

# Marketplace

YOUR ELECTRICAL ASSET | MARCH - APRIL 2024

**POWERBASE** 

## WORKER'S DEATH A REMINDER OF NEED TO TEST

We look at the Energy Safety prosecution of an electrical worker - PAGE 10

## +PLUS SUSTAINABILITY

A Key Specifier Issue  
& Growing - PAGE 16

A dynamic action shot from an NRL Grand Final. In the foreground, a player in a maroon and gold Queensland Maroons jersey is running with the ball. He is being tackled by a player in a blue and white Sydney Roosters jersey. Another player in a black and red jersey is visible in the background. The scene is set in a large stadium with bright lights.

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# POWERBASE TURNS 40

**MORE INFORMATION COMING SOON**



**Welcome to our Autumn issue of Marketplace for 2024, the promotional and business publication from the members of the Powerbase electrical wholesale group.**

We hope the technical features and advertorials in this issue spark ideas that will help grow your business or make it more effective. For more details on these product ranges contact your local Powerbase branch.

Let us know if you have an industry topic or product install case study that we could feature in Marketplace. Email your submission to **[national.office@powerbase.co.nz](mailto:national.office@powerbase.co.nz)**

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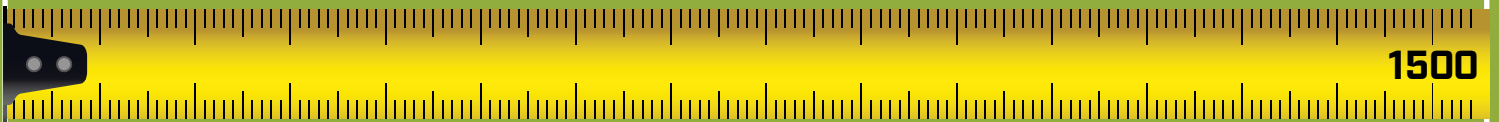
**Kevin Lynn**  
Group Commercial Manager  
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## Campbell Burnes on Rugby

SPREADING  
THEIR WINGS

Former Manu Samoa No 10 and freelance rugby scribe Campbell Burnes is pleased to see Moana Pasifika spreading their wings.

Danny Toala and Moana Pasifika are taking their home games to six different venues in 2024.



By the time you read this, Moana Pasifika's third season of Super Rugby will be well underway.

Cellar dwellers in 2022-23, this Auckland region-based franchise is anxious to connect with their fans. They seem to do that without any difficulty on social media, which apparently attracts big numbers. But while their reach is impressive, that doesn't pay the bills. Crowds at Go Media Stadium Mt Smart, Auckland, their home for the first two seasons, were negligible. It may not have helped that the team won just three games out of 28 or that they were based near Auckland's rugby league heartland and hinterland.

But there is fresh hope that a revamped roster under new head coach Tana Umaga can at least patch up some of the holes in their defence, stay in the fight for 80 minutes and score more tries under the aegis of new assistant coach Stephen Jones, a Wales Test centurion who brings an attacking mindset to his work.

That is all well and good. But Moana Pasifika need to be visible to a wider group of rugby fans. They have thus decided to take their home games around the northern region of New Zealand and into the Pacific.

The 2023 venture to Apia worked in every respect except the fact they lost to the Queensland Reds. It was just the second time a Super Rugby game had been played in Samoa. The first time was in 2017 and the 'home' team Blues royally stuffed that one up, arriving too late into town and overcharging for tickets.

But now Moana Pasifika will head to Tonga on May 4 to face the Highlanders. This is an historic first for the island kingdom, which was rocked by an earthquake and tsunami just two years ago. Given a large percentage of the Moana squad is Tongan, and no less than 13 represented Ikahe Tahi at Rugby World Cup 2023, this is a good move.

The rugby folk of Tonga have been starved of home internationals in recent years. Teufaiva Stadium in Nuku'alofa was not up to code. But in 2023 Ikahe Tahi hosted Australia A and Canada for Test matches,

so things are looking up. I am reliably informed that the surface at the stadium is well grassed and the stadium is in much better shape.

The Moana Pasifika class of 2024 is drawn from far and wide – Australia, the Pacific, USA and Japan, as well as from around New Zealand, so it makes sense to try and get in front of fans from outside Auckland.

While their first home game was technically against the Fijian Drua in the Melbourne Super Round early in March, Moana Pasifika have a home game at North Harbour Stadium, their new training base, on March 8 against the Melbourne Rebels. They will also take the home changing rooms at Eden Park for the March 30 clash with crosstown rivals Blues, a franchise that is lukewarm about their presence in Auckland, and on May 12 head to Whangarei, a Blues venue, to face the Reds. They close their home season against the Chiefs and Waratahs back at Mt Smart.

Hopefully by then the groundswell of support will have grown, so we see several thousand through the gates. Having watched the Drua thrive playing in Fiji, hopefully Moana can tap into their large fanbase to better effect in 2024. After all, they offer a major point of difference for a competition that badly needs some spark and impetus. ▀

# WORKER'S DEATH A REMINDER OF NEED TO TEST

**WORKSAFE**  
Mahi Haumarū Aotearoa



# A WORKSAFE – ENERGY SAFETY PROSECUTION OF AN ELECTRICAL WORKER HAS CREATED A LARGE AMOUNT OF INTEREST AMONG INDUSTRY PROFESSIONALS.

**Paul Kauder, Technical Officer, WorkSafe – Energy Safety.**

While the case is awaiting sentencing and WorkSafe is limited in how much we can say, we appreciate those in the industry would like to know what the issue was with the installation which caused a person to be electrocuted and want to take the opportunity to share this information.

An electrical worker was engaged to replace a permanently connected kitchen extraction fan and light unit with a new rangehood. A new socket-outlet would be required and need to be installed to supply the new rangehood. The existing unit was removed and the electrical worker, in cutting the cable, failed to observe that the green earth conductor was being used as a second active to supply the fan in the unit.

In the past, it was not uncommon for a green earth conductor to be sleeved red and used as a second active conductor. This was the case with the existing unit, where it was using an active for the fan, an active for the lights, and a black supplying the neutral.

The diagrams to the right show what happened very clearly.

The electrical worker supplied certification to the property owner which contained a declaration that the installation of the socket-outlet was connected to a power supply and safe to use.

As part of WorkSafe's investigation it was identified that the electrical worker had failed to adequately test and verify the installation as required by AS/NZS 3000:2007.

It is a mandatory requirement to test all prescribed electrical work on an installation for operational safety and to ensure the installation is safe to use.

