



COMPANY
PROFILE
+
CAPABILITY
STATEMENT





Founded in 1988 by father and son Ted and Paul Faint, Statewide Motor Rewind has now changed its name to Electro Mechanical Repair (EMR).

In over 26 years of operation and sustained growth they have established a stable market base in the repair, rewind, overhaul and sale of a wide variety of rotating and fixed electrical equipment. EMR has invested in the most advanced equipment available in addition to a dedicated and professional team of trade qualified and experienced staff.

EMR is dedicated to offering its customers the highest quality service possible in every appropriate situation. In conjunction with this, EMR has aligned itself and is compliant with the Electrical Apparatus Service Association (EASA) in order to receive an ongoing flow of relevant industry information and education services for electrical and mechanical equipment and systems.

EMR provides products and services to a wide variety of businesses within Australia. The client portfolio includes WEG and Lowara who are two of the main industry leaders in their fields. WEG is a multi-national manufacturer of electric motors, generators, transformers, variable speed drives and coatings. This company is involved in the electric engineering, power and automation technology areas and has operations in over 20 countries. Lowara is an international company that provides products, services and solutions for the water supply and water pumping requirements of residential, irrigation, building service and the commercial markets.

In addition to these industry leaders EMR is an active member of the Electrical Apparatus Service Association (EASA). EASA, the Electro - Mechanical Authority, is an international trade Organisation in over 60 countries. Through its many engineering and educational programs EASA provides members with a means of keeping up to date on materials, equipment and state-of-the-art technology. EMR joined the Association to remain at the cutting edge of the technological advancements within the industry.

PAUL FAINT - Managing Director

Paul founded EMR in 1988 and has developed the company to the industry leader it is today. Paul's primary goal is the continued distribution of the latest technology, quality repairs and services to all customers of EMR.

Paul is a Trade Qualified Electrician who holds an electrical contracting license. He is recognised within the industry as a leading and innovative business owner, for his advanced technical knowledge in motor rewinding.

**SCOTT LOWE - Works Manager, Director**

Scott is a Trade Qualified Electrician who began his career in electrical rewinding as an adult apprentice with EMR in 1998.

Since then, Scott has become a very valuable member of the company as a director and has played an active role in EMR achieving its service objectives.

As Works Manager, Scott oversees the workshop operations and strategic development, whilst ensuring a high level of customer service is maintained.

**BRET WARNER - Dip (Electronics) Workshop Supervisor, Director**

Bret is a Trade Qualified Electrician with a Diploma in Electronics who began his career as an adult apprentice in electrical rewinding at EMR. Since then, Bret has become a highly skilled and knowledgeable Workshop Supervisor and company director. Bret regularly uses his technical knowledge and experience to effectively mentor our Tradesmen and apprentices.



EMR has established a quality management system that is documented, implemented and maintained. The system is based upon the International Quality Management Standard ISO 9001:2008.

Furthermore EMR are actively working towards accreditation with EASA for Accreditation Program, which complies with AR100.

This system is a result of EMR's ongoing commitment to ensuring customer satisfaction and high quality of work is produced at all times.

ALL TYPES OF PUMPS

From small process centrifugal - Liquid Ring Vacuum - Large Slurry - Submersible - Sewerage.

Preferred repairer for FQM Australia Nickel, Hazleton Pumps.

ELECTRIC MOTOR / GENERATOR

Complete care including Rewinding - Refurbishment - Modifications - Preferred repairer for SIEMENS when local modifications are required e.g. Car Dumpers, Conveyor Drives for all major mines.

ON-SITE

Specialist Labour for Planned shuts - Emergency Breakdown - Condition Monitoring - Real time shaft voltage measurement and remedial action - Drives and Soft Starter Commissioning and training - Site audits for critical spares.

REWINDING

High efficiency electric motors demand proper stripping and rewinding be carried out to prevent loss of efficiency which would otherwise result in higher operating costs for the customer. EMR utilise pre and post core loss testing to ensure the laminations are not damaged through the Controlled Pyrolysis Burn off Furnace cycle. Typically an electric motor will consume the same cost in electricity in just 2 weeks as the rewind and refurbished price. Quality, documented and proven procedures when rewinding should be of the utmost importance.

VIBRATORY MOTORS

Preferred repairer for Schenck and URAS for quality and reliability.

WEG AUSTRALIA

Authorised Service Agent with competencies for Low Voltage Motors - Medium and High Voltage Motors - DC Motors - Drives and Soft Starters - Generators.

Electro Mechanical Repair's policy is to meet or exceed customer requirements in a timely and cost effective manner. To achieve this Electro Mechanical Repair will:

- Meet the requirements of EASA-Q:2000. AR100
- Seek continual improvement in product and service quality
- Set quality objectives that are based on internal and external feedback and review these for continuing suitability at regular intervals
- Maintain the highest levels of integrity in all relationships with customers and suppliers
- Respect environmental and social interfaces with the local community
- Ensure that all stakeholders are fully conversant with this policy and completely understand their respective roles in upholding it.

This policy is communicated to all interested parties including customers, employees, shareholders, suppliers and local communities affected by the Organisation.

