothly.

Discover more at **hikopower.co.nz** or contact our team at **0800 473 999**

SICON Shear Bolt Lug and Connector

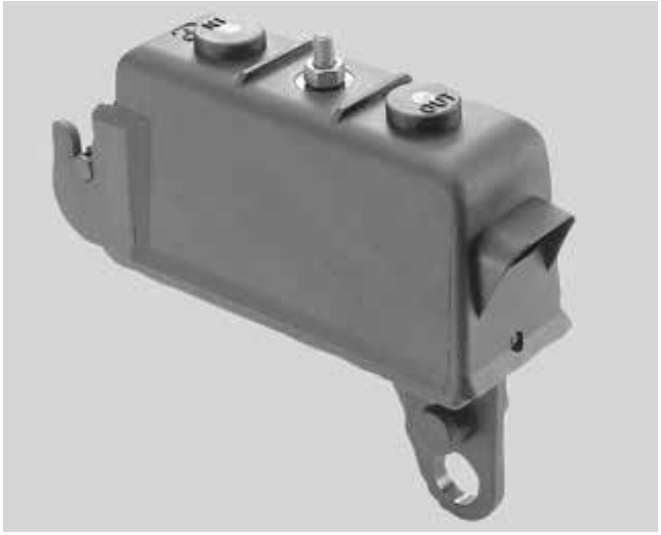
SICON Shear Bolt Connector

Pfisterer Fuse Switch Disconnects for LV Overhead Lines

Managing reliable power distribution across low voltage overhead lines in New Zealand's diverse and often harsh conditions presents unique challenges.

At Hiko Power Engineering, we understand these operational difficulties and offer a solution with the Pfisterer Fuse Switch Disconnects – engineered to deliver optimal performance in sectionalising applications.

Available in 160 A and 400 A configurations, these DIN standard fuse switch disconnects are constructed from UV and ageing-resistant reinforced polymer, providing exceptional durability against New Zealand's intense sun exposure and variable weather conditions. The robust design ensures dependable performance, whether mounted on poles, crossarms, or other structures, and the versatile mounting options make them suitable for both single and triple pole installations.



160A Fuse Switch Disconnect (KP2207R)

400A Fuse Switch Disconnect (KP2209)

Hiko Solutions Always Focus on Real World Challenges

Reliable Protection in Harsh Environments

Weatherproof construction and fully insulated terminals ensure safe and consistent operation in exposed outdoor settings.

Versatile Mounting Options

Adjustable brackets allow for flexible installations, accommodating custom configurations while maintaining structural integrity.

Enhanced Safety and Compatibility

Tin-plated and silver-plated copper contacts provide optimal conductivity and corrosion resistance, while the insulated tap-off connector can be used on both ABC systems and bare conductors.

Operational Efficiency

The 16 A tap-off fuse protected connector offers an efficient, fully insulated solution for auxiliary connections without compromising line integrity.

We understand the complexities of maintaining reliable LV overhead networks in New Zealand, and Pfisterer Fuse Switch Disconnects are designed to meet these challenges head-on.

EFEN NH LV High Rupturing Capacity Fuses & Solid Links

Ensuring reliable circuit protection across low voltage networks in New Zealand requires robust solutions that can handle the unexpected.

At Hiko Power Engineering, we understand the critical need for dependable circuit protection and offer the EFEN NH Low Voltage High Rupturing Capacity (HRC) Fuses and Solid Links – engineered to safeguard electrical systems against extreme fault currents.

With breaking capacities exceeding 100kA, these fuses are designed to protect against virtually all short-circuit conditions encountered in LV systems. Available in sizes 00, 1, 2, 3, and 4a, EFEN NH fuses and links are fully standardised, making them suitable for a range of horizontal and vertical disconnects, including the EFEN SILAS and IN series.

EFEN NH Low Voltage High Rupturing Capacity Fuse

Addressing Common Challenges in NZ Power Networks

High Fault Current Protection

EFEN NH fuses provide exceptional breaking capacity, effectively isolating fault currents to prevent equipment damage and network downtime.