If the requisite testing had been carried out, the electrical worker would have identified that the earth conductor was connected to the wall switch and was

Figure 1: Hardwired Fan-&Light Unit (was)

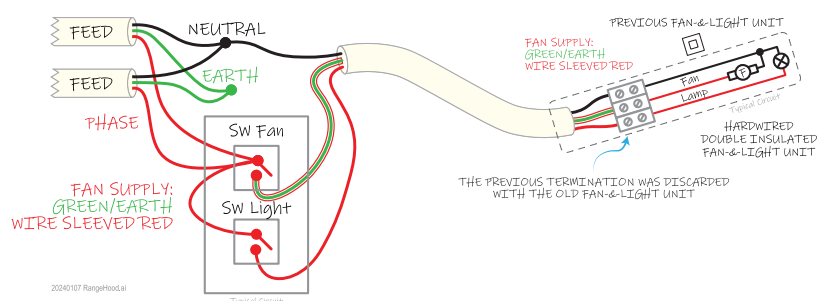
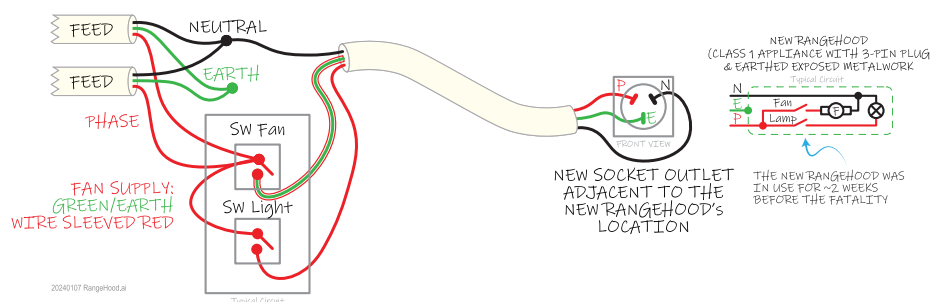


Figure 2: Rangehood Socket Outlet Installed (became)



previously being used as a second active. The connection in Figure 2 would have failed testing and verification as required by AS/NZS 3000.

Ten days later another contractor was engaged by the property owner to install a flashing around the rangehood and in doing so he received a fatal electric shock. There has been some conjecture as to why users, who may have been using the rangehood in the corresponding period, had not received an electric shock. There was no evidence from the WorkSafe investigation that the users came into contact with the exposed conductive parts of the rangehood. The contractor, in

installing the flashing, did make contact with the exposed conductive parts.

There have also been suggestions that the contractor removed or interfered with the electrical work in some way. The evidence gained during the investigation determined that neither the contractor or anyone else removed, altered, or otherwise adapted any electrical cabling, switches or similar.

This is a reminder for all electrical workers that not carrying out the required prescribed testing and verification will create a significant risk that a person will suffer serious harm. In this case it would have prevented a tragic event where a person lost their life. ■

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# BONZA MONZA THE TEMPLE OF SPEED

Nestled in the heart of the Royal Villa of Monza Park, Italy, Monza Circuit (Autodromo Nazionale Monza) is not only hallowed ground for drivers and motorsport enthusiasts, but with over a century of racing history to draw from, it also holds the title of Europe's oldest (and still used) racetrack.



The circuit was the brainwave of the Automobile Club of Milan, with the aim of celebrating their 25th anniversary, and although its first stone was laid by Vincenzo Lancia and Felice Nazzaro at the end of February 1922, due to 'artistic and conservation delays', work didn't actually start until May 15 that same year.

Despite the slow start, the racetrack was built in the record time of 110 days, using 3500 workers, 200 wagons, 30 trucks and a 5 km Decauville railway with 2 locomotives and 80 wagons, and the track was officially opened on 3 September 1922, with its maiden race, the second Italian Grand Prix, held on 10 September 1922.

The original layout included a 5.5 km road track and a 4.5 km high-speed loop, featuring two elevated curves that allowed a theoretical maximum speed of 180/190 km per hour; all connected by two straights 1.07 km long each. The two tracks intersected on two levels by means of an underpass in the Serraglio area.

Things didn't start too well for Monza, with 4 deaths in the first couple of years, however, a more infamous tragedy struck the rapid-paced racetrack in 1928, when during the Italian Grand Prix, Emilio Materassi crashed his Talbot into the grandstand killing himself and 27 spectators. Deemed 'the most serious Italian racing accident to date', the accident led to further Grand Prix races being confined to the high-speed loop and the Italian Grand Prix not being held there again until 1931.

The 1933 Italian Grand Prix was again held on the original layout but the event



was tarnished by the deaths of three drivers in the supporting Monza Grand Prix held on the same day - this became known as the 'Black Day of Monza'.

In 1938 Monza's road layout was modified, this included the demolition of the two elevated curves and the construction of a new grandstand. This new circuit measured 6.3km and was used until the end of 1954.

In 1955 the entire complex of Monza was transformed, becoming a 10km circuit that included a restored road sector and a high-speed sector for competitions and record attempts. A ring was created with two raised 320m radius curves that followed the original layout, characterised by a growing 'parabolic' radius towards the exit. With the improvements, Monza now boasted a theoretical maximum speed of approximately 285 km/h - 100 km/h faster than before.

F1 used the high speed track between '55 and '61 Grand Prix, with Stirling Moss and Phil Hill both winning twice in this period, however, tragedy struck again in 1961 with the death of Wolfgang von Trips and fifteen spectators, and although the accident did not occur on the oval section of the track, the high speeds were deemed unsafe and F1's use of the oval was ended.

Thankfully racing has continued at Monza and over the years, chicanes and run-offs have been added in order to slow the track somewhat and improve its safety, however, it remains a challenging circuit that thrills and delights all involved, plus, with the current track record being held by Rubens Barrichello (1'21"046, at an average of 257.320 km/h), it's arguably one of the fastest racetracks in the world - Bonza.

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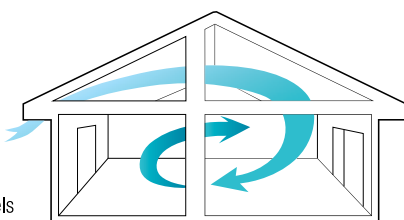
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# SUSTAINABILITY

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- To actively seek to minimise the environmental impact of all Caxton's activities.

- To comply with relevant environmental legislation.
- To regularly review their operational activities, systems and training to ensure their business practice is aligned with their environmental statement.

### Commitment and Processes

Caxton are committed to reducing waste across all departments. They have a commitment to raising environmental awareness and promotion of environmentally sustainable materials to our customers where suitable.

Caxton promote reuse and recycling, as well as the use of supplies that are recycled and recyclable and whose production and use minimise the consumption of natural resources.

They encourage their staff to drive initiatives to reduce waste, including sorting and recycling materials and donating used technology equipment.

Caxton has achieved several sustainability goals by recycling all offcuts and offering non-recyclable dry waste to the Recovered Materials Foundation and Creative Junk.

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**"The greatest threat to our planet is the belief that someone else will save it."**

**– Robert Swan, Author**



Schneider  
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# HOW A HISTORIC HOTEL EMBARKED ON ITS DECARBONISATION JOURNEY TO ACHIEVE A 15% ENERGY REDUCTION WITHIN 6 MONTHS

As the world moves towards net-zero goals, the awareness of building retrofit opportunities continues growing. Regardless of building size, cost optimization remains crucial in pursuing energy efficiency.

