

Company



Industrial Electrical Service



Installation



Automation



Routine Maintenance



Industrial Electronics

About Dalton Electrical Company Limited

Centrally located in Auckland's industrial area Dalton Electrical provides a wide range of electrical services to its industrial client base.

First established in 1966 Dalton Electrical Company Limited has created a reputation for quality services and expertise.

We provide many services, including the following:

- On call factory maintenance
- Permanent on site factory maintenance
- Preventative, predictive and corrective managed maintenance
- Component level electronic repairs
- PLC programming
- Servo motor and control systems
- Automation of all types of machinery
- Machinery installation
- New building electrical system design and installation.
- Routine maintenance of lighting & power systems.

With twenty service vehicles on the road and excellent communication systems we are big enough to provide the wide range of services you need, when you need them, but small enough to understand your business.

Industrial Electrical Service

Dalton Electrical Company Limited is firmly focused on providing service to Industry.

We can manage your plant and equipment as well as providing expert on call services.

Our preventative maintenance team can maintain your machinery in top condition as well as keeping fault logs, program and parameter back up's and up to date drawings.

Our routine checks can ensure your general security and emergency lighting is operating at safe levels and all leads are tagged as required.

Experience

Dalton Electrical has been providing service to industry since 1966. We have maintained our excellent reputation and are always training in new areas.

Knowledge

To service your plant we can call on our Industrial Electronics, Automation, Installation and Preventative Maintenance personnel. What ever it is, we have got it covered.

Availability

We have 20 service vehicles on the road, all equipped with excellent communication systems and highly skilled personnel. Dalton Electrical has a serviceman on call 24 hours a day 7 days a week for our customers.

Full Time on Site Service

Dalton Electrical can provide on site full time electrical service with the added advantage of having all our services available to your company 24 hours a day 7 days a week.

Examples of Machinery Serviced:

- Food manufacturing
- Printing and packaging
- Steel and wire industry
- Hazardous area machinery
- Tyre re-treading
- General engineering machinery
- Warehousing machinery
- Plastic moulding and extrusion
- Textile Industry
- Asphalt plant and equipment

Contact Dalton Electrical to discuss your Industrial Electrical Service

Installation

Dalton Electrical carries out a wide range of installations from additional power points in your office to a new factory.

We can design your power and lighting requirements, upgrade main supplies and manage your electrical installation projects.

Installation carried out by Dalton Electricians:

- Design & Build Automation Projects
- Factory relocations
- Machine installations
- New mains switchboards
- High bay lighting
- Office lighting and power systems
- Security lighting
- Show room lighting
- New buildings
- Lighting & Design

Please contact Dalton Electrical to discuss your installation requirements.

Automation

Dalton Electrical can provide a turn key solution for your automation requirements.

Design

Dalton Electrical can provide skilled electrical engineering to design your process requirements and provide full CAD drawings.

Programming

Dalton Electrical employs two programmers whom are experts on PC and PLC programming. Supported brands include (but are not limited to) Allen Bradley, John Brooks Trio Motion Controllers, Telemecanique, Omron, Mitsubishi and Taian PLC's.

Manufacturing

Dalton Electrical builds its control panels with the same high standards it applies to all work. All control wiring is ferruled and numbered, all components labelled and full drawings provided.

Maintenance

Our service team can provide 24 hours back up services to all equipment provided.

Motion Control

Dalton Electrical is the sole approved integrator of John Brooks Limited Motion and Control Equipment.

Machinery Routine Maintenance

A big part of ensuring a factory runs smoothly is planned maintenance. We have staff solely focussed on planned maintenance to ensure the smooth and long term operation of machinery.

Predictive – Preventative – Corrective.

Dalton electricians employ the following techniques in their checks:

- Vibration levels are monitored to predict bearing or gearbox failure.
- Insulation levels and current are monitored to ensure motors are not deteriorating or being overloaded.
- Recording temperature stickers are placed on motors to indicate any overloading since the previous checks.
- Control panels are checked for overheating with an infra red digital thermometer.
- Control panels and filters are cleaned and motors checked for correct cooling.
- A visual check of the machinery is carried out and repairs made as required. E.g. Broken conduit or loose cable glands repaired before they become a fault.
- DC motor brushes and commutators checked.
- Terminals checked for tightness.
- Parameters and programmes backed up in case of future failure.
- PLC batteries checked and replaced.
- Fault log books put in all machinery to keep track of on going faults and record routine maintenance.

Most machines require 8 hours of electrical maintenance every six months. This can be planned so only one or two machines have maintenance carried out each month.

Please contact us to discuss Machinery Routine Maintenance further:

Building Routine Maintenance

General Lighting:

Poor lighting is a major cause of headaches and fatigue. A fluorescent fitting can still be operating but putting out half its rated light output if not maintained. We will monitor your lighting levels in offices, warehouses and factories and ensure that they stay above recommended safety levels.

Security Lighting:

Faulty security lighting can go unnoticed for months. Routine checks and repairs ensure your staff and building are safer.

Emergency Lighting:

Dalton Electrical is IQP registered so if we are checking your emergency lights as part of our monthly checks there is no need for an annual emergency lighting inspection for your building WOF. We also repair the fittings in house to avoid costly replacement.

Appliance Testing:

All appliance and electrical leads in commercial and industrial buildings are required to be tested and tagged to prove their electrical safety. As this can turn into a major job we include this in our monthly visits and do a different area of the building each time. This ensures your equipment is safe and you are complying with AS/NZS 3760

Thermographic Surveys:

Periodic Thermographic Surveys inform plant and maintenance engineers of the unseen condition of their electrical systems and eliminate unscheduled outages. Thermographic surveys are non-intrusive and are performed while the electrical equipment is under full load.

The information found through an infrared survey helps clients create a safer working environment and secures profits by controlling outages, and replacement of failed components and equipment.

Please contact Dalton Electrical to discuss building routine maintenance.

Industrial Electronics

Dalton Electrical can provide components level electronics' repairs to a wide range of equipment.

Including:

- Temperature control & calibration
- Design & build equipment to your requirements
- Variable speed drives
- Power supplies
- Process controllers
- CNC Machine positioning systems
- Emergency lighting
- Welding control cards
- Battery charging equipment
- Theatre light control
- Laboratory equipment repair

Electronic repairs can be carried out on site or in our electronics workshop.

Please contact Dalton Electrical to find out more about component level electronic repairs.

John Brooks Limited

Dalton Electrical Company limited is the sole authorised Systems integrator for John Brooks Limited Motion Control Equipment. Together with John Brooks Limited we are also able to provide expert mechanical engineering design, and a wide range of motors, gearboxes and control equipment. This compliments our own automation team to provide a complete turn key solution.

You can visit the John Brooks Limited Website at www.JohnBrooks.co.nz

Contact

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