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Profile

The Australian Trade and Investment Commission – Austrade – contributes to Australia’s economic prosperity by helping Australian businesses, education institutions, tourism operators, governments and citizens as they:

› develop international markets
› win productive foreign direct investment
› promote international education
› strengthen Australia’s tourism industry
› seek consular and passport services

Austrade helps companies around the world to identify and take up investment opportunities in Australia as well as to source Australian goods and services.

Our assistance includes:

› providing insight on Australian capabilities
› identifying potential investment projects and strategic alliance partners
› helping you to identify and contact Australian suppliers.

In the rail sector, Austrade actively promotes Australia’s diverse, innovative, innovative and world-class rail industry globally.

We help showcase Australia’s capabilities in all aspects of rail including heavy haul, freight, light rail and metro.

Australian innovation is on show in technology, equipment, consulting, maintenance and operations, monitoring, training, and education, R&D, safety standards, engineering, Artificial Intelligence and systems integration.
Australasian Railway Association

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Profile

The Australasian Railway Association (ARA) is the peak body for rail in Australasia, representing all sectors of the rail industry. We represent an array of rail organisations, including private and public, passenger and freight operators, track owners and managers, manufacturers of rolling stock, suppliers, construction companies, consultants and all other organisations contributing to the Australasian rail sector.

We provide a coordinated and unified voice on relevant issues of national importance to the rail sector. The ARA engages political leaders at both the state and federal level in forward-looking discussions around industry potential. We bring about key policy reform to effectively enhance Australia’s productivity, economic and social prosperity, as well as its international competitiveness.

The ARA creates an avenue for industry to connect, knowledge-share and work together to achieve greater results for rail. As Australasia’s leading voice for rail, we facilitate, coordinate, promote and communicate on behalf of the industry. We work to create an environment for the rail industry to prosper and to ensure a better rail future for all.
AUSTRALASIAN RAILWAY ASSOCIATION

We’re the peak body representing the rail industry in Australia and New Zealand

We have over 140 members and represent an array of rail organisations, including private and public, passenger and freight operators, track owners and managers, manufacturers of rolling stock, construction companies and all other organisations supplying and contributing to the Australasian rail sector.

We advocate on behalf of the rail sector about issues that impact us and engage with all tiers of government to drive policy reform.

On average we hold 40 events and courses per year, with over 4,000 individuals attending.

We strive for a prosperous rail future.

Join us to make for a stronger rail sector

www.ara.net.au
**New South Wales Government**

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**Profile**

**NSW DEPARTMENT OF INDUSTRY**

The NSW Department of Industry leads the state government’s contribution to making NSW a prosperous state recognised as a place of opportunity – a place where people want to live and work and where businesses choose to invest and grow.

- The NSW Department of Industry creates the conditions that support the growth of industries that supply domestic and international markets.

- NSW is fast becoming a base for the most valuable and skill-intensive parts of the production process. This includes high-tech design and development, innovative research, product customization, and client-focused support and repair services.

- NSW is home to highly innovative, competitive and world-leading manufacturers that are vital to the diversity and strength of the Australian economy.

- The NSW Government is committed to growing the state’s advanced manufacturing sector by encouraging growth and investment in existing manufacturing businesses, as well as attracting new investment.

- Manufacturing companies in NSW increasingly focus on high-value and high skill services, particularly in pre- and post-production processes, such as research and development and design.

The New South Wales Government is committed to attracting and growing business, creating jobs and improving the ease of doing business in New South Wales.

**TRANSPORT FOR NSW**

Transport for NSW’s role is to lead the development of a safe, efficient, integrated transport system that keeps people and goods moving, connects communities, and shapes the future of our cities, centres and regions.

**Transforming transport**

We’re playing our part to transform NSW by delivering the infrastructure and services NSW needs today and engaging with government, industry and the community to develop a clear strategy for the future.

**Delivering every day**

While we build the transport system of the future we stay focused on getting it right for customers day-to-day. Continually improving the things our customers care about and managing a safe, sustainable and integrated transport system that connects our customers with people, places and opportunities.

**Leading innovation**

We’re applying innovative thinking and ways of doing things to all aspects of transport. We use technology to make transport better for our customers and work openly in partnership with others to make the most of opportunities.

These challenges and opportunities highlight the importance of our choices today and call for bold, new ideas that ensure the productivity, liveability and sustainability of our communities.
SYDNEY AND NEW SOUTH WALES
AUSTRALIA’S HOME FOR ADVANCED MANUFACTURING

OUR STRENGTHS

- New South Wales is Australia’s economic powerhouse, with an economy worth more than $500 billion and 27 years of uninterrupted economic growth.
- Investing an unprecedented $87.2 billion in infrastructure programs across the state.
- Generating almost 30% of Australia’s total manufacturing output, with a manufacturing workforce of around 253,000 people.
- NSW population expected to grow to almost 10 million people by 2036.

INVESTMENT OPPORTUNITIES

- Emerging industry sectors with advanced manufacturing capabilities include construction technologies, aerospace, transport and mobility, and energy technology.
- Highly innovative, competitive and world-leading manufacturers.
- $6.76 billion generated in the manufacturing sector through research and development.

BUSINESS OPPORTUNITIES

- Expert design services and after-sales advice on production maintenance.
- High-value and high-skill services in pre- and post-production processes, including concept design, modelling and prototyping.
- Growing reputation for high-tech design and development, innovative research, product customisation and client-focused support and repair services.

COME AND TALK TO US AT THE AUSTRALIAN PAVILION

New South Wales Government
AUSTRALIA

industry.nsw.gov.au/manufacturing
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Profile

Victoria is the economic powerhouse of Australia, generating 24 per cent of gross domestic product (GDP) from just three per cent of the nation’s landmass.

Victoria's capital city, Melbourne, has been named the World's Most Liveable City for each of the last seven years and will be hosting the UITP Global Public Transport Summit in 2021 – the first time in the Southern Hemisphere in 28 years.

As part of Victoria’s Rolling Stock Strategy, Trains, Trams and Jobs 2015–2025, the state has committed to a 10-year pipeline of new, locally manufactured trains and trams.

Annual patronage on trains and trams is expected to grow by nearly 50 per cent in this period – on top of 42 per cent from the previous decade.

In 2031, more than one billion passengers will be travelling on Victoria's rail and tram networks.

Managing Victoria's growth – while maintaining its world-renowned standards of liveability – is a key priority for the state.

Future rolling stock planning is now underway, offering opportunities for suppliers to be involved in major train and tram projects – and to partner with the best in Australia's rolling stock supply chain industry.

Victoria is the only Australian state to build both trams and trains, with multi-national suppliers including Bombardier, Alstom and CRRC all located in Victoria.

With a vibrant and diverse transport technology sector, Victoria has an integrated supply chain – including engineering, design and new technology development.

Melbourne also has one of the highest rates of research collaborations in the world, with industry partnerships focused on developing and commercialising advanced manufacturing technologies.

We can help companies with market entry support and connections to industry contacts and local suppliers/partnerships through our network of overseas offices.

With more than 80 staff engaged offshore, supported by a specialist Victoria-wide team, the Victorian Government has the largest, and most active, network of international offices of any Australian state or territory.

Our support includes:
- connecting businesses to in-market opportunities
- facilitating in-market connections with buyers and business leaders
- supporting business matching activities at major conferences and events
- providing market intelligence and industry insights.

Be part of the journey.
invest.vic.gov.au
transport.vic.gov.au
Victoria’s Rolling Stock Opportunities

Victoria is making a record investment in public transport for a fast growing population – forecast to reach more than 10 million people in 2051.