Recent regulations now require energy management systems for buildings below 250-kilowatt load (kW), creating new opportunities for tailored solutions in retail and mid-market sectors.

At Schneider Electric, we identify three retrofit scenarios, each with distinct levels of renovation requirements, varying ROIs, building disruptions, and carbon impacts, providing a strategic path toward sustainable building upgrades:

- **Light interventions for compliance and efficiency:** Suitable for buildings with recent upgrades to major building systems and need minimal interventions for optimising existing systems.
  - Expect up to 45% energy and operational carbon reduction improvements.
- **Medium retrofits to compete in the market:** Ideal for buildings with older systems to deliver additional

savings given its required higher levels of investment and slightly higher operational disruption.

- Expect up to 85% energy and operational carbon reduction improvements.

## ▪ Deep renovations to lead the market:

For buildings in highly competitive markets requiring deep renovations to get assets as close as possible to net zero as quickly as possible.

- Expect up to 85+% energy and operational carbon reduction improvements.

A successful example of one of these retrofit strategies is in Chartres, France, where the Grand Monarque is a 4-star hotel housed in a 600-year-old building. They decided to deploy EcoStruxure for Small-Medium buildings for a 'light intervention' approach for energy compliance and efficiency as the first step in their decarbonisation journey. I recently spoke with Bertrand Jallerat, the owner of Grand Monarque, to discuss their approach to energy renovations in such a historic, culturally significant building.

## What motivated Grand Monarque's energy renovation plan?

The Grand Monarque operates in a 600-year-old building, so we had to breathe some new life into it and bring it into the 21st century but in a responsible way.

Sustainability and responsible practices are our operational cornerstones. We have been EcoCert certified for 15 years and are one of the early adopters of the Green Key label, a leading standard of excellence in sustainable accommodation and restaurant tourism. We recently undertook the Diag Eco-Flux, an energy audit supported by BPI and ADEME, for a comprehensive analysis to identify how we can optimise operational costs and significantly reduce our environmental impact.

The escalating energy crisis also pushed us towards sustainable energy solutions. We needed to understand consumption patterns better and gain insights into our infrastructure's energy usage. Identifying facilities and processes that consumed the most energy allowed us to develop effective, ongoing action plans. Our challenge was the lack of visibility into where and how energy was consumed in the building. This became crucial as our electricity costs rose from 80 to 650, 700, or even 750 euros.





## Can you tell us about your energy renovation process so far?

I met with B2Ei, our Schneider Electric EcoXpert partner, to identify and choose the right solution for my needs. This involved a preliminary hotel audit, resulting in an energy efficiency and decarbonisation action plan. Next came the digitalisation of our electrical assets so we could measure energy consumption, identify areas for savings, and optimise those areas.

This was when I was introduced to the EcoStruxure Energy Hub solution, which is tailor-made for the mid-market, i.e., mid-size buildings like our hotel. It's a digitally integrated energy management system designed to increase energy consumption awareness with real-time performance analysis capabilities. Its installation was seamless and operational within a single day to provide instant energy data access. After its installation, we met with the Schneider Electric team to analyse our first reported energy use trends. We found that using our exact building layout, we could now determine theoretical power

consumption and precisely measure our actual consumption. With this data, my technician, who observes the hotel's daily energy usage, can fine-tune control.

We are currently working on a deployment to improve our system and make it even more efficient. We are also looking to roll out the solution across all our operating teams so they can analyse their usage patterns and support their interpretations for implementing timely, rapid actions.

## Which technologies were used during the renovation?

We deployed PowerLogic PowerTag energy sensors and EcoStruxure Panel Server gateways, which are wireless, state-of-the-art solutions with minimal footprints in our final distribution panel. These devices gather granular energy usage data from various points across our power infrastructure. The ability to move PowerTag meters makes the solution very modular and scalable.

Schneider Electric provided the EcoStruxure Energy Hub solution with energy sensors, metering, and

IoT gateways, enabling real-time data monitoring and analysis in a user-friendly dashboard. This allowed us to visualise and accurately analyse our energy consumption patterns. By identifying equipment that was operating 24/7, we gained clear visibility to focus our energy optimisation efforts and reduce overall consumption. After just two months, we observed that the hot tub in the spa was consuming large amounts of electricity at night when it wasn't in use.

## After the renovation, what were the energy savings results?

While it's still in its early days, it became obvious that a significant portion of our power consumption could be attributed to two key areas: guest accommodations (e.g., spa, swimming pool, guest room HVAC and lighting) and food service operations (e.g., refrigeration and HVAC). This data insight provided a clear direction on which to focus our energy optimization efforts and start taking action to control when and where the hotel's energy was consumed. As a result, EcoStruxure Energy Hub helped us save at least 15%



on energy costs within the first six months. Next, we plan to carry out structural improvements that will allow us to meet regulatory obligations like the Tertiary Eco-Energy Scheme and reduce our consumption by at least 40% by 2030.

## How did the team measure these energy savings?

We wanted to start working on programming and piloting, so we conducted an energy audit, which gave us some clues. It is one thing to want to reduce consumption, but it is also necessary to respect building automation control system (BACS) regulations.

While we have only six months of operation using the EcoStruxure Energy Hub solution, our staff already has a real awareness of usage and is building on that momentum. Within the first two months, we observed considerable consumption outside typical operating hours. For example, after shutting down the hotel's hot tub at night, we learned that the hot tub's integrated ventilation was also not running at night, which led to paint deterioration in the spa's interior.

We began working with our Schneider Electric sales representative to set up a speed variation for the hot tub pumps to reduce consumption while allowing the ventilation to keep running. We are still discovering other areas where we can take action to reduce energy consumption in the hotel.

We discovered that cooking is our second-most consuming area. The observation is a high energy consumption at night; perhaps the refrigeration unit is working too much?

We are now working with our chefs

to reduce energy consumption in the restaurant kitchen, such as turning on the ovens later in the morning. Our energy-reduction efforts are ongoing as we gain more visibility into the Grand Monarque's energy consumption.

After six months of using the solution, we saw a 15% reduction in energy use, thanks to its energy consumption insights and monitoring capabilities. These insights empowered us to make operational changes to reduce energy costs and to continue raising the bar for our sustainability goals. Controlling energy waste and costs requires ongoing analysis and system fine tuning.

## What were the main challenges encountered during the energy renovation?

While the installation was quick and easy, our challenge was getting facility staff familiar with the solution. Another challenge is having staff who can continue to develop energy analysis skills, understand how we consume, and what actions to take to improve efficiency or reduce consumption.

## What advice would you give to other companies considering a similar energy renovation?

Don't hesitate to start with a light energy renovation to optimise the performance of your existing systems. There is a lower upfront investment, minimal disruption, a high return on investment, and an immediate benefit of reducing energy consumption and lower carbon impact. Also, I would encourage others to familiarise themselves with new energy solutions, like

EcoStruxure for Small-Medium Buildings, and to ensure a dedicated individual can analyse these new data reports. Our hotel is now on track to meet Tertiary Eco-Energy (DEET) commitments, a regulatory timetable that aims to reduce energy consumption by 40% by 2030, 50% by 2040, and 60% by 2050.

