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# THE Eneabba

SPRING 2024 ISSUE 18



## King Off The Road

TECHKING OFF THE ROAD TYRES READY TO ROLL



# The story of *Eneabba*



When 23-year-old Doug Brooks recognised an opportunity to hire out equipment to the mining industry in WA in 1979, he knew it was something he had to pursue. Doug scrambled together every dollar he had, to purchase two disassembled compressors, with the remainder of the bill being settled by bankcard. He opened 'Brooks Hire Service' and ran the business from a shed in the remote WA town of Eneabba. All the while, Doug was living in a 'humpy' at the rear of the shed. There were many that warned him of the difficulty of starting a new business in a very competitive industry, but Doug was determined and it was only a matter of time before he was turning a profit on his compressors. What started as two compressors on hire, soon turned into twelve pumps on hire, but the turning point came when Doug purchased his first piece of mobile equipment: an eight tonne JEC crane. There are many great stories that came out of that shed in Eneabba. It was the foundation of Brooks Hire and the place where all of the 'hard yards' were done. Eneabba is remembered as the birth place of Brooks Hire Service.

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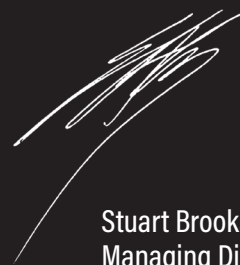


## *From the MD...*

What a momentous few months! We've been extremely privileged to have hosted XCMG Chairman, Mr Yang, and his executive team in Perth recently. This follows our trip to China in May, where Mr Yang showed us the most welcome hospitality at XCMG's International Customer Festival. This time it was our turn to show Mr Yang our Australian hospitality which included Brooks Airways flights to Kalgoorlie to see XCMG machines at work, and Rottnest for a quokka selfie. This was followed by the Brooks XCMG Opening Ceremony, and culminated in a trip to meet the kangaroos at Whiteman Park, and lunch in the Swan Valley. Thank you to all our staff and stakeholders for your hard work during such a busy and important period.

We are also excited about the launch of our dealership for Techking off the road tyres. Techking is a highly respected brand who have already built a strong reputation with Australian mining companies, and international machinery manufacturers. Brooks is proud to align ourselves with such a quality product. We are already using Techking tyres on our own hire machines, and they are available for sale to all mining and construction equipment owners. Most tyre types are in stock now, so make sure you give our National Parts Manager, Jack a call to order yours.

Brooks Mining is now operating in full swing. At the Brooks XCMG Opening Ceremony, we signed a contract with XCMG to purchase \$20m of mining equipment in the first half of 2025. These machines will be added to our existing mining machinery fleet. We've also entered into an agreement with Mader Group to assist with machinery builds, maintenance, and service. This is in addition to our already strong service team of over 100 service staff and vehicles.



Stuart Brooks  
Managing Director





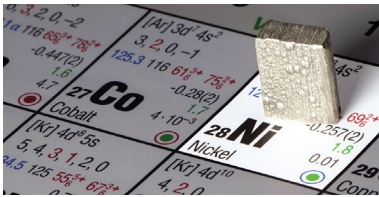
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Josh Willett, General Manager of Brooks Mining at the Coolgardie Gold Project

# Mine for the Making



## Brooks Mining ramps up for the top end players

With a 45-year history in the mining industry, Brooks has ramped up their services to facilitate Australia's top end players, with the introduction of new division, Brooks Mining.

Josh Willett has taken up the role of General Manager for Brooks Mining, with the division's focus on supplying mining machinery to our mining clients for dry hire.

Previously, our Hire department's largest excavator has been 85 tonnes; Brooks Mining has the ability to supply excavators up to 700 tonnes, as well as haul trucks, 24ft moldboard graders and loaders up to 170 tonnes. The business unit provides a more specialised service for larger hire equipment and more tailored solutions for customers' mine site operation needs.

The expansion has come as a result of Brooks Equipment's dealership agreement with the world's third largest construction machinery supplier, XCMG. The dealership agreement allows Brooks Equipment Sales to sell mining machinery to Brooks Mining, which can then be dry hired in any location in Australia.

Stuart Brooks and Isabella Martin from Brooks Group visit Mount Gibson Mine Site, WA.





The advantage of engaging Brooks Mining, is that all Brooks divisions work smoothly in conjunction to offer mining clients the most flexible options. Brooks Mining General Manager, Josh Willett explains, "Equipment hire packages can be tailored to suit individual projects, and machinery can quickly and easily be scaled up or down as projects expand or contract. We can even offer clients the option of 'hire to buy' contracts, with finance available."

To assist with machine production, maintenance, and servicing, Brooks Mining has engaged in a strategic alliance with leading technical services provider, Mader Group. Mader's values run in alliance with Brooks, priding ourselves on getting the job done quickly and efficiently, keeping our clients' operations online and running strong. Mader's field service will compliment Brooks' existing field mechanics and NPS service trucks to keep equipment operating at maximum capacity with little to no downtime with their rapid response teams for critical repairs.

To further support our mining clients, Brooks Airways has a B200 King Air aircraft fitted with cargo configuration for delivering parts to remote mine site locations. This unity between divisions gives clients the fastest and easiest service in the field.



With a large volume of mining operations happening in the Pilbara region of Western Australia, Brooks Mining has acquired two new premises in Port Hedland and Karratha.

"These new branches are a base for our mining equipment," said Josh. "When customers need machinery fast, we've already got the equipment close by, ready to deliver."

Brooks Mining already has a range of equipment in stock and ready to hire. New equipment can be purchased for clients who enter into long term hire contracts. For more information, call Josh Willett on 1300 276 657 or email: [jwillett@brooksmining.com.au](mailto:jwillett@brooksmining.com.au)







# On Terra Firma

## Terra Mining builds solid foundations

**Established in 2020, what industries has the company grown to work with and what services do you provide?**

Working exclusively within the resources sector, Terra Mining operates as a primary producer as well as providing a range of integrated mining contracting services.

Like many modern miners, you can trace our story to the Goldfields of Kalgoorlie, WA. Partnering with Norton Gold Fields in 2020, we primarily provided production and maintenance services as a contractor. As demand quickly grew, contacts followed for key expansion projects throughout the Goldfields, including Rose Dam, Porphyry, Golden Cities and Binduli.

Our vision was always to pursue integration and evolve into the role of producer, and in May of 2023, we entered on to operate the Extension Hill Magnetite Mine in the Midwest, outside Perenjori. Extension Hill has directly created 90 jobs on-site, as well as several more throughout the project's supply chain. Our first shipment of export grade ore departed the Port of Geraldton in February 2024.

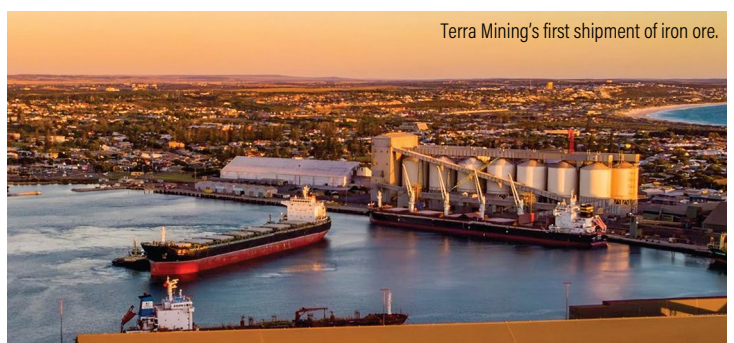
We've also expanded into the Pilbara, having been appointed as the operator at Paulsens East Iron Ore. While our minerals mix continues to diversify, the production being driven by Extension Hill, sees us forecast to become Australia's fourth largest producer of magnetite by volume in the coming years.

**For a relatively new company, Terra Mining has established itself firmly in the mining industry. What are some of the factors you attribute to the company's rapid advancement in such a competitive market?**

The year we commenced trading was also the start of the Covid-19 pandemic. The need for innovative practices in the disruptive market conditions, played a large role in our rapid evolution.

Our focus is optimising efficiency to deliver value, while effectively prioritising the development of talent. We've prioritised people and partnerships, with our supplier and client relationships always remaining central to our commercial strategy.

Without talent and aligned partners, you cannot grow. Our success can be attributed to how we've built our business model around developing people and nurturing partnerships that have developed into more than the sum of their parts.



Terra Mining's first shipment of iron ore.



**Recently appointed as Operator at Paulsens East Iron Ore in the Pilbara region of Western Australia, can you tell us how this expansion into the Pilbara will further diversify and bolster the company?**

Our expansion into the Pilbara is a natural progression. The home of iron ore mining, it's a great addition to our minerals mix and capabilities.

Resilience is critical in this next stage of our commercial journey. Across all divisions, this involves diversification within our operations, and the continued pursuit of multiple avenues of scaling. Paulsens East aligns with this drive for resilience, providing us with new revenue streams within a mature, high-volume sector of Australia's mining industry.

**Are there any standout milestones or highlights in the company's evolution so far, that you can share with us?**

We commenced trading in 2020 with the tagline 'A New Force in Contracting'. While we'd always envisioned an eventual transition to production, achieving that inside our first three years of operation is a big achievement.

Extension Hill is a landmark within our business. Magnetite, which plays an important role in 'greener' steel-making initiatives, is a mineral that is critical to our industry, nation and region. That's the space we're in now; it's exciting, challenging, and exactly where we'd dreamed we'd be.

Achieving this much is a testament to those who bought into our vision, put their heads down and diligently performed week in, week out. We're no longer a 'New Force in Contracting': we're a producer.



The Terra Mining team at Perenjori Agricultural Show

**From the beginning, Terra Mining has vocalised its aspirations of being a moderniser in mining. What are some of the avenues in which the company is modernising the industry?**

Mining in Australia is primarily undertaken in remote and regional communities. The industry can do better at investing itself in the communities that constitute its neighbours. Our focus is to engage directly with stakeholders who are impacted by mining, whether that be positively or otherwise. Central to our mission is the belief that a licence to operate requires consistent renewal.

We are active in communities by sponsoring regional shows and events, supporting sporting teams, being involved in education, prioritising local content, and connecting with stakeholders whose lives are centred in the areas where we operate. Of all the areas where we've set out to move the needle within the industry, this is the one where we believe we've had the most success: reinforcing the importance of investing in those communities where mining companies seek to do business.

**Terra Mining have acquired one XCMG XE1350 and two XE500LC excavators. Can you tell us about the projects that these excavators have been utilised in and the type of work they're performing?**

These excavators are deployed on separate projects within our business, where volume and production targets are critical to project progression.

Our operations and maintenance team have been unified in their feedback on the XE1350 and XE500LC: they are best-in-breed machines that are easy to operate and a dream to maintain. Versatility is critical for a fleet of our size, and these three machines have been a brilliant addition to an already high-performing fleet.

**What's on the horizon for Terra Mining? Are there any projects in the pipeline that you would like to share?**

Our next chapter is about results: continuing to perform will allow our vision of expansion at home and beyond, to be realised.

We'd love to tease you about what's in the pipeline. But like our story to date, the excitement for now lies in continuing to perform every day for our clients, stakeholders, partners and team. We know that if we continue to deliver results, the opportunities on the horizon will mature, allowing us to further the pace of our evolution.

We're feeling confident with the commercial conversations we're engaging in. Our story to date has been extraordinary. With a wink and nudge, we're comfortable with telling you that watching this space won't disappoint.



# Home Grown BK Civil makes a name in mining



Founded in 2006, near Toowoomba on the Darling Downs in Queensland, by current owner and sole Director, Bladen Binney, BK Civil Group (BKC) has grown from a sideline business to a prominent provider of civil construction and plant hire services on the eastern seaboard.

Starting the journey with one tip truck and a slide in water tank, Bladen grew his fleet and client base, adding a grader and then various other items of plant until he had created a full-time small plant hire business.