Future rolling stock planning is underway, providing opportunities to be involved as we deliver new trams and trains for Melbourne and regional Victoria.

BE PART OF THE JOURNEY

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Downer is the leading provider of integrated services in Australia and New Zealand. We design, build and sustain assets, infrastructure and facilities.

With a history dating back over 150 years, Downer is listed on the Australian Securities Exchange (ASX) and New Zealand Stock Exchange as Downer EDI Limited (DOW). We are an ASX100 company with annual revenue of over A$12 billion. Downer employs over 56,000 people across more than 300 sites, primarily in Australia and New Zealand but also in the Asia-Pacific region, South America and Southern Africa.

Transport and infrastructure services
Downer has a long history of delivering multi-disciplined, integrated transport and infrastructure projects under a variety of contracting models. We are recognised for safely delivering complex turnkey solutions and achieving whole-of-life asset management outcomes. Our services include design, build, operation and maintenance of rolling stock, depots, signalling, track and station works, roads and bridges. We work closely with customers to develop reliable mobility solutions, maximising asset life and resilience. We integrate innovation such as on-demand transport and autonomous vehicles, answering to the evolving needs of local communities.

Downer is currently delivering some of the largest projects in the Australian rail network including Sydney Growth Trains, Melbourne High Capacity Metro Trains, and Melbourne Light Rail Network Operations and Maintenance.

Other capabilities include integrated transport solutions, road network management and maintenance, facility maintenance, utilities services and renewable energy technologies.
Bridging mobility needs with integrated transport solutions

visit www.downergroup.com
Profile

At John Holland we’re up for the challenge of improving lives. We find solutions to complex challenges, and transform communities to make them easier to move around, more connected and better to live in.

Working in Australia, New Zealand and South East Asia, our experience spans industries and sectors including infrastructure and property development to rail and building.

This depth and breadth of offering means we always go further in serving the needs of our customer. For us, it’s not about what we do, but why we do it and who will benefit.

We believe in sticking right beside our customers through every link of the project lifecycle to make sure the future of our cities and regional centres are as bright as they can be.

Our parent company, CCCI, is a wholly owned subsidiary of China Communications Construction Company Limited (CCCC), one of the world’s largest infrastructure construction companies. Globally, CCCC is well recognised for its technical expertise and execution of complex infrastructure including bridges, high speed rail, deep water port development and social infrastructure.
We deliver rail infrastructure and services to get you home faster and safely. Our experts in engineering, rail, tunnelling, maintenance and operations, deliver rail solutions to reduce travel times, connect communities and make the distance between us seem smaller.

Our integrated service offering spans the entire project lifecycle, from origination and financing, to planning, design and construction, and operations and maintenance. Whether it is heavy rail construction and maintenance, or the detailed planning required for urban light rail upgrades, we work in live operating environments and know how important it is to keep cities moving during construction, maintenance work and upgrades.

Our experience includes Canberra Metro, Sydney Metro Northwest, Metro Trains Melbourne, Alice Springs to Darwin Rail Link and Mernda Rail extension. John Holland also operates and manages CRN – Australia’s Country Regional Network.

johnholland.com.au

Making cities smaller.
Metro Trains Australia (MTA)

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Profile

MTA is a consortium of rail and construction businesses, harnessing the strength and experience of shareholders MTR Corporation (60%), John Holland Group (20%) and UGL Rail (20%).

MTA is committed to delivering a superior travel experience by rail. With a proven track record of partnering effectively with both the public and private sectors, the company is uniquely positioned to advance modern rail networks with continuous improvement in safety, customer service and reliability.

MTA provides critical guidance and support to Metro Trains Melbourne (MTM), its high performing subsidiary and operator of the metropolitan railway in the nation’s fastest growing capital city. MTM operates and maintains a large network spanning 15 lines, over 200 stations and more than 800km of track. MTM is also working within key alliances to deliver major government-funded works packages such as the Level Crossing Removal Program and Melbourne Metro Tunnel.

MTA also works closely with Metro Trains Sydney (MTS), an entity powered by our shareholders. MTS is the operator of Sydney Metro Northwest, a new line that will deliver eight new railway stations to an important high growth corridor in Sydney. When completed, trains will run every four minutes in the peak on the first fully-automated metro rail system in Australia.

Meanwhile MTA continues to enhance communities by investing in the passenger experience, innovating for a digital future and providing opportunities in assurance, education, training and job creation. MTA remains committed to advancing the scope and performance of public transport in Australia.
Metro Trains Australia is committed to advancing the scope and performance of public transport in Australia. Drawing on a wealth of experience and expertise in rail operations, with a proven track record of partnering effectively with both the public and private sectors, we are uniquely positioned to manage modern rail networks with continuous improvement in safety, customer service and reliability.

TALK TO US ABOUT:
New rail business opportunities – www.metrotrainsau.com
Sydney Metro Northwest – operations and maintenance
Metro Academy – registered training organisation
Innovating for a digital future in rail including VR/AR

An MTR, John Holland and UGL Company
TTG Transportation Technology (TTG)

Profile

TTG are a global technology company who provide advisory services and operational software systems and solutions to railway owners and operators that maximise real time operational performance and, efficiency by reducing energy consumption and, keeping trains on-time. We partner with OEM of rolling stock and train control systems to deliver fully integrated solutions.

TTG are playing a leading role in providing Connected Driver Advice technology (C-DAS) to its UK and European customers as part of the railway innovation landscape, to move to a fully digital railway environment.

TTG are the leading supplier of DAS Systems in the UK and have state of the art deployments with key customers including, SNCF, ARRIVA, FirstGroup, Abellio and including DAS/ATO integration on high speed trains in Spain, in partnership with Bombardier.

TTG global markets include Australia, New Zealand, India, China, UK, Europe, Ireland, and SE Asia spanning:

- Over 5,000 fixed and tablet DAS installations
- Operating 50,000 track kms
- Servicing 10 countries
- World’s 1st DAS/ATO integration

Our core Products are:

ENERGYMISER®
Provides real-time advice on how to control a train to minimise energy use while maintaining the required schedule, automatically factoring in upcoming terrain, speed limits and train performance while adapting to changing conditions.

SCHEDULEMISER®
Schedulemiser® enables timetables on demand for optimisation for planning and near real-time decision support.

TTG ADVISORY
TTG Advisory is a division of TTG that provides advice to railway owners and operators on operational efficiency and technology strategies with a focus on network performance and energy reduction. TTG can provide full simulation services and cost benefit analysis, business case development and technology road mapping.
The Leaders in Energy Efficient Driving Technologies

- Providing fully integrated and connected driver advice systems
- Real time train schedule optimisation systems
- Advisory services on timetable performance optimisation
- Advisory services on energy efficient train operations

REDUCE OPERATING COSTS
IMPROVE TIMETABLE EFFICIENCY
MEET OPERATING PERFORMANCE AND ENVIRONMENTAL TARGETS

Over 5,000 fixed and tablet DAS installations
Operating 50,000 track kms
Servicing 10 countries
Worlds 1st DAS/ATO integration

ttgtransportationtechnology.com
PARTICIPANTS
4Tel Pty Ltd

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Profile

4Tel specialises in digital railway solutions. As the principal technology provider to a regional railway operator, 4Tel has developed a suite of products to increase efficiencies, situational awareness and safety. All systems use the internet-of-things for a constantly connected network which enables us to respond quickly for optimal network performance. The products 4Tel is best known for are its Virtual-Block Train Control system using Electronic Authorities, and the ETW App which uses mobile phone app technology to interlock track worksites into the same train control system. Looking to the future, 4Tel is working with the University of Newcastle (Aust) to create an in-cab Artificial Intelligence system using deep machine learning as an advanced driver advisory system, reinforcing 4Tel’s core strategy of ‘Smart Trains, Dumb Track’.