## What are Grand Monarque's future innovations or energy plans?

Our next steps will be improving the insulation of the building (in the walls and openings), installing photovoltaic panels, and controlling airflow, such as controlling moisture damage, reducing energy losses, and ensuring occupant comfort and health. I am also researching an optimised control solution for building management.

In addition, we plan to include EcoStruxure Energy Hub at the start of future hotel projects so they can analyze energy consumption from the beginning to develop their hotel operations in an energy-efficient and sustainable way.

## A beacon of innovation

**If you're also interested in renovating your facility, discover our proven 3-step process to help you make the all-digital, all-electric transformation.**

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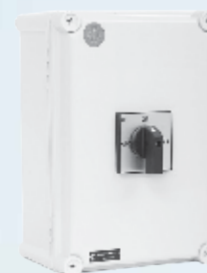
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- Surface box, recessed frame and emergency kit accessories available

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600 X 600  
27W / 2800LM

**ECOPL123CSEG2**  
1200 x 300  
28W / 2800LM

**ECOPL126CSEG2**  
1200X600  
49W / 5000LM



## SLENDER ACADEMY PANEL

- Compliant with Ministry of Education specifications
- 4000K, CRI90 (R9≥60), 3SDCM, UGR19 design
- **DALI** dimming as standard
- **LUMEN** SELECT
- Flicker free design
- IP40, Class II double insulated
- Complete with restraint brackets and Flex & Plug. Available with suspension kit, surface mounted frame and recessed frame.

**SLA06649K19D2**  
600X600  
22W (MIN) / 2500LM  
39W (DEF) / 4100LM  
42W (MAX) / 4300LM

**SLA12349K19D2**  
1200X300  
22W (MIN) / 2500LM  
40W (DEF) / 4100LM  
43W (MAX) / 4300LM

**SLA12649K19D3**  
1200X600  
43W (MIN) / 5200LM  
51W (DEF) / 6000LM  
60W (MAX) / 6800LM

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- **COLOUR** SELECT 3000K / 4000K / 6000K
- Phase dimming as standard
- Center cable entry, Large terminal block for easy installation
- IP54 with removable trim

**ORN16W3/4/6KDG3**  
Ø300mm  
16W / Up to 1800LM

**ORN23W3/4/6KDG3**  
**LUMEN** SELECT  
Ø350mm  
16W / Up to 1700LM  
23W / Up to 2400LM



## ECO BATTEN

- **COLOUR** SELECT 4000K / 5000K / 6500K
- **LUMEN** SELECT
- Flicker free design
- Insect proof removable LED module for easy installation

**ECOBAT404ECCLS**  
4FT / 1200MM  
20W / 2400LM, 26W / 3000LM  
31W / 3500LM, 37W / 3900LM

**ECOBAT505ECCLS**  
5FT / 1500MM  
29W / 4000LM, 37W / 5000LM  
45W / 5800LM, 52W / 6400LM



## STREAMLINE ACADEMY BATTEN

- Compliant with Ministry of Education specifications
- 4000K, CRI90 (R9≥60), 3SDCM
- UGR19 design
- **DALI** dimming as standard
- **LUMEN** SELECT
- Flicker free design
- Insect proof removable LED module
- Center cable entry, Large terminal block for easy installation
- Available with suspension kit

**STA200LS4D4**  
200X1200 4000K  
25W / 2700LM  
29W / 3100LM  
34W / 3600LM  
39W / 4100LM

**STA200LS5D4**  
200X1500 4000K  
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51W / 5500LM  
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69W / 7100LM



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**SHADOWECO30CSLS**  
**LUMEN** SELECT  
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29W / 3300LM

**SHADOWECO50CS**  
47W / 5100LM

**SHADOWECO100CS**  
96W / 11600LM

**SHADOWECO200CS**  
198W / 23700LM

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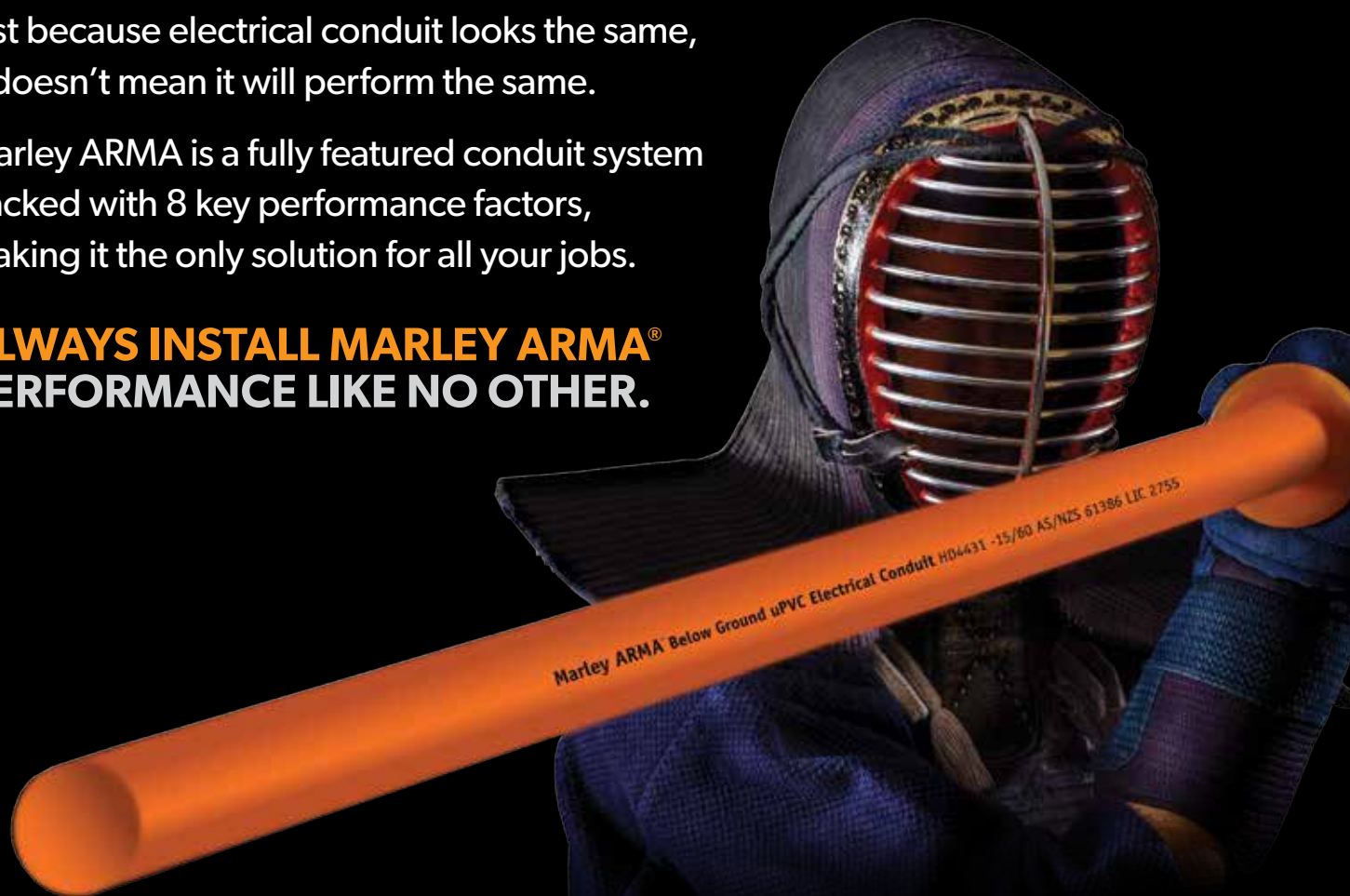
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# THE FAIRWAY FINDER



Many amateur players struggle to hit fairways consistently when hitting their woods.

