

CAPABILITY STATEMENT

Years of industry experience.

Backed by a highly skilled team.

Our goal is to service all aspects of our customers businesses whilst being true to our values of **Home Safe Always, People over Profit** and **Quality over Quantity!**

September 2021


License number 141260C

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Our Vision



To be the pre-eminent engineering service provider in Australia, while simultaneously creating an environment that encourages self development through our tailored in-house training, Making our people Best in industry 

**We are MEX and we are
BEYOND ENGINEERING**



About MEX

MEX Engineering Group is a leading Engineering service provider.

Starting in 2001 and now employing 24 Electrical Technicians, 2 Electrical Engineers, 16 Mechanical Fitters and 7 apprentices.

Our Accreditations



Global-Mark.com.au®



Global-Mark.com.au®



Global-Mark.com.au®



Global-Mark.com.au®

MEX Timeline

2001

King Electrical Service Pty Ltd contracted to many different businesses including Johnson Electrical Services NSW and Capral Aluminium.

2003

2 Major Projects

- A Kiln Upgrade at Austral Bricks in Bowral
- Capral Aluminium, Bundamba Queensland relocating 2 Extrusion Presses.

2004



King and Martin Electrical Services Pty Ltd was formed to provide growth by joining forces with a competitor + 1st Year apprentice joins the team.

2004

Metal Extrusion Press commissioning in Abu Dhabi for KHK Scaffolding.



2005

Employed our First Tradesman and the first Service Vehicle was on the road.

2006

G. James Extrusion, Glass & Commercial sectors completing Shift Maintenance and Project work across 4 sites.

2007

Purchase first factory unit in Ingleburn NSW with 5 tradesmen working across 24hrs 7days.

2008 - 2010

Electrical Engineering is born and we become the primary contractor to Ullrich Aluminium installing the process line in October 2008/09 + we employ 3 apprentices to learn the industrial industry.

2009

During the GFC we diversified the business breaking into the food and beverage industry and saw our growth double.

2016



Purchase of Hawkesbury Valley Electrics to allow us to better service the commercial sector, including, Goodmans & Hanson Hymix completing plant updates to Pyrmont and Preston sites.

2012

Our staff grows to 25 tradesmen and 3 office staff

2020

Commencement of the build for new on-site training facility.

2017

Upgraded our office for more factory space in Smeaton Grange. Our staff grows to 25 tradesmen and 3 office staff.



2022 - Welcome to MEX Engineering Group.

Good to GREAT

We want our clients to have the best possible experience when dealing with us.

MEX Engineering Group is on a journey and the changes we are making to our business are designed to ensure that the interactions and experiences you have with us are positive.



We want to be the most trusted and pre-eminent solution-based engineering group in Australia, dynamic and empathetic in our approach to deliver outstanding value with laser-like accuracy and efficiency.

Our team

Our team consists of Electrical and Mechanical trades from all industries, which adds up to a major wealth of experience covering almost all aspects of our customers businesses.

All our Technicians are highly experienced in:

High-speed printing
and processing



High-speed bottling
and packaging



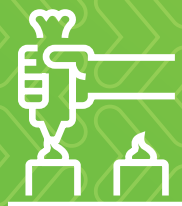
Aluminium
Extrusion



Metal production
and processing



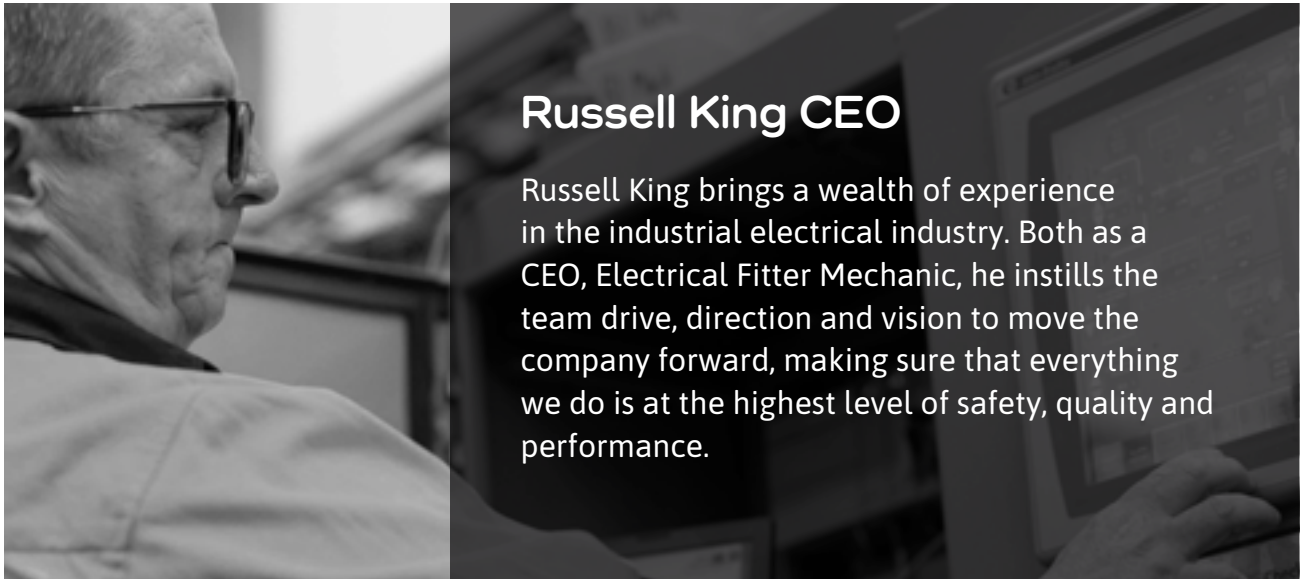
All types for food manufacturing
and processing



Brewing and
Distilling



Key People



Russell King CEO

Russell King brings a wealth of experience in the industrial electrical industry. Both as a CEO, Electrical Fitter Mechanic, he instills the team drive, direction and vision to move the company forward, making sure that everything we do is at the highest level of safety, quality and performance.

Hugh Douglas

General Manager Operation

Hugh has 25 years of experience in the electrical industry. As BDM, Hugh is focused on improving and streamlining systems and processes while accelerating the growth and performance of the business.

Tim Stennett

HSEQ Manager

With an extensive background and qualifications in leadership, business management and human resources, as well a proven track record of coaching team members through the implementation of change.

Daniel Kulakoff

General Manager Service and Solutions

With an extensive qualifications in leadership, & business delivery, Daniel specialises in creating, managing, and delivering world class services to the automation industry that are relevant, efficient, and cost effective.

SOLUTIONS

Project design, strategy & management

For 17 years we have been helping our clients across all facets of their business. Today we can bring all that experience to the table in helping you strategically implement your projects.

- › Data and Communications
- › Systems Integration
- › Design of all LV power and control on site
- › Design of all Machine/System Automation and Control
- › Data and communications
- › Systems Integration
- › Using the latest version of CAD
- › As-Built site drawings
- › As-Built Machine Drawings
- › Reverse engineering and creation of drawings where none exist



Critical Maintenance & Servicing

Our team has the skills and experience to handle mission critical service and maintenance, minimising downtime and lost revenue.

- › MEX Engineering Group is CMSE certified
- › Service and maintenance contracts that support commercial and industrial areas
- › 24hr/7day Maintenance and Breakdown Services
- › Risk assessments

Safety & auditing

From testing and auditing facilities, to ensuring that all machinery meets Australian Standards, our team can help with all your safety and auditing requirements.

- › Thermal Scanning and reporting
- › Under Ground Cable Locating
- › Test and Tagging
- › Electrical Audits
- › Machine Safety Audits
- › Machine Safety
- › Risk assessments
- › Machine safety analysis
- › Machine safety design
- › Machine safety installation

> SOLUTIONS

Improving Efficiency

We can provide a range of options that can help reduce costs and increase efficiency across your operation.

- › High efficiency motors
- › Variable speed drives
- › LED Lighting
- › Power factor correction



Control System Engineering

We have extensive experience and knowledge relating to control system design, hardware & software selection as well as implementation.

- › Specialising in Allen Bradley, Siemens, Omron and Schneider PLC's & HMI's
- › Others supported Mitsubishi, Phoenix Contact, Panasonic, DirectLogic, GE, ABB, Hitachi, and Banner
- › Others supported Phoenix Contact, C-more, Proface, ABB, Banner
- › Citect SCADA, AB Factory Talk View, Wonderware
- › Safety systems REER, Pilz, AB, Sick, Banner, Samos

CASE STUDIES & SERVICE EXAMPLES

LONG TERM CASE STUDY

CHEP

“At circa \$7K p.h, any downtime saved is a considerable saving across the operation of the business”

CHEP is one of the countries largest supply chain providers. CHEP supplies high quality pallets & containers to support the construction, handling and transport industries.