4Tel’s digital railway suite includes:

› A communications-based train control system using digital electronic authorities (4ASW);
› An on-board computer and communications system (4MTU), with the option of an advanced driver advisory system including camera interfaces and an artificial intelligence processor (HORUS), and an option for automatic train protection interface to a locomotive’s braking system (EN4CER);
› A mobile tracking system for tracking any mobile user including trains, track vehicles, road vehicles, and staff (4TRAX);
› An infrastructure monitoring system using an Internet-of-Things architecture (4SITE);
› A rail vehicle detection system for centralised train control (4CTC);
› A worksite protection system with track-side beacons and user Apps (4WPS/4PTW);
› An advanced passenger information system for modern displays and public help points (4PIDS);
› An electronic assets management system for licencing and inventory control (4ASSETS), and
› A complete train planning, access, reporting and billing system (4ABS), amongst other systems.

Come and visit us at the Australian Railway Industry Pavilion (Hall 10.2, Stand 212) or at the 4Tel booth (Hall 7.1b / Stand 305).
ABB Australia Pty Limited

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**Profile**

Rail and ABB Ability™ Ellipse®

ABB is a world leading independent supplier of innovative and reliable technologies to vehicle manufacturers, railway operators and system integrators. ABB provides a comprehensive offering for rolling stock and infrastructure as well as FACTS technologies, network management solutions and SCADA systems. In addition, ABB’s offering covers asset management solutions and lifetime service support, including maintenance and retrofit.

ABB Ability™ Ellipse® is ABB’s solution for connected asset lifecycle management that unifies world-class functionality for enterprise asset management (EAM), workforce management (WFM), and asset performance management (APM). Ellipse facilitates the orchestration of priority, process and people across an organization, enabling the management of physical assets across the entire asset lifecycle. From strategy through execution, Ellipse is a robust and comprehensive business and technology solution.

ABB is a proven and experienced partner to the rail industry, committed to ensure safe, reliable and environmental-friendly transportation.

For more information, explore these links:

› ABB Australia corporate profile  
› ABB Enterprise Software for transportation  
› ABB Survey shows rising importance of asset management for rail (Survey report)  
› ABB Ability Ellipse for Transport (brochure)
Profile

Transport Canberra is responsible for public transport in Australia’s capital city. It is a division of the Australian Capital Territory (ACT) Government.

Canberra’s population is projected to increase significantly in the coming years. To meet that need, Transport Canberra is implementing a new, easy to use, frequent and convenient integrated public transportation system.

Rail forms an essential part of Transport Canberra’s vision for the future. Rail activities in Canberra include:

› Light Rail Stage 1 – Linking Canberra city to its fast growing northern suburbs, this 12km route is currently under construction with operations due to commence in late 2018. This is being delivered as a public-private partnership with a 20 year operating concession;

› Light Rail Stage 2 – Passing areas of national significance, this iconic project will link Canberra’s City with its established southern suburbs. This project is presently in development phase; and

› Canberra to Sydney Faster Rail – Canberra is not only the nation’s capital, but is also strategically located between Sydney and Melbourne. Rail activities in the Canberra to Sydney corridor are an important focus of the ACT Government.

Canberra is a progressive and investment-friendly city with strong environmental and social credentials. Transport Canberra provides essential services that maintain Canberra as one of the world’s most liveable cities. By integrating rail with other forms of public transport and new ticketing systems, Transport Canberra is at the forefront of preparing Canberra for the future.
Profile

Airandé is an Australian company with a European Branch Office in Belgium.

Airandé offers to a broad range of sectors including transportation a complete range of products and devices for surface disinfection and air purification.

Airandé’s products are biodegradable, ecologically and environmentally friendly, safe for users, and easy to use and maintain.

Airandé’s product development has benefited from collaboration with Universities world-wide as well as with leading microbiologists and disinfection scientists.

Airandé offers a complete and original concept for the management of disinfection ranging from air purification through to the cleaning of surfaces, the management of biofilm, and the final disinfection of surfaces.

Use of the Airandé system can help reduce the risk of passenger infection by eliminating bacteria, viruses, and spores from the air and surfaces in passenger compartments and in on-board kitchens and lavatories.

Airandé listens to the needs of users in all potential areas of its products’ application. This means that the feedback of users is critical to Airandé’s ongoing innovation and product development.

Airandé’s R&D is focused on innovation and continuous improvement in order to find simple, effective solutions and developing protocols to help its customers deal effectively, easily, and quickly with the problems of bacterial contamination.

Airandé’s products do not contain aldehyde, chlorine or quaternary ammonium and do not release any VOCs.

Airandé’s product range delivers significant ‘value-add’ to its customers across many sectors. By way of example, in the transport of passengers, Airandé’s approach can help:

- Reduce infection and cross-infection
- Eliminate from passenger compartments, food storage and preparation areas, and on-board lavatories all dangerous and sometimes life-threatening contamination including salmonella, listeria, and norovirus
- Help operators reduce the risk of exposing passengers and staff to bacterial and viral contamination by ensuring that passenger transportation occurs in impeccably clean conditions
- Provide a significant point-of-difference to manufacturers and operators by being able to claim ‘healthy’ transportation
Aries Rail

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Profile

Aries Rail is Australia’s leading supplier of Road Rail Vehicles and Track Equipment.

We design, manufacture and install our own Aries Hyrail brand of Road Rail Vehicles.

We are also the Australian and New Zealand agents for:

- **Colmar**: Excavators, shunters and track equipment
- **Holland**: Flashbutt Rail Welders
- **Lesmac**: Temporary track access ramps and rail hardware
- **Neotec**: Overhead access and wiring equipment
Australian Rail Technology (ART) is an Australian owned electro-technology company providing industry leading systems and services to the rail infrastructure and rollingstock sectors.

We provide a range of technologies from smart Condition Monitoring, Traction Power control including overhead wiring and automated earthing systems, onboard power systems and power distribution, Electronic systems design including instrumentation.

ART designs and develops its own systems and components, while also representing industry leading suppliers from around the globe. Harnessing the power of this supply chain affords our customers the best available technology and service.

ART’s suite of condition monitoring solutions has been developed using our own Telemattica® data platform, providing flexible, ready to deploy condition-based monitoring solutions for rolling stock, infrastructure and signalling systems.

We continue to develop leading solutions for onboard power control and distribution systems with improved packaging and form fit, reducing the footprint of equipment as energy requirements continue to increase.

Our infrastructure solutions include HVDC isolators, remote isolation systems, and an exhaustive range of industry leading hardware components. ART is a supplier of choice for HVDC and HVAC traction wiring systems.

Today ART continues to lead the way delivering customer focussed solutions. In summary, our areas of expertise are:

- Engineering and innovation
- Specialty manufacturing
- Managing projects and logistics
- Rolling stock electronics, power systems, electrical and spares
- AC & DC isolation including remotely control systems
- Rail signals test equipment
- Service and repair of electrical, electronics and rollingstock systems

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Profile

In a world where connectivity is essential to our daily lives, BAI Communications designs, builds and operates communications infrastructure – cellular, Wi-Fi, broadcast, radio and IP networks – connecting communities around the world.

With our state-of-the-art robust communications systems, governments and businesses can unlock new revenue streams and fast-track the commuter economy.

In New York and Toronto, we enable more than 7 million daily subway commuters to shop, share, stream, earn and learn through our cellular and Wi-Fi networks.

