



Mining Tyre Solutions

OTR GLOBAL

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CAPABILITY STATEMENT



Compiled: January 2020

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1 BUSINESS OVERVIEW

OTR GLOBAL – Mining Tyre Solutions is a Perth, Western Australia, based independent engineering consultancy that specialises in all aspects of *Earthmover (EM) / OTR / Mining* tyre management.

Our consulting capability covers whole of life – cradle to grave – tyre, rim and chain management including safety, risk control, selection, purchasing, warranty, maintenance, reconditioning, operation – including road design/maintenance and autonomous haulage, recording, testing, analysis, disposal and recycling. We also provide technical expertise in incident investigations including tyre fire, explosion, serious accident or fatality.

We have a TCO approach. Our goal is to minimise the total cost of ownership of tyred mining equipment for own clients – focussed not solely on tyre direct operating cost but encompassing tyre/rim/chain related vehicle safety, downtime and productivity.

We have global experience including on many of the largest mining operations worldwide.

2 ABOUT US

Our Mission is to assist our clients in minimising the TCO of their mining tyre operation – to achieve the lowest tyre-related cost operation with no compromise to safety.

Our Vision is to raise global standards relating to safe and efficient maintenance and operation of mining tyres.

Our Values are integrity, respect, safety, professionalism, inclusiveness and providing the highest quality of service to our clients.

3 DIFFERENTIATORS

OTR GLOBAL has probably more expertise in mining tyre management than any other company worldwide.

With global experience in all aspects of OTR tyre management, we understand the solutions to both common and obscure problems in the industry. OTR GLOBAL can identify quick wins and ongoing solutions for our clients without them having to reinvent the wheel or rely on tyre, rim and chain manufacturers for product selection and strategy.

We have no commercial association with any tyre manufacturer, tyre service provider or tyre equipment supplier and can provide the objective insights of an outsider looking in.

Our director/principal consultant has a degree in mining engineering and worked as a mining engineer before specialising in mining tyre management. He is the leading OTR tyre management consultant globally – from operational, technical and risk hazard/control perspectives.

4 SERVICE WE PROVIDE

We help mining operations reduce tyre related costs without compromising on safety. OTR GLOBAL can assist any mining operation, or company operating OTR tyres, that has tyre-



related incidents or safety issues, costs getting out of control, issues limiting haulage productivity, inadequate in-house expertise in tyre management, or plans to move to autonomous haulage and needs to factor in tyres.

Services that we provide include:

- Audit of OTR tyre operation (safety, purchasing, selection, maintenance, operation, disposal, culture, awareness).
- Solutions to specific tyre issues (abnormal failures, reducing life, escalating costs, etc).
- Investigation of tyre-related incidents (tyre fire, explosion, fatality, etc).

5 RESULTS

Results that we have achieved for clients include:

- Identifying savings of over 30% – more than US25 million per annum – in the mine's annual tyre bill, lost production due to tyres, and new tyre inventory holding cost.
- Finding the cause of – and recommending preventative controls for – a haul truck tyre fire that destroyed the tyre and caused significant damage to the truck.
- Demonstrating that the perceived drop in tyre life of a mine's haul truck fleet was an illusion – due to changes in haulage profile over time – and the recording of tyre life in hours rather than distance (the correct measure).
- Determining the tyre failure mechanism that was afflicting a mining operation's primary loader fleet and recommending a solution to resolve the problem.
- Preventing a several-million-dollar-per-annum mistake for a mining company that was about to purchase the wrong tyre specification due to faulty in-house tyre life analysis.

6 CORE COMPETENCIES

OTR GLOBAL has unparalleled expertise in mining tyre management and probably the most comprehensive OTR tyre management knowledgebase of any company operating in this field founded on global learnings over several decades.

We take a fact-based engineering approach to every job we conduct for a client with a broad understanding and full accounting of all associated risks and controls.

We have recognised proficiency in all aspects of mining tyre management including:

- Safety & risk management
- Purchasing & warranty
- Recording, testing, analysis & selection
- Maintenance & work procedures
- Operations, road design/maintenance
- Reconditioning (repairs & retreads)
- Disposal & recycling.



OTR GLOBAL is also expert on tyre pressure/temperature relationships, tyre explosion mechanisms and tyre fires and has lead investigations in each of these areas.

The value and professionalism of our work is universally acknowledged by our clients. We take pride in the quality and comprehensiveness of the report that we provide for each job undertaken.

7 EXPERIENCE

Our experience is derived from more than 30 years of providing on-site OTR tyre management and consulting service to clients in thirteen countries on five continents mining iron ore (haematite and magnetite), copper, gold, coal (metallurgical and thermal), diamonds, nickel, bauxite, uranium and mineral sands.

This work covers full audits of the site tyre operation – from cradle to grave, studies into specific problem areas related to safety, purchasing, failure modes, poor life or excessive costs, projects to big-foot mining equipment, and incident investigations related to fatalities, tyre explosions and tyre and haul truck/mining equipment fires.

