



# COMPANY PROFILE

Innovative switchboard solutions from one of New Zealand's leading industrial switchboard manufacturers since 1971.



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# HELLO.

Clive Wilson Switchboards has a reputation for reliable and quality switchboard manufacturing throughout New Zealand and abroad, with over 55 years in the electrical industry.

## EXPERIENCED & TRUSTED

We are a leading manufacturer of switchboards, control panels, automation systems and related services. With approximately 25 staff, including registered electricians, apprentices, estimators, automation engineers, CAD operators, and office management personnel. We also have a state-of-the-art, recently refurbished powder coating plant, as well as a laser engraving studio.

Our modern 2300 sq metre facility is located in central Invercargill. We are proud to have been ISO 9001 certified since 1995, and undergo annual audits to maintain our status. Additionally, we are a Schneider Electric Accredited Prisma Partner.

We are the preferred supplier to Fonterra, the Alliance Group, NZAS, Open Country Dairy Limited and Oceania Dairy Limited to name a few.



# SIMOTROL

## AS/NZS 61439 POWER DISTRIBUTION/MOTOR CONTROL CENTRE

Simotrol represents a self-supporting, industrial rated control panel system that features a modular, tiered architecture. This system is distinguished by its adaptability and innovative design, making it suitable for a broad spectrum of industrial settings.

**Additionally, Simotrol complies with the AS/NZS 61439** standards. Through rigorous testing by an independent laboratory, Simotrol has been thoroughly certified to meet all criteria of the AS/NZS 61439 standards for low voltage switchgear and control gear assemblies.

**The structure** of Simotrol is based on 2mm thick folded sheet metal. It boasts segregated compartments for equipment, busbars, and cables, with a segregation rating of up to Form 4a, to enhance the safety of operators, assets, and maintenance processes. The standard finish is a cream ripple polyester powder coating with a white interior, though alternative colors can be requested.

Simotrol is designed to accommodate evolving standards and technological progressions, as well as enhancements in manufacturing and tooling methods, ensuring compatibility with earlier versions of the switchboard.

**Simotrol offers two tier heights**, specifically 1980mm and 2200mm, with custom dimensions available upon request. The standard depths are 450mm for models with single-sided front access and 750mm for double-sided configurations.

The construction method using bolted sheet metal allows for the easy addition of more tiers without the need for cutting, welding, or drilling.

**Busbar** setups are standardized and secured with approved supports. Horizontal busbars are positioned at the top of each tier within a dedicated compartment, while vertical busbars run through the compartment of each tier from top to bottom. Two busbar sizes are offered, 750 amps and 950 amps, with standard design vertical busbars tailored to specific applications also available.

All busbars are made from tin-plated copper, which not only ensures excellent electrical connectivity but also provides significant resistance to corrosion. Should there be a need, access to the busbars is possible via removable covers on top of the cubicle.

The system includes vertically aligned cable ways in each tier, equipped with integrated cable cleats and non-ferrous gland plates at both ends. All cable terminations are accessible from the front.

**The modular components** within Simotrol include detachable trays and corresponding doors located on the accessible side of the switchboard within the equipment compartments. These doors are equipped with chrome lift-off hinges and quarter-turn locks to ensure security. For enhanced operator safety, doors are designed with either an interlock mechanism linked to the internal isolating device, permitting door opening only when the device is in the off position, or, in cases where an interlock is not feasible, they require a tool for opening.

The design of these modular assemblies is standardized and interchangeable within their respective series, structured in modular height increments of 40mm. In configurations of demountable functional units with a capacity of 400A or less, power distribution from the vertical busbars to each unit is facilitated through insulated plug contacts. For fixed connection functional units with a capacity of 630A or more, power is distributed via bolted connections, which are conveniently accessible from the front of the unit. Units of identical dimensions are designed to be interchangeable. In the case of fixed or withdrawable functional ACB (Air Circuit Breaker) units with a capacity of up to 2500A, power distribution is managed through bolted connections located at the rear of the units.

# BY THE NUMBERS



## Technical

**SIMOTROL Power Distribution/Motor Control Centre is built to comply with AS/NZS 61439.**

Rated operating current  
•  $I_nA \leq 2500A$  @ 0.8 (RDF)

Rated operational voltage  
•  $U_e$  415V

Rated insulation voltage  
•  $U_i$  800V  
• AS/NZS 61439.1:2016 -10.9.2

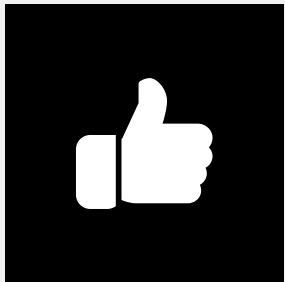
Rated impulse voltage  
•  $U_{imp}$  8kV  
• AS/NZS 61439.1:2016 -10.9.3