In Hong Kong, commuters on the MTR collaborate, create and stay connected thanks to our trusted expertise (gathered over 20 years) in designing and delivering high-quality networks in confined and complex transport systems.

In Australia, we own and operate one of the most extensive transmission networks in the world, delivering 59 million broadcasting hours to 99% of the population. In times of crisis, national broadcasters rely on us to maintain the connection with Australians – flood, fire, cyclone or other natural disaster – and emergency services rely on us to help keep them informed.

Working closely with the New South Wales State Government, we are responsible for the operations and maintenance of the Government Radio Network. The network services 42 agencies – including public safety – across the state.

In both Australia and the UK, with our global network of experts paired with local in-depth knowledge, we are working with industry leaders to explore the role of technology in the transport system of the future.

BAI is in the position to create richer commuter experiences and smarter cities.
Bendigo Rail Workshops

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Profile

BRW is a Quality Accredited and highly experienced rail vehicle servicing and maintenance provider, operating throughout Victoria and New South Wales in Australia. We provide maintenance, servicing and repairs for both passenger and freight rail vehicles and all facets of the rail industry. BRW holds Quality Accreditation to ISO 9001:2015 for maintenance and manufacturing.

Being based in Bendigo on the broad gauge rail network gives BRW one of the few facilities available to maintain Victoria’s growing train fleet into the future.

BRW are uniquely placed in Central Victoria which enables us to service and maintain the Victorian rollingstock fleet outside of the congested Metropolitan areas. With the size of our facilities we are positioned well for future growth.

BRW has the skills and capabilities to perform a variety of complex maintenance and manufacturing jobs. The efficient, professional and experienced team at BRW undertake rollingstock maintenance & manufacturing, providing comprehensive services to the rail industry in Australia, including:

 › Manufacture and Upgrade
 › Accident Repairs
 › Full Strip-Down and Overhaul
 › Bogie Manufacture & Overhaul
 › Painting
 › Field Services and Provisioning
 › Emergency Recovery

Our maintenance and manufacturing facility was established and setup specifically for rail vehicle maintenance and manufacturing. The facility boasts the following –

 › 105,000 sqm site
 › 16,000 sqm of undercover shedding and office space
 › 2 x 50 tonne overhead gantry cranes
 › 3 x 16 tonne overhead gantry cranes
 › 1 x 10 tonne overhead gantry crane
 › Lifting jacks for lifting 3 car set DMU’s
 › Maintenance and servicing pits
 › State of the art heated spray booth

BRW currently serve rail companies including: Bombardier, Vline, Metro Trains Melbourne, Progress Rail, Downer, Pacific National, Aurizon, GrainCorp, Qube Logistics and CFCL Australia.
Bombardier Transportation in Australia

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Profile

Bombardier Transportation has been present in Australia for over 60 years as a complete rail solution provider.

With local design, engineering, manufacturing and delivery capabilities, we also provide solutions for signalling, propulsion and control technology, asset management and through-life support to our customers. Our centres of excellence in industrial design and engineering are based across both Queensland and Victoria and position us well placed to provide local solutions for local conditions.

With more than 1,000 employees across Australia, our national operations are headquartered at our manufacturing hub in Victoria, with established maintenance facilities at Dandenong, Victoria, as well as presence in Melbourne, Perth, Brisbane, Gold Coast and Adelaide.

Bombardier places high value on local content, employment and opportunity. Bombardier has built strong long-term partnerships with more than 1,500 Australian suppliers, with a commitment to growing this footprint. This healthy supply chain plays a significant role in Bombardier’s ability to contribute towards growing the rail and manufacturing industry across Australia.

We’re changing the way people travel. Looking far into the future whilst delivering today. We’re pushing the boundaries and evolving mobility worldwide by answering the call for more efficient, sustainable and enjoyable rail transportation everywhere.
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Profile

C.A.T.E.R develops cost-effective rail inspection systems refined by a long experience in train borne, road-rail and portable carriers. We provide quality engineering in the rail industry focused on predictive maintenance, condition monitoring, flaw trending, and an extensive range of rail specific instrumentation products.

The company embraces developing tailored solutions in response to our customers’ needs. We are focused on expanding our market internationally with a global view for the provision of Rail Inspection Systems.

More than 21 years providing reliable rail flaw detection systems, bespoke engineering, support and services to the railway industry.


C.A.T.E.R Technology: We offer a range of Rail Flaw Detection; Video Identification; Surface Condition; Post Processing Software & Analysis Systems and hand operated measurement tools. We also offer services: Rail Audit, Systems Engineering, Training and Contract Rail Testing.

Recent Projects: Ultrasonic systems for: MTR Hong Kong, TFL (London Underground), Qatar Rail – Doha Metro, Vale S.A. – Brazil, AREX – Air Express Line and Sinseol Line in South Korea, Guadalajara Metro – Mexico, Riyadh Metro – Saudi Arabia, BHP – Australia.
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Profile

Classic Coachworks is an Australian owned specialist engineering and manufacturing business with global reach. We have been successfully delivering to major rail providers since 1996. We focus on Australian engineering and manufacturing, and invest heavily in R&D to continually deliver our own unique and cutting edge products.

Our specialties include design and manufacture of:

› Graphite foam products, which include a unique waterproof moisture ingress system, compliant with the challenging BS6853 composite fire testing standards
› Integral skin armrests, elastomeric and flexible.
› Seating, fixed and articulated
› Specialized safety products for the rail industry
› High performance fire retardant paint systems
› Tooling design and manufacture

Our products are built to the highest standards including; BS6853, EN45545.2, AS1530.3.

Customers include UGL Unipart Rail, Downer Group, Alstom, Hyundai Rotem Company.

We believe our focus on solutions that will help you create differentiated offerings.

If your project requires the highest possible compliance specifications, come and talk to us. We want to help you achieve your goals.
Commonwealth Steel Company

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Profile

The Comsteel range of products is manufactured in Waratah, NSW, Australia at the company’s Moly-Cop manufacturing facility.

Utilising state of the art electric furnace technology, the Moly-Cop steel mill produces billets and ingots from steel scrap.

The Comsteel product range includes forged and rolled railway wheels, forged railway axle and fully assembled wheel sets to international standards for all classes of rolling stock.

Forged and rolled wheels of widely varying shapes can be produced in sizes ranging from 650mm to 1250mm in diameter. In addition, smaller wheels, track wheels and gear blanks can be produced as press forgings.

Wheels and Axles, either as individual components or fully assembled into wheel sets, meet the full range of railway requirements. Wheel set configurations vary from standard carriage and wagon sets to heavy haul assemblies.

In particular the company is at the forefront in developing products for higher axle loading. New materials and designs for specific applications such as high hardness and wear resistant wheels have been developed by Comsteel. These wheels deliver improved performance in heavy haul applications.
Deakin University

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Profile

CONNECTING WITH INDUSTRY NATIONALLY AND GLOBALLY

Deakin University’s mission is to deliver high quality research and research training outcomes that are relevant to our partners and improve the future of our communities.

Deakin is committed to research that makes a difference with collaboration underscoring everything we do. Deakin is renowned for successful long-term partnerships with industry, governments and communities, with alliances across 40 countries.

Deakin is ranked in the world’s top 50 universities under 50 years of age and is in the top three per cent of the world’s universities across the three major international university ranking systems.

RESEARCH STRENGTHS IN RAIL AND TRANSPORT

Deakin’s multiple centres of research strength and facilities can be drawn upon for workforce development, infrastructure decision making, and the design and operation of rail and multi-modal transport systems.