Originally operating as BK Hire Pty Ltd, the small business grew again when staff were hired, and the range of services broadened from just wet and dry plant hire to providing full-service crews carrying out complete small packages of works.

With continual growth over the following years, BK Hire soon made a name for itself in the civil project delivery space, with particular expertise in tailings dam construction and maintenance, and a decision was made in 2019 to rebrand the business to what it is currently known as - BK Civil Group - to better encompass all the services provided.

Now a civil construction business with over 400 items of plant, it became obvious early on that, to ensure BKC were competitive, it was essential to have the ability of transporting our own machinery to the varied and remote locations in which we work. BKC now transport 95% of our equipment internally and have also increased our capacity in water and material cartage, with a large fleet of truck and trailer combinations from body truck to road train, and everything in between.

BKC have been heavily involved in a number of major projects via major plant hire contracts, including the \$1.6B Toowoomba Second Range Crossing, \$230M Carmichael Rail Network and \$2B McIntyre Windfarm, to name a few.

In 2016, the business was approached by a client to complete four tailings dam lifts on four separate sites, simultaneously. The sites spanned two states, over an area 2,000 kilometres in length, and due to regulatory requirements, the job had tight time frames.

This was a big ask for a competent yet still growing company, however, the challenge was accepted. Fully managed and resourced by BKC, the projects were delivered on time, on budget, and to a standard so high that it resulted in ongoing repeat work with the client which still exists today.



Fast forward to 2022, and with dozens of tailings dam projects under our belt now, we successfully completed the TSF Stage 5 Raise at Peak Gold Mine, Cobar NSW for Aurelia Metals.

This project went on to be a finalist in the 'Mine Project Success of the Year' category at the Australian Mining Prospect Awards held in Perth, WA. The \$8M project involved the construction of a 5-metre upstream TSF embankment raise comprising of >400,000m<sup>3</sup> of borrowed and conditioned tailings material, complete with concrete decant structure and spillway. The project included >2km of HDPE pipeline and 100,000m<sup>3</sup> rock protection works.

A proactive approach was applied to the works to ensure that tailings deposition could continue throughout construction. Challenges included water management and managing viable materials to ensure the quality of the embankment was maintained. BKC worked closely with the site Superintendent to ensure any risks to the project were identified early and mitigated where possible.



### In the Hands of a Great Team

The civil construction industry has always had its peaks and troughs, but one major downturn which was felt by most industries, was the COVID shut down period. This was a tough experience for all, and those companies that worked across borders had another level of complexity to their survival.

Due to the diversity of industries that BK Civil Group service, we were able to maintain our employee and client base numbers and remained profitable during that difficult time.

Working across the border in New South Wales, members of one of our crews made the decision to essentially relocate there until the borders opened again as travel back and forth from Queensland was not permitted.

This was several months where that crew did not see their loved ones in person. The team's dedication to the project, the client, and the business, is a testament to the quality of people employed at BKC: without these team members, there is no BK Civil Group.

From that sole owner/operator model in the beginning, BK Civil Group now boasts a workforce of over 130 valued staff, with no intention of slowing growth anytime soon.

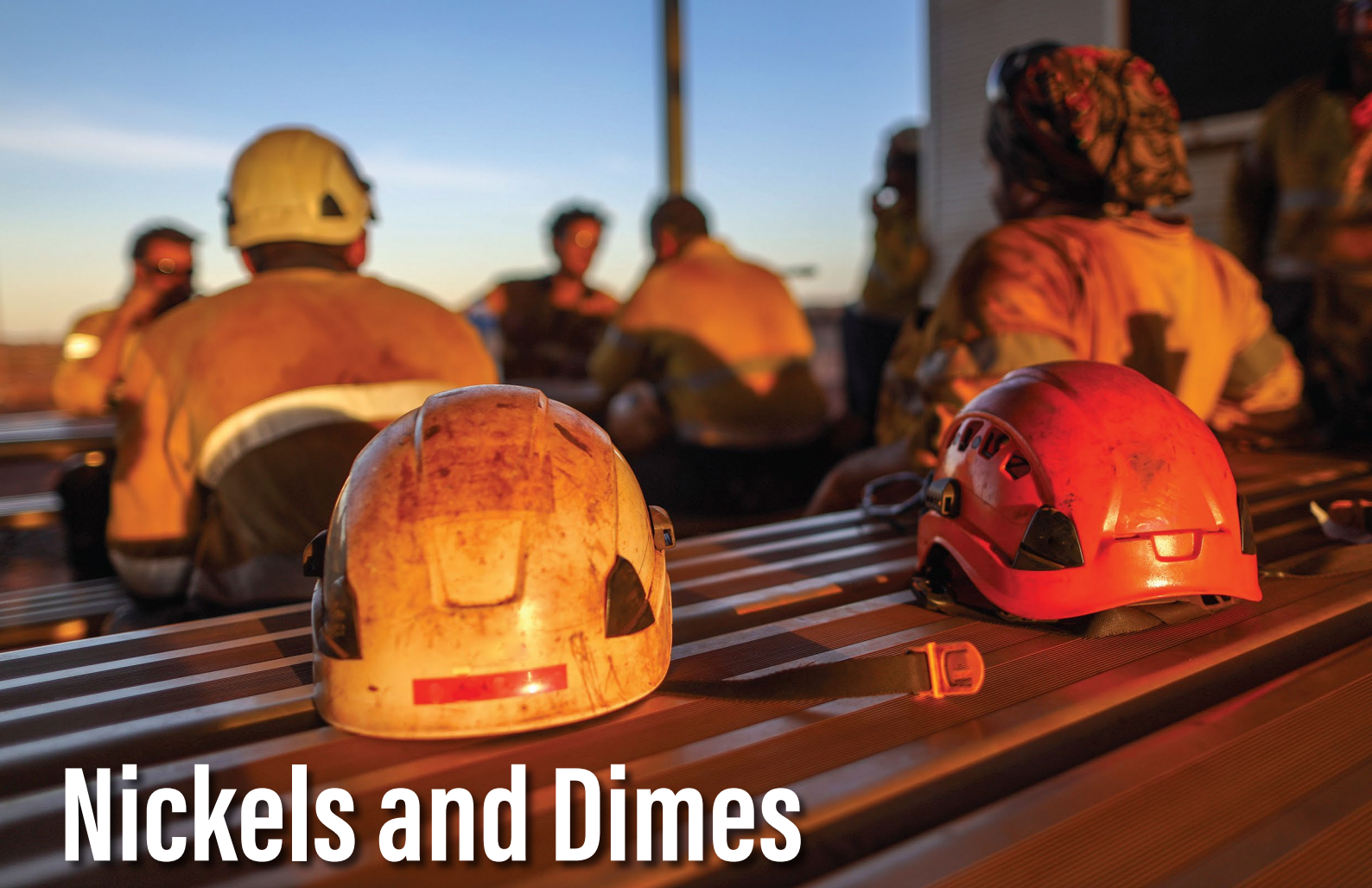
Over the last 18 years where BKC have built a presence in Queensland, New South Wales, Northern Territory, Victoria and South Australia, we have just embarked on our first venture into the Western Australian market with a client engaging us under a plant hire contract.

We have a firm vision on where we want to be by 2030, with realistic targets to meet along the way. By living and breathing our core values in everything we do, we ensure that our colleagues, our clients, and the communities where we work, are at the forefront of our mind and the keys to our shared success.



To learn more about BK Civil Group's story and capabilities you can contact us on **07 4696 2143** or visit **bkcivil.com.au**





# Nickels and Dimes

## The recovery of Australia's nickel market

BHP's decision to suspend Nickel West operations and the West Musgrave project from October 2024, is a reflection of the Australian nickel market as a whole.

The oversupply of nickel within the global market has seen nickel prices drop substantially with saturation of low-cost supply. This supply is largely driven by production in Indonesia, where local and international companies produce nickel at substantially lower rates and standards than Australia.

Mines and Petroleum Minister, David Michael stated that "Our nickel miners are competing internationally with mining jurisdictions that have significantly lower environment, social, and governance standards."<sup>1</sup>

Australia and Indonesia are the two leading countries when it comes to nickel reserves. However, Indonesia's production has increased drastically, with rising EV battery demands and Chinese companies subsequently owning a vast number of Indonesia's nickel mines, investing over \$40 billion in the last five years.<sup>2</sup>

Indonesia's introduction of an export ban in 2014 sought to increase the number of local mining firms developing nickel processing plants within the country, as opposed to exporting raw materials to foreign businesses. However, without the large

capital required to buy in, the export ban resulted in foreign investors – largely Chinese-owned firms – building smelters and plants in the country.<sup>3</sup>

Chief External Affairs Officer of Talon Metals, Todd Malan, told CNBC that China have taken a "shock and awe approach to low grade nickel out of Indonesia. They've cut corners on safety, they've cut corners on the environment, and there are no labour rights that we would recognise."<sup>2</sup>

### Nickel in the Global Market

A naturally occurring metal, nickel is essential in hundreds of thousands of products. Over three million tonnes of new and primary nickel is produced and used annually in the world, with the world's nickel resources currently estimated at almost 350 million tons. Of this figure, Australia is estimated to have 19.6% of the entire world reserves of nickel, at 21 million tonnes.<sup>4</sup>

More than two thirds of global nickel production is used to produce stainless steel. It's the addition of nickel that enables stainless steel to be the incredibly versatile alloy that it is.<sup>5</sup>

The growing EV market and renewable energy projects have seen the utilisation of nickel increasing rapidly, whereby its use in the production of batteries provides greater energy density and storage capacity.



## Nickel West

Located 600 kilometres north-east of Perth, BHP's Nickel West mine is a fully integrated mine-to-market nickel business. The production process moves from open-cut and underground operations in the Northern Goldfields, to the Kalgoorlie Nickel Smelter, and on to the Kwinana Nickel Refinery. By the end of the production process, Nickel West's nickel sulphate is 99.98% pure.

In a statement released by The Hon Madeleine King MP, Minister for Resources and Minister for Northern Australia in February of this year, she detailed that "Global nickel prices averaged more than US\$25,000 a tonne in the 18 months from the start of 2022. It is now US\$16,725 a tonne. This has put substantial pressure on BHP's Nickel West operations."<sup>6</sup>

Where Indonesia was largely producing Class 2 nickel (containing less than 99.8% nickel), the recent shift to produce Class 1 nickel (containing a minimum of 99.8% nickel), at lower production rates and with lower regulatory measures, has swung at international competitors' capacity to compete.

While Class 2 nickel can be used to produce stainless steel, it is the purity of Class 1 that is required to produce the nickel-rich batteries required in electric vehicles.

This has become an issue for BHP where 85% of the company's nickel was previously sold into the global battery market, to companies including Toyota, Ford and Tesla.<sup>7</sup>

International investors are calling for more responsible mining practices, and global standards to be set. Treasurer of Australia, Jim Chalmers, addressed the 2024 G20 Economic Ministers Forum in Sao Paulo, Brazil, warning that "Critical minerals industries and supply chains are not reliable enough or sustainable enough. Right now, we don't have the right market structures to reward global producers that improve their environmental and social footprint.

"We should look to reward sellers that invest in improving the quality and sustainability of critical minerals. This should include consideration of a differentiated international trading market for resources produced to higher ESG standards."<sup>8</sup>



## Protecting the Future of Australian Nickel Mining

While Australia's critical minerals list was only reviewed in December of 2023 – a review which takes place tri-annually unless global strategic, technological, economic or policy changes present a need to do so sooner – the Albanese Government worked to have nickel added in February of this year.

