

AUSTRALIAN MINING EQUIPMENT, TECHNOLOGY AND SERVICES CAPABILITY GUIDE

September 2021



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PARTNERS FOR THE GUIDE



Australian Government
**Department of Industry, Science,
Energy and Resources**



**Government
of South Australia**

**Department for Trade
and Investment**



Government of Western Australia
Department of Jobs, Tourism, Science and Innovation



**New South Wales Government
Australia**



**TRADE +
INVESTMENT
QUEENSLAND**



HOW TO USE THE GUIDE

Guide Listings

The guide listings are in three sections, each preceded by its own contents page:

Section 1 : Government agencies related to trade, investment, industry and science promotion

This section lists Australian federal and state government agencies who are partnering for this publication.

Section 2 : Industry associations and growth centres

This section lists Australian industry associations and growth centres related to mining equipment, technology and services (METS).

Section 3 : Australian METS Suppliers active in India

This section lists Australian suppliers of mining equipment, technology and services (METS) who are active in the Indian market. Their supplies cover a range of METS to support mining, exploration and allied activities, and help to improve efficacy, quality, safety and environmental compliance.

Navigation

The following applies to the PDF version of the Guide :

Within each organisation's listing page, the URL is clickable to connect to the organisation's website, thus allowing access to up to date content from the website.

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FOREWORD BY HEAD OF AUSTRADE, SOUTH ASIA



Mining is a very important and significant activity for Australia and India, and both countries have been richly endowed with resources. The bilateral resource relationship rests on three pillars, two in place for long, and the third a result of recent important initiatives.

The first pillar encompasses mining equipment, technology and services (METS), being a field where Australia has global prominence. Australian METS suppliers have a growing engagement with India over the past three decades, offering wide ranging solutions

to enhance efficacy, quality, safety and environmental compliance in the mining and exploration sectors. They also lead the way in the digital transformation of mining.

The second pillar concerns Australia's ability to supply a few bulk minerals of importance to the Indian metals industry, especially coking coal to the steel industry. The Indian steel industry has grown to rank second in the world, and Australia is the main import source for this reductant. Other inputs such as manganese ore, copper concentrate and thermal coal are also supplied, as is a quantity of natural gas.

The third and most recent pillar, and one with significant future commercial and strategic implications, relates to critical minerals. These are vital for the renewable energy and electric mobility industries, the sectors of electricals/electronics and metal alloys, as well as for industries related to aerospace and defence.

In June 2020, the Australia India bilateral relationship was elevated to a Comprehensive Strategic Partnership, with a simultaneous announcement of a MOU on critical and strategic minerals, envisaging cooperation in the mining and processing of some of these minerals, and support to India's secure supply through investments and off take arrangements of others scarce in India.

Australia, through a concerted whole of government approach, is working with India to implement the tenets of the MOU with urgency. Initial findings reveal the importance of mid stream processing in the value chain, which reverts to the need for specialised METS.

In the backdrop of the growing bilateral resource relationship, the Australian Trade and Investment Commission are implementing the multi year Australia India Business Exchange (AIBX) program that aims to grow the two-way commercial relationships between Australia and India. Mining and Resources is one of the sectors prioritised for inclusion in the AIBX program, and the present publication, the Australian Mining Equipment, Technology and Services Capability Guide 2021 has been specially curated to provide information on Australian METS suppliers who are known to be active in India.

We hope you would find value in this publication.

Catherine Gallagher

Minister Commercial

Australian High Commission New Delhi and

Head of Australian Trade and Investment Commission (Austrade) South Asia

AUSTRALIA'S MINING AND RESOURCES SECTOR

Australia is a major mining and resources jurisdiction in the world, and the following statistics would show the contribution of this sector to Australia's economy.

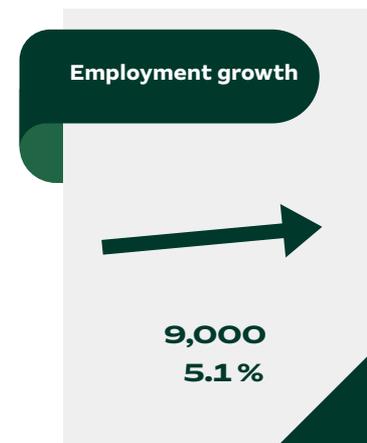
Income and EBITDA in the financial year 2019-20



Employment at the end of the financial year 2019-20



Growth between financial years 2018-19 and 2019-20



NOTES:

- The Australian financial year is from July to June i.e.
F.Y. 2018-19 is from 1st July, 2018 to 30 June, 2019
F.Y. 2019-20 is from 1st July 2019 to 30 June, 2020
- A part of the period in 2019-20 coincided with the Covid-19 pandemic
- Source: Australian Bureau of Statistics, Released 28.05.2021
- Values in Australian dollars

Importance of the Australian Mining and Resources sector to Australia's economy

World ranking for production of some important minerals

Bauxite	1	Manganese	2
Black coal	5	Nickel	6
Cobalt	3	Rare earths	4
Copper	6	Rutile	1
Diamond	2	Silver	7
Gold	2	Tantalum	6
Ilmenite	4	Tin	8
Iron ore	1	Uranium	3
Lead	2	Zinc	4
Lithium	2	Zircon	2

Source: Geoscience Australia. World ranking as at December, 2019

Industry share of output of key sectors

Mining: 11%

Export share by type

Resources: 66%

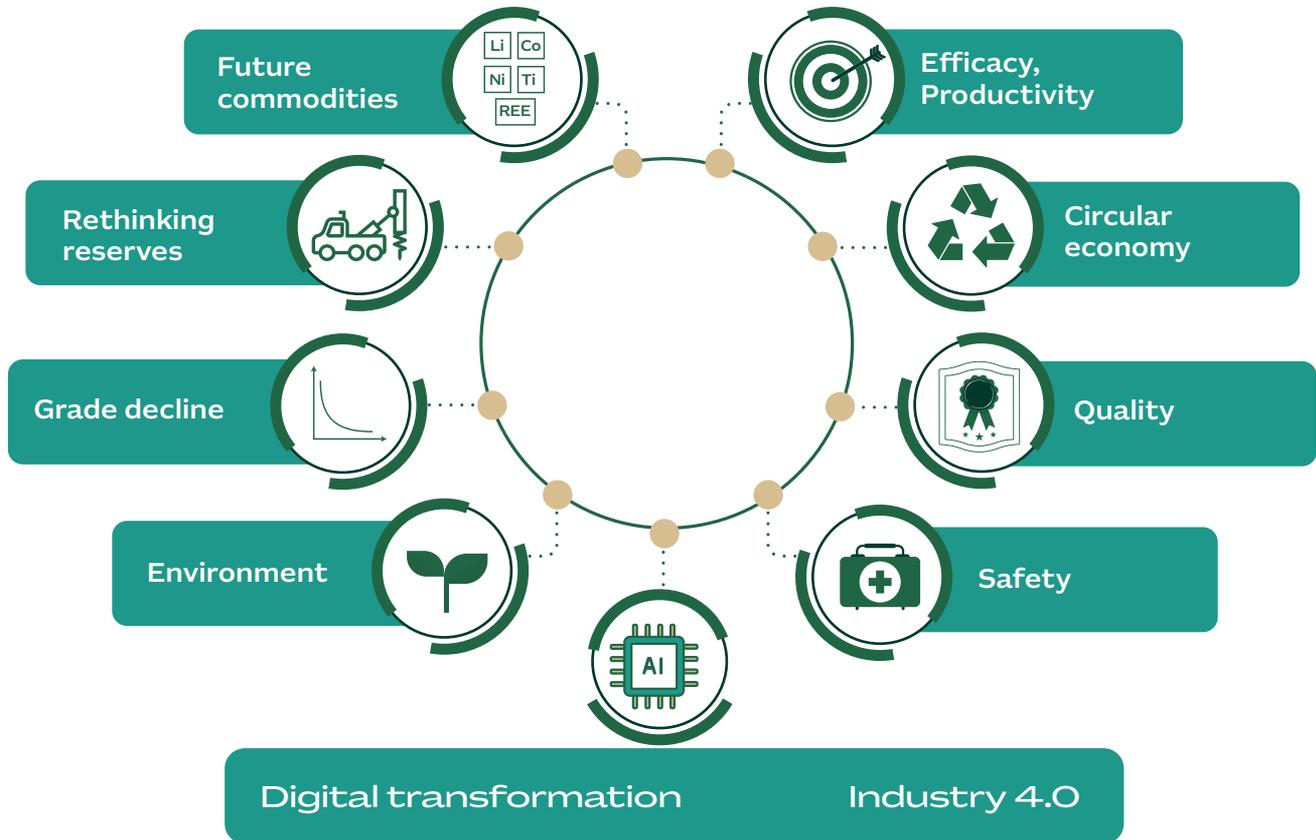
Source: Reserve Bank of Australia, 04.06.2021

AUSTRALIA'S METS SECTOR CAPABILITIES

Australia is acknowledged to be a world leader in mining equipment, technology and services (METS), and this sector is an aligned, innovative, agile and internationalised industry ecosystem.

Issues, Trends And Drivers For METS Solutions

In the backdrop of constrained capital and competition, the following considerations warrant METS solutions:



Australian METS Capabilities

Consulting	JORC Code reporting, Complex DPR, Grade engineering studies, Remediation and closure
Exploration	Geoscience data infrastructure, Exploration through cover, Deep earth imaging, Aerial surveying
Mining IT	Mine planning software, Drill and Blast software, Mine management systems, Intelligent response to asset conditions
High productive systems	Niche equipments and attachments for efficacy, Innovative blasting solutions, IT/OT convergence, Remote operation, Autonomous haulage
Beneficiation & recycling	Process algorithms, beneficiation components and equipments, recycling and recovery processes
Quality	In-motion weighing, In-motion mineral analysis, Bulk ore sorting, Advanced laboratory testing
Safety	Safety equipment, Safety systems and risk assessments, Safety testing
Environment	Water conservation, Dust suppression, Waste management, Landscape stability, Biodiversity
Industry 4.0	Digital transformation of mining

SECTION 1

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Government agencies for the promotion of trade, investment, industry and science

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Australian Government

Australian Trade and Investment Commission

Austrade-Australian Trade and Investment Commission



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Profile

The Australian Trade and Investment Commission (Austrade) is the Australian Government's international trade promotion and investment attraction agency.

We generate market information and insights, promote Australia's capability and facilitate connections through our extensive global network.

We are experts in connecting Australian businesses to the world and the world to Australian businesses.

Austrade is the first national point-of-contact for investors. We partner with state and territory governments to provide the information and the right industry and government contacts you need to establish or expand a business in Australia.

We help companies around the world to identify and take up investment opportunities in Australia as well as to source Australian goods and services for their global supply chains.

We outline what is available for international students who would like to study at our excellent educational institutions.

To discover how we can help you and your business, visit: austrade.gov.au

What we do

For international entities, Austrade can help you to:

- > **Buy from Australia:** Search for a supplier or product and discover Australian industry capability.
- > **Invest in Australia:** Discover opportunities in Australia and find out about doing business in Australia.
- > **Study in Australia:** Search for courses and read about studying in Australia.

For Australian entities, Austrade can help you to:

- > **For exporters:** Find out about export markets, grants, free trade agreements and how to expand your business outside Australia.
- > **For education:** Explore the latest news and opportunities for Australian international education providers
- > **For Tourism:** Find the latest policies, programs and research for Australia's tourism industry

Austrade in India

Austrade is represented in India by way of offices in the six locations of:

- > New Delhi (South Asia headquarters) and
- > Bengaluru
- > Chennai
- > Hyderabad
- > Kolkata
- > Mumbai

Austrade India is implementing the Australia India Business Exchange (AIBX) program from 1 July 2020 to 30 June 2024.

AIBX is a component of the Australian Government's new initiatives for a Comprehensive Strategic Partnership (CSP) between Australia and India announced in June 2020.

AUSTRALIA MINERALS

REALISE THE OPPORTUNITY



Australia Minerals

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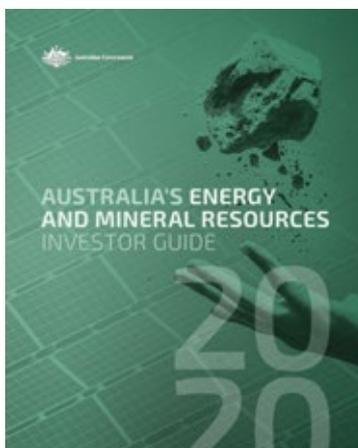
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To explore or invest in Australia's
energy and minerals industries,
start here: ga.gov.au/investorguide

Profile

Australia's mineral resources sector plays a vital role in our nation's ongoing prosperity. Maintaining our status as one of the world's pre-eminent destinations for mineral resources is a challenge that Australia is addressing. We are responding to global changes in supply and demand, resources security and technological developments and the increased focus on balancing investment in the sector, with strong corporate governance, and ethical, environmental and social responsibility.

Australia Minerals, a collaboration of Australia's federal, state and Northern Territory government geoscience agencies, aims to ensure that Australia remains a preferred investment destination for mineral resources exploration, development and supply. It provides a coordinated approach to promoting investment in Australia's minerals by implementing deliberate and strategic actions that: promote Australia's pre-competitive data for de-risking mineral exploration; highlight our mineral investment opportunities and credentials; and set us apart internationally as an attractive place to do business.

Australia has a rich and diverse mineral endowment and long history of discovering and responsibly developing high-quality mineral resources. This, combined with vast expanses of largely under-explored and potentially highly prospective areas, makes Australia an ideal place for investment in mineral exploration.

In addition, Australia's adherence to the rule of law creates an investment environment of low political and sovereign risk. Investors can have confidence in consistent and transparent management of economic settings such as foreign investment, labour, taxes and royalties, plus strong legislative and regulatory frameworks for environmental protection and health and safety. This robust governance together with Australia's enormous minerals wealth and potential, and well-coordinated government support for exploration and resource development, creates a competitive advantage for investors in Australia's mineral resources sector.

Australia Minerals provides unrivalled expertise and a record of innovation. We offer:

- > access to vast holdings of publicly available modern datasets, including pre-competitive geoscience data and information, to support mineral explorers
- > intellect, innovation and technology to apply to investment opportunities
- > assistance developing business, policy and investor relationships in the minerals sector
- > guidance through the investment process across Australia's jurisdictions
- > stable policy and regulatory frameworks that support and encourage effective and efficient exploration processes and technologies.