› IISRI The Institute for Intelligent Systems Research and Innovation delivers industry research, development and commercial ready outcomes in autonomous systems and robotics, simulation training and haptics, human performance and cognition, and advanced modelling, simulation and prediction to support Transport 4.0 and Virtual Factory.

› CSCL The Centre for Supply Chain and Logistics is Australia’s leading research centre focusing on freight logistics and value-added supply chains.

› IFM The Institute for Frontier Materials is at the forefront of innovation in materials design and engineering research, for manufacturing technologies, energy efficiency and infrastructure sustainability.

› Carbon Nexus Deakin’s research in carbon fibre has captured the attention of automotive and aeronautical manufacturing globally. Carbon Nexus is an internationally significant research facility, delivering breakthroughs in low-cost high-performing carbon fibre materials that are lighter, stronger, cheaper and much faster to produce.

› ACID The Australian Centre for Infrastructure Durability provides an integrated, national platform for industry across the key sectors of oil and gas, mining, transport and structures, defence and aerospace, and water.
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Profile

DTI specialises in the development, supply, manufacture, and operation of advanced mass transit video surveillance passenger information and data management solutions. Since commencing business in 1996, the company’s range of public transport technologies have been developed and refined across two decades of operations in the rail market.

Over the past few years, DTI has delivered more than 28,000 integrated video surveillance systems to global public transport operators and supplied more than 80,000 cameras to the market.

A comprehensive back-end Passenger Information & CCTV Data Management System allows data to be automatically transferred from LRV & Rail Cars to a centralised location through a combination of LAN, 3G/4G and WiFi/WiMAX infrastructure.

DTI capabilities include:

- High Speed Onboard IP Systems
- HD Video Surveillance Recording
- Train Data Recording
- Passenger Emergency Intercom, LCD Dynamic Route Map Display, Driver Display Unit, External & Side Destination Indicators, Passenger Information Displays, Voice Spectrum Microphones and Onboard Intelligent Public Address Systems
- CCTV Investigation Software, Fleet Management Software
- Proprietary Video and Audio Analytics for Automated Camera Checking, Pantograph & Overhead Wire Anomaly Detection (patents pending)
- Cost effective, 3-D stereoscopic and infrared over-the-door passenger counting

Come and visit us at the Australian Railway Industry Pavilion (Hall 10.2, stand 212) OR at the DTI Pavilion (Hall 2.1 / Stand 503.)
Profile

ESAP is an Engineering Design and Manufacturing company that is predominantly supplying transport window glazing, wiring and high end interior products for Rail, Bus, Marine and Defence applications throughout the Asia Pacific Transportation Industry. Our Engineering capabilities enable us to provide quality, high impact solutions for various customer requirements such as Windscreens, Framed Side Windows, Composite Rail Door, Hand Grab Rails, Step Treads and Drinking Fountain supply, and ‘green’ environment friendly products sourced and project managed both overseas and locally.

ESAP is an Australian owned company first established in 2011 and in this short period has proven to have the unique ability to both design and project manage complex applications from concept, specification plus design, to manufacture and testing.

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An accredited ISO9001:2015 company, we achieve consistent cost effective volume production through innovative CAD design using both Solidworks and AutoCAD ‘.dwg’ and ‘.dxf’ formats.

Our certification includes, but is not limited to, ADR (Australian Design Rule) compliant Emergency Roof Hatches, FRA I & 2 and BR566 Ballistic tested glazing.

Major rail customers include Bombardier, Downer, Electro Motive Diesel (EMD) & Progress Rail, United Group Rail, Unipart, Metro, Queensland Rail, Sydney Trains, Yarra Trans and V/Line.
Exner Group

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Profile

Exner Group is a leading Australian construction consulting and Registered Training Organisation (RTO) which has been providing services to multiple industries, including construction, infrastructure, road and rail across Australia for over 25 years. Exner Group has an impeccable reputation for the delivery of construction management training, including designing and delivering the Diploma of Project Management and other courses to over 50,000 learners for over a decade.

Exner understands the importance of aligning education and training with modern day needs. Having a unique approach to training and education, with content that supports industry required skills and integrates emerging technologies including virtual reality, augmented reality and eLearning so students can perform relevant actions and tasks in virtual reality games. Exner’s extensive experience in many different industries means modules and courses are fully compliant and achieve learning objectives.

One of Exner’s longstanding partners are Brisbane based virtual reality developers and digital consultants “Real Serious Games”. The companies are jointly working on several groundbreaking projects that will see the world experience some of the most intense and comprehensive training methods available. Exner and Real Serious Games have expanded their operations in the middle east and established a company – Karsta Middle East. The rail industry is driven by innovations, and training needs are critical to supplement this growth. The partnership aims to serve even greater markets in the coming future.

Metro Trains Australia has partnered with Exner Group and Real Serious Games in the development of an interactive rail learning program. The program combines digital engineering with computer visualisation to deliver core rail operational competency units to support the expansion of rail infrastructure and assets within Victoria.
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Profile

Harbinger Infrastructure is a leading specialist rail resurfacing company based in the Hunter Valley just outside Sydney. Harbinger has a broad range of tamping equipment and highly-experienced professional specialised operators and technicians to collaboratively work with our clients to ensure the efficient delivery of all works involving on track plant.

Harbinger Infrastructure has always made innovation the focal point of our company and is proud to offer amongst others the following innovations to our clients:

- **Online, Realtime Paperwork Submissions**, ensuring paperwork from the field reaches the office and our clients, seamlessly and promptly.
- **System 7 Tamping Drive**, offering the latest in tamping technology, this tamping drive reduces noise emissions, eliminates the over tamping of ballast and records the condition of the ballast as it tamps to aid with maintenance planning.
- **Proximity Alert System**, our crews are all issued with special armbands which alert them and the operators if anyone gets close to or breaches an exclusion zone.
- **Collision Avoidance Systems**, our machines recognise when a collision is possible and alert the operator, should the operator fail to acknowledge the warning, or a collision becomes imminent, the system will automatically stop the machine.
- **Adjacent Live Line Working System**, as part of the Proximity Alert System the lookout is issued with a remote to alert all personnel on track when a train is on the adjacent live line.

Harbinger Infrastructure has the plant and experienced personnel to help successfully deliver any project, whether it be through the use of our own plant and equipment or the supply of highly-experienced specialised labour resources to support third party machines and equipment.

Harbinger Infrastructure has the resources to assist with the operation and maintenance of all track machines from Ballast Cleaners, Tampers & Regulators or Flashbutt Welders right through to hi-rail excavators and small plant.
Hofmann Engineering Pty Ltd

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Profile

Hofmann Engineering is providing a wide range of engineered rail solutions with a history of over 40 years and is a single source provider for all types of machined components. Highest quality in accordance with DIN ISO 9001 and AS 9100 as certified by Lloyds is manifested in all its products.

Hofmann Engineering has extensive experience in precision machining and offer efficient production services. Certified to ISO 3834 and EN 15085 Fusion Welding Standards, Hofmann is running state-of-the art robotic production lines for bogies, axles and wheels. The company’s product and service offering for locomotives, DMUs and EMUs includes manufacturing and overhaul of engine blocks, powerheads, bearing adapters, traction rods, center pins and axle boxes. Case carburised traction elements such as spiral bevel gears, bull gears and pinions are ground to highest accuracy including taper crowning. The shot peened full root radius on pinions provides a substantial strength increase.