In a statement released by BHP in July of this year, BHP have promised to continue supporting its workforce and local communities impacted: "BHP will invest approximately US\$300 million (AU\$450 million) per annum following completion of a transition period to support a potential re-start of Western Australia Nickel."<sup>3</sup>

The 2,500 employees affected by the temporary suspension have been offered redeployment or redundancy packages. Local supply chains and First Nations communities have also been promised support, with hopes of the global nickel market's recovery.

BHP intends to review the decision to temporarily suspend Western Australia Nickel by February 2027.

### Endnotes

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# Pitch Black 24

## RAAF plays war games in Darwin

A Royal Australian Air Force FA-18F Super Hornet aircraft departs RAAF Base Darwin for a night flying mission.

Of its 43-year history, this year's Pitch Black 24, was the largest to date. A biennial RAAF exercise, Brooks Hire has supplied equipment to the event many times over the years. Over a three-week period, from July 12th to August 2nd, 20 nations and approximately 4,400 participating personnel, took part in the Royal Australian Air Force's (RAAF) esteemed war game exercise.

Across three bases – RAAF Base Darwin and RAAF Base Tindal in the Northern Territory, and RAAF Base Amberley in Queensland – Pitch Black 24 showcased state of the art air combat from across the world.

A chance for participating countries to share knowledge and experience, the RAAF designed Pitch Black "to strengthen international engagement and enhance the ability to work with overseas partners."

Travelling to Australia with a team of pilots, command-and-control specialists, combat support personnel, and a wide range of other roles,<sup>2</sup> the participating nations completed high-intensity training simulations that required personnel in the sky and on the ground to work seamlessly together.



Communication Electronic Technician installs cables during Exercise Pitch Black 24.



A Royal Australian Air Force F/A-18F Super Hornet deploys flares during the Mindil Beach Flying Display.

Over 140 aircraft from all over the world were utilised, including the Australian EA-18G Growler, German Typhoon, Republic of Korea F-15K Slam Eagle, United States Osprey, and Italian C-130 Hercules.

RAAF Flight Lieutenant, Imogen Lunny, breaks down the operatives of a 1 Squadron mission in an F/A-18F Super Hornet, during a Pitch Black 24 exercise. Demonstrating the skill required of the Pilot and Weapons Systems Officer (WSO) inside the aircraft, she explained that "As the pilot flies the aircraft and engages in air-to-air combat, the WSO strikes targets on the ground, organises close air support from above and locates enemy targets in the sky."<sup>3</sup>

Allowing Airforce personnel to engage in air combat training activities, Pitch Black provides an opportunity to hone technical skills under pressure. "Participants are provided a unique opportunity to build teamwork and interoperability with the twenty participating nations, testing their limits over Australia's north," Lunny said.<sup>2</sup>



## Creating Community

Outside of airborne missions, personnel engaged in numerous tactical training procedures on the ground, showcasing the vast and complex facets of each country's line of defence.

Australian, New Zealand, and United Kingdom fire fighters trained together, RAAF Military Working Dog Handlers conducted handling displays, the Queensland Mounted Police Unit conducted training exercises to expose their horses to jet noise, and the RAAF demonstrated an Explosive Ordnance Disposal.

Further to this, nations came together to support local communities and strengthen personal relationships. Members of the Australian, United Kingdom, New Zealand, and Spanish Air Forces supported the local SA & NT Foodbank in Darwin, and RAAF and French Air and Space Force personnel visited the Bagot Community and Ludmilla Primary School. Keeping friendly rivalry alive, Australian, New Zealand, United Kingdom and Indian Air Force members went head-to-head in a friendly T10 cricket comp.



Royal Australian Air Force Military Working Dog (MWD) Handler Corporal Renee Cahill and her MWD Dejzi conduct a handling display during a BossX program.



Minister for Defence Personnel and Veterans' Affairs (right), is briefed on the cockpit of a Royal Australian Air Force F/A-18F Super Hornet by Commanding Officer No. 1 Squadron, Wing Commander Sean Hamilton.

## A Milestone Year

While Pitch Black 24 marked a milestone 20 years of participation from the Royal Thai Air Force and 40 years for the New Zealand Air Force, it also saw the introduction of several new nations. Personnel and aircraft from the Philippines, Spain, Italy and Papua New Guinea, and embedded personnel from Fiji and Brunei, marked their first year of participation in the biannual event.

Also making its debut attendance, the Italian Navy's aircraft carrier Cavour entered the Indo-Pacific to take part in the exercise. Able to accommodate over 600 people, 13 jets and two NH90 helicopters,<sup>4</sup> it was a significant milestone for participation in Pitch Black, and integration of allied nations' combat capabilities.

Italian Navy Carrier Strike Group Commander, Rear Admiral Giancarlo Ciappina, praised the exercise, sharing that "Learning to fly and work together is a massive achievement.

"By bringing partner nations together, we grow our mutual knowledge, relationships and friendships."<sup>4</sup>



Air Surveillance Operator Corporal Mikayla Dows from 114 Mobile Control and Reporting Unit monitor the airspace inside the Mobile Control Reporting Centre.

Over the course of Pitch Black 24, more than 1,700 missions were flown from nations including France, Germany, India, Indonesia, Japan, Malaysia, Republic of Korea, Singapore, Thailand, United Kingdom, United States; and embedded personnel from Canada and New Zealand.<sup>3</sup>

Air Commodore Pete Robinson, Officer Commanding the Exercise, summarised the exercise's purpose and achievements: "The value of this exercise comes in the experience we've built with international partners, and the friendships and relationships we've created with them on the ground and in the air."<sup>2</sup>

A true demonstration of comradeship and international efforts to sustain peace, we're looking forward to what Pitch Black 26 brings. To find out more, visit [www.airforce.gov.au/news-events/events/exercise-pitch-black](http://www.airforce.gov.au/news-events/events/exercise-pitch-black)



FA-18F Super Hornet and EA-18G Growler aircraft perform a handling display during Exercise Pitch Black 24.

## Endnotes

<sup>1</sup> Royal Australian Airforce. (2024). *Exercise Pitch Black*. [www.airforce.gov.au/news-events/events/exercise-pitch-black](http://www.airforce.gov.au/news-events/events/exercise-pitch-black)

<sup>2</sup> Hamilton, E. (2024, August 5). *Sun Sets on Milestone Pitch Black*. [www.defence.gov.au/news-events/news/2024-08-05/sun-sets-milestone-pitch-black](http://www.defence.gov.au/news-events/news/2024-08-05/sun-sets-milestone-pitch-black)

<sup>3</sup> Lunny, I. (2024, July 29). *Back Seat Bandits in the North*. [www.defence.gov.au/news-events/news/2024-07-29/back-seat-bandits-north](http://www.defence.gov.au/news-events/news/2024-07-29/back-seat-bandits-north)

<sup>4</sup> Zeegers, S. (2024, July 16). *Italy's Flagship Debut at Pitch Black*. [www.defence.gov.au/news-events/news/2024-07-16/italys-flagship-debut-pitch-black](http://www.defence.gov.au/news-events/news/2024-07-16/italys-flagship-debut-pitch-black)

Photos supplied by Royal Australian Airforce.





# Mining the Sunshine State

## Queensland Mining Expo (QME) puts on a show

Across its expansive and diverse terrain, Queensland's mineral potential and mining initiatives produce a large portion of Australia's coal and copper, as well as tin and gold. Together with Victoria, the two states accounted for approximately 90% of Australia's 2020-21 total coal production.<sup>1</sup>

As recorded in the Queensland Government's 2023 calendar year - coal production statistics, at the close of 2023, Queensland was actively operating 46 open cut coal mines, and 10 underground coal mines. Of this figure, the ending stock of saleable coal from these mines - considering Coking, PCI and Thermal types - equated to 12,284,613 tonnes from open cut mines, and 1,218,896 tonnes from underground mines.<sup>2</sup>

Spanning approximately 60,000 km, the Bowen Basin is home to an extensive number of the state's coal mines. Situated halfway between Brisbane and Cairns, along the Queensland coast, it's Mackay that is widely known as the gateway to the Bowen Basin and its coal reserves.

### QME 2024

From July 23rd to 25th, Mackay opened its doors to over 5,000 guests. Hotels and restaurants were fully booked, with exhibitors and attendees flying in from every state. The largest regional mining exhibition in Australia, the Queensland Mining Expo (QME) has been taking place biannually for 30 years.

Featuring over 300 suppliers, live demonstrations, a free-to-attend seminar series and numerous networking opportunities, this year's expo was the largest to date.

Among the many exhibitors, was Direct Logistics, specialising in ISO tanks and related services for transporting and storing bulk liquids across various sectors like chemical, food, mining, and power. Direct Logistics Business Development Manager, Jody, attended all three days, making the most of what the expo had to offer. Looking to expand further in the mining industry, QME's capacity to network was a drawcard: "QME had some benefits as far as networking [and] return on investment. We are hoping the interest will be fruitful," Jody shared. "It was great to meet people face to face again."



## Brooks Enter the Mining Game

With the new range of XCMG mining equipment available for hire and sale, it was the first time for Brooks to exhibit at the Expo. On site, was a 49.7 tonne XE500LC excavator, 32 tonne GR3505T Pro grader, and two mini excavators - the 1.9 tonne XE19U and 1.8 tonne XE17U – showcasing the range of equipment on offer.



Headed by both Brooks and XCMG representatives, and situated in the middle of the Mackay Showgrounds, the Brooks stand drew a lot of attention from both prospective buyers as well as sellers in the industry.

Specifically, the serviceability of the machines had observers in awe. The grader's turning circle – unlike major competitors – is designed without shims, greatly reducing the complexity and frequency of maintenance when servicing these parts. Instead, the machine is built with an anti-impact worm gear box. With over-load protection, the service life of the slewing device is significantly increased, while producing minimal slewing resistance, free of adjustments. Heavy duty bearing with wear-resistant alloy steel bushings also aid the life of rotating parts, including the front axle, articulation, and operating mechanism.

Price point was of course another factor of interest, with XCMG machines offering significant savings across the range.

Speaking with Brooks Equipment After Sales Manager, Ashley Pearce, this isn't a case of quality costs more, but production costs less. Produced in China, with parts readily available, the timeframe of production and the costs associated with it, are much lower.

While the quality of the machines are a match to those on the grounds around them, XCMG's shortened supply chains, large production volumes, and modernisation of production technologies have played a large part in making them vastly more affordable than others in the market.

"Being built in China doesn't mean the quality is any less," Pearce remarks.

Brooks Equipment General Manager, Nathan Fenemer agrees with this sentiment: "Owners, operators, and purchasing departments can benefit from the quality, reliability, and support you would expect from a major equipment manufacture, whilst spending a fraction of the price."

Needless to say, the XCMG equipment drew quite the crowd from exhibitors and guests at the Expo, some of whom were seeing the machines up close for the first time.

With the interest and turnout that Brooks saw this year, the team is looking forward to returning for QME 2026 with an even greater selection of machines available.

### Endnotes

1 Australian Government Geoscience Australia. (2023, September 1). Coal. [www.ga.gov.au/education/minerals-energy/australian-energy-facts/coal](http://www.ga.gov.au/education/minerals-energy/australian-energy-facts/coal)

2 Queensland Government. (2024, May 3). 2023 Calendar Year—Coal Production Statistics. [www.data.qld.gov.au/-/dataset/annual-coal-statistics/resource/d22a8d8b-7c00-42d2-884a-c438d51cfc3](http://www.data.qld.gov.au/-/dataset/annual-coal-statistics/resource/d22a8d8b-7c00-42d2-884a-c438d51cfc3)



The Brooks and XCMG team at Queensland Mining Expo 24



# NSW Cream of the Crop



Each year, the Civil Contractor's Federation of NSW (CCF NSW), recognise and reward excellence in civil construction project delivery around the state at the CCF NSW Earth Awards. Brooks Hire is a category sponsor at the awards every year. In this edition, we celebrate the winners and congratulate the nominees across all categories.