AUSTRALIA
MINERALS

REALISE THE OPPORTUNITY

Learn about
our government
initiatives online



To find out more about government initiatives that support industry investment in Australia's resources sector, please visit: australiaminerals.gov.au/initiatives



Australian Government
**Department of Industry, Science,
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Profile

The Department of Industry, Science, Energy and Resources is a department of the Australian Government, which contributes to the Government's efforts to drive economic growth, productivity and competitiveness. It brings together industry, energy, resources and science. Our divisions and agencies include the Critical Minerals Facilitation Office (CMFO), Office of the Chief Scientist, Office of the Chief Economist, Australian Space Agency and more.

The Critical Minerals Facilitation Office (CMFO) is the Australian Government's central coordination point to grow Australia's critical minerals sector through connecting critical mineral projects to finance and facilitating research and development to support access to Australian critical mineral reserves and downstream processing capabilities. It leads the implementation of Australia's Critical Minerals Strategy. The CMFO is also working to build meaningful international partnerships that encourage investment in critical minerals to meet global demand, secure offtake and help diversify global supply chains.

Under the Modern Manufacturing Strategy, Resources and Technology and Critical Minerals Processing has been identified as a National Manufacturing Priority.

The associated Road Map identifies key areas of opportunity and actions for government and industry to work together to lift manufacturing capability including driving scale and competitiveness through increasing commercialisation, translation of local research, supply chain integration and end to end integration. Funding is also available for the sector under the \$1.3 billion Modern Manufacturing Initiative (MMI) on areas of growth identified in the Road Map including resource technologies that improve sustainability, productivity and efficiency, enable technologies to be adapted for other sectors and support more advanced processing of critical minerals in Australia.

The Australian Government has released Australia's Global Resources Statement: reliable, responsible and ready for the future. The statement positions the nation's resources sector as a reliable, responsible and ready for the future trading partner. The Global Resources Statement promotes the quality, strength and reliability of Australia as a leading supplier of crucial energy resources and critical minerals to the world. The statement is the first milestone achieved under the government's Global Resources Strategy. The strategy is a part of the whole-of-government effort to strengthen and diversify Australia's trade relationships.



Government
of South Australia

Department for Trade
and Investment

Government of South Australia - Department for Trade and Investment



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Profile

About the Department for Trade and Investment:

The Department for Trade and Investment enables economic growth in South Australia by attracting investment, increasing exports, building global reputation and removing barriers to business.

We are responsible for driving business investment in the state across all industries, and for facilitating trade in all goods and services both interstate and internationally.

At the Department for Trade and Investment, we help you expand your business into South Australia and provide opportunities for investment.

About DTI – MENA and India:

The Department for Trade and Investment through its global offices in Dubai and New Delhi covers the key markets of MENA and India.

The Dubai office, covering the Middle East and North Africa, as well as India, is headed up by Sidharth Mehta, Regional Director for MENA and India.

To cover the India market, Varun Anthony, the Business Development Manager, is based in New Delhi and works with South Australian businesses looking to enter or expand within the market.

About South Australia's Mining Sector:

Energy and mining is a diverse and significant sector of the South Australian economy. It contributes \$9.2 billion or 8.3 per cent of our economic output through energy generation, storage, distribution and retail services, mineral resources, extractive materials, oil and gas, value-added processing and products from resources, equipment, technology and services, and direct construction of new projects. The sector contributes \$299 million in royalties, \$5.32 billion in exports and employs more than 43,900 people.

To read more about South Australia's Energy and Mining Strategy refer to:

https://www.energymining.sa.gov.au/__data/assets/pdf_file/0004/373243/205282_EnergyandMiningStrategy-Press_bookmarked-low_res.pdf



Government of Western Australia
Department of Jobs, Tourism, Science and Innovation



Government of Western Australia

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Profile

Western Australia in India

The Government of Western Australia office has been represented in India since 1996. For over more than 20 years the office has played an important role in the continuity and growth of the strong and vital relationship between Western Australia and India, both commercial and cultural. The Western Australia Trade and Investment team in India facilitates and enhances bilateral business relations between South Asia and Western Australia. We provide a number of services to help determine the potential and viability of entering the markets of India and South Asia and encourage investment into Western Australia. Our office is your first point of contact for the evaluation of your proposals.

Our mission is to support, help, coordinate and expand the important Western Australia- India trade and investment relationship and to assist Western Australia businesses to grow through exporting. We assist to generate new business connections and investments in a number of industry sectors including Mining and METS, Energy, Oil & Gas, Agriculture, Education and Tourism.

Western Australia is geographically the largest and one of the fastest growing jurisdictions in Australia with a population of 2.5 million people. Western Australia has an open and dynamic economy built on a long history of international investment and trade.

Western Australia welcomes foreign investment and offers a great environment for investors. The state is rich in mineral resources and petroleum, and has a track record of strong economic growth and successful resource projects. The state is strategically located to access expanding markets in Asia and an outwardly focused business and local culture has positioned

Western Australia to capitalize on growth in the region. Investment in the state is supported by a skilled and productive workforce, low sovereign risk and pro-development government policies.

Mining Equipment, Technology and Services sector in Western Australia

Western Australia is a global hub for mining equipment, technology and services (METS). Western Australia's METS sector is the global resources technology base for the Asian and Indian ocean regions, centered on servicing the global scale resource projects operating in Western Australia.

Western Australian based METS companies are held in high regard internationally for being technologically leading and able to operate in the world's harshest and most remote conditions. According to the Mining Journal Intelligence Global METS Investment Report 2020 of the 100 top METS companies globally, 77 operate in Western Australia, of which 22 are head quartered in the state. Some of these renowned companies are also operating in India and serving the Indian mining companies with their world class technologies and services.

Western Australia has 0.03% of the global population. Western Australian mining operators have developed this scale of production capacity with a small population base through local development of leading technology, services and equipment. Western Australia is the global leader in autonomous and remote mining operations. There are over 400 operating autonomous haul trucks across iron ore and open cut gold operations.

With 1.7\$ billion spent on mineral exploration and \$596 million on petroleum exploration in 2019-2020, representing 61% and 47% respectively of all Australian exploration, there is an ongoing resource development pipeline creating long term opportunities.



New South Wales Government Australia

New South Wales Government

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Profile

New South Wales Government

New South Wales (NSW) is Australia's largest State economically, contributing one-third to Australia's economy. The State's economy is over A\$ 600 billion, making it significant not only in Australia but also within the APAC region. NSW is home to one-third of Australia's population and workforce.

Mining, resources and energy is an important part of the NSW economy, driven by diverse and large mineral and gas deposits, exploration projects and a burgeoning renewable energy sector.

A major growth story

International powerhouses such as BHP Billiton, Peabody Energy and Anglo American already have active mining and exploration programs in the State often in joint ventures with smaller NSW companies.

Many products and services used today by the global mining industry were developed in NSW. These include coal longwall mining equipment, hydraulic roof supporting systems, roof bolting machines, advanced mining technologies, and mine planning and evaluation software. The sector is vital to Australia's economic growth. In NSW, METS companies are estimated to generate approximately A\$23 billion in gross revenue, which is 25% of the national total. They also play a critical role in supporting productivity, efficiency and optimisation for the resources sector.

A significant array of investment options

Companies and individual can choose from a diverse array of investment options, including :

- > Strategic minerals: cobalt, antimony, bismuth, tin, niobium, titanium, scandium, zirconium, tungsten, aluminium, PGMs, rare earths, hafnium, tantalum etc.
- > Multi billion dollar gas exploration projects
- > World class gold mines
- > Coal mines
- > Start up solar
- > Wind power firms

How can we help

The NSW Government's Trade & Invest Teams can help you establish, innovate, and grow your business in Sydney and NSW. Our dedicated team works with experts across all levels of government (federal, state and local) and business networks to provide customised information for businesses.

Investment NSW, announced on 9 March 2021, will take advantage of NSW's handling of the COVID-19 pandemic and the state's globally recognised position as a safe place to do business. The new body reflects the State's central focus on jobs, skills and investment, which forms part of the NSW Government's COVID-19 Recovery Plan.

Investment NSW is a 'one-stop-shop' for the private sector, allowing NSW to target new jobs and lure Australian and global investment, as well as talent, tourists, and students, to our state.



**TRADE +
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Trade & Investment Queensland, Australia

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Mining Equipment

Profile

Trade Export

Queensland is home to more than 800 mining equipment, technology and services (METS) companies, which provide innovative, technologically advanced and/or distinctive goods and services to the mining industry.

India is characterised by its huge land mass (3.3 million sq.km), population (1.3 billion people) and GDP growth (a predicted 7.4% for 2017–18). India's economy is the world's fastest growing, a title it is predicted to retain until 2020. To assist economic growth, the Indian Government has invested in infrastructure, universal energy access and power-sector revival, and skill and entrepreneurship development. It has also put in place the Make in India and Ease of Doing Business initiatives.

India represents a large potential market for Queensland METS companies

Investment in Queensland

With high-quality resources, reliable supply,

sustainable mining practices, and the latest in supporting technology, Queensland is at the forefront of global resource supply.

> Queensland is recognised globally as a leading destination for mining and resources investment and as Australia's gateway to Asian markets.

> Queensland's abundant natural resources include more than major coal deposits, as well as metals, phosphate rock, oil shale and minerals.

> We are the world's second-largest exporter of seaborne metallurgical coal, with a long history of supplying metallurgical and thermal coal and coal seam gas to global markets.

TIQ helps investors and trade partners harness opportunities by opening doors to local industry, economic development organisations, and local and state government agencies.

To explore opportunities to invest in our mining and resources sector, contact us today.



Queensland METS Expertise



Victorian Government Trade And Investment Office, South Asia



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Profile

Global Victoria is the State Government of Victoria's premier trade facilitation agency and gateway to global economies and communities. It opens the world to Victorian businesses and welcomes the business world to Victoria by pursuing strategic partnerships to maximise the trade objectives for Victoria and the Government's broader economic, social, and sustainability objectives.

Global Victoria has established an international network of 23 Victorian Government Trade and Investment (VGTI) offices in key export markets. The two offices in India (Bengaluru and Mumbai) play a vital role in the facilitation of trade and investment and develop stronger people-to-people links and institutional ties.

Victoria's leadership in the mining sector

Victoria is a global leader in the delivery of product and service solutions for the Australian and overseas resources sectors. Victoria's strengths in the METS sector are built on more than 150 years of mining heritage, a highly skilled workforce and proven capabilities in mineral exploration, mining products, engineering consulting, construction, information and communication technology and financial services.

Victoria's mining and METS sector produces a variety of commodities, including brown coal (lignite), gold, mineral sands, and base metals. Additionally, Victoria has the only antimony mine in the country. Victoria is also a national hub for METS exports, with strong manufacturing and engineering capabilities operating in both metropolitan Melbourne and in regional hubs such as Geelong, Ballarat, and Bendigo.

With Melbourne being a key financial and business centre and capital resources market in the Asia Pacific region, it complements and provides a competitive advantage in the mining sector. It serves as the headquarters for seven of the largest 20 ASX listed mining, metals and materials companies led by BHP Billiton, Rio Tinto, and Newcrest Mining. These companies have an annual revenue of A\$116 billion (2019). With its global reputation coupled with Australia's mining and METS credentials, Melbourne hosts Australia's most influential mining event - International Mining and Resource Conference (IMARC).

SECTION 2

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Industry Associations and Industry Growth Centres

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Profile

Austmine is Australia's leading industry association for the Australian Mining Equipment, Technology and Services (METS) sector. We drive the success of our members by providing opportunities to build relationships, understand industry needs, boost their industry profile and access domestic and international supply chains.

Austmine's membership now represents over 700 METS companies nationally. Within our network we offer a diversity of organisations from which to collaborate, innovate and build partnerships; from large contract miners, engineering companies and technology consultancies; to start-ups, research organisations and professional services firms.

For over 30 years Austmine has advocated for Australia's METS sector to be recognised as a world leader in mining innovation and technology. Working hand-in-hand with our members, we have achieved a number of significant milestones over this time:

- > Coining the now internationally recognised term of METS.
- > Demonstrating the importance of the METS sector as a key contributor to Australia's economic prosperity with our National METS Survey, providing over \$90 billion in gross annual revenue for the nation.
- > Founding and developing the biennial Austmine Conference, which is now recognised as the leading event for engaging in mining innovation.
- > Leading Australian technology delegations to the far reaches of the globe, from Papua New Guinea and New Caledonia, Canada, Ghana to Russia and Kazakhstan.

We are proud to represent the internationally renowned Australian METS sector and are working hard to ensure Australia is the global hub for mining innovation. Our values demonstrate our commitment to investing our effort and energy to driving growth and success for our members.



METS Ignited Australia Ltd.

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Profile

METS Ignited is part of the Australian Government's Industry Growth Centres Initiative from the Department of Industry, Science, Energy and Resources.

METS Ignited works with Australian suppliers to the mining industry, international miners, research organisations and capital providers to improve the global competitiveness and productivity of the sector. Australia's METS sector is a recognised world leader in innovation and technology development to support the resource sector. METS Ignited's strategic focus is on the commercialisation of that innovation and technology for the benefit of all sectors.

METS Ignited supports international markets by sharing local Australian METS capabilities, offering pathways for addressing overseas market demands, defining go to market options, creating partnership opportunities and orchestrating support programs such as export hubs and international mining challenges.

In addition to its work in International Markets, METS Ignited's main activities are:

1. Strategic Priorities

- > Alignment to Australia Resource Technology & Critical Mineral Processing Priority sector. This includes defining sector needs and aligning industry-led projects to create new employment

opportunities and increase productivity and sustainability of the Global Resources Sector.

- > Supporting initiatives to drive interoperability and accelerate information exchange, leveraging existing technology capabilities and transforming them into real commercialisation opportunities.
- > Industry-driven Research – Changing the way Australian research and innovation delivers value to mining companies through commercial pathways, including collaboration support and access to grant funding and investment.

2. Operational Programmes

- > Industry Clusters – Driving clustering activity across Australia with support from state and federal governments to bring together innovators of complementary expertise and establish collaborative ecosystems. Robotics and Automation, Tailings and Mine Affected Water and Digital and Data Analytics are some of the current clustering initiatives.
- > Masterclasses and Accelerators – enhancing commercial skills and capabilities of our technology leaders.

