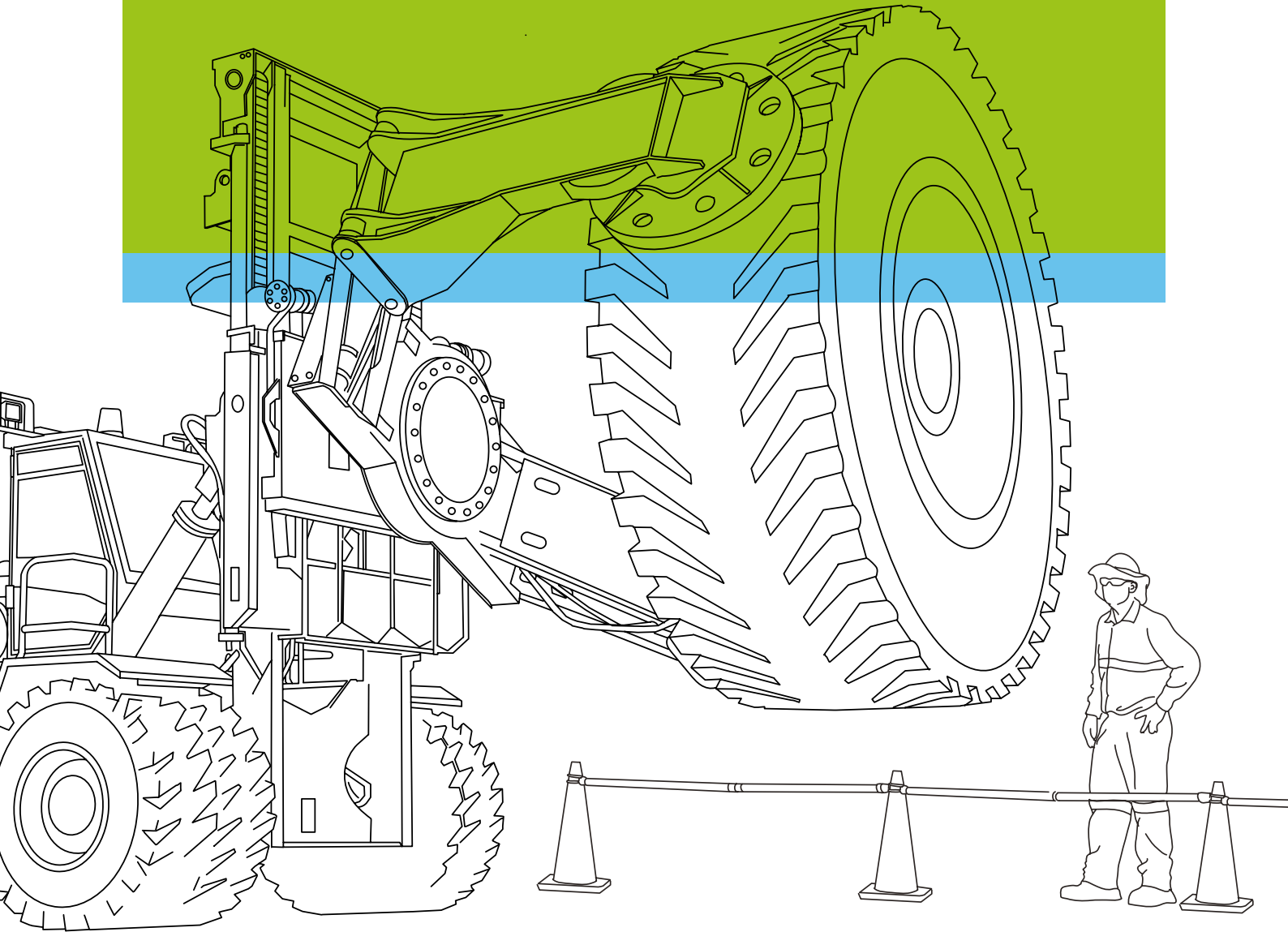


Your tyre management solutions



OTRACOM 
A Downer Company

OTRACO 
A Downer Company

Downer 
Relationships creating success





About us

With over 45 years' experience delivering off-the-road (OTR) and light mobile equipment (LME) tyre management solutions, Otraco helps customers to increase productivity and reduce the total cost of tyre ownership within a safe working environment.