These services play a critical role within every leg and across every trading partner in the supply chain and CHEP’s Plastic Pallet washing site runs 24/7 with Min 3 Extra production shifts most weekends with fortnightly maintenance shifts managed by MEX Engineering Group.

Our team provide 24 hr operational assistance plus 4 overtime weekend shifts to ensure all preventative maintenance is carried out as necessary.

We organise all necessary trades, work lists, sourcing parts and the scheduling of repairs.



We have a team of 3 Maintenance Electricians to maintain the plant as well as organising all necessary parts and trade requirements.

In that time we have controlled the site, downtime has decreased significantly and whilst we can’t provide exact details of the value of MEX Engineering Group’s involvement, at circa \$7K per hour, any downtime saved is a considerable saving across the operation of the business.

Mex has now been brought into CHEP’s brand new site in Kemps Creek, supplying 2 electricians across various shifts to rectify mechanical issues. Our relationship with clients like CHEP is reflective of the value and impact the MEX Engineering Group team can have across many facets of a businesses operations.

LONG TERM CASE STUDY



Ullrich Aluminium

“Our employees, including key personnel, have been embedded into the company for over 20 years”

Ullrich Aluminium is one of Australia’s leading aluminium suppliers with a wide range of aluminium products for industrial, architectural, manufacturing and fabrication design applications.

Their sophisticated extrusion plant in the ‘Hunter Economic Zone’ runs 24/7 and is a critical piece of infrastructure and many of our employees, including key personnel, have been embedded into the company for over 20 years.

Clients like Ulrich find it hard to find this level of experience elsewhere, our accumulated knowledge guarantees good service and unrivaled production insights.

We provide both on-site and remote service with our Sydney team being able to log into key production line technology such as the HMI (Human Machine Interface) to resolve complex issues with the on-site technical staff.

We are also critical in training their in-house staff to maintain their machinery, once again showcasing the value we bring to our client



LONG TERM CASE STUDY

Tooheys (Lion Nathan)

During the Lock down our biggest customer, Tooheys Brewery had to make one of the most significant shifts in their operational approach in their history.

The risks associated with having their team effectively sidelined due to a close contact or bringing the virus onto the brewery site would have huge ramifications for the entire operation.

To resolve the issue, Tooheys moved part of their factory onto a 24/7 roster from a 24/5 thus requiring 1 extra 'trades' team in order to have three 3 individual teams always in play.

Our long term involvement with Tooheys and our extensive brewing/production technology experience meant we were able to cover the extra trade requirements.



MEX meant that we had built in redundancy on hand to ensure our production line wasn't put at risk by COVID-19