3. Collaborative Project Funds

Bringing together METS, miners, and research institutions to improve productivity, competitiveness & innovative capacity in the METS sector.

Since its inception, METS Ignited has funded 26 projects with a combined industry investment of over \$30 Million.



QR code MI Projects

SECTION 3

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Australian METS businesses active in India

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Advanced Industry Training



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Profile

Advanced Industry Training (AIT), RTO based out of Townsville, Australia is a specialized training organization delivering high quality Training & Assessment solutions and consultancy services that are tailored to meet client needs. Importantly, AIT is an industry veteran in the field of training, assessing, delivering flexible training solutions for over 25 years across a range of industry verticals including Mining, Construction, Logistics, Transport and Agriculture.

Currently, AIT have trainers situated delivering our training services in various states of Australia and expanding services internationally starting with India – initial focus is to bring our core competency and extensive experience to the Indian Mining Skills sector.

AIT firmly believes that practical and scenario-based training should be a key element of the training course for optimal outcomes and we bring in this important aspect into our programs.

Safety is an integral part of all of AIT's training programs so that the trainees are not only more productive but also conforms to the safety standards when they commence work on site.

Some of our key clients include: Crown Equipment, Onsite Rental, Queensland

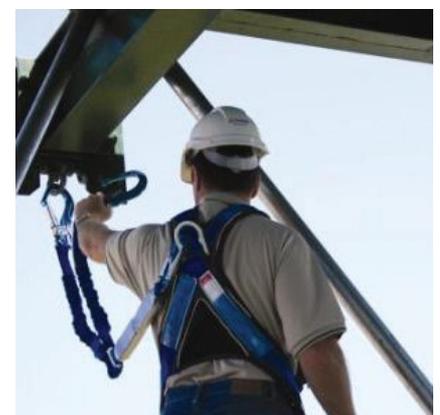
State government, Local Government bodies, Clermont Quarries, Ergon Energy

Why choose Advanced Industry Training for your training needs?

- > We have an Indian presence with our International Representative based in India
- > We specialise in the provision of training for Open cut and Underground mining (Coal & Metalliferous)
- > Skill Assessment & Skill Gap Identification services are available
- > Customised training packages for your site, benchmarked to Australian standards: Highly experienced Trainers and Assessors who work with our customers to determine the most suitable training solutions and the best method of delivery, to ensure minimal disruption to business operations whilst still providing the highest level of service.
- > Capability to deliver Online Training and Assessments – better return on investments and no need to travel.
- > Induction Training programs for new candidates and Supervisor Training for experienced personnel – across various areas of the mining operations
- > Skill Enhancement/Upskilling programs - We offer Recognition of Prior Learning and gap training for people who already have base skills.
- > Access to the AIT's management team for a quicker response.



Haul Truck operations



Work safely at heights



Alios Pty Ltd

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Profile

Alios -Circular economy solutions for the resources sector.

Alios is a specialist mine site rehabilitation and reprocessing company using innovative hydromining and material processing technologies to eliminate legacy environmental issues

Unique customer value is created with the Alios approach which offsets the costs of mine site rehabilitation by HydroMining and reprocessing material from tailings storage facilities (TSFs).

The Alios process brings together a suite of proven technology in innovative combination to deliver the safest, most reliable and low-cost approach to hydromining and material reprocessing.

Alios has re-engineered hydromining, delivering a step-change in safety and working conditions for operators while lowering the risk profile and energy use for Mine Owners. No high pressure, no manual handling, and no operators on the dam floor.

Alios will build, own, operate & maintain independent tailings hydromining and processing systems to produce saleable products from mine tailings or fly ash; with a tailored offering specific to each site's requirements.

- > World's best low input pressure HydroMining
- > Completely independent modular processing plants

- Multi-stage processing for multiple product suite

- > Extensive use of monitoring, automation and control technologies
- > Safe, efficient proven systems and processes
- > No interference/effect on existing site operations
- > Alios full system offering:
 - Resource Evaluation
 - Site Infrastructure build
 - Low-input pressure tele-remote HydroMining
 - State of the Art, sequential Mineral Processing
 - Dry Stack 'barren' tailings disposal
 - Binderless Pelletisation
 - Final Tailings Site Rehabilitation

A key emphasis for Alios is the recovery of Critical Minerals (CMs) and Rare Earth Elements (REEs). Currently, most CMs and REEs are recovered as by-products (or 'companion metals') from the processing of ores of major commodities. Consequently, there are opportunities to recover these elements from legacy tailings resources in which they have been concentrated but not yet extracted. REEs scarcely form natural ore deposits that are economically recoverable. As a result, only a few commercial deposits are currently being extracted worldwide.

We are committed to aiding our customers' implementation of the circular economy and limiting the environmental impacts of operations.



Alios HydroMining Control Room



Alios Binderless Coal Pellets



Alios HydroMiner 150™




AllightSykes

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Profile

AllightSykes
Global reach. Local knowledge.

For the mining industry, effective and efficient de-watering is vital. That's why AllightSykes, a well-known Australian company with a respected-stable of thoroughbred brands including Sykes pumps - is a global force: our cleverly-designed hydraulic systems are highly valued and trusted by industry-leaders around the world.

For a range of civil applications too, our vast-selection of auto-primed industrial pumps enjoy strong world-wide demand. With our innovative designs, high-grade steel and other premium materials - backed by over 50 years of manufacturing - we can greatly improve your liquid-handling capacity and reduce your maintenance.

Even more, with our extensive international presence - including manufacturing hubs, distribution centres and a suite of offices dedicated to after-sales support - spread across the entire globe, we're always close to the action.

From quoting, to manufacturing, to service or repair, our large network of trained, skilled personnel (we employ over 170 people globally) are always ready to visit your site - wherever you are - and keep your operation running smoothly.

Our customer service strategy, whilst far-reaching and surprisingly simple, is very effective. We place highly-experienced people - working from operational centres in Australasia, Africa, South America, Europe and the Middle East - and encourage them to immerse themselves in the local market and fully understand all local issues, from geology to pricing, from transport logistics to competitive demand.

Then with our integrated technology system and advanced communications, we empower each staff member to connect and share with our international network of specialist expertise. This means that everyone at AllightSykes is just one call - or one click away - from world-recognised experts and industry leaders in the fields of de-watering and mobile lighting.

In addition to our industrial Pumping products, our specialist Lighting Towers are also famous for effectively and efficiently getting the job done. With a unique mast design and light assembly, we ensure maximum light reaches the designated work area, improving performance and safety.

With our extensive global reach - coupled to unparalleled local knowledge - we help to improve on-site safety and optimise the productivity of your business.



Pump Model XH150 with CAT C13 at Copper Mine, Tanzania, Africa



Pump Model HH220i with Volvo Engine at Fomento Resources, Iron Ore Mine, Goa, India



Australian Mining Equipment

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Profile

Australian Mining Equipment is primarily an Original Equipment Manufacturer who designs, engineers and manufactures quality products to exacting standards. We have a dedication to our customers and an unrivalled desire to help their businesses succeed using our products. Our machines are backed by a group of Product Support professionals who provide a one stop approach for our customers to meet their needs. This group supplies information and advice on all aspects of our equipment's utilisation whether it be spare parts, maintenance schedules, trades and operator training through to repairs and overhauls.

Our core products that we manufacture for the underground global market include:

- > Man Transporters
- > 50 & 70 tonne Mine Dozer
- > 55 & 70 tonne Chock Haulers (LWC)
- > Mine Grader
- > Shearer Carrier 130 tonne
- > Flitmate (Flameproof Generator)

Our products are backed by our experienced engineering team that are dedicated to directly supporting our customers to ensure that your business needs and requirements are achieved. These products have been purpose built for the arduous mining environment, and industry proven to be the elite choice for machine especially in the Longwall relocation process.

AME pride ourselves on providing a better alternative for the mining industry by creating innovative solutions to industry problems. This dedication to innovative thinking allows us to step outside the normal bounds of other major manufacturing businesses and retain the flexibility and agility required to meet the changing demands of modern mining practices.



Mine Dozer



Longwall Chock Carrier



Australian Turntables

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Profile

Australian Turntable Company have been specialising in the supply of rotational platforms for global markets since 1987.

Mining, Cement and Infrastructure industries have all received the following benefits when including turntables;

- > **Improved Safety:** Turntables eliminate reverse manoeuvres for more simple dumping procedure.
- > **Increase Productivity:** Cycle times are reduced allowing for more material to be delivered to the dump hopper.
- > **Reduce CAPEX and OPEX:** Including turntables reduce cost of construction and infrastructure, and then when the mine is in production operating costs are also reduced.
- > **Save Space:** When turntables are designed into a project, significant areas of space are saved. This is a major benefit for tight sites, sites in mountainous or challenging environments & also for underground mining.
- > **Weighing Capability:** Included in the turntable is a weighing capability for accurate data collection on material being dumped into the hopper.

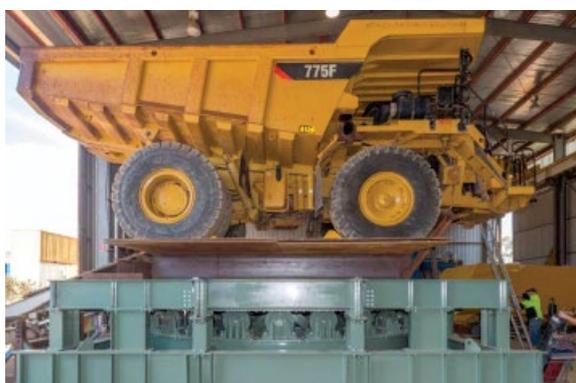
Australian Turntables are able to accommodate up to 300 tonne tippers and can be installed into the most challenging of environments.

The safety, increased productivity and space saving benefits are also available to other applications including;

- > Ports,
- > Maintenance facilities,
- > Materials handling,
- > Wash down bays,
- > Tunnelling,
- > Road & rail etc.

Australian Turntables are partnered with M/s. Empire Industrial Equipment (A Divn. Of Empire Industries Ltd), Mumbai a major Indian company who are able to support and service our Clients on a Pan Indian basis from design stage through to post sales.

ATC are proud to be a part of India's exciting future and look forward to a long term, mutually beneficial relationship with India's Mining Industry.



Mining Truck Turntable



Cement Plant turntable



Banlaw – Liquid Asset Intelligence

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Profile

Banlaw is the Liquid Asset Intelligence company.

Our integrated hardware, software, and built-in infrastructure capabilities provide our global clients with total fluid control.

For over 40 years, we've been delivering fluid management products and hydrocarbon projects for mines, railways, and other industrial operations. Banlaw is an Australian OEM of patented fluid transfer, fuel management, and machine identification technologies. With Banlaw, every drop ends up where you need it when you need it.

Integrated Fluid Asset Hardware + Software + Infrastructure

FillSafe - Fluid Transfer Products, designed to Fill Safe, and guaranteed to last.

ResTrack - Security, Access Control, Monitoring and Reconciliation of Fluids – Automated.

FlowLogix - Liquid Infrastructure Engineering, Built Solutions and Site Services.

Our Products and Services

FillSafe

- > Dry Break Refuelling Hardware – World-class, safe, automated refuelling solutions (including long haul in-line fuelling for Railways)
- > Tank Overfill Protection Hardware - Electronic and mechanical/hydraulic refuelling safety equipment, including fire-safe deployments

- > Fluid Transfer Couplings – Clean, efficient, filling & evacuation of service fluids, and contamination avoidance

ResTrack

- > Fuel Management Systems (FMS)
- > Resource Management Software (RMS)
- > Secure Auto ID solutions – Integrated inside refuelling hardware – totally unique to Banlaw
- > Business Intelligence Insights - Reports/Alerts/Analytics for operational certainty and proven cost savings

FlowLogix

- > Turn-key Engineered Solutions - Projects for fluid asset management including bulk storage, tank gauging, pumping, filtration, metering, dispensing, fluid security, process automation, safety systems, plus integrated hydrocarbon usage and fleet analytics
- > Ready-to-Deploy Solutions - Engineered delivery, storage, and dispensing systems, loading arms, and skids
- > Site Maintenance Specialist Teams - Including continuous improvement services and on-site education for improved safety, productivity, and environmental outcomes

With Banlaw you achieve safety, savings and control of your resources... peace of mind.



ResTrack - liquid access control, insights and optimisation



FillSafe - fluid transfer safety, cleanliness, and efficiency



FlowLogix - liquid infrastructure engineering, built solutions and site services



Big Tyre Pty Ltd

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Profile

Big Tyre has been manufacturing mining wheels in Australia for more than 20 years and has built a reputation as solid as its tyres.

According to Big Tyre CEO, Dan Louden, what sets the company apart as a premium solutions provider to the mining industry are its quality, reliability, custom design and problem-solving capabilities. With these attributes, Big Tyre has become the preferred supplier of solid wheels to major brands including Bucyrus, Caterpillar Global Mining and Russell Mineral Equipment. The most common use of our wheels so far has been on LHDs and trailers in underground coal mining although the potential applications certainly do not stop there.

Big Tyre has watched with interest as its competitors have copied some of its innovative modifications such as protective

side wall plates that significantly improve the wheel's longevity.

Another innovative solution the Big Tyre team is proud of is adding a stainless-steel centre to the naive plate to prevent the wheel from seizing onto the hub in particularly corrosive environments. Big Tyre's solid wheels have a range of benefits for mining applications, most importantly safety (no risk of tyre blow-out) and reliability, which means they are cost-effective with a long tread life compared to pneumatic tyres.

"We've got the quality, warranty and the reputation that stands by our product," Mr Louden said. "That's why we're the preferred supplier to multiple global original equipment manufacturers, mining equipment hire companies, and numerous independent mining companies and have our products used in over 50 countries around the world."



Caterpillar FBL55 Wheel



Sandvik TS490 (ED40) wheel



Business Science Corporation

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Profile

WE SOLVE. WE AUTOMATE. SO THAT OUR CLIENTS CAN PROSPER.

"Improved productivity means less human effort, not more." – Henry Ford

In today's 'golden digital age', companies that embrace Industry 4.0 (i.e. AI, Digital Twins, VR, IoT, etc.) are accelerating their outputs, scaling their cost base and becoming industry leaders in productivity, innovation and market share.