From our beginnings in 1972 working on mining sites in Western Australia, we have expanded and developed our capability. Today, our teams are located at more than 50 operational sites across Australia, Chile and Southern Africa and we are recognised as the 'go-to' partner for transforming tyre management. Customers call us when they need:

■ Complete tyre management

Our fully accredited tyre technicians located onsite provide tyre maintenance, supported by Zero Harm safety programs and asset management solutions.

■ Otracom: Our computerised tyre management system

We record real-time data from tyre sensors. Otracom tracks and manages tyres and rims from manufacture to disposal, providing essential performance data reporting at key stages.

■ Tyre pressure monitoring systems (TPMS)

Delivered via the Neuroverse Internet of Things (IoT) platform, we use live data feeds to monitor tyre life. TPMS systems issue alerts when maintenance is required and produce performance data reporting.

■ Remote asset management systems (RAMS)

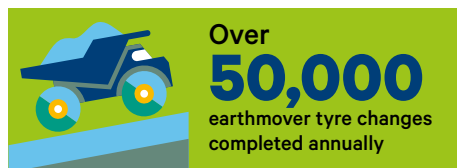
Enables the tracking of tyres and other heavy vehicle assets from centrally located operational headquarters.

■ Training and engineering support

We help our customers commission, operate and maintain cost-effective tyre management solutions worldwide.

Innovation

Across Otraco, innovation is the key to helping customers achieve step change improvements in day-to-day operations. Our teams are encouraged to challenge the traditional ways of doing things by asking questions such as, 'How can we get this job done in a safer way?' These simple questions uncover cost-effective solutions, like our award-winning spacer plates technology.



Tyre management

We provide proven solutions to meet the specific operational needs of our customers.

Tyre selection

Our teams combine extensive working knowledge with latest innovations from the world's leading tyre suppliers to determine the optimum tyre specification for operational sites. This fit-for-purpose approach maximises tyre life as well as machine productivity.

Mine condition monitoring

Otraco has developed guidelines for the design and upkeep of haul roads, benches and working areas so that tyre and truck component damage is minimised and productivity is enhanced. Our management system also includes regular pit condition reporting.

Scheduled maintenance

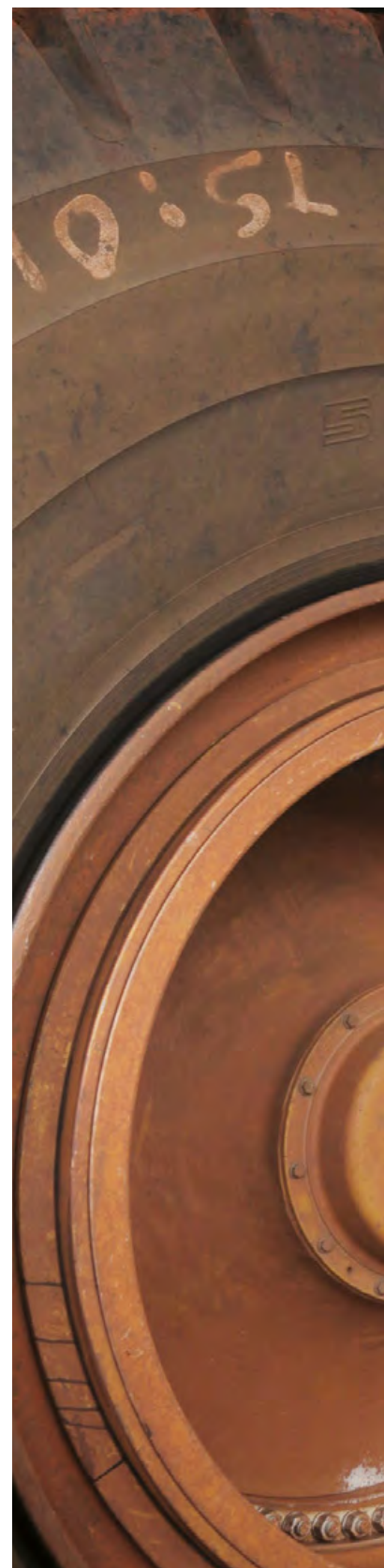
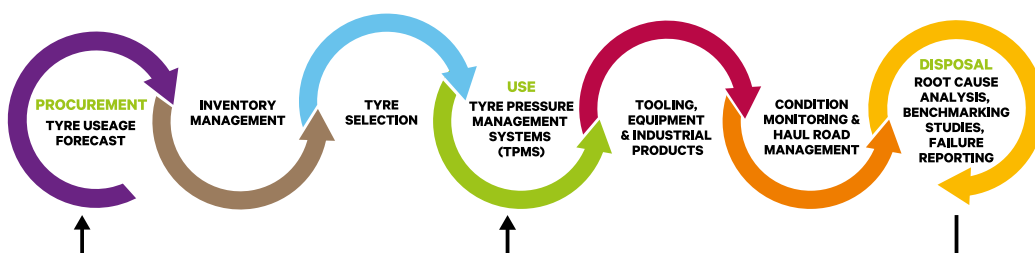
Machine downtime due to tyre maintenance is kept to a minimum by scheduling tyre work whenever possible and by having highly-trained service technicians using fit-for-purpose tools and fully documented work procedures. In addition, Otraco's servicing methods undergo continuous process improvement to increase safety and extend machine availability.