## The winning projects from CCF NSW Earth Awards

### Category 1 - Project value up to \$2 million

**WINNER: Civilcraft Pty Ltd**

**Lachlan Swamp Boardwalk Demolition & Construction**



The Lachlan Swamp Boardwalk Removal and Replacement project was undertaken to replace the deteriorating boardwalk in Lachlan Swamp at Centennial Parklands. The new boardwalk was designed with less interference to the existing flying fox habitat and included a new lookout to view the canopies with the current flying foxes.

Project components included the removal of the existing timber boardwalk, installation of new screw piles, and the construction of a new boardwalk with Fibre-Reinforced Plastic (FRP) materials. Designing and constructing curved radiuses for balustrades, required customised solutions and close attention to detail to ensure compliance with quality, safety and environmental standards.

Source: [civilcraft.com.au](http://civilcraft.com.au)

### Category 2 - Project value \$2 million to \$5 million

**WINNER: Brefni Pty Ltd**

**St James Station Maintenance Shaft – Keeping Sydney Flowing**



The St James Station refurbishment project is a remarkable example of modern engineering solutions applied to historical infrastructure. The construction of a new vertical shaft in close proximity to the existing one while ensuring the preservation of heritage listed items and managing urban traffic showcases the meticulous planning and execution capabilities of Brefni.

Their innovative approach which included the design of a truck turntable not only addressed the immediate issue of heavy vehicle restricted access, it also set a precedent for future urban construction projects. The management of contaminated groundwater, and the maintenance of safety standards in confined spaces further demonstrated Brefni's commitment to OHS. The project was completed with budget constraints.

Source: [Brefni Pty Ltd](http://Brefni Pty Ltd)



### Category 3 - Project value \$5 million to \$10 million

WINNER: Diona Pty Ltd

#### Stormwater Amenity Improvement Program



Diona, in partnership with Hunter Water, undertook a series of projects focused on enhancing the amenity of open stormwater channels in Jesmond, Mayfield, and Cardiff. The project involved a comprehensive overhaul of existing concrete stormwater channels at various sites. The core activities included constructing terraced sandstone block embankments, building salt marsh communities, and implementing extensive native planting to enhance the natural environment.

Source: [diona.com.au](http://diona.com.au)

### Category 4 - Project value \$10 million to \$30 million

WINNER: Daracon Group - Newcastle Ocean Baths



The Newcastle Ocean Baths Upgrade included the rebuilding and restoration of the pool, promenades, and pumping system. The scope of works included the placement of 2600m<sup>3</sup> of mass concrete to the existing pool base to raise the floor levels, and placement of a new 150mm thick concrete slab to the pool floor. Demolition and reconstruction of pool walls, deep rock excavation, and the construction of a new wet well pump station were just some of the works undertaken.

Source: [daracon.com.au](http://daracon.com.au)

### Category 5 - Project value \$30 million to \$75 million

WINNER: Transport for NSW, Fulton Hogan, SMEC

#### Heathcote Road Bridge and Linden Street Upgrade Alliance



To improve safety and provide traffic flow benefits, this project involved upgrading the road network at two locations: Linden Street and Heathcote Road Bridge. Key features of the project included widening of the bridge by about 1.4m on each side to provide one wide 3.5m lane in each direction with 1.2m shoulders. New bored-pile retaining walls were erected to support the slope along both bridge approaches, which would be up to 2m high and range in length up to 100m.

Source: [Transport for NSW](http://TransportforNSW.com.au)

### Category 6 - Project value \$75 million to \$150 million

WINNER: Quickway Constructions Pty Ltd

#### Coffs Harbour Bypass Northern Utilities Relocation



This project involved upgrading 14 kilometres of the Pacific Highway at Coffs Harbour, starting from south of England's Road roundabout and finishing at the southern end of the Sapphire to Woolgoolga project. The scope of works included water main installation of 11 kilometres of pipe, pits, valves, and other fittings, the electrical construction for Essential Energy assets, and two complex HDD's (both between 350 and 450m long) on a busy street.

Source: [quickway.com.au](http://quickway.com.au)



### Category 7 - Project value greater than \$150 million

WINNER & Overall Highest Scoring Project: Transport for NSW, BMD Constructions and AECOM - Newell Highway Program Alliance

Transport for NSW partnered with BMD and AECOM to form the Newell Highway Program Alliance. The partnership delivered 38 additional overtaking lanes in four years, rather than the likely eight years it would take to fund and deliver this work using traditional procurement methods. This innovative mode of delivery resulted in the construction of approximately 60 kilometres of new overtaking lanes.

Source: [bmd.com.au](http://bmd.com.au)





# A Day of Celebration

## Brooks XCMG Opening Ceremony & Dig Day

On Friday, 6th September, nearly 300 esteemed guests gathered at the Brooks Equipment Sales Welshpool facility to celebrate the alliance between Brooks Equipment Sales and XCMG.

Brooks were honoured to host XCMG's most senior executive, Chairman Dongsheng Yang at the event. Mr Yang flew into Perth a week earlier to inspect the new XCMG facilities in Welshpool, to which he expressed great admiration and appreciation.

The Opening Ceremony began with a traditional Chinese lion dance, bringing good luck and fortune. Binding the Chinese and Australian cultures, the lion dance was followed by a Welcome to Country from Noelene Walley and Caleb, and a traditional Aboriginal dance with didgeridoo.

The formalities began with speeches from Brooks CEO, Douglas Brooks, followed by XCMG Chairman, Mr Yang. Documents were then signed as Brooks Equipment Sales pledged to purchase \$20m of XCMG mining equipment for the first half of 2025.

Following this, was another signing ceremony, this time between Brooks Mining and Mader Group. Brooks Mining has formed a strategic alliance with Mader to assist with machine production, maintenance, and servicing of the Brooks Mining fleet. Mader Executive General Manager, Martin Willard, joined Brooks Mining General Manager, Josh Willett on the stage for the official signing.

Finally, a commemorative plate was unveiled to mark an agreement between XCMG Finance and Brooks Equipment Sales. This agreement will allow Brooks Equipment and our clients access to in-house finance.

Following the formalities, guests were encouraged to try out some of the smaller XCMG excavators in the 'dig pit'. Also on display was an 80t excavator, 6.5m<sup>3</sup> loader, plus XCMG's XC968-EV fully electric loader.

The afternoon continued on with live entertainment, extensive canapes, beer, wine, and soft drinks.





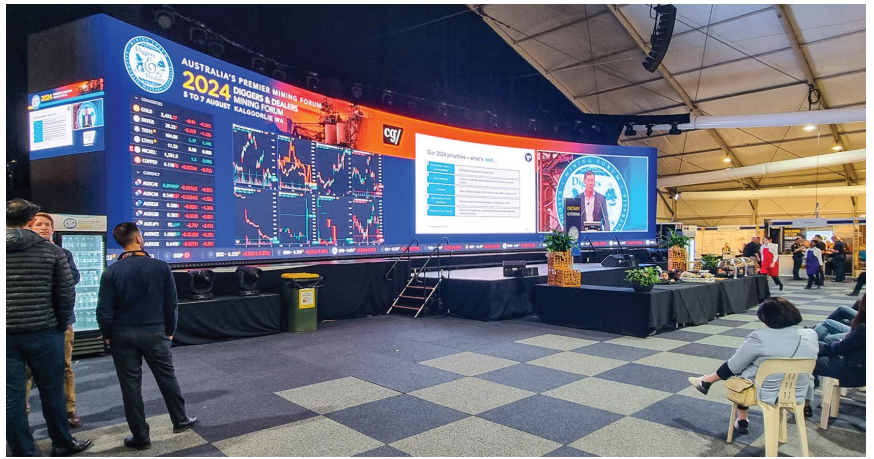


# Diggers & Dealers

Diggers and Dealers Mining Forum is done and dusted for another year. Held annually in Kalgoorlie, the gold capital of WA, Diggers and Dealers is unequivocally the most highly rated mining conference in the West. A sell-out every year, it is practically impossible to book an expo stand, as they are offered to existing stall holders first - and you'd have to be mad to give one up! Luckily for Brooks, our good mate, Bernard O'Sullivan from Rapid Crushing allowed us to tag on the end of their expo stand. This year, Stuart Brooks and Bella Martin attended on behalf of Brooks Airways.

## Topdrill Charity Sundowner

Each year, Topdrill hosts a Charity Sundowner on the eve of the first day of the Diggers and Dealers Forum. Held at Topdrill's Kalgoorlie headquarters, the event featured live music, gourmet canapés and an exciting high-roller auction. The sundowner was held to raise funds for the Royal Flying Doctor Service (RFDS), and Full Circle Therapies. Brooks Airways was proud to make a donation of \$5,000, contributing to the total \$380,000 raised on the night.



**TOP drill** Royal Flying Doctor Service Full Circle THERAPIES

### PLEDGE BOARD

Join us as we raise funds for the Royal Flying Doctor Service and Full Circle Therapies.

COMPANY	NAME	AMOUNT
Brooks Airways	Stuart Brooks & Bella Martin	\$5,000.00
GENETIC RESOURCE	Ben Dyer	\$1,000
COKE PLAN		\$1,111
WARRANDONG GROUP	BRANDY THOMAS	\$1,000
CRUSHING & SCREENING	BRANDY THOMAS	\$1,000
LONGLEIGH CAPITAL	TONY BRETHERTON	\$1,000
THE WISDOM BANK	WILLIAM FULLERTON	\$1,000
Core Capital	JOE LEWIS	\$2,000
COOPER	DAVID HOLDEN	\$400
Bella Martin	Tom Kelly	\$1,000.00
Leanne	John Ross	\$1,000.00
WARRANDONG GROUP		\$3,500
WARRANDONG GROUP	ALANNE GARDNER	\$2,000
PROFIT SKILLING	LUKE WARD	\$5,000
SILC	DANIEL GUNAWARDANA	\$5,000
TOP DRILL	JREW HARVEY	\$5,000.00
REAL TIME AUSTRALIA	CAROLINE WILKINSON	\$5,000.00
Brooks Airways	Bella Martin	\$5,000.00

THANK YOU FOR YOUR SUPPORT



# The MATES Lunch 2024

Jacinta O'Brien, Account Manager for Brooks Access, recently attended The MATES Lunch, hosted by charity organisation, Mates in Construction. With over 700 people in attendance at this year's event, this was their biggest event yet. Now in its ninth year, The MATES Lunch is an opportunity for the Western Australian building and construction industry to come together and raise awareness and funds for suicide prevention within our industry. Every year 190 Australians working in the construction industry take their own lives; ask a mate if they're ok today. If you need help, the MATES Helpline is free and available 24/7, call 1300 642 111.



# CCF WA Women in Civil Lunch

The Brooks ladies were out in full force at the CCF WA Women in Civil Lunch recently. Representing Brooks from left to right were; Lil Ahmad Daud, Josie Jenkins, Katelyn Gibson, Blair Chamberlain, Katie Usher, Bella Martin, Karri Nankervis, and Romana Begicevic. The event raised \$4,505 for Zero2hero for youth mental health. Yeah the girls!



# CCF WA Presidents Breakfast



Jacinta O'Brien, Katie Usher, and Romana Begicevic from Brooks were among the 225 guests at the 2024 President's Breakfast. CCF WA President Leon Fogliani welcomed the crowd, and guest speaker Adrian Hart from Oxford Economics Australia shared his unparalleled insights into the outlook for civil construction in Western Australia, along with analysis of key factors such as cost escalation.

# CCI WA Business Breakfast

Western Australia's 31st Premier, Roger Cook was the host of the Chamber of Commerce and Industry WA (CCIWA) Business Breakfast, recently. Brooks Hire General Manager, Adrian Rorbach, attended the event to hear Mr Cook discuss energy transitions, businesses battling rising costs of doing business and ongoing challenges securing workers.