8 MAJOR CLIENT LIST

OTR GLOBAL was established in 2016. Our growing client list covers mining companies, mining contractor, mining industry group, mining technical management consultant, mining safety/risk management consultant, OTR tyre service providers, OTR tyre manufacturer, specialty chemical and performance material company, and grain growing industry co-operative.

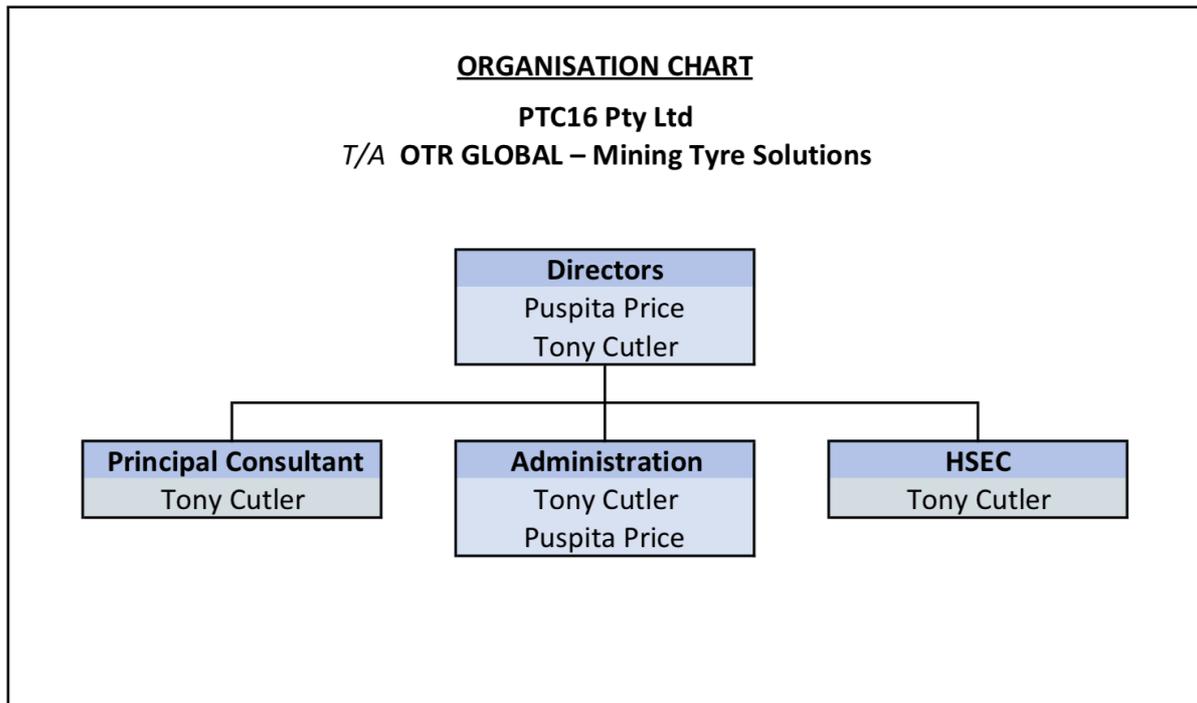
Our current client list includes:

- Fortescue Metals Group (FMG) – Australia
- Griffin Coal Mining Company – Australia
- Carbones del Cerrejon – Colombia
- Minera Lumina Copper – Chile
- Minera Cobre – Panama
- Rivet Mining Services – Australia
- Minerals Council of Australia (MCA) – Australia
- AMC Consultants – Australia
- Precipitate Risk Management – Australia
- Cabot Corporation – USA
- CBH Group – Australia

9 ORGANISATIONAL CHART

OTR GLOBAL has two owner/employees; we are a small company that punches above its weight.

Our organisational chart is shown below.



10 MEET THE TEAM

Our two owner/director/employees are Dewi (Puspita) Price and Anthony (Tony) Cutler.

Puspita’s main role is as director while Tony’s is as principal consultant.

Puspita has experience in the banking and hospitality industries and brings these proficiencies to the company in her directorship and administrative roles.

Tony has a Bachelor of Engineering (Mining) degree from the University of Queensland and is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). He started his professional career as a mining engineer for Hamersley Iron before joining an OTR tyre management provider where his roles included group operations manager, group technical manager and director South America.

His experience includes operations, technical and safety management and consulting covering Australia, Asia, the Americas and Africa – supporting more than 60 mines worldwide including some of the largest in each product category.¹ Tony was involved in the development of tyre management systems now commonly used in the mining industry – encompassing analysis, warranty, TPMS (tyre pressure/temperature monitoring system),

¹ Including Escondida, Collahuasi, Chuquicamata, Radomiro Tomic, (Chile), Carajas, Sossego (Brazil), Freeport, Batu Hijau, Kaltim Prima, Kelian (Indonesia), Mogalakwena, Sishen (South Africa), Jwaneng, Orapa (Botswana), Cerrejon, El Descanso (Colombia), Yanacocha, Cuajone (Peru), IOC (Canada), Asarco Ray, Caballo (USA), Yandicoogina, Whaleback, Solomon, Mt Arthur, Superpit, Argyle, Weipa, Ranger (Australia).

risk analysis and others. He has authored technical and white papers and presented to industry associations and final-year engineering students.