Universal Application

Compatible with a wide range of disconnects, including EFEN E3 vertical disconnects with fully shrouded contacts, ensuring maximum safety even in open positions.

Operational Flexibility

The fuses are rated for use up to 500 Vac and cover currents ranging from 6A to 1600A, making them ideal for diverse LV applications.

Rugged, Weather-Resistant Design

Constructed from high-grade materials to withstand New Zealand's harsh weather conditions, ensuring long-lasting reliability and performance.

At Hiko Power Engineering, we understand the challenges of maintaining safe and reliable LV networks. That's why we offer EFEN NH HRC Fuses and Solid Links – trusted for their proven protection, exceptional quality, and compatibility across multiple applications.

EFEN LV Horizontal Fuse Switch Disconnects

In New Zealand's power distribution sector, ensuring reliable circuit protection while accommodating various mounting configurations can be a significant challenge.

At Hiko Power Engineering, we understand the complexities of maintaining safe and effective power networks and offer the EFEN LV Horizontal Fuse Switch Disconnects – a premium solution engineered for diverse low voltage applications.

The EFEN SILAS and IN Series provide robust, flexible options for both single-phase and three-phase systems, utilising widely available DIN blade fuse cartridges. The SILAS range is ideal for independent mounting, particularly in solar and battery applications, with ratings from 160 A to 630 A. The IN Series, available in ratings up to 1,600 A, is more compact and optimised for network pillar applications, making it a perfect fit for restricted spaces.

Real-World Problems Solved

Streamlined Upgrades and Replacements

Horizontal mounting offers a practical alternative for replacing older fuse switches, reducing installation time and complexity.

Enhanced Operator Safety

AC22B switching capacity ensures safe operation even under load, while phase protection barriers minimise contact hazards during maintenance.

Flexibility in Mounting

Multiple configurations allow for easy integration in both enclosed and open installations, accommodating varied network architectures.

Optimised Space Utilisation

The compact design of the IN Series is particularly beneficial for space-constrained network pillars and compact switchgear cabinets.

At Hiko Power Engineering, we recognise the importance of reliable, adaptable LV switchgear solutions. Discover how the EFEN LV Horizontal Fuse Switch Disconnects can streamline your network protection at **hikopower.co.nz**

EFEN IN Series

SILAS Series

hikopower.co.nz

Lucy Electric AegisEcoTec Non-SF_6 Ring Main Unit

As the New Zealand electrical utilities sector continues its push for sustainability and network reliability, the Lucy Electric AegisEcoTec Ring Main Unit (RMU) offers a forward-thinking solution that meets both environmental and operational demands.

Available through Hiko Power Engineering, the AegisEcoTec is a non-SF RMU, delivering premium performance without compromising safety, reliability, or size.

Built on the proven mechanical foundation of the globally trusted Aegis RMU range, the EcoTec variant uses synthetic air insulation and a vacuum interrupter to eliminate the environmental risks associated with SF gas, while maintaining full load break and protection functionality. This innovative switchgear is designed for 12kV medium voltage applications and is compact enough to suit constrained urban substations or rural distribution nodes.

Solving Real-World Challenges in the NZ

Environmental Compliance

Eliminates SF gas, supporting zero-emission goals and aligning with growing regulatory pressures.

Operator Safety

Features clear mimic diagrams, integral interlocks, and a 100% padlockable interface to minimise risk in the field.

Compact Substation Design

Smaller footprint without sacrificing performance—ideal for retrofit projects or space-limited installations.

High Reliability

Rated for 20kA short-time withstand current, with arc fault containment and ingress protection up to IP54 for outdoor use.

Lucy Electric

Choose a cleaner, smarter RMU that's already proven.

Contact Hiko Power on **0800 473 999**

Hiko is proud to be certified to the following ISO standards:

Telarc. Registered cert TM — Environment ISO 14001

Telarc. Registered cert TM — Health & Safety ISO 45001

Telarc. Registered cert TM — Quality ISO 9001

Telarc. Integrated Systems Certification cert TM — ISO 9001 ISO 14001 ISO 45001

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