This evolution is becoming tangible with examples such as - Microsoft's Duplex AI assistant making telephonic bookings, Tesla delivering on the promise of fully autonomous vehicles and Amazon Go stores being completely run autonomously.

Business Science Corporation (BSC) is a group of diverse companies with a unifying goal of using Data, Science and Technology to enable better decision making and accelerate the client's ability to onboard Industry 4.0 capabilities. Over the past 20 years, BSC's single delivery objective has been to enhance our client's prosperity.

Examples of our offerings and client successes include:

Decision Augmentation / Automation through Digital Twins: with extensive experience in the mining and manufacturing sectors, we have created intelligent systems that are able to integrate to real-time IoT feeds, simulate the operational reality, predict likely outcomes and determine the most optimal configuration to maximise productivity.

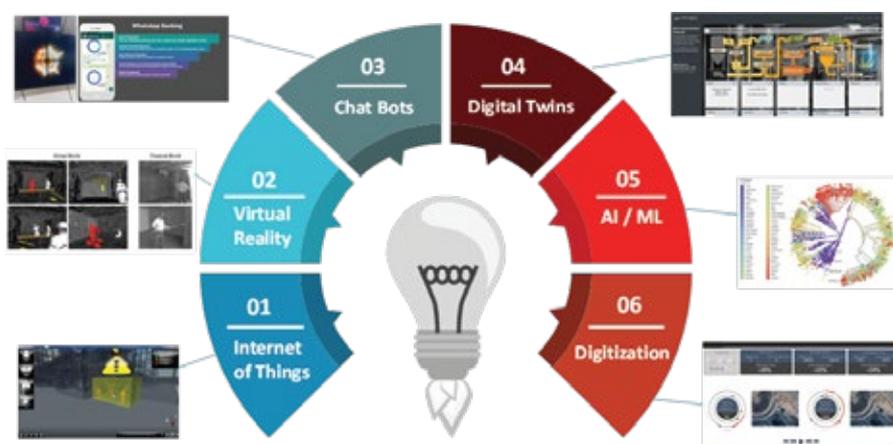
Productivity Improvement through Diagnostic Analytics: whether it is for improving productivity (reducing cost / increasing throughput), reducing residual risk, or improving safety, our diagnostic technologies and analytical toolboxes allow for managers to discover the link between 'Cause and Effect', such that the precise area of concern is highlighted and improvement actioned.

Integrated Planning through multi-faceted modelling: Our ability to integrate Value Stream Models (horizontal modelling), Value Driver Trees (vertical modelling), Operational Simulations (non-linear modelling), Financials (econometric modelling) and Stochastic Modelling, allows for senior executives to strategically and tactically plan in a collaborative manner - linking all aspects of the operation in one unified platform.

Impactful Training through Virtual Reality: The application of VR is a game changer in training, with a more than 4X improvement in knowledge retention and behaviour modification compared to traditional training methodologies. BSC has successfully applied VR training across mining, manufacturing, utilities, construction and professional services with a highly effective result.

Contact us today to unlock your digital potential.

Breadth of our 4IR Technical Capabilities





Cool Mine Pty Ltd

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Profile

Cool Mine Pty Ltd is the developer and manufacturer of its Patented Products, **The Cool Tube®, Hot Spots® and Air2Volts™**

Cool Mine Pty Ltd has established its brand as an innovative mining support company through the development, manufacture and sales of unique innovative products, that solve everyday problems in mining. Producing only high quality, user friendly products, we understand the need for simple effective solutions, that do not require valuable time and resources to implement, whilst giving measurable value to its customers with matters health and safety, compliance to legislation and operational availability.

PORTABLE CHILLED AIR For Mining & Heavy Industry

Mine Spec, compressed air driven portable 'air conditioners', delivering super cooled air to the workspace to combat the environmental condition of heat stress, and or assist in controlling the operational temperatures of equipment and infrastructure both internal and external.

The Cool Tube®, developed and manufactured for the intended use of:

- > Hot, humid underground mining activities that are low ventilation.
- > Confined space locations such as vessels, dragline tubs, hoppers and tank compartments.
- > Concealed areas, tunnels and shafts.
- > Positive pressure air-conditioned refuge chambers, operator stations, COBs and crib areas.
- > Fixed equipment and infrastructure cooling –IE: Transformers, electric motors and radiators.

YOU CAN'T PREVENT WHAT YOU CAN'T PREDICT.

The Hot Spots® 'predict-to-prevent' approach to detect failing idler bearings on conveyor systems, increasing **reliability and availability** of the conveyance system, through the **early detection** of conveyor rollers and idlers, failing in service. Prevent **frictional bearing heating's**, leading to an **unacceptable fire risk and production delays**.

SPOTTING HOT ROLLERS MADE EASY!



CORES SAFE

CoreSafe Core Solutions



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Profile

CoreSafe Core Solutions is now manufacturing in India. Our world-renowned CoreSafe plastic core trays are now "Make in India" and are being produced in India, made from Indian raw materials.

CoreSafe has won world acclaim and is in use in many parts of the world. The trays are currently manufactured in Australia, Canada & India.

We also offer consulting services for core logging and related tasks such as:

- > Work-flows.
- > Floor plan lay-out designs.
- > Handling equipment.
- > Storage equipment.
- > Systems.

We can help with:

- > Efficient & safe core handling practices.
- > Core library design, including space requirements.
- > Establishing a National Virtual Core Library using the same system as in Australia.

- > Core scanning equipment such as Kore Geosystems and others.
- > Image management software such as Imago.
- > Provision of CoreSafe trays, roller tables, photography equipment and handling equipment.

CoreSafe core trays use tough, durable, long-life plastic. They are recyclable, reusable and designed for maximum safety. Their estimated outdoor life span is extensive. In many cases they will last longer than the life of the mine-site.

CoreSafe has been gaining success for over 8 years and includes major companies such as Hindustan Zinc, Newcrest Mining and Glencore.

Please talk with us for any enquiries regarding core storage, transport, logging and equipment.

We are looking forward to working with through our local sales partners Terra Walker Drilling.





Deswik

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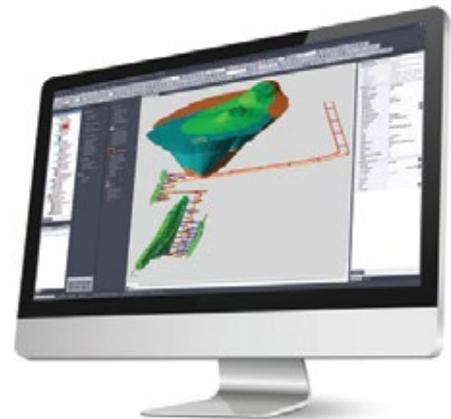
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Profile

Deswik is a global consulting and technology company that delivers efficiency focused solutions to the mining industry across all sectors and commodities, spanning across the various stages of the mine planning value chain. Our dedicated team of mining engineers and software developers provide solutions that deliver measurable value to our clients through our software, consulting and training offerings.

**Deswik.CAD –
Design & Solids Modeling**
A powerful design platform with
superior data handling – the
next generation of planning
tools for mining.



**Deswik.Sched –
Gantt Chart Scheduling**
A powerful Gantt chart scheduler
specifically designed to handle
the challenges of mine planning.



Duratray International

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Profile

Duratray International is a leading global designer and manufacturer of high-efficiency customised dump bodies for haulage equipment.

As part of Conymet International Group, Duratray has more than 45 years of experience in the mining industry. Currently there are over 2,000 Duratray dump bodies operating globally.

Duratray was established in Australia in the 1970s and is one of the premier suppliers of trays for trucks in the mining industry. Since being bought from previous owners Pacific Dunlop by Chilean holding Conymet in 2001, Duratray has grown its international presence in that time from eight countries to 34.

Suspended Dump Body (SDB)

The Duratray SDB combines impact-resistant, shock absorption features and the abrasion-resistant properties of rubber wear mat and a combination of specialised steels.

The SDB features a unique lightweight tray that comprises a flexible rubber wear mat supported by an abrasion-resistant steel frame and high-performance synthetic suspension ropes.

The system features a unique design concept that replaces the conventional steel floor, as well as any associated wear plates with a rubber mat suspended on elastomeric ropes anchored to the steel frame of the body.

There are currently more than 1,000 SDBs in operation in more than 30 countries worldwide with a high level of acceptance in large-scale open-pit mineral mines such as bauxite, coal, copper, diamonds, nickel, gold, and iron ore.

SDBs can be used in haulage environments such as large mines, quarries, and underground sites. It is also compatible with a wide range of truck types, including Caterpillar, Komatsu, Liebherr and Hitachi.

The SDB offers a wide range of operational benefits, including:

- > Reduced weight for an increased payload
- > Eliminates carry back for decreased fuel consumption
- > Higher resistance to abrasion
- > Improved load distribution and centre loading
- > Low maintenance compared to steel bodies
- > Reduced risk maintenance tasks, manning in remote locations, loading impact (-40%) and loading noise (-10dB)

XP Lightweight Steel Dump Body

The unique lightweight design of the XP Steel Light Dump Body enables clients to optimise payloads and production output, while minimising vehicle weight and maintenance periods.

The tray is made with high-technology steels that enhance the weight of the component, which enables weight reductions of up to 40% & transportation costs per tonne by 25%.



Suspended Dump Body



XP Lightweight Steel Dump Body



Exploration Drill Rigs Pty Ltd

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Profile

Exploration Drill Rigs (XDR) is an Australian company that designs and develops innovative onshore multi-purpose drilling rigs and workover rigs for the mineral and oil and gas industries which are manufactured at its Australian owned facility located in Ahmedabad India.

The XDR multi-purpose drilling rig platforms have evolved over 25 years of rugged field evaluation in Australian mining and minerals exploration industry.

The XDR 1200H Multi-Purpose Drill Rig and Water Well Rig (XDR 1200H) is the culmination of this infield experience, utilising tried and proven components from world recognised manufacturers. This design experience enables our rigs to withstand the harsh environments where exploration drilling takes place. Key components used have international warranties and the components and consumables are readily available and supported at our Ahmedabad facility.

The XDR1200H is a high capacity drill rig with a 10.3 metre mast structure, which delivers a 9 metre rod pull, while also providing more internal room for make and break options now available from Exploration Drill Rigs Pty Ltd. This "Make &

Break" unit, allows RC drill rod joints to be both mechanically tightened and un-tightened without any physical contact from the drill operators, eliminating one of drillings highest safety risk activities.

The XDR 800 Multi-Purpose Drill Rig and Water Well Rig (XDR 800) is a culmination of this experience, utilising tried and proven components from world recognised manufacturers to deliver yet another hard working drill to complement the XDR range. This rig has been specifically designed for use in the coal industry having proven itself in Australia.

Offering 14,400KG of pullback (variable) with XDR's new splined floating spindle rotation head, the XDR 800 drill is capable of undertaking 1000 meter H or 1600 meter N core hole programs which will meet the majority of mining company drilling programs. A digital on-board PLC monitors key drilling functions such as rotation speed, water pump flow, while also managing core functions such as main winch limiter to prevent winch overwind.

Please contact our office in Ahmedabad to arrange a visit or to obtain further information regarding the XDR Multi-Purpose Drill Rigs.



Australian designed XDR 1200 Multi-Purpose Drilling Rig manufactured in Ahmedabad



Australian designed XDR 800 Multi-Purpose Drill Rig and Water Well Rig manufacture in Ahmedabad



Flipscreen



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Profile

FlipScreen is the world's best, patented, high volume screening attachment that inexpensively and efficiently screens any material on-site for any industry.

We operate in industries such as scrap metal, mining, fertilizer, topsoil, pipelines and many more.

We use a patented design, with the latest engineering innovations driving our attachments for supremely efficient results. Our screening attachment is carrier friendly, requiring lower maintenance responsibilities than most other attachments.

Flipscreen is manufactured in a world-class facility in the rural town of Wagga Wagga in Australia. From this facility, we ship around the world to various distribution points, such as America, India, and UK. We are looking to open manufacturing facilities in the United States in the near future.

Our product started off as an award winner in innovation, however, we have continued to engineer and improve on our design to stay ahead of the game.

One such innovation is our Smart Valve. Flip Screen Smart Valve technology allows for any hydraulic flow and pressure without modification of the loader or excavator. This has been designed by Flip Screens R&D team and is a revolution in hydraulic attachments.

Compared to other screening attachments we have several distinctive competencies that stand out.

Our mesh size is changeable on-site, with no tools and only one operator in under 5 minutes.

Our buckets are able to screen any material, including corrosive.

It can be used underwater and for digging the fresh ground.

It has the biggest screening area in its class and doesn't require a hydraulics technician to be changed between carrier machines.

Flipscreen is screening material in over 43 countries globally and growing daily.



EX85 Small



BL80 Small



Global Drilling Systems Limited

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Profile

Global Drilling Systems (GDS) draws on the collective experience of individuals who have been involved in the underground Directional Drilling, Secondary Support, Development services and underground mining industry in general for decades.

GDS specialise in Directional Drilling, Secondary Support and Development services such as;

- > Equipment Manufacture and OEM.
- > Gas and water drainage.
- > Exploration, compliance coring, barrier proving and related gas/water drainage tasks.
- > Roof and rib bolting/tensioning, grouting, standing support, structure and supplementary labour supply.

- > Drivage and Development services.
- > Project management.

GDS operate a lean and efficient organisation structure, with ownership closely aligned with management. This ensures optimal client support and direct lines of communication to key company personnel.

GDS has built a reputation based on the ability to tailor equipment and services to the needs of our clients. We pride ourselves on being able to engineer and manufacture purpose-built equipment to satisfy the needs of the industry.



UIS Directional Drilling Equipment and services



Secondary Support equipment and services



Immersive Technologies Pty Ltd

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Profile

Immersive Technologies is the world's largest, proven and tested supplier of surface and underground Advanced Equipment Simulators to the global mining industry. The company has achieved this unique position by focusing on its mission to increase Customer profitability by optimizing the safety and productivity of their operators.

Immersive Technologies' Advanced Equipment Simulators are helping hundreds of mining companies around the world to increase their equipment operators' safety and site profitability through effective simulation training.

With advanced simulator modules deployed in 45 countries, Immersive Technologies is dedicated to provide outstanding service.