CURRENT PROJECT

Tribe Brewery Goulburn

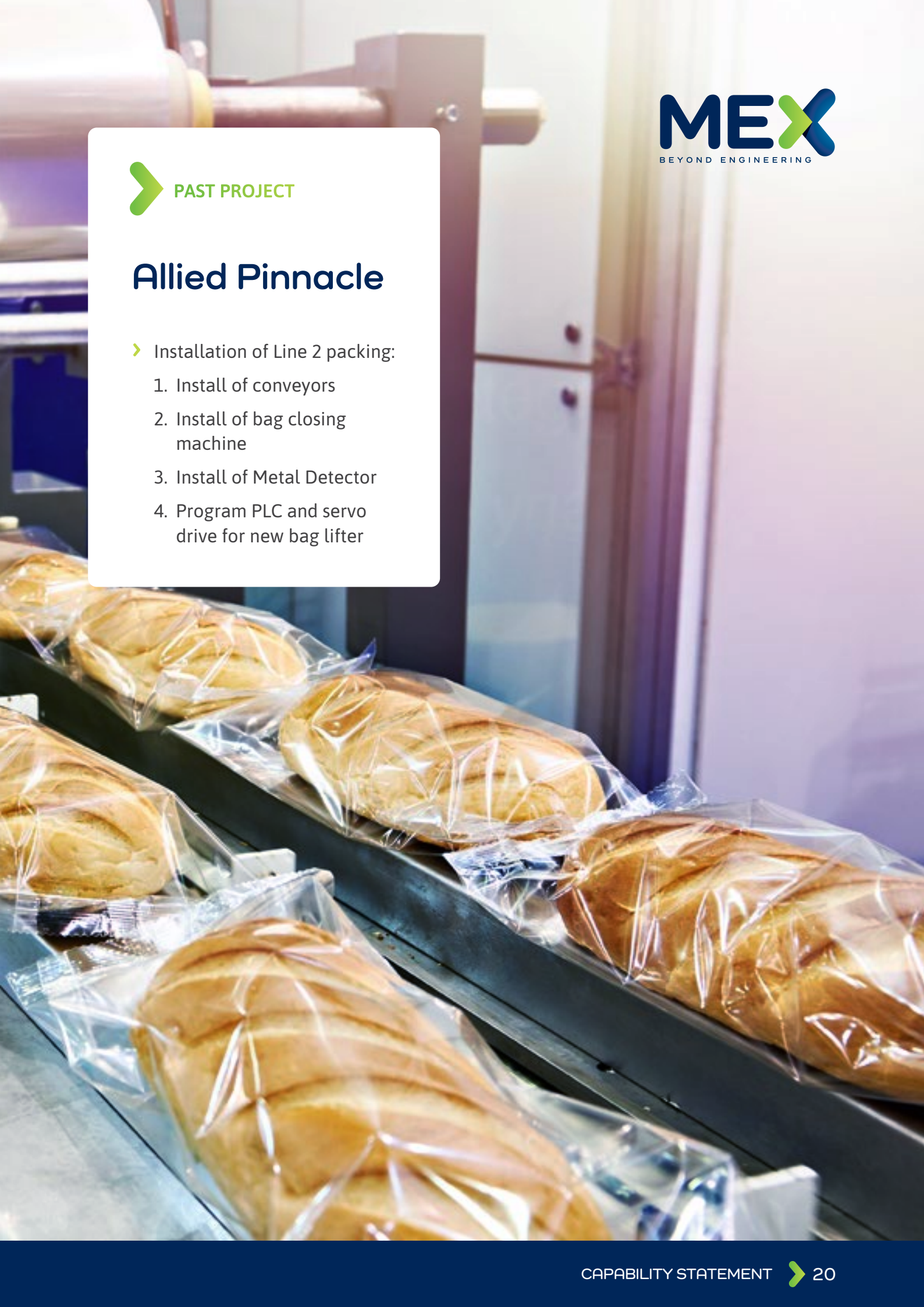
- Installation of cellar 2
- Installation of cellar 3 (current):
 1. Installation of submains to new MCC
 2. Installation of mains to new Distribution Board
 3. ASI i/O to valve manifolds in field
 4. Installation of Distribution board, MCC centre and field terminal
 5. Profi-net comms between panels
- Electrical installation of new keg line



PAST PROJECT

Allied Pinnacle

- Installation of Line 2 packing:
 1. Install of conveyors
 2. Install of bag closing machine
 3. Install of Metal Detector
 4. Program PLC and servo drive for new bag lifter





PAST PROJECT

Tru-Blu Beverages

- › Electrical installation of new High-Pressure Compressor:
 1. Convert existing Allen Bradley Connected Components program to Studio5000
 2. Duplicate code for the new compressor
- › Installation of new water plant in Mittagong:
 1. Entire new control board for tanks and pump controls
 2. Remote monitoring screen, using Ubiquiti wireless network bridge devices from building to building 600 meters
 3. Program PLC and servo drive for new bag lifter





PAST PROJECT

Americold Logistics

- Entire automation upgrades to existing refrigeration plant:
 1. Spec PLC, Automation PC, Networks, panel layout
 2. Program, test and commission new PLC code
 3. Modify, test and commission current WonderWare SCADA
- Both local and remote engineering support
- Electrical support

▶ ONGOING

Shift Coverage

Currently covering Electrical and Mechanical maintenance to

- › Allied Pinnacle
- › Tru-Blu beverages
- › Snackbrands
- › Inghams
- › Various CHEP sites
- › Tooheys
- › Goodman Fielder
- › Kraft Heinz
- › Visy
- › Toyo Tyre and Rubber
- › B & D Group
- › One Harvest
- › Trend Windows and Doors
- › Bluescope



We keep your production line energy efficient, running smoothly - with the maximum uptime.





PAST PROJECT

B&D/BnD

- › Design, install, program and commission on the fly material width detection and calculation for door panel line
- › Line efficiency improvements on panel line, reducing downtime and increasing line through put

 PAST PROJECT

BlueScope Chullora

- › Slitting line safety upgrade
- › Perform safety assessment
- › Scope and illustrate a new safety control strategy
- › Design and construct two new control panel/operator consoles
- › Program and commission new safety PLC, PLC and HMI's



MEX Engineering Group is vital in the ongoing sustainability of our electrical systems and production



JESSE KATER
Bluescope Steel