Over the past years, Hofmann Engineering has successfully extended its product expertise for undercarriage parts from mobile mining into the rail sector. This extension resulted most recently in the capture of large contracts in Victoria’s High Capacity Metro Trains Project. The company’s high-performance engineering culture has also raised interest in other state developed rail projects as well as within the private freight rail sector of top-tier mining companies including Fortescue Metals Group and Rio Tinto. Applying forged gear technology which has performance track record of in excess of 30 years, Hofmann is in the position to respond to the increasing demand for forged components to upgrade the rolling stock of private freight rail fleets.

Research & Development and continuous improvement of products and processes are essential building blocks of Hofmann Engineering’s success to which about 500 employees are contributing across manufacturing facilities and offices in Australia, Chile, Peru, China, USA and India. With its wide and versatile product and services portfolio, Hofmann Engineering is servicing industry leaders in mining & minerals processing, oil & gas, defence, aerospace, cement, energy (wind, solar & hydro), sugar and rubber. Such business model, encompassing new, high-performance component manufacturing and at the same time improving key parts for the aftermarket in various industries has made Hofmann Engineering resilient to economic downturns and kept it at the forefront of industrial engineering.
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Profile

Indec Consulting is among the leading transport management consultancies in Australia. Since the company’s formation thirty five years ago we have been at the forefront of fundamental change in transport management and our capabilities, expertise and results are globally recognised in the industry.

Indec has proven capabilities in the rail sector. These capabilities include project and engineering management, systems engineering, safety and rail accreditation consulting, asset management, technical advisory, benchmarking, operational process improvement, change management, economic and financial analysis, commercial negotiation, contract management, maintenance planning and rail access.

Indec has devised and implemented substantial efficiency improvements, conducted economic and technical feasibility and due diligence studies for major heavy and light rail, rolling stock and infrastructure projects. The company has also achieved significant cost savings, improved asset utilisation, reliability and availability, optimised transport services, supply chains and networks, assisted with commercialisation, full-cost pricing and outsourcing, and managed large and complex asset and service procurement projects.

Major clients that have called on Indec to support their business requirements include the Commonwealth and State Governments and other government agencies, regulators, financial institutions, rail and public transport operators, infrastructure owners and maintainers, rollingstock manufacturers and maintainers, access seekers and haulage customers, including multi-national mining companies.

Indec also provides expertise to support clients who have procured rail products manufactured in China and elsewhere with supplier and stakeholder liaison, design reviews, production quality inspections and certification.
Keech Australia

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Profile

Keech Australia has been designing and manufacturing high integrity steel castings for over 80 years, for leading companies domestically and globally. Keech ground engaging tools, tillage implements, rolling stock components and custom casting products are manufactured to Australian and ISO 9001 quality standards. Our products are supported by sales offices in all Australian states and are staffed by experienced field engineers.
Knorr-Bremse Australia Pty Ltd

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Profile

Knorr-Bremse is the leading manufacturer of braking systems for rail and commercial vehicles. In addition to braking systems, important elements in Knorr-Bremse’s portfolio are train entrance systems, platform doors, and HVAC. These systems are used in high-speed trains, multiple units, metros, light rail vehicles, locomotives, and freight cars. As a technology leader, through its products the company has been making a decisive contribution to greater safety by road and rail since 1905.

Knorr-Bremse systematically integrates aspects of sustainability into the product creation process – from the initial vision, all the way to sales, product maintenance and remanufacturing. Knorr-Bremse takes the results of life cycle analyses into account, so that negative environmental impacts can be avoided as far as possible. With research and development investment amounting to EUR 359 million, the Company further strengthened its long-term innovative capabilities in 2017 and employed more than 3,700 people in the field of R&D.

Knorr-Bremse creates an attractive working environment in which trust, team work, diversity, equal opportunity and mutual respect are valued and practiced. The basis for this is provided by the corporate values: Entrepreneurship, Technological Excellence, Reliability, Passion and Responsibility.

With just over 100 locations in 30 countries and 28,000 employees, the company earned sales in 2017 totaling approximately EUR 6 billion.

Every day, more than one billion people around the world put their trust in systems made by Knorr-Bremse.
Marand

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Profile

Atlas Rail, a division of Marand Precision Engineering Pty Ltd in Australia has devoted many decades of global activity to design and develop purpose-built rolling stock maintenance equipment. Since 1940, Atlas has installed over 300 machines in more than 51 countries worldwide.

Additionally, Marand is a leading automation solutions provider to the railway maintenance and manufacturing industries. From individual machines, to the highest levels of automation and throughput; Marand has the experience and capability to support your business case development, design, procurement, install, commissioning and production ramp-up.

Our rail industry products and services include:

› Turnkey maintenance facilities
› Wheelshops
› Bogie Shops
› Single and Tandem Underfloor Wheel Lathes
› Next generation Portal Wheel Lathes
› Wheel and Bearing Presses
› Ultrasonic wheel testing machines
› Brake testing machines
› Bogie and rail car Lifters and Jacks
› Automated Turntables and Drop Tables
› Lifetime support of assets
› AGV and Gantry system integration

Marand provides our customers with the reassurance that the process designer is the equipment designer, manufacturer, supplier and service provider for best lifecycle management and support.

Key customers include:

› Alstom UK
› Asciano / Pacific National
› Aurizon
› Bombardier – Australia, USA and UK
› BHP Billiton
› Delhi Metro Rail (DMRC) – India
› Downer Group
› KCRS – Hong Kong
› Rio Tinto
› Roy Hill Holdings
› Saudi Rail (SRO) – Saudi Arabia

Marand – your trusted partner for automated rail maintenance workshops.
Monash University

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Profile

Monash University is Australia’s largest university and ranks among the world’s top 100. Monash has a global network of campuses, education centres and partnerships, including locations in Australia, China, Malaysia, India, South Africa, Italy and the United Kingdom.

In transport infrastructure research and development, Monash has one of the largest capability offerings in the world, including leading capabilities in railway engineering and public transport. Monash also has expertise in traffic systems, road safety, industrial design in vehicles, transport modelling, field and laboratory testing, light-weight metals for automotive and aerospace applications, and aerodynamic testing of vehicles in our wind tunnel.

Monash’s Institute of Railway Technology (IRT) is the premier track and vehicle railway research centre in Australia, generating solutions adopted by railway systems internationally. IRT has developed new technologies to support improved productivity and safety, whilst also reducing risk profile and operational costs for over 160 railway entities globally.

The Public Transport Research Group at Monash has been independently identified as the leading research group in Australia and among the world’s top three.

The group works closely with government agencies and has expertise in strategic planning, travel demand management, travel behaviour, transit safety, transit design, transport economics, land use and transit, travel modelling and operations modelling.

Our other leading transport groups are the Monash University Accident Research Centre, The Institute of Transport Studies, The Mobility Design Lab and The Centre for Data Science.

CAPABILITIES:

› Railway engineering
› Track and rolling stock infrastructure
› New technology development for railway industry
› Rail management and maintenance
› Rail welding
› Wheel – rail interface
› Onsite instrumentation of track and vehicles
› Comprehensive in-house laboratory testing facilities
› Component development, testing, failure analysis and quality control auditing
› Public transport
› Road safety
› Aerodynamic research and testing
› Mobility design
› Intelligent transport systems
› Data visualisation, modelling and optimisation
› New materials for transport infrastructure
› Management of logistics and supply chains
New Touch Industries

Profile

New Touch Industries (NTI) provides complete laser cutting and fabrication solutions offering our clients a “one stop metal shop”. We are renowned for providing high quality laser cutting & marking services at competitive prices. We provide an expanded range of services to meet all your Laser Cutting & Fabrication needs. From complete metal fabrication to Folding, Welding and Project Management, our skilled welders are certified to AS 1554 with focus on quality, service and delivery.