To deliver on this commitment the company has customer sales and support offices located close to its customers in Perth and Brisbane Australia, Salt Lake City USA, Fort McMurray, Vancouver Canada, Monterrey Mexico, Lima Peru, Santiago Chile, Belo Horizonte Brazil, Bochum Germany, Johannesburg South Africa, Jakarta Indonesia, Kolkata India and Moscow Russia.

Immersive has the global mining experience, innovative technology, product range, industry endorsement, proven support commitment and industry vision to partner with you to ensure your simulator training solution delivers the significant results you expect.



Mine Standards Training and eLearning Tools



Mining Training Simulators: PRO4-B and IM360 for Surface & Underground Mining.



Indian Explosives Pvt Ltd; IEPL (Orica Mining Services)

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Profile

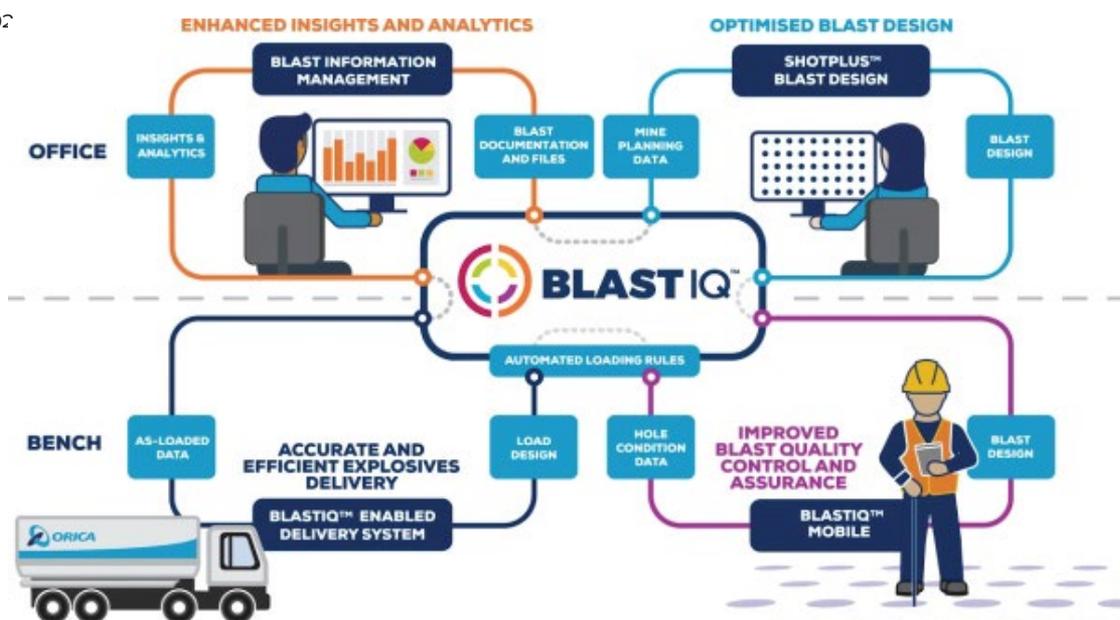
Orica is the world's largest provider of commercial explosives and innovative blasting systems to the mining, quarrying, oil and gas and construction markets, a leading supplier of sodium cyanide for gold extraction, and global technology leader in geotechnical monitoring products and services.

Our range of manufactured products are complemented by our digitally enabled blasting and delivery systems that drive safety and productivity outcomes. Our innovative software and hardware solutions help connect, measure and track performance across the mining value chain.

Our i-kon™ III Electronic Blasting System has enabled the largest construction blast ever in India, resulting in better productivity and timelines for our customer. Our digital products provide end-to-end benchmarks and insights at every stage of the blasting process.

FRAGTrack™ - automated capture and reporting of fragmentation data for analysis and correction in drill & blast designs, and BlastIQ™ platform to model, design, predict, measure, monitor, capture and optimize the complete drill and blast parameters.

IEPL fuels these and all existing technologies using Gomia Works' which manufacturers full range of explosives, initiating systems and accessories. Supported by three bulk manufacturing units located at Singrauli, Chandrapur and Rourkela and many storage sites close to our customers. Our world-leading Bulk Systems integrate products, manufacturing, logistics, equipment, and technical expertise, to create bulk explosives and deliver them safely and efficiently into the blasthole.



Blast Quality Control with the next generation BlastIQ™ Platform



IPACS



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Profile

IPACS designs, develops and sells asset management sensors, technology and software. They are at the forefront in the collection, monitoring and reporting of real-time asset performance in industries including resources, defence and manufacturing. IPACS operates in South Australia's first Remote Asset Management Centre, which opened in March 2015, to service the global resources industry. The Centre monitors the real-time asset performance of mining vehicles, boilers, smelters, SCADA systems and mining fixed-plant infrastructure for some of the world's largest miners and contract miners – including Arrium/Lucas, Thies and OZ Minerals.

Accreditations

- IPACS's systems have been accredited by:
- Det Norske Veritas (Certification Number: DSO-242-JEWA/Bvoe)
 - Lloyd's Register (Certification Number: 05/00086)
 - ABS Europe Limited (Reference Number: PID 450057).

IPACS Remote Asset Management technology helps miners and contract miners save millions of dollars by avoiding equipment failure and extending the life of machines. In a remote mine, unplanned machine failure costs many days of lost production.

The IPACS process begins with the retrofitting of existing Heavy Mining Equipment (HME) or fixed plant infrastructure at a mine site with different types of sensors. These sensors generate information such as vibration, speed and temperature.

IPACS technology uses wireless data transmission via the 3G mobile phone network to securely transmit data from anywhere in the world. Changes in vibration signature with respect to speed, are an accurate measure of a change in the equipment, indicating a fault or an impending failure.

At the IPACS Remote Asset Management Centre, Level 3 ISO certified vibration analysts use this data to determine the mechanical health of the asset in real-time. IPACS then provides reports in clear, easy-to-understood formats, enabling miners and contract miners to make informed and timely decisions.

Customers can also remotely login to the IPACS Centre directly and review their data and analysis reports. IPACS staff also provide support and training to customers. IPACS helps customers improve reliability by superior fault detection and identifying operational issues which cause faults. The solutions IPACS provides extends the life of machines based on the real time condition.

IPACS Data Acquisition System

IPACS sensors and data acquisition units have been certified to conform to the EN50155 railway electronic standards. IPACS technology has been accredited by Lloyd's Register and Det Norske Veritas for installation on-board many marine platforms in Europe.

IPACS predictive analysts are professional qualified engineers with IEEE accredited engineering degrees. IPACS vibration analysts are all Level 3 ISO certified analysts.



Remote Asset Management Centre



Ruggedised Instruments



KORE Geosystems

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Profile

Our vision is to provide clients with an end-to-end solution that is intuitive and easy to use, easy to setup, and enables efficient team collaboration. Our moto is “spend less time acquiring data and more time interpreting it” which is something we are continually working toward with our clients.

SPECTOR is the world leading core imaging and interpretation system providing unparalleled quality and control in the management and logging of core. The solution has been developed over the past 4 years to increase the quality and consistency of core logging and reduce the time spent on repetitive and mundane tasks.

SPECTOR enables senior management to make faster, informed decisions, while at the same time cutting time and operational costs.

SPECTOR GEO is a desktop software application which provides a hub for analysing data in a collaborative fashion. Using SPECTOR Geo, a geologist is able to depth reference their core, log lithology,

alteration, and veins, and pick geotechnical features such as fractures and faults. The software provides simple, intuitive touch gestures to log your core with ease.

SPECTOR OPTICS: An efficient, intuitive core imaging system that rapidly captures high-resolution, consistent images - uploading them in real-time to the KORE secure cloud. The instrument can scan up to 1,000m of core per day.

SPECTOR AI is a suite of cloud-based AI products that perform different tasks. Providing models to segment rock, classify lithology and alteration, detect veins, and localize fractures. All AI predictions are generated in the cloud after an image is uploaded from SPECTOR Optics.

REAL BENEFITS

In a recent survey, our clients have reported achieving unparalleled efficiencies in core management and logging when compared to traditional methods. The use of SPECTOR has on average improved data entry time by 44% for exploration projects and 29% faster for production projects.



SPECTOR OPTICS

An efficient, intuitive core imaging system that rapidly captures high-resolution images. Allowing you to scan at an average rate of 1,000m of core per day.



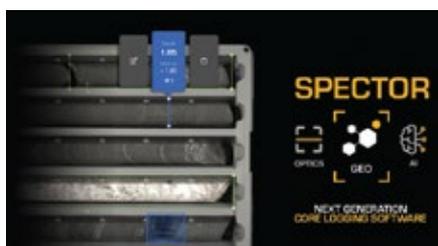
SPECTOR GEO

Our Geo software allows for a remote and collaborative environment, allowing your geologist to manage core, log lithology, alterations, veins & pick geotechnical features.



SPECTOR AI

Our suite of cloud-based AI products that automate tasks. All AI predictions are generated in the cloud in conjunction with images from SPECTOR Optics and corrections by SPECTOR Geo.



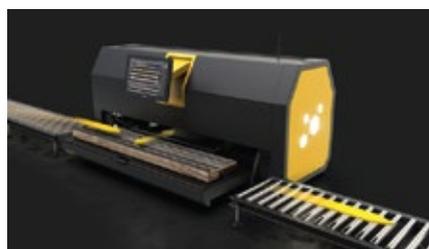
SPECTOR GEO

Reduce data entry time by up to 50%

Analyse core like never before with SPECTOR Geo. Our innovative desktop software is a centralised hub for analysing data remotely and collaboratively. Make better, more-informed decisions, faster than ever.

The software has AI-powered auto-prediction to speed up logging. Depth reference core, log lithology, alteration and veins, as well as geotechnical features such as fractures and faults all from within SPECTOR Geo.

Eliminate manual notetaking and bring the team together with software that is built around remote collaboration.



SPECTOR Optics

Up to 40% reduction in cost

Cost effective, efficient, and intuitive. Optics is a high-resolution core imaging instrument, designed to increase the speed & consistency at which core is analysed. Optics provides high resolution, ultra-clear and consistent imagery with the ability to accommodate a wide range of core box shapes and sizes.

The instrument has been designed specifically for the mining industry - it is reliable and can operate over a wide range of operating conditions.



L&M Radiator Pty Ltd MESABI® Flexible Core Heat Exchangers



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Voltas Limited **Appointed Sales & Aftermarket** **Replacement for MESABI®**

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Profile

L&M Radiator Pty Ltd is a manufacturer of heavy-duty flexible core heat exchangers available in many varied sizes and capacities for cooling water, oil, and air, under our brand name MESABI®

L&M Radiator Pty Ltd is a wholly owned subsidiary of L&M Radiator Inc. located in Hibbing, Minnesota, USA.

L&M has been based in Western Australia for 42 years and manufactures, services, and supplies parts for the Australian and Asian markets.

The unique design of MESABI® products can withstand arduous conditions due to each tube being located in a fluorocarbon seal, isolating the core from vibration and thermal expansion.

As a custom designer and manufacturer, L&M has the drafting and engineering

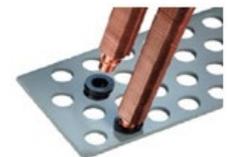
capabilities to design and develop heat exchangers for almost any heavy-duty cooling application.

The L&M product range covers complete radiators, radiator cores, oil coolers, charge air coolers and tube & shell heat exchangers and associated products; this allows L&M to solve our customer cooling requirements in a variety of extreme applications and environments.

Our engineers work directly with customers as well as original equipment manufacturers and engine manufacturers to develop custom design products.

The MESABI® heat exchangers are factory installed on such equipment as Komatsu, Caterpillar, Euclid, Hitachi, Sandvik, Joy Global, Epiroc, Liebherr and many others.

MESABI®
Flexible Core Heat Exchangers



By **L&M RADIATOR PTY LTD**

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Maptek Pty Ltd

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Profile

Maptek has been at the forefront of innovative mining technology for 40 years, providing the global mining industry with innovative, high quality solutions for the business critical technical challenges that operations face every day.

Maptek develops the most widely used, advanced and successful hardware and software solutions in the industry, supported by a large global R&D investment to ensure the mining industry is provided with the very best modern systems.

Maptek embraces new technology. Our applications target all mining types and commodities, providing the link between the geological, spatial design, execution and measurement details of a mining operation and the business outcomes and profitability of our customers.

Maptek enjoys building collaborative and productive relationships with our users and strives to develop and deliver innovative, technically robust solutions to meet their needs. New applications and technologies are founded on a proven track record of successful delivery to mining companies globally. Significant operational and quality gains can still be made in mine planning and technical operations, and Maptek is working to make these a reality.

The Maptek Group employs 350 staff worldwide, including software and hardware engineering, geological, mining, electronics and systems professionals. Each office in the Maptek network draws upon global support from technical and marketing teams.

Maptek provides local service and support whenever and wherever it is required to ensure that customers meet their goals.

Maptek products are used at more than 2200 sites in over 95 countries, with solutions across the mining cycle from exploration to mine site rehabilitation.

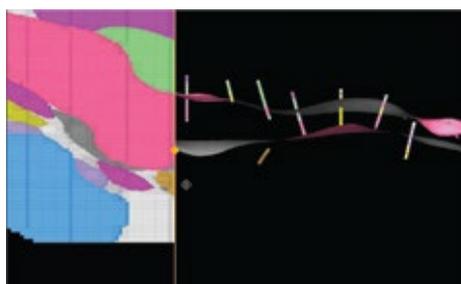
Vulcan is the premier 3D mine planning and modelling package. An integrated solution for 3D spatial survey and imaging is delivered through terrestrial laser scanners and **PointStudio**. **Sentry** is a laser-based system for monitoring slope stability, surface convergence and subsidence.

BlastLogic is intelligent 3D drill and blast management software that helps operations track and improve drill and blast performance to maximise the recovery of minerals. **Evolution** provides strategic and tactical scheduling and optimisation tools. **DomainMCF** applies machine learning to rapidly generate resource models.

