



THE TRANSFORMER
PEOPLE

BUILT SMART

FOR LIFE



Wilson Transformer Company

COMPANY PROFILE

wtc.com.au





THE TRANSFORMER SOLUTION SPECIALIST

Established in 1933 with a proud history, Wilson Transformer Company is a leading specialist in the delivery of transformer solutions. In a changing world, organisations are increasingly turning to our specialist skills to meet their technical, safety and environmental challenges.

From our manufacturing base in Australia, we deliver solutions to a wide variety of industries and customers around the world, including electricity generators, transmission and

distribution organisations as well as a variety of heavy and light industrial users. We also meet the often complex needs of the mining and oil & gas sectors.

WORLD CLASS CAPABILITIES

We offer our customers the confidence of proven designs coupled with state of the art manufacturing facilities, robust processes and compliance to international standards.

Within our product range, our state of the art facilities are equal to the best the world has to offer. By using the latest software and technology, we engineer and manufacture our products in clean work environments incorporating strict quality control measures in all critical processes.

By working with our customers and using the knowledge and expertise of our people, we are

able to offer the best solution for the specific application. We complement our products with a range of quality support services in Australia and overseas, provided by our own specialist people, or via partnerships and joint ventures.

Through our world-class capabilities, specialist knowledge and proven reliability, our customers can be assured of a quality outcome.



Proven Experience

For over 80 years, Wilson Transformer Company has built superior quality products and delivered responsive services to many satisfied customers. As a result we have a hard earned reputation for excellence and support of our products.



Your Requirements

Our people take pride in responding to and meeting our customer requirements. From small distribution transformers and compact MV substations to large power transformers and associated solutions, our team delivers the expertise, care and commitment you would expect.



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OUR PROMISE

At Wilson Transformer Company, we have all the attributes you would expect from a world-class transformer solution specialist, but what really makes us different is our commitment to building solutions that are smart for life.

Our transformer products are designed and manufactured to meet your needs, with smart innovation delivering quality solutions that go the distance. As a result, our products are renowned for performing throughout their life with minimum downtime and reduced operational costs.

We believe the **built smart for life** philosophy represents superior value, and this is our promise to you. This commitment is made possible by our experienced team of experts we call **the transformer people**.



Robert Wilson
Executive Chairman



Ed Wilson
Managing Director

BUILT SMART

FOR LIFE

At Wilson Transformer Company, we build our products smart for life. From the integration of genuine innovation to smart responses to customer requirements, each transformer leaves our state of the art facilities with engineered design features that optimise the life of the product.

Our committed people take personal responsibility for quality by applying care and attention throughout the design, procurement, manufacturing, test and site assembly processes. Complemented by well managed operational practices, our solutions go the distance. Our team is also available to assist in supporting your assets throughout their life, including disposal.

As a consequence, our transformers deliver superior value over their life through reliable performance and minimum downtime.

We have built Wilson Transformer Company with the same philosophy. For over 80 years, we have grown our organisation for the long term by selecting the right suppliers, proven materials, applying innovative designs, and ensuring a total commitment to operational excellence. These undertakings have been, and continue to be, fundamental to the way our people work.

We are building on this legacy by looking to the future. We plan to meet the emerging challenges by continuing to foster an organisation that cares for its people and is committed to retaining the skills and expertise our customers and industry expect.

As a result, we are a renowned technical leader in Australia and internationally, with a committed team of transformer people who place their customers' needs first.

So whether your plans are for smart renewable energy, maintaining your network or simply purchasing a transformer for your operation, we invite you to talk to the transformer people. We are building smart for life solutions and this means performance you can rely on.

Wilson Transformer Company, built smart for life by the transformer people.



"Our customers expect leadership and expertise, which we deliver"

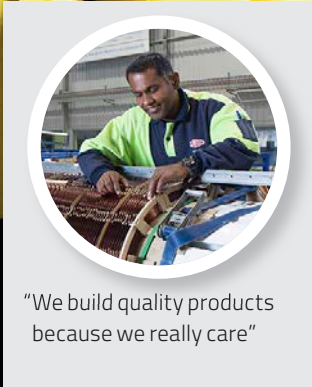


"You'd be surprised where great ideas can come from"

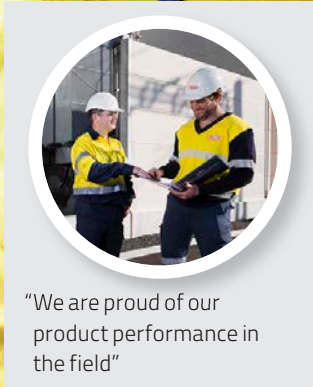


"We enjoy responding rapidly to our customers' needs"

"IT'S EXCITING WORKING IN
AN INNOVATIVE WORLD
CLASS ORGANISATION"



"We build quality products
because we really care"



"We are proud of our
product performance in
the field"



"We are handing on a legacy
of excellence and
innovation"

PRODUCTS

For more than 80 years, Wilson Transformer Company has been designing and building superior quality transformer products and providing life-time management services. We are committed to support our local and global customers by delivering the most reliable and high quality products that meet our customers' requirements. Our transformer products range from 16kVA single phase pole mount transformers and three phase 100 kVA compact MV substations, right up to three phase 550MVA 400kV transmission transformers.