Tyre reconditioning and rim management

Otraco's tyre reconditioning program, delivered with partners such as Renova in Chile and at our purpose-built facilities in South Africa, extend tyre life in the most cost-efficient manner through tyre repairing and, if warranted, retreading. Rim tracking and maintenance, including anti-corrosion treatment and robust non-destructive testing regimes are also integral to Otraco's services.

Management reporting

Otraco provides detailed monthly reports that analyse tyre life, operational, maintenance and supply parameters. Reports contain graphically-based interactive analysis as well as an examination of tyre-related issues and specific recommendations to improve productivity and minimise costs. Findings from management reports feed into new initiatives which are introduced through pre-agreed implementation programs designed to deliver maximum value to operations.





Real-time technology solutions

We bring innovation to tyre management, delivering technology-based solutions that use augmented reality, advanced analytics, visualisation and machine learning within an IoT environment.

Otracom is developed by Otraco and installed in more than 80 operational sites worldwide. It is an internationally recognised Tyre Management System (TMS).

Providing a comprehensive, real-time solution for managing tyres, rims and chains fitted to heavy vehicles, Otracom integrates with tyre pressure monitoring systems (TPMS), fleet management and ERP systems.

Key features

- Tracking and management of tyres and rims from manufacture through to disposal
- Identification of performance trends and opportunities to reduce tyre-related costs
- Lifecycle inventory control (including repairs, transfers and scrapped tyres)
- Tyre cost analysis, budgeting and forecasting
- Real-time data recorded from sensors built into tyres providing key information to improve tyre life
- Real-time alerts and notifications
- Business intelligence reporting
- User friendly
- Available in multiple languages.

Otracom is delivered as part of Otraco's complete Tyre Management Solution, and can also be purchased via subscription for non-Otraco maintained sites.

“Successful innovation comes from a team approach. By working closely with our customers, we get a hands-on understanding of their operational challenges and can work together to identify the most effective solutions.”



Turning knowledge into value

The Otraco Training Centre delivers an extensive portfolio of programs for tyre technicians.

Enterprise Registered Training Organisation 51112

Our training programs incorporate competency-based delivery and assessment, and comprise on-the-job training, workshops and classroom learning.

All programs are delivered through Otraco's Enterprise Registered Training Organisation 51112. Conforming to the requirement of the Standard for RTOs 2015 (ASQA), our experienced trainers and assessors work with tyre technicians, teaching them specialised skills and attributes to allow them to work safely and efficiently.