ENGINEERING

Hofmann Engineering

MANUFACTURING

Allight Sykes

Metso Minerals

Sanwest

Schenck Process Australia

Siemens Ltd

Sulzer Pumps (ANZ) Pty Ltd

WEG Australia

MINING

Anglogold Ashanti

BGC Contracting

Cape Preston Port Company

CITIC Pacific Mining Management Pty Ltd

Evolution Mining

FQM Australia Nickel Ravensthorpe Mine

Pilbara Manganese

SINO Iron Pty Ltd

Tronox



We encourage employees to actively participate in OHS initiatives to ensure we provide a zero harm workplace. EMR values its employees health and welfare in the workplace and to achieve this it strives to ensure a safe and healthy working environment. We achieve this through the following:

- Clearly communicating our Health and Safety policy to employees and stakeholders
- Ensuring all equipment is maintained and in good working order.
- Maintaining operations that reflect legal, community, social and other standards
- Provide positive leadership and role models that constantly and consistently reinforce our health and safety message
- Conducting regular monthly management and toolbox meetings to raise safety issues and initiatives and ensure all employees are constantly reminded of their obligations to maintain a safe working environment
- Formal and informal on the job training and the motivation for career development of staff to improve their skills and experience and follow safe work practices.

To enhance the safety and health of the workplace, EMR employs experienced Electrical Engineers / Electrical Fitters / Motor Rewind Specialists who are capable of adding value to the workshop team. Reporting to the Workshop Manager, new staff are responsible for the refurbishment / electrical fitting and rewinding of a variety of electric drives / electric motors and pumps as well as assisting in the training and supervision of trainees and apprentices.

EMR staff members are required to be qualified with the following attributes:

- A current and valid electrical license
- Sound technical knowledge
- Broad knowledge of AC & DC motors from fractional H/P to large machines
- Machining and dynamic balancing experience desirable
- Self-motivated with a high attention to detail.

All new staff members are required to undergo a formal company induction on commencement of duties, they are required to wear the appropriate PPE and participate in ongoing toolbox meetings, workshop inspections and other safety matters.

Staff members that are employed enjoy modern workshop facilities, a great team environment and quality work practices using the latest equipment.

EMR must comply with relevant statutory regulations that ensure any chemical spills or dust contaminants are strictly contained and the risk of exposures to air or groundwater supplies are mitigated.



ELECTRIC MOTORS

- IEC General Purpose
- IEC Mining Motor
- IEC Hazardous Area Application
- IEC Brake Motor
- IEC Two Speed
- Single-Phase IEC / General Purpose
- Low and High Voltage Machines
- Single-Phase IEC / NEMA Standard

DRIVES

- Variable Speed Drives
- Servo Drives
- Soft-Starters
- Softwares

CONTROLS

- Motor Protection and Starters
- Capacitors and Power Factor Correction
- Electrical Circuit Protection
- Electronic Relays
- Pushbuttons and Pilot Lights
- Switch Disconnectors

ELECTRIC PANELS

- Control Panels

GENERATION, TRANSMISSION AND DISTRIBUTION OF ENERGY

- Generators
- Transformers



EMR prides itself in being able to offer repairs, rewinding and overhauls of a wide variety of electrical equipment. These include:

- All WEG automation repairs and servicing
- Generators repair, service and load testing
- Motor modifications including operational voltage, frequency, speed, ratings (I.P), mounting, VVVF ready, etc.
- Planned onsite shut down and maintenance
- Preventative and predictive maintenance
- Pump refurbishment, service and tank testing
- Real time testing for shaft voltages and discharges with relation to triple VVVF drive application
- Rewind for 1000 volt & VVVF with Voltron anti-spike wire
- Route Cause Analysis (RCA) reporting
- Specialist machine tool spindle and servo drives
- Variable speed Motor (AC and DC) repair and service
- Vibration analysis, reporting and remediation action
- Vibratory motor repair and service.

In addition EMR has included in its website (<http://www.electromechanical.com.au/services/energy-savings-calculator/>) a calculation “**Payback Tool**” that enables the calculation of the energy savings payback under three different conditions and calculates electricity consumption, running costs and determines the reduction in CO₂ emissions of the motor selected. It is possible to simulate three conditions:

- **New Project** - the system will display the payback time considering the acquisition price difference
- **Replacement of a running motor** - the system will display the time to payback 100% of the new motor
- **Replacement of a failed motor** - the system will display the time to payback the new motor against the rewinding cost.

Note: There may also be government incentives such as rebates or capital allowances to purchase high efficiency products that need to be considered when entering the purchasing prices.

All WEG automation repairs and servicing



EMR operates from a fully equipped 1000sqm factory in Landsdale.

Our workshop houses some of the most advanced technology in the electrical rewinding industry, including a large burn off furnace with recordable temperature logging, a Schenck dynamic balancing machine and a Samatic winding machine to name but a few.

Our workshop is equipped to offer repairs on equipment with motor testing (no load) in excess of 2000KW AC and DC.

EMR delivers world class repairs utilising the latest machinery and best practices following EASA guidelines. Some of the equipment includes:

- AEGIS / Fluke 190-202 scope meter. With computer generated reporting.
- FAG bearing detector III. With computer generated reporting.
- Filtered pressure sensitive spray booth.
- Furnace Engineering VPI 260 Controlled Pyrolysis Burn off Furnace. With computer generated reporting.
- In house machining and fabrication facilities.
- Lexseco 2025E Core loss tester. With computer generated reporting.
- Numerous Electrical and Engineering Measurement equipment.
- Multiple supply voltage and frequency including 1000 amp variable voltage continuous power supply test bay with machine bed anchored for bearing base line recording.
- Samatic automatic coil winding machine with DC Wizz.
- Samatic digital motor tester. With computer generated reporting.
- Schenck 3 tonne Dynamic balancing machine certified ISO 1940/1. With computer generated reporting.
- Simatherm IH090 Induction Heater.





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