# Wandering LGIS Golf

It was a little wet underfoot, but Karri Nankervis, Josie Jennings, Adrian Rorbach, and Romana Begicevic braved the storms to compete at the WA LGIS Inter Municipal Golf Tournament. Held at the Wandering Golf Club, the Local Government event was an excellent opportunity to network with government agencies.... plus, a little rain builds character.







Left to right: Jack Eyo, Vinny Yap, and Stuart Brooks from Brooks Group, Steve Coles, Robert Raadgever, Melissa Latter, and Amos Yu from Techking

# King Off The Road

## Techking Off the Road tyres ready to roll

In May of this year, Stuart Brooks, along with some of our core management staff, were invited to the headquarters of Techking Tire Solutions in Qingdao, China. Techking is a leading supplier of Off the Road (OTR) tyres for the mining and construction industry. The purpose of the meeting was to discuss a strategic partnership agreement between Techking and Brooks, allowing Brooks to become a distributor for Techking products in Australia. That discussion has now come to fruition with the official signing of the contract taking place in October, during a second trip to China.

### So, who are Techking Tire Solutions?

Techking was founded in 2007 by husband and wife team, Mr. Tech Wang, and Ms. Gloria Guo. Tech was a senior technical engineer for one of the biggest tyre manufacturers in China, and Gloria was a compound engineer. The name 'Techking' comes from their engineering background, believing technology is king of their company; thus, Techking was formed.

The Techking brand focuses on developing application-specific tyres and providing professional services. With the business spanning 17 years, they have faced many obstacles and challenges along the way. In 2016, Techking discontinued their line of Passenger Car Radial (PCR) tyres to concentrate their resources on the mining and construction tyre sectors. This involved positioning application-specific product development as their core competitive advantage while accelerating global expansion

Today, Techking has produced over 2 million radial OTR tyres, providing tyre solutions to over 40 world-renowned equipment manufacturers, including XCMG, Liebherr, Tadano, and JCB. They have earned recognition from leading mining companies such as Rio Tinto, Glencore, BHP, and Vale, and supply tyres to over 100 countries and regions, including Australia, Canada, Germany and other countries from Europe, Africa, America, and Asia.





## What makes Techking a superior choice

"Right tyre to right application" is at the core of Techking's success. Different equipment, different sites, different working or road conditions, all required tyres with different tyre treads and compounds. Techking can tailor-make tyres for specific scenarios.

For example, when working with Rio Tinto, Techking customised an extreme cutting-resistance compound for the CAT 14/16M graders used in the Pilbara. This customised tread increased the performance of Techking tyres, and helped Rio Tinto increase operation efficiency.



Besides producing a superior product, by adhering to the "customer-oriented" corporate value, Techking has built its core competitiveness through the Three-Level Development Model. This model, focuses on application-specific product development, localisation, and professional services. This approach not only ensures a quick response to customers' requirements and product needs, but also provides life-cycle tyre services that guarantee effective product performance, support continuous upgrades, and deliver a trustworthy service experience.

## Innovation in the mining industry

When it comes to the Australian mining industry, Techking's innovative approach to research and development keeps coming back to the concept of "right tyre to right application". It is this consistency that ensures safety, continuous operation, high efficiency, and sustainability to their customers.

Techking established its technology centre in 2008. Currently, about 30% of the company's employees are in research and development (R&D), with an average annual compound growth rate of over 30% in R&D investment.

Facing complex operational scenarios and variable working conditions, Techking conducts specialised research integrating five key technologies: structure, tread pattern, formulation, digitisation, and simulation. To ensure the successful implementation of application-specific product development, Techking has established an Integrated Product Development (IPD) system based on user requirements. This allows Techking to develop products that precisely match customer applications. To date, Techking has obtained a total of 134 tyre patents.

On the Australian mining scene, Techking engineers regularly conduct on site performance reviews. The review evaluates the overall site conditions, feedback on the tyre performance, product analysis, cost breakdown, and a summary and analysis. This regular review process means that the tyres are constantly being improved to suit Australian site conditions.

## Putting customers first

For different tyre categories, Techking offers a 3 to 5 year warranty. Additionally, to ensure that customers use safe and reliable tyres, Techking has established stringent quality objectives and developed a comprehensive product quality assurance system. This system encompasses the entire tyre production chain, from the selection of key raw materials and major production processes, to finished product inspection, packaging, and shipping.

If a quality issue arises on the user's end, Techking follows established quality procedures, conducting on-site investigations, production reviews, technical analyses, and more to identify the root cause of the problem, implement corrective and preventive measures, and continuously improve product and service quality.

Techking ensures an end-to-end closed-loop process for claims, providing customers with peace of mind in after-sales service.

## More than just rubber

In addition to services surrounding application-specific tyres, Techking has been continuously exploring innovative tyre management systems since 2010. The Tire Intelligent Control System (TIKS) is a networked, intelligent, and digital real-time tyre monitoring and full life cycle management system for mining and construction tyres. TIKS enhances safety, efficiency, and cost-effectiveness by delivering data-driven insights and early warnings for tyre-related issues.



## Where to get Techking tyres

Brooks Equipment now has a range of Loader, Dozer, and Grader tyres in stock. We can also supply Articulated and Rigid Dump Truck tyres, Load Haul Dump Loader tyres, Open Pit Mining tyres, and All Terrain Crane tyres. Contact our National Parts Manager, Jack Eyo on 0499 899 444 or go to [brooksequipment.com.au](http://brooksequipment.com.au)



# Pilot Training



All new recruits at Brooks Airways undergo a range of flight training exercises before taking to the skies. Our newest recruits, Broxon Brookfield, and Trevor Woods recently completed three days training in a King Air Simulator in Melbourne. Both pilots are now ready to fly for Brooks Airways. Broxon joins us after flying the Conquest Tour out of Perth, whilst Trevor has over 2,000 hours of flying experience in a King Air aircraft. Our Head of Flight Operations, Andrew Capuana was also rated on the aircraft simulator. Brooks' ever expanding pilot group helps support our continuing demand for King Air charter flights and FIFO flights.



# The Winner Takes it All!

Talk about picking a winner! Brooks Hire and Brooks Access sponsored professional triathlete, Matt Burton who won IM Cairns (Asia-Pacific Championship) in a blistering 7 hours and 45 minutes, also setting a new course record! Congratulations, Matt!

# Mathew Moves to Kal

Our Canning Vale, WA based Hire Coordinator, Mathew Abraham is transferring to our Kalgoorlie branch. The Canning Vale team put on a 'pot-luck' lunch to farewell Mat, complete with a 'construction' themed cake. Best wishes with the big move Mathew - of course you're always welcome at any of our branches.



# Brooks on Country

Late last year, Brooks collaborated with Olive Branch Resources (OBR) to form an Aboriginal majority owned business; BROOKS OBR MAIA. The purpose of the Joint Venture is to offer an honest and genuine plant hire alternative that gives back to the Aboriginal community. Now in its first year of business, BROOKS OBR MAIA is sending out machines all across WA.





# Moto-ROX Car Show

The Northern Territory sure knows how to put on a good show! Brooks was proud to sponsor the Moto-ROX Car & Bike Show held in Darwin, recently. With 165 entries, visitors enjoyed two massive days of cars, bikes, motor-sport displays, trades, food, kids' activities and interactive displays. Our very own pin-up girl, Naomi Blewit, helped judge the Miss Motor-ROX Pin-Up Competition.



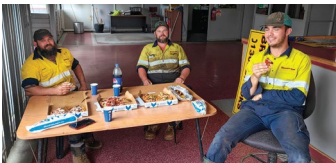
# Noonamah Tavern Rodeo



More action from the Northern Territory! Bulls, broncs, and freestyle moto-x were all part of the action at the 50th Noonamah Tavern Rodeo. Brooks were Gold Sponsors of the event, which was attended by Darwin Branch Manager, Naomi Blewit, along with Kellie from Advance Civil, and Darren from Yebna Quarries.

# R U OK? Day

A conversation can change a life. Every year, Brooks employees take a moment to join together for lunch to raise awareness for mental health on R U OK? Day. No matter what day of the year it is, ask "Are you OK?"





# Welcome Aboard

## Amber Dobbie

**What was your first job:**

I first worked for a model agency called Cazz Models.

**What is your role at Brooks:**

Asset Administrator, Welshpool WA.

**What did you want to be when you were growing up:** I wanted to own my own dance studio.



**What achievement in life are you most proud of:**

Starting my own business.

**How would you describe yourself in 3 words:**

Private, quiet, and humble.

**Where would we find you on the weekends:** Margaret River.

**What is something that you're really good at:**

Architectural design.

**What is something that you're really bad at:**

Doing up buttons on clothing, I just hate buttons.

**If you could invite anybody to dinner (dead or alive), who would it be:** Vladimir Lisin, richest Russian Billionaire in iron steel industry.

**Favourite cake:** Tiramisu Cake.

**Favourite song:** "La Vem a Baiana" by Jussara Silveira.

**Favourite holiday destination:** Tuscany.

## Andrew Dunbar

**What was your first job:**

South African Army.

**What is your role at Brooks:**

Learjet & Beechcraft 1900 First Officer, Brooks Airways, Perth WA.

**What did you want to be when you were growing up:** Fireman.



**What achievement in life are you most proud of:**

Passing selection and recruitment for one parachute battalion.

**How would you describe yourself in 3 words:**

Conscientious, happy, and patient.

**Where would we find you on the weekends:**

Mountain bike riding in the hills.

**What is something that you're really good at:**

Long distance running.

**What is something that you're really bad at:** Cooking.

**If you could invite anybody to dinner (dead or alive), who would it be:** My Grandfather. He was an amazing story teller.

**Favourite cake:** Icecream Cake.

**Favourite holiday destination:** Scotland.

## Broxon Brookfield



**What was your first job:**

Woolworths, restocking the frozen section.

**What is your role at Brooks:**

King Air Pilot, Brooks Airways, Perth WA.

**What did you want to be when you grew up:** A digger operator.

**What achievement in life are you most proud of:**

My Daughter! And getting to where I am in my career so far.

**How would you describe yourself in 3 words:** Do it yourself!

**Where would we find you on the weekends:**

In the shed working on my motorbike or car projects.

**What is something that you're really good at:**

Fixing / making things.

**What is something that you're really bad at:**

Sticking to the recipe when cooking.

**If you could invite anybody to dinner (dead or alive), who would it be:** Elon Musk, Ken Block, Snoop Dogg, Paul Walker.

**Favourite Cake:** It's not cake but I like my gran's trifle.

**Favourite Song:** Don't have an all-time fave, currently: "One Night/All Night" by Justice & Tame Impala.

**Favourite holiday destination:** Istanbul - Türkiye.



## Declan O'Connor



**What was your first job:**

Part time coalman and log chopper.

**What is your role at Brooks:**

LAME B1, Brooks Airways, Perth WA.

**What did you want to be when you grew up:** A good fighter - I failed!!

**What achievement in life are you most proud of:** Completing a BA in Philosophy with Macquarie Uni.

**How would you describe yourself in 3 words:** Dreamer, drinker, and doer.

**Where would we find you on the weekends:**

The beach.

**What is something that you're really good at:**

I like to think playing my trumpet... my neighbours beg to disagree!

**What is something that you're really bad at:**

Yoga.

**If you could invite anybody to dinner (dead or alive), who would it be:** Chet Baker a famous Jazz trumpeter.

**Favourite Cake:** Lemon Cake.

**Favourite song:** Too many.

**Favourite holiday destination:** Back road drive from Arizona to Utah city...amazing.

## Hamzah Syed

**What was your first job:**

Broadcast video editor.