Power Transformers ($\leq 550\text{MVA}$)

Our Power Transformer Business Unit produces customised power transformers ranging in size from 3MVA up to 550MVA 400kV at our Glen Waverley facility. These products form a critical part of the electrical infrastructure in the power generation, transmission and sub-transmission networks and ensure reliable supply of electricity.

Distribution Transformers ($\leq 5,000\text{kVA}$)

Our Distribution Transformer Business Unit produces standard and specialised transformers ranging in size from 16kVA pole mount transformers up to 5,000kVA ground mount transformers at our Wodonga facility. These products form a critical part of electrical distribution networks and ensure reliable supply of electricity to homes and industry.

Special Applications

We manufacture a range of associated products or features for special applications that add significant value to the end customer depending on their own unique requirement. Some Special Applications include:

- Remote switching solution for compact MV substations
- Low Voltage Regulators (LVRs)
- Low fire risk transformers with natural ester fluid
- Dead front pole mount transformers
- Fault Current Limiters (FCLs)
- Ground accessible conservator bags

Special Transformers

We have the capability, capacity, and experience to design and manufacture special transformers for specific applications that are unique in specification and requirement. Some Special Transformers include:

- Rectifier & furnace transformers for industrial applications
- Voltage regulating transformers
- Trackside and on-board rail transformers
- Mobile transformers for rapid response or planned outages
- Quad boosters for balancing loads

Compact MV Substations

Our Distribution Transformer Business Unit produces standard and specialised compact MV substations ranging in size from 100kVA up to 3,000kVA at our Wodonga facility. Our products are configured to meet the customers' requirements, including oil containment requirements, MV and LV switchgear. These products form a critical part of electrical distribution networks and ensure reliable supply of electricity to homes and industry.

Monitoring and Control Solutions

Our Power and Distribution Transformer Business Units offer monitoring and control solutions for power and distribution transformers which can be tailored to each customer's specific requirement. Our range of solutions vary from very simple load recording devices through to full monitoring and control solutions for power transformers. Our condition based asset management solutions maximise the availability and reliability of electrical networks in a cost effective manner.

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Power Transformers



Distribution Transformers



Special Applications



Special Transformers



Compact MV Substations



Monitoring and Control Solutions



WORLD CLASS CAPABILITIES

Wilson Transformer Company has become a leading specialist in the delivery of transformer solutions by building superior quality products and delivering responsive services to many satisfied customers. We offer our customers the confidence of proven designs coupled with state of the art manufacturing facilities, robust processes and compliance to international standards.

Within our product range, our state of the art facilities located in Victoria, Australia are equal to the best the world has to offer. We engineer and manufacture our products in clean work environments incorporating strict quality control measures in all critical processes.

We complement our products with a range of quality support services in Australia and overseas, provided by our own specialist people, or via our partnerships and joint ventures.

Through our world-class capabilities, open working relationships, specialist knowledge, controlled processes, proven reliability and effective supply chain management, our customers can be assured of a quality solution. As a result, we have earned many long term relationships with our customers. The majority of our sales represent repeat business, with most customers having worked with us for more than 5 years.

Design

We have extensive experience in designing power and distribution transformers according to Australian and/or International Standards, including but not limited to AS2374, IEC60076, ANSI C57 and BS171. Utilising the latest design software with in-house developed systems, we design optimum standard and customised products for life time performance and safety.

Manufacturing and Test

Our two world-class manufacturing facilities utilise the latest and best equipment in both power and distribution transformer manufacturing and test.

Manufacturing equipment includes GEORG cut to length lines and core building tables, Tuboly and LAE winding machines, mechanical expandable mandrels, pre-assembly vacuum drying with isostatic pressing for power transformer windings, Micafil vapour phase drying ovens for power transformers, low frequency drying ovens for distribution transformers, vacuum oil processing and filling of all transformer products, and the use of air

skates for moving power transformers up to 300 tonnes with overhead lifting capacity up to 220 tonnes.

For power transformers, test equipment includes an isolated shielded Faraday cage anechoic chamber test laboratory, Haefely Impulse Generators to 1600kV 160kJ, Haefely 500kV AC test system, Haefely 100kV/4000A loss measurement systems and Power Diagnostix Partial Discharge measurement systems.

Services and Support

We have a dedicated team of people for field operations and support services with specialist equipment to respond to the full range of transformer site works. Our manufacturing facilities also provide us with the ability to offer factory refurbishments in Australia, including vapour phase dry outs.

Standards and Compliance

Our products and solutions have an enviable reputation for quality, reliability and safety. Our integrated management system enables best business practices in order to better satisfy the requirements and expectations of our interested parties and improve our overall performance. All our products are designed, manufactured and tested to fulfil our customers' requirements in accordance with applicable Australian and/or International Standards.