When the arms 'overly-separate' from the body during the backswing, an incorrect 'out-to-in' swingpath is created for the resulting downswing. An 'out-to-in' swingpath delivers an overly 'steep' angle of attack into the ball at impact. This is especially detrimental when hitting the longer (less lofted) clubs.

A 'too-steep' completed backswing is most commonly caused by a lack of shoulder and hip rotation – instead, the arms excessively separate from the body 'lifting' the club upwards whilst the body remains static.

An incorrect backswing position prevents any chance of performing the correct rotational movement into and through impact on the downswing. In an attempt to lay clubface on ball, players inevitably present an 'open' clubface at impact. This imparts clockwise/cut spin onto the golf ball causing the ball to curve to the right excessively during its flight.

If you suffer from a slice or excessively left-to-right ball flight, try the following practice drill. It might be deemed a 'party piece' however it is a great practice drill to increase your amount of rotational movement throughout the swing when hitting your woods. It will train your arms to



remain closer to your body throughout the swing and deliver a clubface at impact that is aligned to your target.

- Tee the golf ball up slightly higher than normal with your Driver and address the golf ball whilst on your knees (it is a good idea to place your golf towel on the ground) See pic 1
- Complete your backswing by rotating your shoulders in sync with your arms. Your club should remain close to the ground (on a flat swingpath) pic 2
- You should have coiled your shoulders and arms against your hips (pic 3 shows completed backswing)
- From here, simply rotate your arms and shoulders back into impact on the same plane/path as the backswing. I suggest doing this slowly to start with – you are not attempting to hit a 300 yard bomb down the practice area (although with a little practice, you will surprise yourself in how far you can hit the ball from your knees)
- Once you can do this consistently, stand up in your normal address position and make swings with the same rotational shoulder and hip movement. ■





# GIANT KILLER: 1967 MORRIS MINI COOPER S REVIEW

The Beatles. Peter Sellers. Britt Ekland. Enzo Ferrari. James Garner. Steve McQueen. Twiggy. Mick Jagger. What do all these famous people have in common? They all owned Mini Coopers.

In particular, the original Mini Cooper. The car which John Cooper and his Cooper Racing Team transformed from the Alec Issigonis designed economical urban run-about, into a rally and track racing legend.

Issigonis designed the original Mini to be BMC's answer to the influx of "foreign" eco cars arriving in the UK in the aftermath of the 1957 Suez Oil Crisis. His design used a transverse four-cylinder engine, the first

of its kind. He also maximised every ounce of space available. Four adults could sit comfortably with all manner of luggage and carry-on gear.

Its launch in 1959 was the spark, but it wasn't until 1961 that Mini mania really took root thanks to John Cooper. Owner of the Cooper Formula One team and friend of Issigonis, John Cooper could see the potential of the Mini as a successful performance car. After plenty of testing, the Austin Mini Cooper and Morris Mini Cooper was revealed in September 1961.

The 850cc A-Series four cylinder engine's power grew to 997cc and power went up from 25kW to 41kW. The Cooper also featured a pair of race-tuned SU Carbs, a close ratio four speed manual transmission and disc brakes. The latter of which was totally new for a small car at that time.

What followed was a barrage of wins in the British Touring Car Championship against larger and more powerful cars, and probably the Mini's finest hour, outright wins in the Monte Carlo Rally.

Off the track, the new Mini Coopers were hot property for everyone, from middle class workers to the star-studded cast previously mentioned. It was as much a part of swinging London as was Carnaby Street. Plus, when Troy Kennedy-Martin, Michael Deely and Peter Collinson were looking for cars to star in their upcoming British heist film called "The Italian Job"

the Mini Cooper was the perfect choice.

In 1963, a more powerful version of the Cooper was released, the Cooper S. Available as a 970cc and 1275cc, it featured bigger brakes and a strengthened bottom end which would allow more tuning should the buyer want it. The 970cc was not as popular as the 1275cc and was quickly discontinued, leaving the 1275cc to remain in production in MK1 form till the end of 1967.

This 1967 UK built example is one of the last MK1s produced before the MK2 was released in 1968. Being one of the later cars, it features the 1275cc A-Series engine with 57kW and 107Nm of torque. It also had a top speed of 157km/h. Nuts when you think of how small and lightweight the car was. This example actually spent 30 years languishing in a barn down in Wanaka, but given its outstanding condition now, you would never know it.

In typical classic Mini fashion, your spartan surroundings consist of a an instrument pod containing engine temperature, oil pressure and speedometer with fuel gauge. The only additive, aside from heater levers and a manual choke was a parcel tray mounted rev counter unique to the Cooper.

The driving position is also very Mini. By that I mean you are sitting quite upright and looking down on that three spoke wood-rim steering wheel which comes out







at you on an angle. The Cooper embossed wooden gear lever is within easy reach and lankier folk really can find room to move about in here. The concept of small on the outside and big on the inside championed by Issigonis all those years ago was no joke.

A quick turn of that central mounted ignition key and before long, that tuned A-series four-cylinder burbles into life. Having heard this engine note countless times in reruns of "The Italian Job" growing up, needless to say it was pretty cool finally hearing that burble in person. Said burble becomes a throaty bark after a few flexes of your right shoe on the throttle.

Setting off in the Cooper S and the grinning had already started. The MK1 Mini Cooper S' kerb weight of 650kg coupled with that 1275cc A-series four

pot means the MK1 Cooper S is by no means underwhelming off the mark. Its such an eager little car and once you have it warmed up, you get the constant feeling it just wants to go fast all the time.

Sure, you only have four forward gears and you won't be experiencing savage acceleration, but when you weigh next to nothing, the Cooper S is still a brisk motor even for today. Wind it out and while accompanied by that rorty soundtrack, you just fly.

Having those tiny 10-inch wheels stationed as far as possible to all four corners means that you do feel the bumps on occasion. Then again, this is a small trade off when the going gets all twisty-turny. While there were no shopping malls to blast through or rooftops to jump

over, a la The Italian Job, the back roads outside of Balcairn provided an ideal stomping ground.