**What is your role at Brooks:**

Digital Marketing Coordinator, Welshpool WA.

**What did you want to be when you grew up:**

Pilot.

**What achievement in life are you most proud of:**

Received two CEO's Awards.

**How would you describe yourself in 3 words:**

Nice, honest, friendly.

**Where would we find you on the weekends:**

Watching F1...somewhere.

**What is something that you're really good at:**

Tinkering in the shed.

**What is something that you're really bad at:** Gardening.

**If you could invite anybody to dinner (dead or alive), who would it be:** My mum.

**Favourite Cake:** New York Cheesecake!

**Favourite Song:** "Semi-Charmed Life" by Third Eye Blind.

**Favourite holiday destination:** Tokyo/Osaka, Japan.



## Ian Bristow-Stagg

**What was your first job:**

Cleaning up the dishes and taking out the trash at home.

**What is your role at Brooks:**

Licensed aircraft mechanic. Aka Aircraft Doctor, Brooks Airways, Perth WA.

**What did you want to be when you grew up:**

Pilot, but I ended up enjoying working on the aircraft more.

**How would you describe yourself in 3 words:**

Absent minded professor.

**What achievement in life are you most proud of:**

Winning the Northam Apex tube race.

**Where would we find you on the weekends:**

Hanging out with any of my three boys wherever possible.

**What is something that you're really good at:** Fixing things.

**What is something that you're really bad at:**

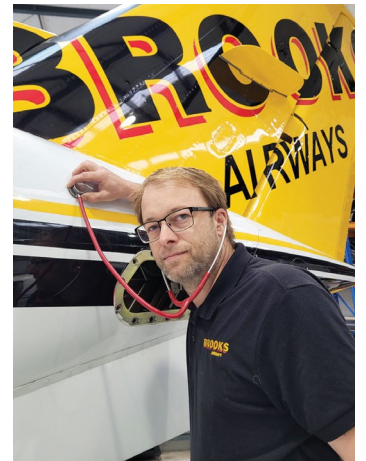
Remembering names.

**If you could invite anybody to dinner (dead or alive), who would it be:** Definitely my father in law, my wife misses him dearly.

**Favourite Cake:** Any cake that's not too sweet.

**Favourite Song:** I don't have a favorite song because I always listen to them on repeat until I end up disliking them.

**Favourite holiday destination:** South West corner of WA.





## Indiah Hayes



**What was your first job:**  
WHSEQ Project Administrator.

**What is your role at Brooks:**  
Service Administrator, Brooks Access,  
Canning Vale WA.

**What did you want to be when you grew up:** A nurse.

**What achievement in life are you most proud of:** Buying my first house at 20.

**How would you describe yourself in 3 words:** Polite, caring, and reliable.

**Where would we find you on the weekends:**  
Taking my mini Dachshund to the park or beach.

**What is something that you're really good at:**  
Picking up and learning new things, tasks or job roles.

**What is something that you're really bad at:**  
Maths.

**If you could invite anybody to dinner (dead or alive), who would it be:** My grandparents that passed.

**Favourite Cake:** Sponge Cake.

**Favourite song:** "Drowning" by AREZRA.

**Favourite holiday destination:** Melbourne.

## James Kiely-Drage

**What was your first job:**  
Offsider/warehouse assistant.

**What is your role at Brooks:**  
Trade Assistant, Welshpool WA.

**What did you want to be when you grew up:**  
A SWAT cop.

**What achievement in life are you most proud of:**  
Finishing ATAR in highschool.

**How would you describe yourself in 3 words:**  
Easy going, keen to learn, and energetic.

**Where would we find you on the weekends:**  
Partying with mates.

**What is something that you're really good at:** Boxing.

**What is something that you're really bad at:** Public speaking.

**If you could invite anybody to dinner (dead or alive), who would it be:** Young Megan Fox.

**Favourite Cake:** Black Forest Cake.

**Favourite Song:** "Walk" or "Cemetery Gates" by Pantera.

**Favourite holiday destination:** Jurien Bay.



## Kai Li

**What was your first job:**  
Industrial pump sales in China.

**What is your role at Brooks:**  
Sales Representative, Brooks  
Equipment, Welshpool WA.

**What did you want to be when you grew up:**  
A rich and kind person.

**What achievement in life are you most proud of:**  
Made the right decision to live in Perth.

**How would you describe yourself in 3 words:**  
Patient, cooperative, and organised.

**Where would we find you on the weekends:**  
Canning vale or Welshpool workshop, basketball court, gym and grocery stores.

**What is something that you're really good at:**  
Finding solutions.

**What is something that you're really bad at:**  
Remembering names of new people I meet.

**If you could invite anybody to dinner (dead or alive), who would it be:** My mother.

**Favourite Cake:** Chocolate Mud Cake, but less sweet.

**Favourite Song:** "My Way" by Frank Sinatra.

**Favourite holiday destination:** Anywhere with people I enjoy spending time with.





## Marnee Simms

### What was your first job:

Bread Ambassador at Brumbys Bakery .

### What is your role at Brooks:

Hire Coordinator, Brooks Access, Canning Vale WA.

### What did you want to be when you grew up:

An AFL WAG.

### What achievement in life are you most proud of:

My son Olli - he has 4 legs, a tail & is slowly eating my coffee table.

### How would you describe yourself in 3 words:

Funny, head-strong, and honest.

### Where would we find you on the weekends:

In my pyjamas.

### What is something that you're really good at:

Organising and list making.

### What is something that you're really bad at:

My family would say singing.

### If you could invite anybody to dinner (dead or alive), who would it be:

My grandad.

### Favourite Cake:

Mudcake.

### Favourite Song:

It changes on the weekly.

### Favourite holiday destination:

New Zealand.



## Nicola Gledhill

### What was your first job:

Lifeguarding / excellent chip maker.

### What is your role at Brooks:

Transport Administrator, Brooks Transport, Oxley QLD.

### What did you want to be when you grew up:

Architect.

### What achievement in life

are you most proud of: Ooo, possibly when I moved to New York.

### How would you describe yourself in 3 words:

Funny, reliable, team-player.

### Where would we find you on the weekends:

Outside - water, camping, hiking, just sitting in the sun, netball, anything outside really, even when its raining.

### What is something that you're really good at:

Being an Aunty.

### What is something that you're really bad at:

Being an Aunty.

### If you could invite anybody to dinner (dead or alive), who would it be:

Princess Diana (I have questions).

### Favourite Cake:

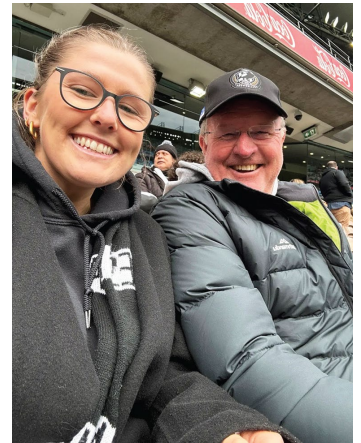
Chocolate Cake, can't go wrong.

### Favourite Song:

"Little Red Wine" by Tyle Braden.

### Favourite holiday destination:

Oooo, anywhere really, have to find the beauty and fun in everything.



## Damien Perre Magana

### What was your first job:

McDonalds kitchenhand.

### What is your role at Brooks:

Trades Assistant, Kewdale WA.

### What did you want to be when you grew up:

A successful business owner.

### What achievement in life are you most proud of:

Learning how to step out of my comfort zone to achieve goals.

### How would you describe yourself in 3 words:

Courteous, passionate, proficient.



### Where would we find you on the weekends:

New restaurants to try out different types of food or at home playing games on my computer.

### What is something that you're really good at:

Learning new skills to better my work.

### What is something that you're really bad at:

Waking up for work despite the fact that I'm always 5 to 15 minutes early every morning.

### If you could invite anybody to dinner (dead or alive), who would it be:

Felix Kjellberg.

### Favourite Cake:

M&M Icecream Cake.

### Favourite song:

"Streetcar" by Daniel Ceasar.

### Favourite holiday destination:

Tokyo, Japan.



## Richard Steel



**What was your first job:** Target, customer service and the warehouse.

**What is your role at Brooks:** Spray Painter, Withcott QLD.

**What did you want to be when you grew up:** A race car driver.

**How would you describe yourself in 3 words:** Easy going, driven, and energetic.

**Where would we find you on the weekends:** Camping, dirtbiking, boat racing, wake boarding/waterskiing, or at the beach.

**Favourite Cake:** Chocolate Mudcake.

**Favourite song:** "Talk About It" by Mike Perry & Hot Shade.

**Favourite holiday destination:** Airlie Beach/Hamilton Island.

## Rochell Canillo

**What was your first job:** Power Plant Design Engineer.

**What is your role at Brooks:** HD Mechanic, Newman WA.

**What did you want to be when you grew up:** Engineer.

**What achievement in life are you most proud of:** Being able to provide for family and others.

**How would you describe yourself in 3 words:** Technical, passionate, and an artist.

**Where would we find you on the weekends:** Playing tennis.

**What is something that you're really good at:** Technical analysis.

**What is something that you're really bad at:** Directions.

**If you could invite anybody to dinner (dead or alive), who would it be:** Parents.

**Favourite Cake:** Don't like sweets.

**Favourite Song:** "The Promise" by Chris Cornell.

**Favourite holiday destination:** Beaches.



## Trevor Woods

**What was your first job:** Dozer Operator CAT D6C Dam construction and general earthworks.

**What is your role at Brooks:** King Air Captain, Brooks Airways, Perth WA.

**What did you want to be when you grew up:** Anything aviation.

**What achievement in life are you most proud of:** Raising 4 children and seeing them grow into adults.

**How would you describe yourself in 3 words:** Old school, considerate and fair.

**Where would we find you on the weekends:** Riding my motorbike, boating activities, in the garage and watching my grandkids play sports.

**What is something that you're really good at:** Anything mechanical or workshop related.

**What is something that you're really bad at:** Trying not to look on marketplace for bargains.

**If you could invite anybody to dinner (dead or alive), who would it be:** Robbie Williams.

**Favourite Cake:** Good old fruit cake.

**Favourite Song:** "Someone You Loved" by Lewis Capaldi.

**Favourite holiday destination:** Crete.





## Wenwei Dai

**What was your first job:**

Freight Handler.

**What is your role at Brooks:**

Warehouse Supervisor, Perth WA.

**What did you want to be when you grew up:** Police Officer.

**What achievement in life are you most proud of:** My wife.

**How would you describe yourself in 3 words:**

Patient, trustworthy, and friendly.

**Where would we find you on the weekends:** Home.

**What is something that you're really good at:** Cooking.

**What is something that you're really bad at:** Sports.

**If you could invite anybody to dinner (dead or alive), who would it be:** My friend or my family.

**Favourite Cake:** Icecream Cakes.

**Favourite Song:** "California Dreamin" by The Mamas & The Papas.

**Favourite holiday destination:** Thailand.



## Eugene Van Der Watt

**What was your first job:**

South African Airforce Aircraft Instrument Technician.

**What is your role at Brooks:**

B1 and B2 LAME, Brooks Airways, Perth WA.

**What did you want to be when you grew up:**

Veterinarian.

**What achievement in life**

**are you most proud of:** My marriage to my wife since 1994 and raising our two beautiful kids.

**Where would we find you on the weekends:** Next to the rugby field supporting my son's team and family Braai (BBQ).

**What is something that you're really good at:** Braai.

**What is something that you're really bad at:**

Cleaning up after a braai.

**If you could invite anybody to dinner (dead or alive), who would it be:** Nobody.

**Favourite Cake:** Biscoff Cheesecake.

**Favourite Song:** "Bad Company" by FFDP.

**Favourite holiday destination:**

South Africa family holiday at the game farm.