The company currently employs 65 staff, operates a variety of lasers, press brakes and other machinery, 24 hours over two locations in Bayswater and Clayton South.

Our list of services include:
- Laser Cutting
- Rotary Laser Cutting
- Folding and Bending
- Fabrication
- Mig & Tig Welding
- Laser Marking & Rotary Laser Marking
- Complete Project Management
- Delivery Service

New Touch Industries diverse range of services truly encapsulate our ability to handle projects of any size from start to finish. Each job handled with our commitment to quality, service and delivery.

We take pride in implementing state-of-the-art machinery to deliver the best outcomes. Combining advanced machine automation & precision, overseen by our passionate team allows us to complete the most demanding projects with confidence.

Our work can be found in:
- Eastlink Freeway in Melbourne, Australia
- Milad Tower in Tehran, Iran
- Agricultural Machinery & Food Processing Equipment, provided globally
- Defence, Automotive & Truck Sectors

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Profile

Plateaway has been providing management and civil engineering consultancy to the rail industry since 1997. We operate predominantly in Australia, New Zealand, South East Asia, India and Southern Africa.

Plateaway is capable of offering a wide range of skills and experience across various railway management areas including:

Rail Engineering
 › Reliability analysis, asset condition assessment
 › Work program development
 › Infrastructure and rollingstock acceptance testing
 › Siding and terminal design
 › Derailment and incident investigation

Financial Assessments
 › Zero base railway cost model
 › Project economic evaluation, cost/benefit analysis and value management studies
 › Due Diligence
 › Small railway operational strategies

Railway Service Design
 › Railway network simulation and timetabling
 › System haulage capacity assessment
 › Traction Power Supply Simulation using OpenPowerNet
 › Railway Service Performance
 › Pedestrian Flow Simulation using Simwalk

Specialist Management Services
 › Technical standards assessment
 › Project Management
 › Tendering and estimating
 › Contract Management

Safety System Development
 › Development of railway safety management systems
 › Railway safety audits

Resources and Tools
 › CLIP simulation data set builder
 › Actual running analysis software
 › On-track measuring equipment
 › Online training

Come and visit us at the Australian Rail Industry Pavilion (Hall 10.2 / Stand 212)
OR Hall 4.1 / Stand 102.
Rail Control Systems Australia

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Profile

Rail Control Systems Australia Pty Ltd (RCS Australia) is an independent engineering and construction firm that delivers complete rail signalling and control solutions. RCS Australia’s primary operational hub is Australia, where they service clients throughout the continent and also in South East Asia. RCS Australia also has entities setup and some capacity in both Hong Kong and the United Kingdom.

Whether it is for mainline, freight, metro or light rail projects, RCS Australia provides clients with innovative, technically advanced and purpose-built signalling and communication systems.

Our highly trained and experienced engineers make RCS Australia one of the most sought-after providers in the rail signalling industry. The company guarantees to provide clients with excellent service, knowledge and expertise.

In engaging with RCS Australia to perform Signalling and Communications works, you will receive a consistent and reliable service delivery partner.

Our strong internal processes and procedures demonstrate our commitment to quality, and our experienced team have all the skills to provide the best possible outcomes for your project.

RCS Australia also works alongside leading global product manufacturers to ensure clients are provided with the best and most suitable products for their unique project requirements. Untethered from any contractual relationships with the global product manufacturers RCS Australia are able to provide an independent service to the rail industry for implementation of signalling systems.

RCS Australia offer a service that covers the whole system lifecycle from assisting stakeholders and users to build system requirements through to assisting operational staff understand and maintain newly commissioned and existing systems. In providing this service, RCS Australia employ a systematic approach to all projects and engineering activity, and by applying internationally recognised standards for systems engineering, RCS Australia ensure that all project deliverables meet the stakeholder and user requirements.

RCS Australia is also a world leader in the implementation of the latest technology, including Frauscher Axle Counters, and the HIMA Computer Based Interlocking. Using these technologies as a base, RCS Australia has developed a suite of re-usable software function blocks that provide world-leading Commercial-off-the-Shelf solutions for level crossing and interlocking solutions.
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Profile

The Rail Industry Safety and Standards Board (RISSB) provides products and services that help stakeholders mitigate safety risks, progress towards national interoperability and harmonisation, and achieve significant time and cost savings.

Under Australia’s co-regulatory model, RISSB supports the rail industry by coordinating the development of national rail standards and is accredited by Standards Australia as the only Australian Standards Development Organisation for the rail industry. Each year RISSB produces more than 20 Australian Standards, Codes of Practice or Guidelines, for the benefit of its members and the broader rail industry.

RISSB products and services help the rail industry innovate and future proof itself. In the past 12 months RISSB has launched three major initiatives:

- the world’s first standard on rail cyber security;
- the Australian rail risk model (ARRM); and
- a refreshed set of nationally applicable rules.

RISSB is reinvigorating the Australian Network Rules and Procedures work to form an enhanced set of nationally applicable rules guided by seven fundamental operating principles. In July, it released a Rail Cyber Security Standard covering operational technology in areas such as personnel interfaces, infrastructure, rolling stock, train control systems, and safety systems. Late last year, RISSB launched a national risk model built around hazardous events that occur on Australian railways.

RISSB members include governments, public and private rail operators, and major equipment suppliers. In addition to offering access to RISSB products, we offer members the opportunity to participate in the standards development process and create documents that achieve safer and more efficient rail operations.
Rail Manufacturing Cooperative Research Centre (CRC)

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Profile

The Rail Manufacturing Cooperative Research Centre (CRC) drives the development of new products, technologies and supply chain networks to enhance the competitiveness, capacity and productivity of Australia’s rail manufacturing industry.

The Centre manages collaborative research and commercialisation partnerships between key stakeholders, such as rail manufacturing multinationals, innovative small-to-medium enterprises, leading research and development providers, industry peak bodies, and Australian State and Federal Governments.

The Rail Manufacturing CRC currently has 40 active projects underway, and five projects already completed. These projects focus on work in areas such as battery and supercapacitor development, new braking technologies, bearing maintenance optimization, the use of new manufacturing materials, integrated passenger tracking, train operations diagnostics, and improvements to train cabin ventilation.

All projects underway must relate to one or more of the Centre’s three key research themes:

› Power and Propulsion,
› Materials and Manufacturing, and
› Design, Modelling and Simulation.

Funded jointly by participating rail organisations and the Australian Federal Government’s Department of Industry, Innovation and Science under its Business Cooperative Research Centres Programme, the Rail Manufacturing CRC will operate for six years, finishing up at the end of the 2019–20 Financial Year.

There is still ample opportunity for rail organisations, or those businesses with the potential to work in that space, to initiate co-funded research and development projects up to 12 months in length. Project opportunities could relate to areas such as Industry 4.0 (automation, design and modelling, 3D printing, etc.), operational efficiencies (big data, artificial intelligence, condition-based monitoring, etc.) and the use of new materials.

To register a project idea or for more information, please visit http://rmcrc.com.au/register-your-project/
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Profile

VIRTUAL IS THE NEW REALITY

Real Serious Games is world leading in creating Interactive, Useful, Accurate Virtual worlds.

Located in Australia, UAE, France and the UK, Real Serious Games’ strengths lie with its advanced simulation capabilities; providing virtual reality, 4D planning and forensic animation solutions into the Engineering and Construction sector.

The company’s portfolio includes complex Engineering & Construction (E&C) projects for highly regarded clients including Metro Trains Australia, AECOM, Downer Engineering, BHP, Lend Lease, John Holland Group, Rio Tinto, Laing O’Rourke and various Australian Government agencies.