Tony founded OTR GLOBAL in 2016. He is widely regarded as the industry's foremost mining tyre management specialist.

11 KNOWLEDGEBASE

OTR GLOBAL possesses possibly the largest and most comprehensive knowledgebase related to all aspects of mining tyre management including learnings from problems encountered and resolved on mines around the world.

We have, in addition, a library of safety, technical and operational white papers covering OTR tyre, rim and chain management techniques – including two volumes on fatality and significant incident events, risks and controls associated with mining tire maintenance.

These technical/white papers are available to our clients.

12 AREA OF OPERATION

While based in Perth, Western Australia, OTR GLOBAL's client list is international. The consultancy has conducted business on four continents and will travel worldwide – subject to risk management guidelines.

13 HEALTH, SAFETY, ENVIRONMENT & COMMUNITY

OTR GLOBAL's goal is ZERO HARM; we believe that:

- All injuries are preventable.
- Safety is an individual and shared responsibility of all employees.
- Anyone can stop an unsafe act.
- The behaviour of our leaders influences safety.
- We can learn and improve.

We will care for and protect our people, the business, the communities in which we operate and the environment. We are committed to:

- providing a safe and healthy workplace, providing adequate resources to ensure safety objectives can be achieved,
- ensuring that safety is maintained as the primary value of our company,
- complying with all relevant laws, regulations, industry codes, licences, project requirements and standards,
- developing and maintaining a positive safety culture,
- setting measurable objectives and targets and reviewing these to continually improve our Health and safety performance,
- empowering our employees, clients and suppliers as appropriate in the quest for safer workplaces,
- ensuring our people are trained and competent.



To achieve this, we have established Health and Safety standards in compliance with AS/NZS 4801 and BS OHSAS 18001 and continually address risk management, hazard control, training, and employee involvement. OTR GLOBAL's employees share the responsibility including:

- presenting fit for work and work in a safe manner,
- promptly reporting incidents, unsafe practices and conditions,
- actively participating in the support and promotion of health and safety in the workplace.

While as a small company we are limited in providing direct financial assistance to local and indigenous communities in areas where we work, we are pleased to provide pro bono coaching and instruction in any area that can provide a group or communal benefit. This includes risk identification and management associated with tyre maintenance and any other appropriate assistance that may provide value to the community.

14 QUALITY ASSURANCE

OTR GLOBAL has a firm commitment to quality and continuous improvement. Our global perspective permits us to continuously update our methodologies through learnings from mine sites and industry advancements worldwide.

We remain at the forefront of our industry by routinely visiting mine sites and take every opportunity to review manufacturing and refurbishment facilities for tyre and rim products around the world.

We share advancements by compiling and disseminating white papers and presenting to industry groups.

15 INSURANCE

OTR GLOBAL holds the following insurances commensurate with the provision of professional consulting services globally:

- Professional indemnity
- Public liability
- Workers compensation.

16 CLIENT & ASSOCIATE TESTIMONIALS

Several testimonials from clients and industry associates are included below.

Tony is one of the best Tyre Gurus in the mining industry globally, I have used Tony's services a number of times for failure analysis, tyre lightning strike and full site audits. Tony's professionalism, knowledge and reporting are second to none. His recommendations have been very valuable to our business and what he doesn't know about OTR isn't worth knowing. I wouldn't hesitate to recommend Tony and OTR Global for any of our OTR Tyre requirements. Look forward to working with you again soon. **Kenton Bull, Principal – OTR Tyres at Fortescue Metals Group**



*I knew Tony from all the way back when I was in Kalgoorlie. Outstanding leader of tyre management for complex mine operations. He was not only extremely knowledgeable on so many aspects of tyre management, but also went out of his way to transmit that know-how to his colleagues and clients. Never compromises on the professionalism required to deliver honest and balanced advice to his clients. **Kapila Karunaratna, General Manager – Mitsubishi Development Pty Ltd***

*I've worked with Tony on and off for about 20 years. He's always been professional and cooperative. And he has a wealth of knowledge and experience in the mining industry as it relates to large-vehicle tire applications. I highly recommend him in this regard. **Peter Gilewicz, Managing Director at The Parker Bay Company***

*Tony's the go-to bloke if you need help and guidance on mine site tyre management and improving performance. Practical advice to the mining industry since we met on Mt Whaleback when the biggest trucks had only a 200t payload. **Andrew Grubb, Director – Mining at Optiro***

*Tony provided me with very useful information on managing mine haulage vehicle tyre explosion risk. His detailed understanding of how tyres perform under different conditions has helped me develop more useful risk mitigation measures. **Bill Carman, BC2 – Specialist Consulting Engineer in managing earthing, grounding and lightning related risk***

17 CUSTOMER SERVICE PHILOSOPHY

Our customer service philosophy is simple. We strive to provide each of our customers with the highest possible level of service in terms of professionalism, safety, respect and adding value to their business.

We try never to over-promise – rather always to over-deliver.



End of Compliance Statement

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