Left or right hander, the Cooper S corners flat. Attack each bend in third or second gear, plant your right shoe and the Mini hangs on like a cat on shag-pile carpet. In fact, so good is the Cooper S' handling prowess, that a black Suzuki Swift, which happened to be following closely behind, gradually got smaller and smaller after each bend despite no speed limits being broken.

I didn't want this drive to end. As I turned back into Waimak Classic Cars HQ, I was genuinely gutted that I wouldn't be able to take it with me. Needless to say I will be thinking back to this iconic hot Mini for some time to come. ■

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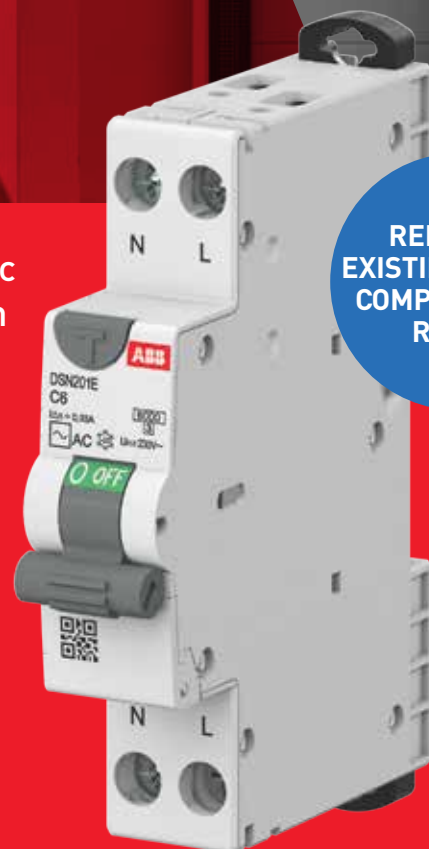
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## New Products



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# NEW BUILDING CODE CHANGES FOR SMOKE ALARMS

**From November 2023 the Building Code Acceptable Solutions for Protection from Fire (C/AS1 and C/AS2) will be amended to make interconnected smoke alarms the minimum fire safety system for new built homes and substantial renovations, citing NZS 4514:2021 – Interconnected smoke alarms for Houses.**



In May 2022, MBIE consulted with the industry on acceptable solutions and verification methods for complying with the Building Code.

The consultation process closed on 1 July 2022 and received overwhelming positive support as the changes are intended to increase the protection of people in residential homes from fire and bring the requirements for fire safety systems in line with the latest industry standards.

## What are the changes?

The Building Code Acceptable Solutions for new builds and substantial renovations will require that all smoke alarms must be powered by either a 10 year long-life battery (sealed and non-removable) or hardwired mains supply, all alarms in the household unit must interconnect with each other - either wirelessly or wired, a smoke alarm must be installed in all bedrooms, living spaces, hallways and landings within the building.

The smoke alarms must meet the following compliance standards; AS3786, BS EN 14604, UL 217, CAN/ULC S531 or ISO 12239. All alarms must contain a hush and test button. Where a kitchen or scullery is separated from the living spaces and hallways, by doors that can be closed, an alarm specified by its manufacturer as suitable for a kitchen must be installed in the kitchen. This may be a heat alarm to avoid nuisance activations.

The changes will have a 12-month transition period ending in November 2024.



All smoke alarms must be either powered by a long-life (minimum 10 years, non-removal and sealed) battery or mains power.



All smoke and heat alarms must be interconnected with each other, this can either be wired or wireless. The CAVIUS Wireless Family alarms connect with each other wirelessly (via Radio Frequency), without the need to run cable between each alarm, and is a simple and quick process.



A smoke alarm must be installed in every bedroom, living spaces, hallways, and landings within the dwelling. On a multi-level household unit, there must be at least one smoke alarm on each level. If the kitchen is separated from the living spaces and hallways by doors that can be closed, a heat alarm shall be installed. This may include the scullery.



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## LED CENTRE LIGHT



**FV160LED-XTS**

**APOLLO MIXED FLOW 150MM INLINE DUCTED EXTRACTOR FAN - WITH LED LIGHT**

- Weiss Apollo High Performance Mixed Flow inline fan
- Includes 2m flex and plug
- Includes surface socket
- Includes 6m of 150mm dia. duct
- Includes LED Lamp and Transformer
- Suitable for a bathroom up to 4m x 5m



High output free air fan performance: 510m³/hr / 141.6l/sec

## POWERFUL YET QUIET DUAL BLADE INLINE FAN

**150MM ARES INLINE DUCTED EXTRACTOR FAN - SQUARE FASCIA**

- Complete kit supplied
- Includes flex and plug
- Can be installed over shower cubicle
- Includes 6m of 150mm dia. duct
- Suitable for a bathroom up to 4m x 4m
- Complies to AS/NZS Standard



High output free air fan performance: 405m³/hr / 112.5l/sec

## EASY-FIT IN-CEILING HEADER FAN

**FV161-EC**

**WEISS 150MM IN-CEILING HEADER FAN - OPEN FLOW GRILL**

- Complete kit supplied
- High performance Electronically Controlled fan
- Suitable for a bathroom up to 4m x 4m
- Suits ceiling installation outside Zone 1
- Includes 3m of 150mm dia. duct



High output free air fan performance: 340m³/hr / 94.4l/sec





# NS series

## Fixed Neutral Screen Cable 0.6/1kV 90°C

**Firstflex NST, NSU & NSUX Series** are part of our Neutral Screen range of cables. Our NSU and NSUX underground Neutral Screen cables have a 3.2mm SPVC sheath for direct burial without added mechanical protection, making them suitable for consumer mains in domestic and commercial subdivisions.

NST Trayscreen® is manufactured with 1.8mm outer sheath, making them flexible to install, easy to strip and lighter weight. Perfect for lighting, power and single / three phase motor supply cables.

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- ✓ SPVC sheath for ease of installation
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- ✓ Flame retardant
- ✓ Metre marked for better length control
- ✓ Oil and chemical resistant



**Available through your local Powerbase Store.**



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**XGT DK0156G302**  
40Vmax Brushless 3-Pc Kit



**Combo Kit includes:** HP001GZ, TW007GZ, GA013GZ, BL4025, BL4040, DC40RA and Makita tool bag

BUY A 40VMAX BRUSHLESS 3-PC (2.5AH / 4.0AH) KIT AND

GET A **XGT**  
**FREE**



INSTANT BONUS 40VMAX XGT 2.5AH BATTERY (BL4025)

*\*Promo period 1<sup>st</sup> March - 30<sup>th</sup> April 2024*



**VC3012MX1**  
30L Wet/Dry M-Class Dust Extractor

- Approved for M Class dust extraction
- Fitted with a new circuit breaker to protect the machine against unwanted power overload
- Push & Clean filter system for easy filter maintenance



**LXT DLX2131SX7**  
18V LXT 2-Pc. (5.0Ah) Kit

- DHP482Z - 18V LXT Hammer Drill Driver
- DTD152Z - 18V LXT Impact Driver
- BL1850B - 2 x 18V LXT 5.0Ah Batteries
- DC18SD - 18V LXT Battery Charger