## Ally's Kitchen

### Lemon Chicken Orzo

Ally, our People and Culture Business Partner has shared this

one-pot wonder that even the kids will love! And, the best part? Only one pot to wash - I'm loving it already!



**INGREDIENTS**

- 3 x Tbsp Olive Oil
- 6 x Tbsp Butter
- 1 x Large Onion (chopped)
- 9 x Cloves Garlic (minced)
- 1 x tsp Italian Herbs
- 3 x Cups Orzo Pasta (uncooked)
- 6 x Cups Chicken Broth
- 6 x Tbsp Lemon Juice
- 3 x Cups Heavy Whipping Cream
- 6 x Cups BBQ Chicken (shredded)
- 1.5 x Cups Parmesan Cheese (grated)
- 6 x Cups Packed Baby Spinach

**METHOD**

1. Add the oil, butter, and onion to a pot over medium-high heat, and saute for 3-4 minutes.
2. Add the garlic, Italian herbs, and orzo pasta. Cook for 2-3 minutes, stirring often - this infuses the orzo with more flavour and toasts it a little.
3. Stir in the chicken broth, lemon juice, and cream. When it starts to bubble, turn the heat down to medium or medium/low, and continue letting it gently bubble for 10 minutes, uncovered, stirring fairly often.
4. Stir in the chicken.
5. Take the pot off the heat, stir through the parmesan cheese and spinach. Then cover, for 3-5 minutes to let it thicken.
6. Season with salt and pepper, and serve immediately (preferably with a glass of wine).



# The Puzzler Page



## Spot the Difference

There are 10 differences between the photos below. See if you can find them all.



## Word Solver

Find the 9 letter word using the letters in the grid, then try to make as many other words as you can. Words must be a minimum of 4 letters and must contain the middle letter. No proper nouns or plurals.

**Good** - 15 Words    **Very Good** - 20 Words    **Excellent** - 25 or more

R	C	M
H	A	E
B	K	N

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# Crossword

## Across

- 1. She, in Seville
- 5. Soothing salve
- 9. Troubled
- 14. Chicken's home
- 15. Opera tune
- 16. Strainer
- 17. Seldom found
- 18. Vocalize
- 19. Church leader
- 20. Removed clothing
- 22. Nasty looks
- 23. Adolescent
- 25. Seeded bread
- 26. Unbroken
- 30. \_\_\_\_\_ Cruces
- 31. Reluctant
- 32. Verse makers
- 34. Limb
- 37. Placid, e.g.
- 38. Trim trees
- 39. Infamous emperor
- 40. That girl
- 41. Corny
- 42. Garden pest
- 43. Ewe's mate
- 44. Wanted
- 45. Alias letters
- 48. Ralph Waldo \_\_\_\_\_
- 51. Venomous snake
- 53. Designed again
- 58. Custom
- 59. Mellows
- 60. Go by taxi
- 61. Secretly marry
- 62. Narrative
- 63. Forewarning
- 64. Saw socially
- 65. Building wings
- 66. Male descendants

1	2	3	4		5	6	7	8		9	10	11	12	13	
14					15					16					
17					18					19					
20					21					22					
					23					24			25		
26	27	28	29					30							
31						32	33					34	35	36	
37					38					39					
40					41					42					
					43				44						
45	46	47			48			49	50						
51				52				53				54	55	56	57
58								59				60			
61								62				63			
64								65				66			

## Down

- 1. Light tan
- 2. Borrowed money
- 3. British nobleman
- 4. Copier
- 5. Small hound
- 6. Get up
- 7. Fine fabric
- 8. Mary \_\_\_\_\_ (Bible figure)
- 9. Futile
- 10. Heap
- 11. Passover feast
- 12. All
- 13. To the point
- 21. Engrave with acid
- 24. Fence entrance
- 26. Afflictions
- 27. Ark's captain
- 28. Steal
- 29. Devoured
- 32. Interest benchmark (2 wds.)
- 34. Show the way
- 35. \_\_\_\_\_ Canal
- 36. Prospector's quest
- 38. British baby buggy
- 39. Wind dir.
- 41. Paid for everyone
- 42. Mail
- 44. Rope loops
- 45. Hurt
- 46. Australian marsupial
- 47. Monastery head
- 49. Stately
- 50. Sniff
- 52. Ready to pick
- 54. Greek god
- 55. Exec's car
- 56. Eve's garden
- 57. Lions' homes

# Sudoku

Enter numbers into the blank spaces so that each row, column and 3x3 box contains the numbers 1 to 9 without repeats.

	2			5			6	
		8	1		6	9		
7			8		9			4
4	5						8	3
		1				4		
2	9						7	1
9			7		1			6
		4	2		5	8		
	3			8			9	



# Brain Teasers

I have keys but no locks. I have space but no room. You can enter, but you can't go inside. What am I?

There are five sisters in a room. Anne is reading a book, Margaret is cooking, Kate is playing chess, and Marie is doing the laundry. What's the fifth sister doing?



The three volumes of Lord of the Rings sit in order on a shelf. Each is 1+1/4 inches thick, comprising an inch of pages and 1/8 inch for each cover. A bookworm bores from page 1, Volume I, to the last page of Volume III. How far does it travel?

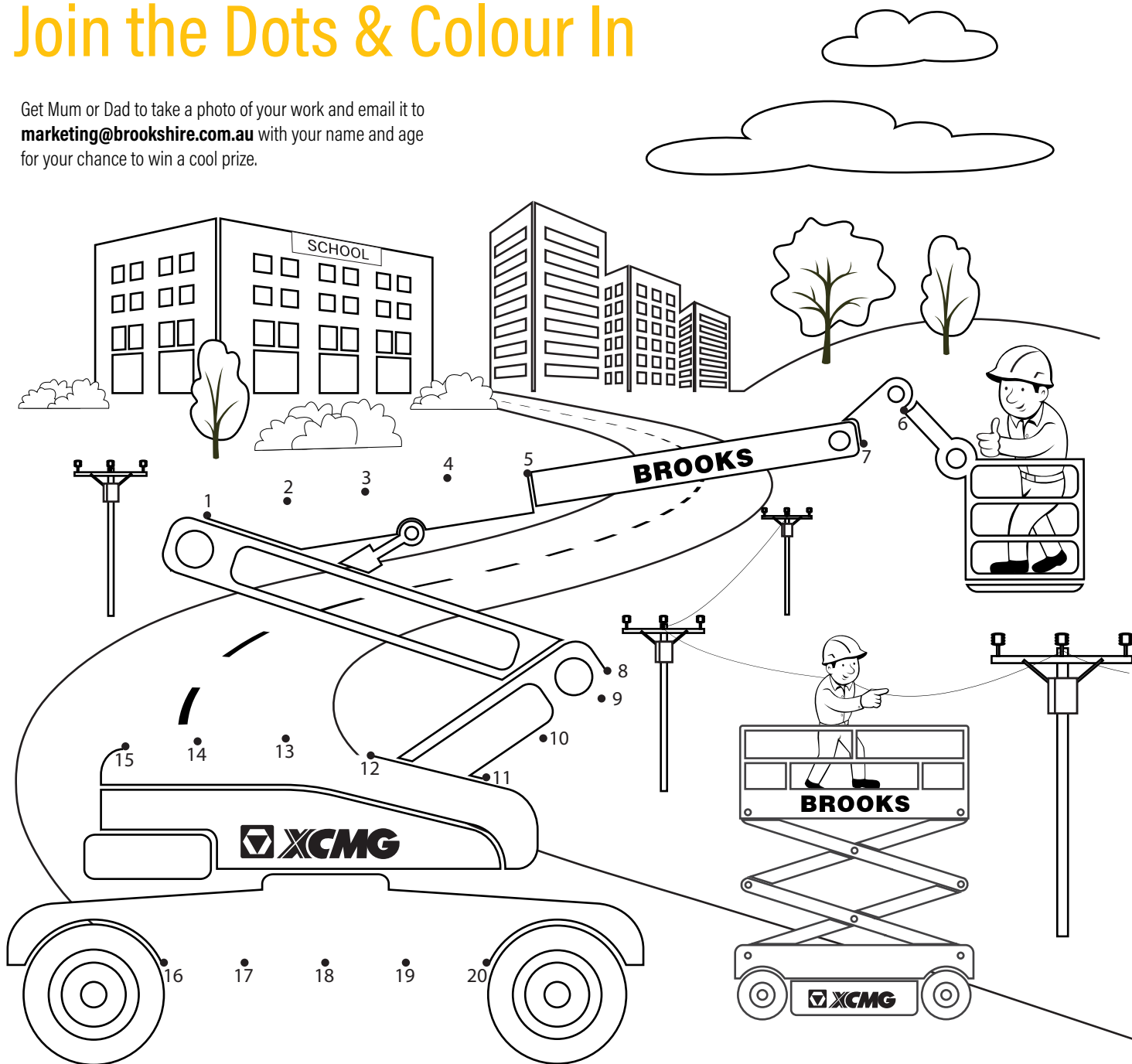
Forwards I'm heavy, backwards I'm not. What am I?



# Kids' Corner

## Join the Dots & Colour In

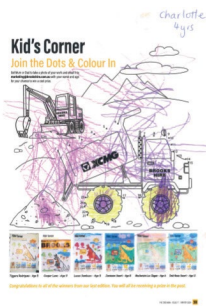
Get Mum or Dad to take a photo of your work and email it to [marketing@brookshire.com.au](mailto:marketing@brookshire.com.au) with your name and age for your chance to win a cool prize.



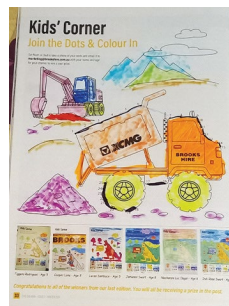
Rose Ballancin - Age 7



Tommy Anthony - Age 2



Charlotte Anthony - Age 4



Tiggera Rodrigues - Age 5



Lara Hocking - Age 4



Harvey Hocking - Age 5

**Congratulations to all of the winners from our last edition. You will all be receiving a prize in the post.**



**WINNER**  
Hayden Rance - Bunbury, WA



**Snap That**

Jordan Terblanche - Brisbane, QLD



Ryan DeJager - Albany, WA



**STAFF PHOTOGRAPHY COMPETITION**

Haley Davey - Melbourne, VIC



David Ogilvie - Adelaide, SA



Guillaume Petraud - Perth, WA



David Morrow - Mackay, QLD



Ashley McDonald - Perth, WA



Georgina Page - Perth, WA



# Equipment Hire List

## Excavators



CATEGORY	MAKE	MODEL
1.5 Tonne	Komatsu	PC14R
1.75 Tonne	Sany	SY16C
1.8 Tonne	XCMG	XE17U
1.8 Tonne	Caterpillar	301.8
1.85 Tonne	Sany	SY18C
2.26 Tonne	Caterpillar	302
2.76 Tonne	Sany	SY26U
3 Tonne	Komatsu	PC30MR
3 Tonne	Hitachi	ZX33
3.85 Tonne	Sany	SY35U
5 Tonne	Komatsu	PC55MR
5 Tonne	Komatsu	PC45MR
5 Tonne	Komatsu	PC40MR
5.3 Tonne	Sany	SY50U
6.1 Tonne	Sany	SY60C
7.28 Tonne	Sany	SY75C
8 Tonne	Komatsu	PC78MR
8.5 Tonne	Komatsu	PC88MR
8.8 Tonne	Sany	SY80U
9 Tonne	Caterpillar	308CR
9.1 Tonne	Sany	SY95C
14 Tonne	Komatsu	PC138US
14 Tonne	Komatsu	PC160LC
14 Tonne	Hyundai	R140LC
15.1 Tonne	Sany	SY135C
16 Tonne	Sany	SY155U
16 Tonne	Hitachi	ZX160LC
22 Tonne Zero Swing	Komatsu	PC228US
22 Tonne	Caterpillar	320GC
22 Tonne	Caterpillar	320DL
22 Tonne	Hitachi	ZX210H
22 Tonne	Komatsu	PC200LC
22 Tonne	Komatsu	PC210LCi
22 Tonne	Komatsu	PC210LC
22 Tonne	Komatsu	HB215LC
22.6 Tonne	Sany	SY215C
23 Tonne	Komatsu	PC220LC
23 Tonne	Hitachi	ZX225USLC
30 Tonne	Volvo	EC290CLC
30 Tonne	Komatsu	PC270LC
31.5 Tonne	Sany	SY305H
33 Tonne	Hitachi	ZX330
33 Tonne	Hitachi	ZX350H
34 Tonne	Komatsu	PC300LC
35 Tonne	Hitachi	ZX350LC
36 Tonne	Komatsu	PC360LCi
36 Tonne	Komatsu	PC350LC
36.7 Tonne	Sany	SY365H