Supply Chain Management

We apply a strategic approach to the development of supply chain relationships and partnerships that provides value to both parties via an integrated management process. This practice extends from our material and component suppliers to our customers whom we deliver products and solutions.

As part of the built smart for life philosophy, we focus on world best practices to ensure continuity of supply and superior quality of our products and solutions.





SERVICE AND SUPPORT

Wilson Transformer Company recognises that your transformers are major investments that are designed, manufactured and installed to operate for more than 40 years. Understanding the condition of equipment is essential for strategic planning and efficient asset utilisation. To support this need, we offer a full range of holistic services for transformers, including condition assessment, maintenance, repair and refurbishment.

Our ability to provide cost effective and innovative solutions for transformer life management is proven within the industry and is reinforced by our technical teams and manufacturing capabilities.

We specialise in transformer life optimisation utilising comprehensive transformer audit services to provide accurate condition assessment reports and recommendations for strategic management decisions. We also provide systems for on-line monitoring and control to ensure asset life is maximised.



Capabilities

- Assembly & pre-commissioning testing
- Transformer assessment & maintenance
- Upgrades, repair & refurbishment
- Storage & consignment
- Spare parts
- Oil sampling, analysis & diagnostics

END TO END SOLUTIONS

Wilson Transformer Company provides end-to-end transformer solutions, including product specification, product development, design, manufacture, factory test, delivery, site assembly, site testing, warranty management, condition monitoring, maintenance, refurbishment and asset disposal.

As well as operating two manufacturing facilities in Australia, Wilson Transformer Company also has offices in New Zealand, Singapore and the United Kingdom, subsidiaries in Australia, the United Kingdom and United States of America, and joint ventures in Malaysia, the Philippines and Saudi Arabia.

SUBSIDIARIES AND JOINT VENTURES



Dynamic Ratings Pty Ltd, a wholly owned subsidiary of Wilson Transformer Company, is a world leader in providing monitoring, control and communication solutions for electrical power apparatus.



TJ|H2b Analytical Services Pty Ltd, a joint venture between TJ|H2b Analytical Services Inc and Wilson Transformer Company, is a laboratory that specialises in diagnostic testing and condition monitoring for high voltage equipment.



EWT Transformer Sdn Bhd, a Malaysian joint venture between Wira Digital and Wilson Transformer Company, designs and manufactures distribution transformers and compact MV substations.



United Transformers Electric Company Ltd, a Saudi Arabian joint venture between Bawan and Wilson Transformer Company, designs and manufactures distribution transformers and compact MV substations.

HISTORY AND PRESENCE

From humble beginnings in a small garage in South Melbourne, Wilson Transformer Company has grown to become the largest Australian manufacturer of power and distribution transformers with offices in Australia and overseas. The Company was founded by Jack Wilson, the father of the present Executive Chairman, Robert Wilson. The “Chief”, as he was known to most of his early employees, was a man of vision with the ability to turn ideas into reality when technical experience, equipment and capital were limited. Despite these difficulties, the Company grew steadily by reinvesting its profits in people, technology, assets and processes.

Hundreds of thousands of our transformers are in service around Australia and other parts of the world, including the Antarctic, Africa, China, Fiji, India, Indonesia, Malaysia, New Zealand, PNG, Saudi Arabia, South Africa, Thailand, United Arab Emirates, United Kingdom, United States of America and Vietnam.



Continuing the tradition Ed, Robert and James Wilson

Visit our website at wtc.com.au for a full chronological history of the Company and some project case studies.

VALUES

When Jack Wilson founded Wilson Transformer Company in 1933, he had a vision to establish a high performing business that invested in its people, technology, assets and processes.

Today, after more than 80 years WTC has these same values that have differentiated us from others, not just in Australia but internationally. These values are illustrated by our core values.

Our Core Values:

Care	Demonstrate care for each other, the Company, the environment, our customers, suppliers and the community at all times. Consider others when making decisions.
Customer Focus	Understand our customers (both internal and external) so that we can help them succeed.
Valuing People	Develop all employees to achieve their full potential in an empowered environment.
Integrity	Earn trust and respect by doing what you say with open and honest communication.
Commitment	Demonstrate enthusiasm, flexibility and responsiveness to achieve quality outcomes.
Innovation	Demonstrate technical, operational and commercial leadership. Challenge the present state by proposing, developing and implementing new and approved methodologies and ideas.
Competitiveness	Maintain a focus on cost, quality, delivery and continuous improvement.
Unity	Encourage cohesiveness and enhance team work by aligning goals and openly sharing knowledge and information.

VISION

Zero Harm, Zero Waste, Complete Customer Satisfaction
... Always

OUR MISSION

Our mission is to build world-class transformer solutions that meet the requirements of our customers and deliver superior value through quality, reliability, safety and technical leadership.

We will achieve our mission by continuing to:

- Invest in our people, technology, assets and processes
- Improve our safety and environmental practices
- Utilise our capability, expertise and experience to enhance our global presence
- Partner with organisations who share similar core values that support our commitment to complete customer satisfaction

Wilson Transformer Company

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