Short circuit withstand strength  
•  $I_{cw}$  50kA for 1 second –  $I_{pk}$  105kA  
•  $I_{cw}$  63kA for 1 second –  $I_{pk}$  139kA  
• AS/NZS 61439.1:2016 -10.11

Degree of protection  
•  $\leq IP54$   
• AS/NZS 61439.1:2016 -10.3

Mechanical impact strength  
• IK10  
• AS/NZS 61439.1:2016 -10.2.6

Routine verification  
• AS/NZS 61439.1:2016 -11



## Compliance

General Rules  
• AS/NZS 61439.1:2016

Power Switchgear and Control Gear Assemblies  
• AS/NZS 61439.2:2016

Australian/New Zealand Electrical Wiring Rules  
• AS/NZS3000:2007 + A1 + A2

Environmental Test  
• IEC 60068-2-30/11

Fire Hazard Test  
• AS/NZS 60695.2.11:2001 + A1

Degrees of Protection Provided by Enclosures (IK Code)  
• BS EN 62262:2002

Degrees of Protection Provided by Enclosures (IP Code)  
• AS60529-2004 (2018)

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# QUALITY ASSURANCE

## OUR MISSION & VISION STATEMENT

**At Clive Wilson Switchboards, our aim** is to build and supply, with pride, products of the highest quality. We are committed to continually improving our products, services, and systems to ensure total customer satisfaction in everything we do.

We will achieve this through teamwork, trust, and the involvement of everyone across our organisation. The Director pledges to provide the resources and leadership necessary to support our goals.

Our policy is to:

- Meet or exceed all applicable requirements, including customer specifications, regulatory obligations, and contractual commitments.
- Provide a framework for setting and reviewing quality objectives aligned with our strategic direction.
- Maintain and improve the effectiveness of our Quality Management System (QMS) through training, engagement, and regular review.

We are committed to remaining a trusted and reliable leader in our field, delivering consistent quality and value to our customers.



# THROUGH THE YEARS

## 1968 - 1989

Company was initiated by Clive Wilson. In 1971, the Company moved to a purpose-built building. 1983 saw the sudden death of Clive, and his son Alan Wilson & Wayne Affleck purchased the business in 1988. A larger (and current) premises was purchased in Clyde Street in 1989.

## 1989 - 1992

In 1989 Clive Wilson Electrical Wholesale was added, and Clive Wilson Computers in 1992.

## 2009 - 2015

In 2009 Alan became the sole Managing Director of the CW Group. In 2013, CW Electrical Wholesale became part of the Telfer Group and was renamed CW Telfer Southland. In 2015, Clive Wilson Computers was closed.

## 2021

In 2021, CW Telfer Southland was sold to the Telfer Group, before their move to a new building leaving Clive Wilson Switchboards as the sole occupier of our Clyde Street premises.

## 2023

Major renovations of our premises have begun, with the relocation of our Powder Coating plant, and expansion of our workshop.

## 2025

Alan's son, Chris, and daughter, Kylie, are formally appointed as Directors, marking a new chapter in the company's leadership and continuing the Wilson family legacy.



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# MEET OUR TEAM

## Alan Wilson

Managing Director of  
Clive Wilson Switchboards.  
Estimator/Contract Handler  
with 45+ years experience in  
switchboard manufacturing.

## Chris Wilson

Director  
Estimator  
Contract Handler

## Mark Boniface

Estimator  
Contract Handler

## Luke Payne

Workshop Foreman

## Stephen Payne

Production Manager

## Quintin Thompson

Leading Hand

## Russell Yeo

Automation

## Ben Yeo

Automation  
Drafting

## Kylie Thompson

Director  
Financial Controller  
Quality Manager ISO9001:2015  
Health & Safety Coordinator

## Daniel Evans

## Lynda Heslin

Drafting

## Peter Eccles

Freight & Stores

## Karen Wilson

## Krystal Birch

Administration

## Supported by

11 Workshop Staff  
3 Powder Coaters  
1 Laser Engraver

# GET IN TOUCH

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## SERVICES

- Switchboards: Main Switchboards, Power and Load Distribution
- Motor Control Centre: Forms 1, 2, 3 & 4
- Distribution Boards: Mechanical & Electrical Services
- Automation: Process and Control, Building Management
- Generator Controls: Load Shedding, Synchronization, Automatic Mains Failure
- Application Specific: Custom Design and Build
- System Integration: PLC, SCADA, Telemetry, Networking
- Engineering: Design, Estimation, CAD, Arc Flash studies, Selectivity and Discrimination Studies
- Services: Modifications, Commissioning