Trainees undergo a six-week course at our Training Centre. This is the first step on the pathway toward gaining a Certificate II in Automotive Tyre Servicing Technology, which is completed after a further four months onsite.

Training for customer teams

Our range of competency-based training solutions can be tailored to meet the needs of customer teams on an as-needed basis.

Qualifications

- AUR21916 – Certificate II in Automotive Tyre Servicing Technology
- RII20215 – Certificate II in Surface Extraction Operations.

Training centre

At the core of our innovative training program is our Otraco Training Centre (OTC) in Perth, Western Australia. The OTC is purpose built to address the shortage of quality off-the-road tyre technicians and to reinforce our safety culture and best practice. We train up to 80 new Otraco tyre technicians annually at the OTC.

Engineering solutions

With over 100 years of combined earth moving tyre-related experience, Otraco's engineering teams work collaboratively with customers sharing innovative thinking, cutting-edge technological advances and best practice tyre management processes.

Examples of services include:

- Development of in-house purpose-built tooling
- Market-leading tyre forecasting techniques
- Engineering solutions to earthmover tyre hazards.

By leveraging our vast experience, Otraco is able to bring tyre management solutions to address specific challenges, ensuring customer operations are at the forefront of tyre-related industry developments.

Innovation

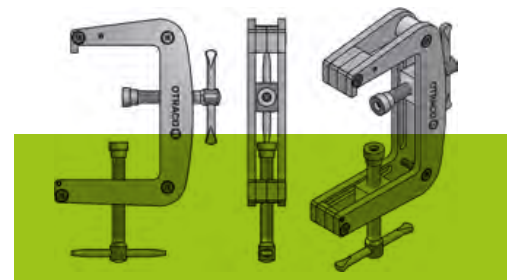
Otraco 3arm® support tool

Revolutionising the handling of heavy tooling, the Otraco 3arm® support tool has been designed fit-for-purpose by Otraco in Australia for some of the biggest vehicles in the world.

The Otraco 3arm® support tool eliminates the need for tyre fitters to manually handle heavy tooling, such as rattle guns and torque guns. It not only improves tyre maintenance, it also delivers significant safety improvements.

Clamps

Sometimes the simplest solutions are the best. Otraco's engineers have developed specialised sealing clamps for large earthmover tyres (57"-63"). These allow the tyre to quickly achieve a proper seal for inflation during vertical tyre changes. The designs are completed using 3D modeling software and are delivered with full certification.



Industrial products

We supply quality, cost-effective industrial products to customer operations – no matter how remote they are.

Otraco works closely with some of the world's leading tooling and equipment manufacturers to design, develop and deliver innovative industrial products that ensure tyre bay operations continue to operate safely, efficiently and productively.

We utilise over 45 years' experience and technical know-how to develop industrial products that help customers streamline the delivery of essential tyre bay commodities, while introducing exciting new products designed to enhance mine productivity and safety.

Otraco's industrial products are delivered to sites across Australia, Chile and Southern Africa – no matter how remote.

Product range

- Otraco custom, in-house designed tyre fitting tools (Australia and Africa)
- Tyre and truck maintenance workshop, specialised equipment and tools (Africa and Australia)
- Support equipment
- Tyre and rim anti-rust and component lubrication
- Onsite off-the-road tyre repair up to 63" (Africa)

- Haltec consumable products (Africa, Chile)
- Topy wheels, rims and components (Africa)
- B&D manufacturing products (Australia and Africa)
- AME international tyre workshop tooling (Africa)
- Nitrogen filling (Africa)
- Renova tyre repair and retread services (Chile).

New Evolution Jack

One of the most exciting products to be developed by Otraco's Industrial Products team is the new Evolution Jack.

A fully remote controlled, hydraulically driven vehicle, the Evolution Jack is safe and time efficient.