Together with supplying boutique simulation services to the E&C sector, Real Serious Games (RSG) are also regarded as leaders and development experts in the field of Extended Reality (XR). XR being a term that includes Virtual Reality, Augmented Reality and Mixed Reality.

“Today, we are at the beginning of a Fourth Industrial Revolution… The current technological revolution is an opportunity for work to truly become a channel through which people recognize their full potential…”


RSG has combined the strengths of advanced technology with training and has developed progressive XR Training solutions which are delivering both cost savings and highly effective training.

RSG’s XR Educational Training solutions in Rail successfully reduce costs by delivering:

› Reduced training times
› Reduced on-the-job training on assets – no need to remove trains from revenue service
› Reduced trainer requirements and consistency of delivery
› Reduction in classroom requirements
› Increased class sizes
› Improved learning outcomes

RSG partners with leading firms to provide end-to-end training solutions. One of the strongest partnerships is with “Exner Group”, a registered training organisation whose specialist expertise is engineering and education services to the E&C sector. The relationship extends to the Middle East where the firms along with a local partner “Al Nowais Group” have established a company named “Karsta”.

Real Serious Games
Profile

SNC-Lavalin Atkins is one of the world’s most respected design, engineering, construction and project management companies. Our company has delivered outstanding projects in the Middle East, Africa, Asia Pacific, North America and Europe. We provide comprehensive project solutions covering operations and maintenance, capital investment, consulting, design, engineering, construction and sustaining capital. Our clients operate in the infrastructure, oil and gas, mining and metallurgy and power sectors.

As one of the largest sectors in SNC-Lavalin Atkins, our Engineering, Design and Project Management teams help clients plan, design and execute major capital projects. Our internationally experienced subject matter experts provide specialist consultancy that spans the entire project lifecycle.

The foundation of our exceptional client relationships is the effort we make to truly understand the challenges that our clients face. Through that understanding, we can share in their vision and transform that vision into reality. Our consultants have faced, and surmounted, innumerable challenges and we bring this experience to bear in every assignment we undertake.

SNC-Lavalin Atkins consultants have international experience in projects ranging from niche tasks to megaprojects. We are agile enough to respond to and manage daily challenges and large enough to call upon international expertise whenever and wherever it is required.

SNC-Lavalin Atkins Transport commenced operations in Australia in 1997. Our history informs our specialist consultancy, leveraging our extensive knowledge of rail networks in the United Kingdom, Europe, Asia Pacific, North America and the Middle East. The SNC-Lavalin Atkins Transport team offers end-to-end services across all types of rail and transit systems, from concept, design, build and financing to operations and maintenance. Our specialists work on rolling stock, infrastructure, rail control systems and strategic transport advisory services.

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Profile

Trantek MST specialises in the supply of distributed, fault-resilient solutions, for the control and management of rail and road transport infrastructure. Trantek MST manufactures and supplies products for on-board, stations, terminals and control rooms as well as software platforms for the implementation of fault-resilient distributed systems for passenger information, supervisory management and control.

With manufacturing partners in Australia, Germany and Brazil, Trantek MST can supply regional solutions to system integrators and rolling stock manufacturers.

The Trantek MST fault-resilient distributed products consist of:

Rail Infrastructure and Vehicles
- Networked Public Address
- Emergency intercoms
- LED and LCD displays

Control Room
- Equipment and software platforms
- Software Infrastructure – for the implementation of fault resilient and survivable monitoring and control systems using cost effective commercial off the shelf hardware.
- Security and Remote Monitoring Systems
- Synchronised clock displays and NTP
- Time servers and displays

Road Infrastructure
- Tunnel control systems – interfaces to lighting, fire, environment controls
- Highway Monitoring
- Interfaces and support for tunnel radio rebroadcast and break-in announcements
- Tunnel emergency Public Address
- Motorist assistance intercoms
- Software tools for system development

Integration Support
- Audio gateways to third-party audio systems including Radio Rebroadcast head-end devices, amplifiers, two-way radio and telephony.
- Protocol gateways to third-party devices including variable message signs, Modbus and OPC.
- CCTV control and displays for Networked video

Come and visit us at the Australian Railway Industry Pavilion (Hall 10.2, Stand 212) or at the Trantek booth (Hall 6.1 / Stand 106).
Profile

UGL is part of the CIMIC Group and a market leader in end to end asset solutions. Working with CIMIC Group operating companies (CPB Contractors, Leighton Asia, Thiess, Sedgman, Pacific Partnerships and EIC Activities), what sets us apart is our focus on operational value and enhanced customer experiences.

In the rail space, our joint whole-of-life offer maximises solutions, delivery and performance, spanning engineering design; construction and commissioning; manufacturing; operations, maintenance and facilities management; upgrades and overhauls; and asset management.

As the CIMIC Group’s specialist end-to-end asset solutions provider, our team creates value by applying whole-of-life expertise to the entire value chain of design, construct, commission, manufacture, operate, maintain, upgrade, overhaul and manage.

Specifically in the rail sector, UGL is proud to be the only contractor in Australia to offer in-house design, construct, commissioning, and operations and maintenance across rail networks. Our innovative solutions focus on enhancing smart railways to improve connectivity, reliability, use, maintainability and asset life.

Through our manufacturing team, we also deliver rail solutions and rolling stock, backed by strategically-located rail workshops for timely, expert maintenance and upgrade services. Across rail networks, our operations and maintenance teams also provide efficient solutions and assured excellence in scheduling; maintenance, fleet and components planning; workforce, supply chain and third-party management; and decommissioning. We are trusted to deliver for some of the largest rail projects in Australia as we maximise client value and position assets to support the right standard of customer experience.

Through our manufacturing team, we also deliver rail solutions and rolling stock, backed by strategically-located rail workshops for timely, expert maintenance and upgrade services. Across rail networks, our operations and maintenance teams also provide efficient solutions and assured excellence in scheduling; maintenance, fleet and components planning; workforce, supply chain and third-party management; and decommissioning. We are trusted to deliver for some of the largest rail projects in Australia as we maximise client value and position assets to support the right standard of customer experience.
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Profile

V/Line is Australia’s largest regional public transport operator.

Each week, V/Line schedules more than 1,800 train services between Melbourne and regional Victoria. In addition, more than 1,300 coach services connect with the rail network. V/Line is experiencing record patronage growth with more than 19.3 million train and coach passenger trips taken in 2016-17. Over the last three years, V/Line’s patronage has grown by 33%.

As well as being a public transport operator, V/Line also provides access to and maintains 3,520 kilometres of rail track used by passenger and freight rail services.

V/Line is a major employer, with a workforce of 1,776, most of whom live and work in regional Victoria.
OTHER AUSTRALIAN COMPANIES PARTICIPATING AT INNOTRANS 2018
Air Radiators
www.airradiators.com
Hall 20 / Stand 113

Delkor Rail
www.delkorrail.com
Hall 25 / Stand 306

Meridian Engineers
www.meridianengineers.com.au
Hall 25 / Stand 303

MRD Rail Technologies
www.tracksense.com.au
Hall 22 / Stand 307

OEM Technology Solutions
www.oem.net.au
Hall 6.2 / Stand 306

Rail Technology International
www.rti-group.com
Hall 23 / Stand 402

Speno Rail Maintenance Australia Pty Ltd
www.speno.com.au
Hall 26 / Stand 104

Sydac Pty Ltd
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Hall 6.2 / Stand 217

Thermit Australia
www.thermit.com.au
Hall 25 / Stand 325

Track IQ
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Hall 1.2 / Stand 104-105

Toolern Engineering Supplies Pty Ltd.
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