**CXT CLX251**  
12Vmax CXT Green Laser / Drill driver Kit

- SK700GD - 12Vmax CXT Green 3 x 360° Line Laser
- DF333DZ - 12Vmax CXT 10mm Drill Driver
- BL1016 - 12Vmax CXT 1 x 1.5Ah battery
- DC10WD - 12Vmax CXT Charger



**GCL756 TC**

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**FEATURES**

- Extruded aluminium alloy housing
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- Opal diffuser
- Colour matching 3 MacAdam steps
- High efficiency LED chips 135lm/w @ CRI 90
- LED lifespan: 50000 Hours @ L90/B10, Ta 25°C
- Ta: -25°C to +40°C



**OPTIONS**

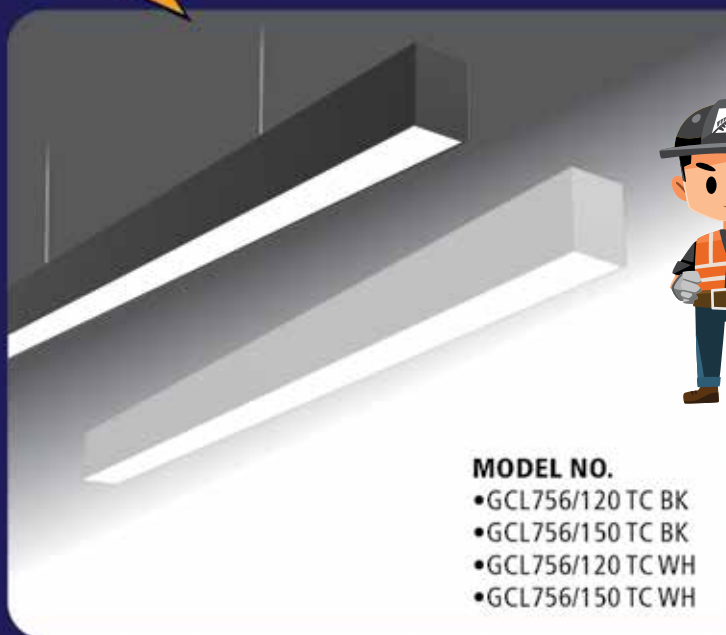
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- GCL756/120 TC WH
- GCL756/150 TC WH

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Manrose CONTOUR Toilet fan delivers compact extraction with a choice of 8 elegant fascias to match the finished application.

- 30W Total Load
- 49 l/s, 175 m³/hr
- Standard Switching
- 0.61 W/I/S Specific Fan Power
- 38 dB(A)



FAN7030

Fascia Selections:



DCT4502  
Round White



DCT4503  
Round Black



DCT4706  
Round LED White



DCT4507  
Round LED Black



DCT4504  
Square White



DCT4505  
Square Black



DCT4508  
Square LED White



DCT4509  
Square LED Black

## 125mm QUIET BATHROOM EXTRACTION

setting the new standard in high performance

The energy-efficient QUIET fans have ultra-high airflow without nuisance noise and are designed to be ducted straight through a bathroom exterior wall.

- 15W Axial Fan
- 68Pa Maximum Pressure
- 54 l/s, 194 m³/hr
- 0.28 W/I/S Specific Fan Power
- 38 dB(A)



FAN7180  
Standard Switching



FAN7181  
Timer Switching

## MILAN BATHROOM HEAT-FAN-LIGHT UNIT

- Stylish ultra slim design
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- Two user-selectable levels of heating - 1100W/2000W
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- Fan air circulating function ideal for summer cooling
- Premium LED light panel with high lumen output - 20W panel, 1500 lm



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**INTEGRATED  
LED FAN HEATER**

FAN7020  
White

FAN7021  
Black

Innovative self-regulating fan heater with dedicated high-performance extraction and high output LED light.



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apprentices, so you can focus  
on your business.**



**ATT** 

Apprenticeship Training Trust

**0800 187 878 | [att.org.nz](https://att.org.nz)**

## NEWS RELEASE

# AN EXCITING TRANS-TASMAN ANNOUNCEMENT

## FOR APPRENTICESHIP TRAINING TRUST (ATT)

The Apprenticeship Training Trust (ATT), one of New Zealand's leading apprenticeship training organisations, has announced it is joining the IntoWork Group, a leading Australian provider of employment, skills, education, and support services.

The merger will see ATT retain its own name and brand, while being able to tap into the resources and expertise of the IntoWork Group.

ATT Chief Executive, Nicola Dashper said the partnership will assist ATT in creating a broader pool of talent, skills and knowledge to further develop and introduce more innovative initiatives into the New Zealand market.

"This is a very exciting move for ATT. IntoWork is an established brand, having been in business for 40 years, with a strong reputation in Australia. We're bringing together the expertise from both organisations that, with blue sky thinking, will allow us to further diversify and innovate. For its part, IntoWork is committed to support ATT to further develop our reach and scope."

Using IntoWork's extensive resources will allow ATT to add further to its people capability. "Providing our staff with enhanced career growth and prospects all within an organisation operating in a similar environment and culture will be of significant benefit to ATT. With pooled resources, we will have access to new technologies, and research and development capabilities so we can

expand our service offering in New Zealand to complement the trade training and vocational sectors in which we currently operate" explained Ms Dashper.

IntoWork Group CEO Poul Bottern said IntoWork is thrilled to welcome ATT to the Group. "Like us, ATT is a values-based organisation that is committed to positive social impact through the provision of employment and training opportunities. By bringing together these two great organisations we'll be able to expand our offering and support more individuals, businesses and communities than ever before, on both sides of the Tasman."

Mrs Dashper says that ATT is very much looking forward to working with IntoWork. "Both organisations have great synergy, and each will bring much to the partnership. Already we have some exciting initiatives underway for 2024 and beyond."

ATT recruits, employs, and places apprentices into 'host' businesses in the electrical, plumbing, gasfitting and drainlaying sectors. In 2023, ATT employed 300+ apprentices located throughout New Zealand. ■



## ATT: THE FULL BACKGROUND

The Apprenticeship Training Trust (ATT) was established in 1991 to provide opportunities for New Zealanders to train and become successful tradespeople. Its purpose is to deliver a regular stream of quality tradespeople to the construction industry.

ATT recruits, employs and places apprentices into 'host' businesses in the electrical, plumbing, gasfitting and drainlaying sectors. ATT calls this the 'group employment model.' In 2023, ATT employed 300+ apprentices located throughout New Zealand.

Host businesses provide practical training that helps to shape their apprentice. ATT provides support in apprentice educational training (such as health and safety) and mentoring. This model also allows for businesses to share an apprentice if workflows are variable; this works particularly well in less populated regions of New Zealand.

It operates nationwide with offices in Auckland and Christchurch. ATT's head office is located Penrose, Auckland. The Chief Executive is Nicola Dashper.