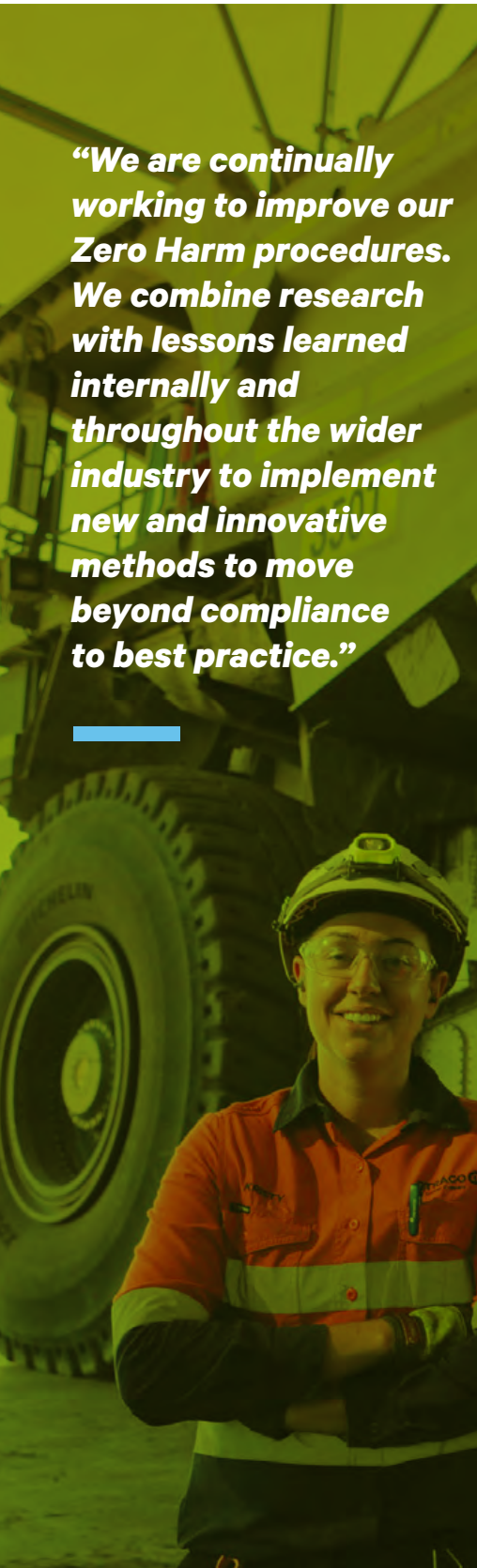
The Evolution Jack enables workers to perform the required maintenance in a secure and safe environment within a fraction of the time.





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Health, safety, environment and quality

Safety is our top priority. Otraco's tyre technicians not only receive technical training, they are also fully equipped with safety training, making our teams some of the safest in the industry.

Critical risk management

Critical risk management is a practical approach to improving managerial control over unlikely but potentially catastrophic events by focusing on the implementation and effectiveness of critical controls.

In 2016, Otraco developed a number of bowties to capture earthmover tyre specific fatal risk scenarios, causes and controls. Based on this analysis, an in-field critical control verification tool was created to help supervisors and managers ensure critical controls are in place and effective.

Otraco has also been an active member of the Minerals Council of Australia's Tyre Fatalities Working Group since March 2015. Otraco played a fundamental role in supporting the working group through the development of two discussion papers on the history of significant injuries and fatalities within the industry.

Zero Harm

We are committed to providing a safe work environment through our systems and processes, as well as training and supervision, ensuring that our people remain safe from injury and risks to their health.

Central to our management of risk is our information management system, known as the IMS, which incorporates our health and safety, environmental and quality management policies, standards and procedures.

Our IMS is externally certified to AS/NZS 4801:2001, BS OHAS 18001:2007, ISO 14001:2004 and ISO 9001:2008.

We are continually working to improve our Zero Harm procedures. We combine research with lessons learned internally and throughout the wider industry to implement new and innovative methods to move beyond compliance to best practice.

Award winning

Our safety focus has consistently been recognised by customers.

Awards we have received in recent years include:

- African-based Swakop Uranium's Safety Award for our commitment to safety, health, environment and work quality
- Innovation Award from the National Safety Council of Australia, awarded for our 'spacer plates' technology which reduce risk and improve efficiency of tyre and rim assembly on Hitachi dump trucks.



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