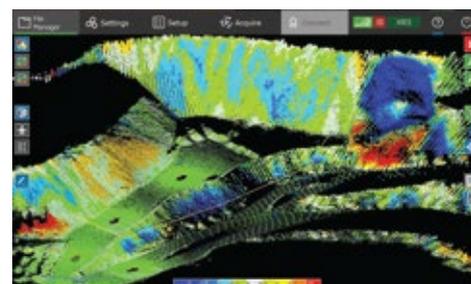
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Maptek Vulcan



Maptek FieldHHC



Megapulse Australia Pty Ltd

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Profile

Megapulse Australia Pty Ltd was founded in 1994; we began researching ways to combat electrical system and battery failure caused by battery plate degradation in 1995. We designed and developed our first Pulse Technology prototype in 1996, we began manufacturing and launched our Megapulse MK1 in 1997.

Some of our most notable successes have been to partner with Volvo, Scania and Mercedes to have them run their own in house tests on Megapulse Technology over a period of 5 years, at the end of which, Megapulse was introduced into each company's aftermarket accessory segments.

In 2005 Bama Dagligvare Vestfold AS, of Norway, a large distribution company tested Megapulse FAB for a period of 12 months, at the end of their tests management ordered Megapulse FAB for their entire fleet of vehicles at their Stokke plant.

In 2007 Unibuss AS of Norway, began testing Megapulse FAB on their fleet for a period of 2 years. At the end of the test, Unibuss installed Megapulse FAB for their entire fleet of 460 busses.

In 2011 Volvo Sweden began installing Megapulse under its own brand, installing

over 100,000 units, Mercedes, Scania and MAN installed over 20,000 units.

Over the past 26 years we have continued to research and develop ways to make our technology more effective, we manufacture our technology in Australia in ISO9000 certified facilities.

Our Pulse Technology has been tested by independent scientific organizations such as CSIRO in Australia and UNITECH in Europe, each time confirming Megapulse efficacy.

Megapulse Technology is innovative and ahead of the competition in its functionality, features offered and results achieved. The benefit of our technology to OEM manufacturers is reduced warranty claims and increased reliability, and for commercial customers it comes in the form of reduced downtime and increased productivity.

Megapulse Technology incorporates an industry standard load test, which actually tests the health of the battery and displays the information to the user.

Megapulse is also the only pulse Technology compatible with all DC systems from 6 volt to 48 volt and beyond, by installing additional units in series any voltage battery bank can be conditioned.



Heavy Duty Battery Conditioner, Model HD648



MineARC Systems

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Profile

MineARC Systems is the global leader in controlled environments and safety technologies for the underground mining, tunnelling, chemical processing, disaster relief and biotechnology industries. We specialise in the manufacture and supply of emergency refuge chambers, safe havens, disaster shelters and grow chambers, as well as a range of remote monitoring, tracking and communications technologies that allow full integration in heavy industrial applications.

With 20 years' experience in the field, our dedication to ongoing research and development has kept us at the forefront of controlled environment and safe refuge technology. MineARC Refuge Chambers have been used successfully around the world in multiple mining and tunnelling emergencies to save lives.

With a strategic focus on client support, MineARC has offices and manufacturing facilities in Australia, South Africa, Chile, China, Europe, and the United States, as well as a strong distribution network worldwide. MineARC is able to provide clients with 24-hour global support on custom design projects, commissioning, and servicing.

MineARC Systems engineer, manufacture and supply industrial equipment to operations in over 60 countries. All MineARC Chambers comply with the highest international regulations and recognised 'world's best practice' industry guidelines. Ensuring the highest quality control specifications are met, MineARC is the only manufacturer of refuge chambers and safe havens worldwide with an ISO: 9001 quality rating.



MineARC's ChemSAFE Safe Haven,
installed at an Indian petrochemical facility



Inside a MineARC Refuge Chamber;
providing breathable air and life-sustaining
conditions for at least 36 hours



MineExcellence Drill & Blast Platform

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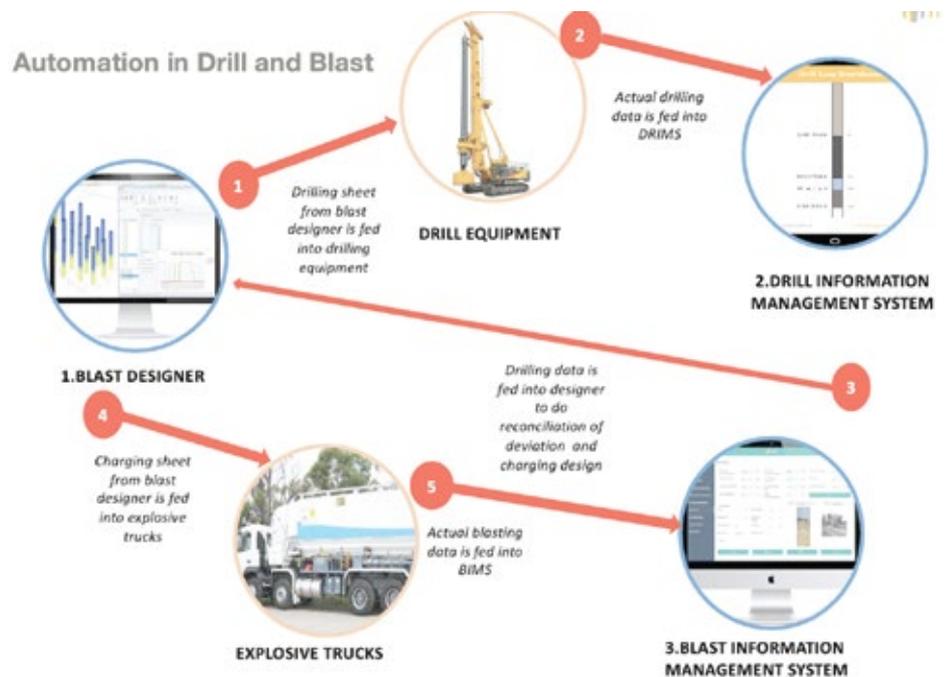
Profile

MineExcellence Drill and Blasting Platform is a cloud and mobile based platform to design, predict , simulate , store, manage, report, analyze and retrieve Drill and Blast related information.

Following modules comes under Blasting Platform –

- > Blast Designer
- > Blast Information Management System (BIMS)
- > Drilling Information Management System (DRIMS)
- > Smart Blasting App
- > Predictors
- > Management Portal

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Minelab Electronics Pty Ltd

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Profile

Minelab is an Australian Company and is part of the Codan Group, which is listed on the Australian Stock Exchange.

Minelab is the world leader in providing metal detecting technologies for consumer, humanitarian demining and military needs. Through our dedication to research & development and innovative design, Minelab is the major world manufacturer of hand held metal detector products. Over the past 30 years, Minelab has introduced more innovative and practical

technology than any of our competitors and has taken the metal detecting industry to new levels of excellence.

Minelab's technology innovations are led by physicist Bruce Candy.

In India, Minelab are looking for Distributors and Dealers to develop the market, particularly in the Gold, Treasure and Outdoor Adventure segments.

Minelab is in the process of setting up a fully incorporated local company in India.



Minelab EQUINOX Detector . Great for serious detectorist.
Has MULTI IQ Technology



Minelab VANQUISH Detector. Great for beginner detectorist.
Has MULTI IQ Technology



Mineral Technologies Pty Ltd (A Downer Company)

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Profile

Mineral Technologies is a recognised leader in mineral processing solutions worldwide. Throughout our 80-year history we have fulfilled our commitment to turn knowledge into value by delivering a comprehensive range of integrated equipment and services that cost-effectively transform ore bodies into high grade mineral products for customers.

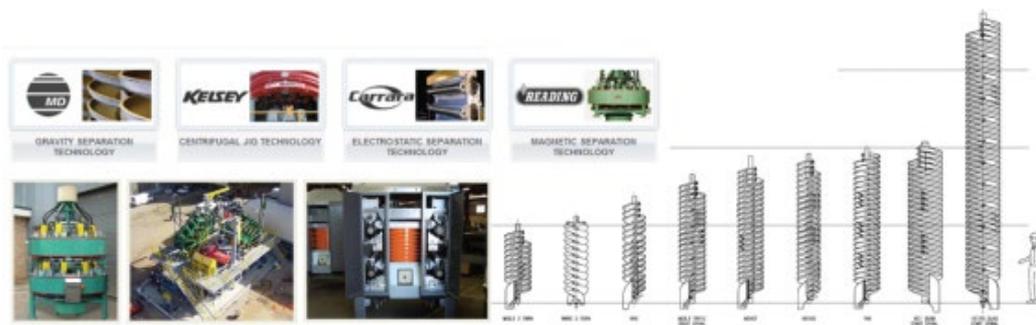
Today, our commitment continues with the ongoing release of an expanding range of minerals testing, plant design and mineral separation equipment solutions across the mineral sands, iron ore, coal, industrial minerals, Silica sand and metals sectors.

Core Capabilities

- > Mineral testing and process design
- > Process plant design
- > Process optimisation
- > Design, manufacture and supply of mineral processing equipment
- > Equipment commissioning and training

A key element of our ongoing commitment is close collaboration with customers in the development of innovative equipment and services to meet specific mineral processing needs. This has resulted in long standing customer relationships, often developed during the upgrading and expansion of existing mineral processing operations, and the establishment of significant new equipment installations worldwide.

In addition to our collaborative approach, we proactively research and develop new equipment designs, manufacturing materials and technologies to continually improve throughput, grade and recovery, equipment durability, overall safety and environmental outcomes that deliver cost effective solutions for customers.



Range of world class mineral processing equipment



In house mineral testing , process design and engineering plant design services



Mipac



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Profile

Mipac is a global leader in operational technology, control systems & engineering services. We work across a range of industries to create opportunities for transformation, partnering on both greenfield and brownfield projects. Our operation-enhancing solutions empower and engage workforces by providing automation and digitalisation that enables easy decision making and increased productivity, performance and safety.

We diagnose, design and deliver high-quality intelligible solutions that reduce variability and create reliability. Our engineers, control-system designers, instrumentation specialists, software developers, and optimisation experts help you remain productive, efficient, and competitive. They do this by applying their knowledge, founded in real-world experience, and drawn from globally renowned projects and products with the latest tools and methodologies in automation, electrical design, and digital solutions. We work across the following industries and sectors:

- > Mining, Minerals & Metals
- > Power & Renewables
- > Chemical & Fertilisers
- > Manufacturing
- > Oil & Gas
- > Ports
- > Pulp Mills, Paper & Cardboard

Operating globally, we provide an extensive range of services. From solid software and engineering foundations through to the latest innovative advancements in digital technology, Mipac are your trusted advisors for all aspects of an operation.

Our services

- > Control system and industrial software engineering
- > Operation technology, business intelligence and decision making
- > Specialist consulting
- > Health checks and actionable roadmaps
- > Instrumentation engineering
- > Electrical engineering
- > Procurement
- > Commissioning and support

We have also developed a flexible range of products that enable automated decision-making and continuous improvement. From cloud-based digital solutions that enable real-time visualisation and reporting to physical monitoring systems that provide continuous measurement of specialised operations, we help you increase productivity, reduce costs and optimise operational performance.

Our product range

- > Cellview
- > Copper Monitor
- > E-Learning
- > MPA
- > ShortMeter
- > SMART Tankhouse
- > TCard

We understand the complex challenges operations face every day through our depth of real, onsite experience from a history founded in the mining sector. With a world-leading reputation in solving operational problems, minimising risk and driving productivity, we have delivered more than 300 projects worldwide.



Copper Monitor



Cellview®



ShortMeter™



SMART Tankhouse



Motium

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Profile

Founded in 2002, Motium is a privately owned Australian company that specialises in the design and manufacture of rugged, robust, reliable computers, LCD monitors, IoT, and networking equipment for use in rugged and harsh environments, such as mining, automotive, municipal services, public safety, and military.

Our customers are software development companies and system integrators who require reliable, rugged technology to deploy their solutions. We form long-term partnerships with our customers, becoming their trusted hardware supplier. Globally dispatching over 15,000 products annually, consisting of millions of individual components, our global customer base advise we are the benchmark in our industry.

Motium's products are fully engineered for each target application by our in-house design engineers. We have a strong, proven management team leading 42 personnel with 250 years of engineering experience. What sets Motium apart is the depth and breadth of our internal engineering, together with the level of technical support we provide our customers.

Typically, Motium designs standard products which can be customised to meet specific customer requirements. We also design fully-custom products to meet specific customer requirements.

Customisation can be as simple as changing the branding (including colour changes) through to the design of custom I/O interfaces to meet specific requirements. All Motium devices are designed to seamlessly integrate and operate on one platform. Client involvement leads to a bespoke rugged technology solution.

We have demonstrated skills in successfully designing rugged technology products which operate in the field for many years in harsh environments. This trusted quality allows for uptime reliability. Our technical engineering capabilities include continuous vibration, ISO-7637 load-dump and power transients, water and dust proof to IP65, IP66, IP67 and IP69, operating temperature ranges of -40C to +70C (with +95C survivability), and high ambient light levels. Design of low-power consumption electronics to conserve battery power. Design of integrated battery packs and chargers.

We are the company of choice for reliable, robust, rugged technology for harsh environments.



Manufacturing



TUFF Panel PC by Motium (MPP-1020 10.4 inch)



Nome Services Pty Ltd

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Profile

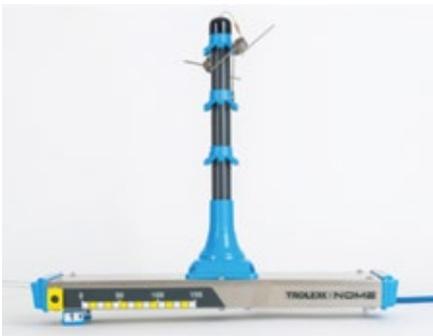
With over 15 years in the mining, tunnelling and construction industries, Nome's reputation has grown to attract the best people who wish to be part of a strong team with a positive culture. Now at the forefront of the industry, Nome is leading the way in real time monitoring by partnering with global leaders such as Trolex and Geokon. As a result of continual growth, the team at Nome has assisted in bringing the mining, tunnelling and construction industries out of the dark ages, introducing new technologies to create a safer work environment and provide cost effective solutions for companies in challenging times. Nome are committed to exceeding client expectations both on and off site.

We offer the following services: Installation and maintenance of real time monitoring equipment Surface and underground maintenance and production technicians, Complete project management, Project Supervisor and Co-ordinators Electrical, Mechanical, Geotechnical Engineers Telecommunication Technicians Panel and enclosure wiring Underground and field electrical maintenance.