In December 2023, ATT merged with the IntoWork Group, a leading provider of employment, skills, education and support services in Australia. The move will enable ATT to further develop and introduce more innovative initiatives into the New Zealand market.

ATT (Apprenticeship Training Trust) is a registered charitable trust (Registration No CC24200).

ATT is proud to work closely with its industry partners and sponsors: Marley, Powerbase, Tool & Industrial Supplies (TIS), Makita, ICE, Rheem, Plumbing World, Mico, ToolWare, SiteSafe, NZ Safety Blackwoods, Peter Diver (Plumbing/ Drainage/Gas) and Telfers.





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200mm pro high performance, two speed mixed flow fan for supply and extract ventilation. Airflow capacity of up to 830/1050m³/hr.

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### 150MM MIXED FLOW FAN

150mm pro high performance, two speed mixed flow fan for supply and extract ventilation. Airflow capacity of up to 520/650m³/hr.

ELFPRO150



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VHFL-2

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# NEW

# GRÄSSLIN

## Timer Range



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Synchronous  
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1 Channel with No  
Reserve  
17810011

**Tactic 211A**  
Quartz Surface  
Mechanical 1  
Channel with  
Reserve  
27810011

**Tactic 211A**  
Quartz Surface  
Mechanical 1  
Channel with No  
Reserve  
27810021



### TALENTO SMART

**Talento Smart B10**  
Bluetooth Din  
1 Module, 1 Channel

430200051



### TALENTO SMART

**Talento Smart B15**  
Bluetooth Digi Din  
2 Module, 1 Channel  
Fix Off

430200011



### TALENTO

**Talento 111**  
Synchronous Din  
Mechanical  
1 Module, 1 Channel  
with No Reserve  
10600041

**Talento 211**  
Quartz Din  
Mechanical  
1 Module, 1 Channel  
with Reserve  
20300031



### TALENTO EASY

**Talento Easy B1**  
Digi Din 2 Module,  
1 Channel

36100011

**Talento Easy C1**  
Digi Din 2 Module,  
1 Channel Daily/  
Weekly/Astro

36100021



### FM/1

**FM Synchron Module**  
OEM Replacement  
Module for TACTIC  
111A

17610011

**FM Quartz Module**  
OEM Replacement  
Module for TACTIC  
211A

27610011



### TACTIC SMART

**Tactic Smart A**  
Bluetooth Surface  
Digi 1 Channel  
Weekly/Annual/Astro  
438700021



### FMD SMART

**FMD Smart Digi**  
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Module TACTIC  
SMART A  
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Twilight Switches,  
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R777 features a hidden internal switch, flip light source 180° to turn off and hide the fitting. Reverse side has a small indicator light for easy location in the dark.



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**Switch**

- 4W, 160lm, 3000K
- Spot Ø35mm, Base Ø85mm
- 15° beam, 90° tilt, 350° rotate
- Driver incorporated
- Black or White



**S381**  
**Tubular**

- 8W, 650lm, 3000K
- Spot Ø55 x L110mm
- 50° beam, 90° tilt, 350° rotate
- Driver incorporated
- Black or White



**NEW S720**  
**Blink**

- 6W, <735lm
- 2700K, 3000K or 4000K
- D110 x W66mm
- 24V DC, driver sold separately
- Black or White



**R777**  
**Flip**

- 3W, 138lm, 3000K
- D112 x H55mm
- 36° beam, 180° tilt, 355° rotate
- Driver included
- Black, Silver or White

# FOCUS ON PILSNER



With the ravenous heat of the summer now beginning to wind down, but plenty of warm weeks still ahead of us, it's the perfect time to explore a style of beer that shares the quenching drinkability of lager, but with vastly more potential for extra depth and variation.

Taxonomically, pilsner shares almost everything with its progenitor lager. They're both brewed from light malts and bottom fermented at cool temperatures before undergoing lagering, a post fermentation conditioning period that focuses the smooth and clean character of these beers.

Where it deviates is in its possibilities. While a lager has to conform to a fairly minute band of flavours (with a few exceptions), pilsner is free to roam much further.

Consequently, pilsners tend to be more hop focused, expressing a broad and diverse spectrum of flavour from the traditionally herbaceous and spicy Bohemian examples, through to lush and fruit driven new world varieties that have begun to approach hopping levels usually only seen in IPA.

Here in New Zealand, the majority of craft brewed pilsner has diverged so far from its traditional Czech origins that it's now judged in a separate style category entirely, being referred to simply as 'New Zealand Pilsner'.

It was a necessary move too, as side by side these beers would be almost unrecognisable. This new breed of pilsner is typically fruit forward, and these days almost uniformly dry-hopped to further accentuate those notes.

Here are some recommendations to explore that span the pilsner style spectrum, from the traditionally crisp and dry to the lush and expansively hopped modern examples.

## Pilsner Urquell 4.4%abv

Astonishingly (and almost uniquely) the first official pilsner is still available, and widely too. Pilsner Urquell was first brewed in 1842, and while its character has undoubtedly changed over the centuries, it still traces its roots back to that pioneer of the style. As traditional as it gets, with an expressive backbone of malt flavour and the gently floral and grassy notes of classic Saaz hops.

## Emerson's Pilsner 4.9%abv

While it can't quite trace its heritage back to the nineteenth century, Emerson's Pilsner was the first commercially produced here in New Zealand, at the turn of the millennium. Its format has changed over the years, gaining a little %abv and losing its original 'organic' status, but it remains one of our more traditionally styled pilsners. Classically dry and firmly bitter, but with a uniquely passionfruit and citrus driven aroma that showcases the fruitier character of Kiwi hops.

## Panhead Port Road Pilsner 5.2%abv

Port Road Pilsner could be considered the premier model of the hop forward New Zealand style, and certainly the most awarded, routinely achieving a gold medal (if not the trophy) in the annual Brewers Guild Awards. Embracing the most modern interpretation of pilsner, Port Road leans all the way into lush and tropical hops. Deeply aromatic with notes of lychee and sauvignon blanc grapes over a very light malt and mild bitterness. ■





NEW!



## Versatile illumination with the new sLED by Switch Lighting Wall Light

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SSUD510F  
Single  
Up or down lighting



SSUD520F  
Double  
Up and down lighting



### Product Codes

SSUD510F Single  
SSUD520F Double

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### 24C SINGLE-MODE LC CONNECTORS FULLY LOADED



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### DIGITAL CLAMP METER, AC AUTO-RANGING 400 AMP

- Automatic ranging true root mean square (TRMS) technology
- Measures 400 A AC, 600V AC/DC, resistance, and continuity via test-leads, and temperature with thermocouple
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### DUAL RANGE NON-CONTACT VOLTAGE TESTER

- Detects from 12 to 1000 V AC or 70 to 1000V AC with visual and audible indicators
- Lightweight, compact tool with pocket clip provides convenient storage and quick access
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				7	6	9		5
	4		5		3			
				4	7		5	2
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		3		5	2		6	
7			2	3				
		4	9		5			
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