Our world leading, Rock Monitor XR System monitors the integrity of rock structures in underground mining and tunnelling and ensures the highest levels of worker safety, providing real time continuous data to allow optimisation of roof support planning. Our telltale systems have been proven in some of the worlds largest mines to dramatically improve safety and increase efficiency – independently assessed to reduce injury and incidents reports by 65% and increase productivity by 40%.

- The RockMonitor XR system tracks strata movement throughout the mine in real-time, providing information to central control areas and giving advance warning of excessive displacement.
- Respond early to prevent stoppages due to excessive strata movement, and in the worst case scenario where rockfall cannot be prevented, to facilitate the early evacuation of mine personnel and equipment.
- Automated notifications provide advance warning of excessive movement so that workers never have to take unnecessary risks.
- Significantly improve bolting strategies by analysing detailed rate-of-movement graphs to determine the optimum amount of protection. An independent study showed a 49% cost reduction in standing supports through increased spacing with the Trolex-Nome telltale system deployed.
- Increase the up-time on longwall operations, through efficient deployment of assets and by eliminating the need to stop production to take manual readings. Information is transmitted back to the control centre with information displayed via sophisticated application software. The system can also integrate with SCADA platforms to provide continuous information on the system status.

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Email: subrata@vishwagroup.co.in
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Trolex Nome Rock Monitor XR



Rock Monitor XR Daisy Chain



Real Time Instruments

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Profile

We are an Australian company that specialises in on-line analysis of bulk materials and the delivery of industrial radiation equipment service.

RTI manufacture specialist equipment that provide real-time reporting of key quality measures of bulk materials as they are transported on a conveyor belt and by other means. We measure the elemental composition of cement, coal and most minerals. Our technologies analyse moisture content in a very broad range of materials. We also measure the total ash content in coal, and density of liquids and slurries in a pipe. RTI distributes high performance belt weighers (belt scales) and tramp metal detection and removal systems. Our customers range from small food processors to large multinational mining companies on all continents.

The summary of the products and services that we offer are:

Products

- > Cross Belt Elemental Analyzers – PGNAA analysers which can be used to determine the elemental analysis of Coal, Cement, Iron Ore, Bauxite, and many other minerals.
- > On-Line Coal Quality Analyzers – Can be used to determine the Ash content of the coal

- > On-Line Moisture Analyzers – The MoistScan on-line moisture analyser uses patented microwave technology to accurately measure total moisture in bulk materials.
- > Density gauges – The Digital Density Gauge is used in a wide range of pipe applications. These include coal slurry, mineral slurries, sewerage and sludge. Our gauge is especially popular in the coal industry with many wash plants throughout the world using the DD-1000 in dense-medium circuits.
- > Conveyor Belt Scales
- > Metal Detectors

Services

- > Installation & Commissioning
- > Calibration & Maintenance
- > On-Site & Remote product Support

As the experts in our field, our engineers will ensure you have the right equipment for the right application, and that it continues to provide you a return on your investment for many years.

Our services include:

- > On-site supervision of installation, commissioning and calibration of all new equipment we supply
- > Comprehensive annual product service agreements and maintenance plans
- > Calibration, repairs, upgrades and maintenance for all leading brand belt weighers
- > Refurbishment and upgrades to most brands of elemental and coal ash analysers
- > Comprehensive and cost-saving remote monitoring and diagnostics for our on-line analysers
- > Calibration checks of density gauges, belt scales, and elemental, ash and moisture analysers
- > Complete radiation source management from supply through to disposal
- > Radiation compliance and safety monitoring of nucleonic devices*
- > RSO (Radiation Safety Officer) services*



AllScan Elemental Analyser



Rheology Solutions Pty Ltd

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OnLine Rheometer Series 1000

Profile

Rheology Solutions Pty Ltd is a private owned company established on 13 April, 1998 to service the requirements of the materials science market in Australia by providing the world's leading products and supporting sales and distribution with service, technical support and education.

Rheology Solutions is dedicated to the science of materials characterisation, marketing and supporting a range of rheological and material characterisation instrumentation to private industry and government institutions. We offer specialist advice, sample analysis and characterisation of a wide range of material tests in a fully equipped rheology laboratory.

In 2002, the Head Office moved to Maddingley, Australia working with a team of specialist sales and factory trained service personnel throughout Australia and the World. The combined experience of this team ensures that Rheology Solutions are able to provide their customers with access

to the best products and ensure that the right technical support and service is provided.

Rheology Solutions established a dedicated OnLine Rheometer Group in July 2011. The goal of this group is to develop and commercialise an OnLine Rheometer (OLR) to meet the process monitoring, process control and quality control needs across various industry applications. The OLR has been developed and manufactured by Rheology Solutions and is designed to continuously measure, plot and report the flow properties of process liquids in the pipe. The OLR will provide instant and accurate rheological data in real time so that manufactured and processed products are produced and maintained within specification. The OLR is designed for use in a process pipe, and it continuously measures and relays the data to the process operator through SOLR, their proprietary software for the OLR.



OLR SERIES 1000 for application in mining and mineral processing operations

ROOBUCK

Roobuck Pty Limited



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Profile

Roobuck is a leading provider of **Cap Lamps, Safety Signal Lights, other Explosion-proof Products and MineIoT Solutions.**

Accreditations: Ex Certificates/Approvals: IECEX, MAHS, IA, CNEx. Ex Quality Standards: ISO/IEC80079-34 and ATEX Directive 2014/34/EU for Exia and Exd

Products

- > **Cordless Cap Lamps:** Two series for high performance and good value for different applications. Wireless model for tracking and other functions. Complete charging facilities.
- > **Safety Signalling Lights:** Helmet beacons, LED shoulder braces, Hi-Vis LED Vest, Strip signalling light, Runway lights for Underground mines.
- > **Industrial Lights:** Flameproof truck light and Sandblast light

MiIoT Solutions

- > WiFi system for tracking, emergency, zone management and communications,
- > PPE Kiosk in RFID/NFC and Face Recognition,

R&D Services for Wireless Devices:

Roobuck provide development services for our partners for intrinsically safe or industrial wireless devices in any wireless standard, such as wireless cordless cap lamps, rechargeable belt tags with charging banks and upgrade partners devices into wireless ones. Roobuck wireless system is an eco-system open for partner wireless devices to join.

Customers: BHP, Rio Tinto, South32, Glencore, petroleum companies, military, and government

Global Reach: NZ, PNG, Mongolia, Uzbekistan, Kazakhstan, UAE, Qatar, Saudi Arabia, Egypt, Indonesia, Singapore, South Africa, Zimbabwe, Brazil, Chile, Colombia, USA, Russia, Sweden.

R&D Projects: Mainly wireless projects for digital mines supported by commonwealth and NSW state government, universities, mining companies and industries, centralised on a \$5m CRC-P project called DeepIoT for underground mines.



KC4E-Ex Cordless Cap Lamp
Performance series - for Underground Coal Mines and CHPP

Features:

- > Three operating modes – Main, High-beam, Auxiliary
- > Adjustable beam angle to point wherever you look
- > Lightweight, comfortable, and ergonomic
- > Tough German enclosure material to withstand rough handling
- > World's safest and most reliable Panasonic battery
- > Made from Top Brand, high quality components and parts

Applications:

Underground Coal Mines and CHPP



KC2T-Ex Lightweight Cordless Cap Lamp
Value series - for CHPP and Underground Coal Mines

Features:

- > Three operating modes – standard focus, high-beam focus and spread
- > Thin design means Cap Lamp fits behind visor and allows it to go up and down
- > Lightweight, comfortable, and ergonomic
- > Tough German enclosure material to withstand rough handling
- > World's safest and most reliable Panasonic battery
- > Made from Top Brand, high quality components and parts
- > Comes with a free Angle Adjustable Bracket

Applications:

CHPP and Underground Coal Mines

RPMGLOBAL

RPMGlobal



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Profile

RPMGlobal is a global leader in the provision of advisory consulting, technology and professional development solutions in the mining industry encompassing 50 years of experience and the delivery of over 13,000 studies and reviews across all key mining regions of the world. Our global team of mining specialists are located in 24 offices around the world. RPM partners with Mining clients and Investment firms to deliver bespoke and independent insights and advice based on our strong understanding of the requirements of the mining industry and its financiers.

RPM Software

Our industry-leading software solutions have been at the forefront of mining for over 50 years. Our purpose is to develop, implement and support seamless, end to end software solutions delivering the economic and productivity advantages needed today and tomorrow. We have solutions and offerings covering virtually all commodities across both open cut and underground operations.

We help companies on their digital journey with specific mining software needed to enable this and integrate with your Enterprise platform. Our specialities include:

- > Mine design and scheduling;
- > Dynamic asset management;
- > Simulation;
- > Forecasting and budgeting.
- > Operational solutions.

RPM Advisory and Technology Services:

Mining Project Services - Through frameworks, technology and deep domain knowledge, we bring solutions to miners to

systemise operational improvements and continue to improve cost structures, increase productivity and create value across the whole mining value chain, specifically in the areas of:

- > Geology and exploration;
- > Mining studies - Life of Mine planning, Feasibility Reports and Detailed Projects Reports;
- > Operational scenario analysis,

Investor Services - We partner with investment firms to deliver the deep domain and technical expertise that mining industry financiers expect. This includes:

- > Mergers and acquisitions
- > Lenders Engineer
- > IPO's and capital market transaction support
- > Asset analysis and ranking

Operational Services - Our imperative is to help mining organisations perform at their best. We do this through our powerful combination of mining industry expertise and technology to bring greater visibility and understanding of the impact of business decisions before they are made. This includes speciality in haulage and fleet and an understanding of greenhouse gases.

GeoGAS Laboratory and Consulting Services to the Mining and CSG Industries

GeoGAS, a subsidiary of RPMGlobal Holdings Pty Ltd, has over 20 years' experience in consulting and laboratory testing and one of the most comprehensive gas reservoir databases in Australia. GeoGAS' experience and capabilities cover underground mine gas management through coal bed methane gas production.



RYCO Hydraulics Pty Ltd



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Profile

RYCO, an Australian company, has built a strong reputation since it commenced manufacturing hydraulic hoses, fittings and other products in Melbourne, Australia 75 years ago. With Australian mining at its core, RYCO has evolved into one of the world's leading producers of specialised products for the Mining Industry.

Today, RYCO is known for its dynamic, world leading fluid conveying technology and engineering excellence. With Customer-focus and attention to detail, RYCO continues to attract new clients from numerous industries right across the world.

RYCO hydraulic hose assemblies and fittings are used globally by OEM clients, Mining Clients and supporting industries; especially where performance and reliability are critical. To achieve maximum performance, reliability and quality, RYCO hose assemblies use only RYCO matched hose and fittings.

RYCO has expanded its global network of distribution centres and offices, its OEM hose assembly centres, and its RYCO 24-7 service centres on a global scale supported by state-of-the-art manufacturing facilities. With quality at its core, RYCO products comply or exceed independent third-party accreditations as well as relevant international standards such as ISO and EN (DIN).

RYCO invests heavily in research and development focusing on impulse life; flexibility; consistency; and simplicity. The R&D centres are dedicated to developing innovative products and pioneering new processes in fluid conveying systems technology, particularly in the Mining Sector. The specialised equipment and technology enable RYCO to manufacture its large range of products efficiently and cost effectively. RYCO continues to grow and expand its product range to meet the ever-increasing needs of the worldwide hydraulic industry.



RHGP-MKT Coupling Hero



RHGP-MKT Hose Assembly Hero



Scorpion Jacks International

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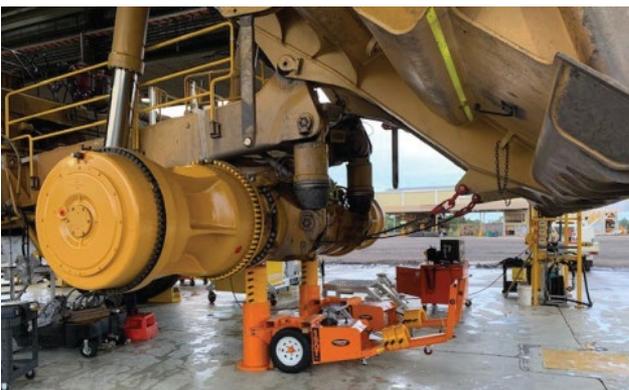
Profile

Scorpion Jacks International (SJI) is a Queensland family owned and operated company which has been designing and manufacturing heavy lift, mobile hydraulic trolley jacks, floor stand systems and specialty jacks for the mining and civil earthmoving industries since the early 1990s. Based in the Townsville region of North Queensland, all jacks are manufactured and tested to the highest international standards, with all cylinders complying with the static design requirements for ASME/ANSI B30.1 standard.

The initial offering of a single jack model has grown to now include a range of jacks from 25T through to 200T in several stage configurations, with offerings for both open cut and underground fleets.

With jacks operating in North and South America, South East and Central Asia along with Africa, Scorpion Jacks now looks to India as the next major market where miners who demand safe, and reliable jacks will want to take up offerings from the Scorpion range.

With a rapidly developing economy, SJI has identified India as a key growth market for the company over the next 5-10 years. As it looks to build on recent interest from India, SJI has begun actively establishing after sales support mechanisms, with the aim to forge long-term relationships within the country, by not only providing customers with rugged, world class products, but by offering a world class after sales support service as well.



MLJ150-600



ELP5025-5



SIMCO Mining Products & Services Pty Ltd



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Profile

Founded in May 2010, SIMCO Mining Products and Services is a privately owned and operated company headquartered in Mackay Queensland Australia. Since its inception, SIMCO now operate in 5 Continents supplying premium mining products and services backed by over 32 years of industry experience and operational excellence.

The SIMCO team is second to none when it comes to knowledge on optimizing the best from mining equipment. Our committed and responsive team, work hand in hand with mining companies, contractors, and OEMs around the World delivering quality leading products and safe solutions that increase performance and lower the costs of operations.

Dragline Buckets

SIMCO's expertise and innovation has led to the design and manufacturer of the **World's largest** dragline buckets. The company can manufacture buckets ranging from 8m³ right through to 130m³.

Dragline Rigging

SIMCO's rigging packages will suit any size of dragline in the world today, from single dump to double dump to single rope to four rope configurations we have you covered

Ground Engaging Tools (G.E.T)

SIMCO's G.E.T has been engineered to operate in the most arduous and harshest of digging conditions. A wide range of SIMCO BULDOX™ patented and Direct Replacement Parts (DRP) are available to suit Dragline, Hydraulic Excavator and Rope Shovel buckets.

Dipper Buckets

With over 32 years industry experience involved in the design of the DIPPERMAX™ Dipper bucket SIMCO have continued its engineering excellence with this revolutionary unique design

Hydraulic Excavator Buckets

SIMCO pioneered the first Excavator buckets over a decade ago to utilize curved corner castings to reduce internal carry back and assist with faster filling and cleaner dumping.

Cast Lip Systems

SIMCO's EXTREMO™ Lip systems have been engineered to combat the World's most Arduous Extreme digging conditions.

Wear Parts

SIMCO's range of WEAROX™ Wear parts have proven to be the most reliable wear parts to protect your earth moving asset from adhesive to abrasive wear. We stock a huge range of wear parts to suit all Dragline Buckets, Hydraulic Excavator Buckets and Electric Rope Dipper Buckets.



SIMCO Dragline Bucket working in India



SIMCO Dragline Rigging Package working in India



Sorterra Global Pty Ltd



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Profile

Sorterra is an innovative Australian company, leader in the development of dry coal and mineral beneficiation solutions to help reduce environmental impacts of mining. The patented dry processing technology, DRYSCAN, leads the way in sustainable processing.

The founders of Sorterra have over 100 year's combined experience in the mining industry, especially coal and over 50 years with the core processing technology in other industries. Empire Industrial Equipment is Sorterra's proud representative for the Indian market.

Why DRYSCAN

Indian coals are of drift origin, typically characterised by high ash content, often 45-55%, and a high content of Near Gravity Material (NGM >30%). The drift origin of Indian coal is challenging to process with density-based systems such as Dense Medium Cyclones or Baths, Jigs, Spirals, etc.

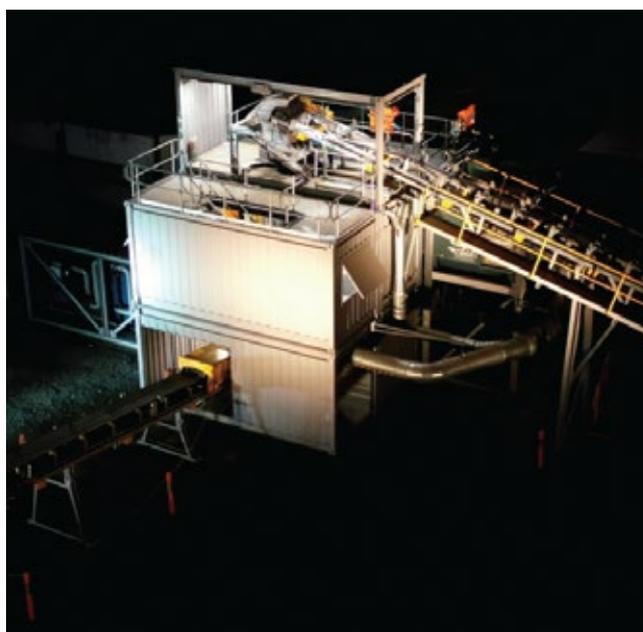
Sorterra's DRYSCAN uses optical characteristics to create contrast between good coal and high ash or rock particles.

Using optical properties as the criterion for separation has the additional benefit that separation may be carried out for applications where there is little to no density differentiation.

DRYSCAN is a modular high-capacity coal processing plant with a short installation time and low operating costs compared to traditional washeries. DRYSCAN is the most environmentally friendly way for coal preparation, it is compact, has low power consumption and no tailing dams as the process is waterless.

Minimising impact of COVID-19:

All DRYSCAN modules are mechanically pre-assembled and electrically pre-wired minimising construction and installation time. Empire Industrial Equipment, with offices in Kolkata, Mumbai, Delhi and Hyderabad, organises all services in India such as construction & installation, commissioning, training and technical support. In addition, Sorterra provides remote technical assistance whenever required.



DRYSCAN: Modular large capacity coal and mineral dry preparation plant



Sunpower Renewables Pty. Ltd.

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Profile

About Sunpower Renewables

Sunpower Renewables Pty. Ltd., an Australian renewable energy solutions company, has developed modern, efficient, and smart solar energy products that allow consumers to achieve energy independence while being cost effective, long lasting, and environmentally friendly. Our 'Australian Made' renewable energy generation and storage devices, ranging from hand-held to grid connected products, allow users to generate and store energy (from the grid, solar or external generators) and then intelligently release it to appliances based on user-programmed preferences to reduce the total electricity costs for the user.

Our products

These state-of-the-art, simple-to-use, and light-weight portable products have proven to be more sustainable & viable, both commercially and technically, than traditional renewable alternatives and energy backup solutions like diesel generators. Our products are an all in one solution, fully integrating all the different components of the solar plant with additional features like an in-built Inverter, MPPT charge controller, a pure sine wave UPS, a reversible net meter and an in-built Li-Ion battery pack for energy storage.

Integrating all these components into a single, compact, portable, plug and play product, which also offers energy storage is a game changer for the renewable energy industry and is also our USP. These products are easy to install and require negligible maintenance across their 10+ year life span.

Solar for the mining industry

Our systems are being used in Australia and overseas markets for a variety of off-grid and fringe-off grid electricity applications, including mining sites which are huge consumers of diesel fuel for mobile and stationary applications. The fuel cost – both financial and environmental – is enormous, particularly when rain makes roads impassable. Remote mine sites currently meet a significant proportion of their electricity needs by using many small diesel generators typically spread across the mine site. Diesel also fuels most of the large site energy users, both fixed and mobile.

Our portable energy storage devices provide a unique opportunity to reduce diesel fuel consumption and cost on these mine sites by adapting and augmenting its current products to assist the move towards a whole-of-mine power solution based on solar power and replace the numerous diesel generators that are being used at the mines.



Handheld portable lithium solar generators



Off-grid portable lithium solar generators



Trakblaze Pty Ltd

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Profile

Trakblaze Pty Ltd, located at 5 Mareno Road, Tullamarine, Victoria, 3043 Australia (a company with more than **90 years'** experience in the weighing industry), have set up an **office in India, and have been successfully operating in India for over 10 years now.** Trakblaze are the leaders in **Weighing in Motion Systems with over 300 installations Worldwide.**

Their products include the Force **In motion Dumper Weighing System**, the **MTW mobile**

Train Weigher, the **TVS & RVS volumetric scanning systems**, the **Bogie Press**, and the **Infinity range of Rail In Motion Weighing Systems.**

Our satisfied customers include Alstom, Bombardier, Gurgaon Metro, Hyderabad Metro, Rail Vikas Nigam Ltd, Hindustan Zinc Ltd., Leighton, Rio Tinto, Fortescue Metals, MTR Hong Kong & China, SMRT Singapore etc.



Weighing systems for mining, rail, road & air



VLI Drilling Diesel Conveyors

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Profile

At VLI, we have been supplying specialist mining equipment and related services to the resources industry for more than 30 years. Over the years, we have undergone significant expansion as a result of strong organic growth, and a program of tactical amalgamations.

Today, after having joined forces with several market leaders in terms of technical expertise and market share, VLI enjoys a reputation, both in Australia and abroad, as a dominant force in the supply of specialist mining equipment and related services.

Our foundation is built upon the strategic acquisitions and mergers of well-respected brand names such as Valley Longwall Drilling, Tyton, SMV, Juganaut, PitTop and Unirod. Combined, these resources bring together extensive experience and a broad

range of products and services, all to the benefit of our customers.

VLI provides a comprehensive and diverse range of equipment including diesel vehicles, drilling rigs and conveyor systems, all designed and manufactured by our own team, to the highest specifications.

Our operations are comprised of three business divisions; VLI Diesel, VLI Drilling and VLI Conveyors. We have a team of over 450 specialist personnel employed throughout Australia, USA, and China. Due to our commitment to research and development, our team has access to the most advanced technologies available in the world today. This allows us to deliver high quality, innovative solutions for all types of mining, transportation, bulk materials handling, loading and drilling activities.



VLI operates an AS4801/ISO18001 certified management system that provides our clients with the confidence that safety is a core value of our business activities.

OUR BRANDS



VLI DIESEL FLP JUG AO (MUV) & DRIFTRUNNER (FSV)



Worley India Private Limited

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Profile

Navigating net zero

Worley delivers more than consulting, engineering, procurement and construction services: we are delivering a more sustainable world.

Every day, our global team helps our mining customers get one step closer to solving our planet's complex challenges. We navigate the journey together to net-zero greenhouse gas emissions. And we keep pace with digital transformation.

Our work today ensures we have a tomorrow. One in which we can all thrive.

Transforming to meet the changing need of our customers

In 2019, WorleyParsons and Jacobs Engineering Group's energy, chemicals and resources business came together to form Worley. This strengthened our mining, minerals and metals offering by combining experience across shaft development and underground mining with concentrator and mass materials handling systems.

With 5,000 professionals working across 12 principal mining, minerals and metals offices, we have the capability to deliver projects across the entire mining life cycle, with our locally available technical expertise complemented by our Global Integrated Delivery model.

Delivering innovative solutions across the full project life cycle, from mine to port

We help our customers navigate the uncertain world of decarbonization, alternative energy options, water stewardship and sustainability.

We've delivered some of the world's largest iron ore projects. Using our expertise in materials handling, train load-out and port to ship transfer, we've helped move close to a billion tonnes of iron ore from mine to port.

Through digital technologies, such as predictive maintenance and data science, we help our customers solve bottlenecking issues and select the most reliable renewable energy solutions.

As the EPCM contractor for the DeBeers Venetia Underground project, we're implementing new technologies not yet seen in South Africa. We're using our experience from 30 major mine shaft developments to work with the sinking contractor during the pre-sink and slow sink to help improve development rates in a hard ore and increase site safety by removing people from the workforce.

In India we are working with majors across the globe in mineral beneficiation, pelletizing, iron making & Direct Reduced Iron (DRI) projects with reputed customers and technology companies.

In a time when the industry needs new thinking

We combine our mining experience with our expertise across digital, sustainability and new energy to help our customers find the most economic solutions to navigate to net-zero across the entire life of an asset.

To date, we've completed more than 2,900 energy transition projects across the world. We understand how all the pieces fit together to bring greater sustainability to processing facilities, open-cast and underground operations. From renewable energy, distributed energy systems and hydrogen to battery power and digital technologies.

We can't predict everything about the future, but our solutions are supporting a sector that is changing by the day.

www.worley.com



Zemek Engineering

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Profile

Zemek Engineering is an Australian manufacturer and repairer of mining equipment components, supporting the Australian mining industry since 1975. Zemek has pioneered technology advances in equipment for rope shovels, draglines, excavators, trucks and other mining equipment. With offices in Mackay, Perth and Brisbane; Zemek supports all local mining centres with the best product innovations and technical support. With over 45 years of experience servicing the mining industry, Zemek Engineering is at the forefront of mining equipment component design and replacement part technology. Our mission is to supply the highest quality mining equipment components, replacement parts, and services to improve the lifecycle performance of:

- > Rope Shovels
- > Draglines
- > Hydraulic Excavators
- > Mining Trucks
- > Dozers and ancillary equipment

Zemek's Core Values

Innovation

Through close collaboration with our partners in the mining industry, Zemek innovates in both its products and service. These innovations have provided our clients with lasting benefits in safety, reliability and production costs. Among Zemek's leading innovations are-

- > 'Z-Slide' trip and latching system for electric rope shovels featuring extensive use of advanced polymers and optimised system geometry.



Z-Slide Trip and Latching System for Electric Rope Shovels

- > Zemek straight-pull dragline sockets – maximizing rope life.
- > 'Wearite' self-lubricated bushes for excavator mechanisms, eliminating production losses due to lubrication failure.

Quality

- > Zemek meets the strict quality demands of our clients with quality certification to ISO 9001 for the organization.
- > Factory staff are accredited to AS/NZS ISO 9606 for welding.

Sustainability and Relationships

Zemek's business is built on relationships and our long-term relationships are built on sustainable benefits for stakeholders. Zemek's long-term commitment to working with our clients delivers measurable gains for operators of heavy mining equipment.

Competencies

Design and manufacture of functional systems and components for heavy mobile and field mining equipment, including-

- > Dragline rigging.
- > Electric Rope Shovel trip and latching systems.
- > Self-lubricating bushes for excavator, shovel and other equipment.
- > Application of engineering and advanced polymers in heavy equipment.

Key clients

- > BHP
- > Glencore
- > Anglo American
- > Peabody Energy
- > Yancoal
- > Rio Tinto
- > Roy Hill Mining



Wearite Polymer Components – able to operate without lubrication.



Australian Government

Australian Trade and Investment Commission

AUSTRADE'S MINING & RESOURCE SPECIALISTS FOR INDIA

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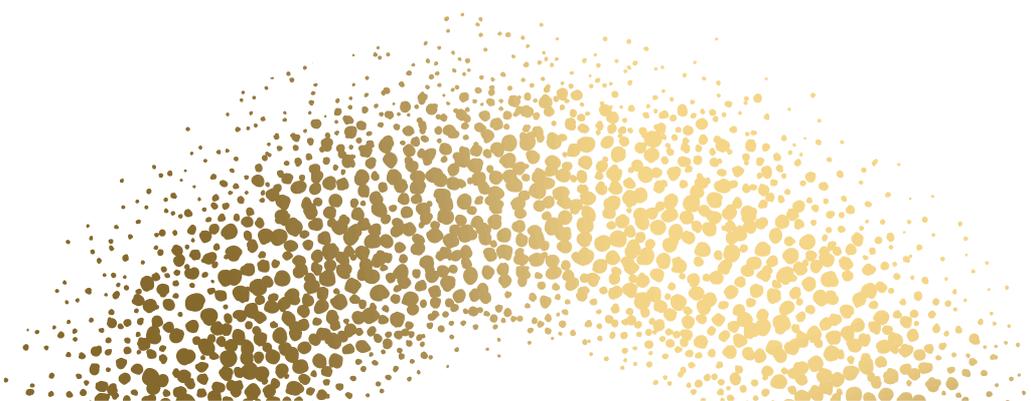
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