CATEGORY	MAKE	MODEL
37 Tonne	Caterpillar	336
45 Tonne	Komatsu	PC450LC
49.7 Tonne	XCMG	XE500LC
54.5 Tonne	Sany	SY500H
60 Tonne	Komatsu	PC600LC
76.2 Tonne	Sany	SY750H
78.6 Tonne	Sany	SY870H
80 Tonne	Komatsu	PC850-8E0SE
85 Tonne	Komatsu	PC800LC
121 Tonne	XCMG	XE1350
192 Tonne	XCMG	XE2000
285 Tonne	XCMG	XE3000
384 Tonne	XCMG	XE4000
570 Tonne	XCMG	XE5600
672 Tonne	XCMG	XE7000



## Graders

CATEGORY	MAKE	MODEL	WEIGHT
12' Motor Grader	Komatsu	GD555	8 Tonne
12' Motor Grader	Caterpillar	120M	14.5 Tonne
12' Motor Grader	XCMG	GR2405T	17.5 Tonne
12' Motor Grader	XCMG	GR2605T	19 Tonne
14' Motor Grader	Caterpillar	140M	18.4 Tonne
14' Motor Grader	Caterpillar	140M AWD	18.4 Tonne
14' Motor Grader	Caterpillar	140H	18.4 Tonne
14' Motor Grader	Caterpillar	140G	18.4 Tonne
14' Motor Grader	Caterpillar	150 AWD	19.8 Tonne
14' Motor Grader	Komatsu	GD655	18.5 Tonne
14' Motor Grader	John Deere	770G	19.3 Tonne
14' Motor Grader	John Deere	672G	20 Tonne
14' Motor Grader	John Deere	772GP	20.5 Tonne
15' Motor Grader	XCMG	GR3005T	28.5 Tonne
16' Motor Grader	John Deere	872GP	21.6 Tonne
16' Motor Grader	Caterpillar	16MQLR	30 Tonne
16' Motor Grader	XCMG	GR3505T Pro	32 Tonne
24' Motor Grader	Caterpillar	24	73 Tonne
24' Motor Grader	XCMG	GR5505	74 Tonne





## Front End Loaders

CATEGORY	MAKE	MODEL
1.5m <sup>3</sup>	Komatsu	WA150
2.1m <sup>3</sup>	XCMG	XC938
2.1m <sup>3</sup>	Caterpillar	930K
2.5m <sup>3</sup>	Komatsu	WA250
3.1m <sup>3</sup>	Komatsu	WA320
3.2m <sup>3</sup> Electric	XCMG	XC968_EV
3.5m <sup>3</sup>	Komatsu	WA380
3.75m <sup>3</sup> - 4m <sup>3</sup>	Komatsu	WA430
3.4m <sup>3</sup>	Caterpillar	950M
3.5m <sup>3</sup>	XCMG	XC958
3.6m <sup>3</sup>	Caterpillar	962M
4m <sup>3</sup> - 5m <sup>3</sup>	Komatsu	WA470
4.5m <sup>3</sup>	XCMG	XC978
5m <sup>3</sup>	Komatsu	WA480
4m <sup>3</sup> - 5m <sup>3</sup>	Volvo	L150G
4.7m <sup>3</sup> - 6.4m <sup>3</sup>	Komatsu	WA500
5.6m <sup>3</sup>	Caterpillar	980M
5.6m <sup>3</sup>	Caterpillar	982M
5.6m <sup>3</sup>	Hitachi	ZW370
6.4m <sup>3</sup>	Caterpillar	988K
6.4m <sup>3</sup>	Komatsu	WA600
6.5m <sup>3</sup>	XCMG	LW1200KN
7m <sup>3</sup>	Volvo	L260H
13m <sup>3</sup>	Komatsu	WA900



## Tool Carriers

CATEGORY	MAKE	MODEL
2.2m <sup>3</sup> - 2.3m <sup>3</sup>	Komatsu	WA250PT
2.2m <sup>3</sup> - 2.3m <sup>3</sup>	Komatsu	WA250PZ
1.9m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA270
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA320-8
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA320PZ-6
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Volvo	L90F
3m <sup>3</sup>	Volvo	L110F
3.1m <sup>3</sup>	Hitachi	ZW180-5
3.5m <sup>3</sup>	Volvo	L120F
4.2m <sup>3</sup>	Volvo	L150F
4.4m <sup>3</sup>	Volvo	L180F
5.2m <sup>3</sup>	Volvo	L220H



## Site Dumpers

CATEGORY	PAYLOAD	MAKE	MODEL
Side Tipper	9 Tonne	Wacker Neuson	DV90
Front Tipper	9 Tonne	Thwaites	9T Dumper



## Skid Steer Loaders

CATEGORY	MAKE	MODEL	TIPPING LOAD (35%)
Tracked	Bobcat	T140SJC	635kg
Tracked	Caterpillar	239D	695kg
Tracked	Caterpillar	249D	790kg
Tracked	Caterpillar	259D	915 kg
Wheeled	Komatsu	SK714	650kg
Wheeled	Caterpillar	226B	680kg
Wheeled	XCMG	XC7-SR07	890kg
Wheeled	XCMG	XC7-SR08	955kg
Wheeled	Caterpillar	246C	975kg
Wheeled	XCMG	XC7-SR10	1100kg
Wheeled	XCMG	XC7-SR12	1260kg
Tracked	XCMG	XC-SR13	3880kg



## Dozers

CATEGORY	MAKE	MODEL	BLADE WIDTH
17.3 Tonne	Caterpillar	D6N	4080mm
17.4 Tonne	XCMG	D170	3455mm
17.7 Tonne	Caterpillar	D6H	4486mm
21 Tonne	Caterpillar	D6T XL	3693mm
21 Tonne	Caterpillar	D6T LGP	3693mm
24.6 Tonne	XCMG	D260	3725mm
27 Tonne	Caterpillar	D7	3988mm
35.6 Tonne	XCMG	D360	4130mm
39.4 Tonne	Caterpillar	D8	5045mm
70 Tonne	Caterpillar	D10T	7416mm



## Backhoes

DIG DEPTH	MAKE	MODEL	WEIGHT
4.32m	JCB	4CX	8.178 Tonne
4.8m	Komatsu	WB97R-5E0	7.6 Tonne
4.883m	Caterpillar	432E	9.1 Tonne
6.14m	JCB	5CX	10.6 Tonne



## Articulated Dump Trucks

CATEGORY	PAYLOAD	MAKE	MODEL
Articulated	30 Tonne	XCMG	XDA30
Articulated	30 Tonne	Komatsu	HM300
Articulated	37 Tonne	Hitachi	AH400D
Articulated	40 Tonne	Komatsu	HM400
Articulated	41 Tonne	Caterpillar	745
Articulated	41 Tonne	XCMG	XDA45





## Rollers

CATEGORY	WEIGHT	MAKE	MODEL
Smooth Drum	7 Tonne	Bomag	BW177DH
Smooth Drum	11 Tonne	Dynapac	CA252D
Smooth Drum	11 Tonne	Bomag	BW212D
Smooth Drum	12 Tonne	Hamm	3412 HT VIO
Smooth Drum	12 Tonne	Caterpillar	CS64B
Smooth Drum	12 Tonne	Bomag	BW213D
Smooth Drum	12.5 Tonne	Caterpillar	CS56B
Smooth Drum	12.7 Tonne	Dynapac	CA302D
Smooth Drum	13.2 Tonne	Dynapac	CA362D
Smooth Drum	12.6 Tonne	Bomag	BW213D
Smooth Drum	14.3 Tonne	Caterpillar	CS68B
Smooth Drum	15.7 Tonne	Hamm	3516
Smooth Drum	16 Tonne	Caterpillar	CS74B
Smooth Drum	16 Tonne	Caterpillar	CP76B
Smooth Drum	16.1 Tonne	Bomag	BW216D
Smooth Drum	17.89 Tonne	Hamm	3518
Smooth Drum	18.7 Tonne	Caterpillar	CS78B
Smooth Drum	19.3 Tonne	Dynapac	CA6000D
Smooth Drum	19.8 Tonne	Hamm	3520
Smooth Drum	20 Tonne	Caterpillar	CS79B
Smooth Drum	26 Tonne	XCMG	XS263J
Padfoot	12 Tonne	Caterpillar	CS12 GC
Padfoot	12 Tonne	Caterpillar	CS56B
Padfoot	12 Tonne	Bomag	BW211D
Padfoot	12.6 Tonne	Bomag	BW213D
Padfoot	13.2 Tonne	Dynapac	CA362D
Padfoot	15.7 Tonne	Hamm	3516P
Padfoot	16.1 Tonne	Bomag	BW216PD
Padfoot	17.6 Tonne	Caterpillar	CP76B
Padfoot	17.89 Tonne	Hamm	3518P
Padfoot	18 Tonne	Dynapac	CA6000PD
Padfoot	18.6 Tonne	Dynapac	CA602PD
Padfoot	19.4 Tonne	Bomag	BW219PD
Padfoot	19.8 Tonne	Hamm	3520P
Padfoot	26 Tonne	XCMG	XS263
Multi Tyre	18 Tonne	Hamm	HP280
Multi Tyre	18 Tonne	Caterpillar	CW34
Multi Tyre	18.3 Tonne	Hamm	GRW280
Multi Tyre	20 Tonne	Caterpillar	CW34
Multi Tyre	20 Tonne	Ammann	AP240
Multi Tyre	20 Tonne	Bomag	BW24RH
Multi Tyre	20 Tonne	Bomag	BW25RH
Multi Tyre	24 Tonne	Caterpillar	CW34LRC
Double Drum	765 Kg	Husqvarna	LP 6505
Double Drum	1 Tonne	Husqvarna	LP 7505
Double Drum	2.5 Tonne	Caterpillar	CB2.7
Double Drum	2.6 Tonne	Hamm	HDI2VV
Double Drum	2.8 Tonne	Bomag	BW120AD
3 Pin Static	14 Tonne	Aveling Barford	DC014

CATEGORY	WEIGHT	MAKE	MODEL
Trench Roller	1,340 Kg	Ammann	1575
Trench Roller	1,495 Kg	Wacker Neuson	RTX-SC3
Trench Roller	1,595 Kg	Dynapac	D.ONE 850
Trench Roller	1,675 Kg	Husqvarna	LP9505



## Compactors & Tamperers

CATEGORY	WEIGHT	MAKE	MODEL
Tampers	98kg	Husqvarna	LT800
Plate Compactors	185kg	Husqvarna	LG164
Plate Compactors	244kg	Husqvarna	LG204
Plate Compactors	302kg	Husqvarna	LG300
Plate Compactors	436kg	Husqvarna	LG400
Plate Compactors	500kg	Bomag	BPR 70/70D
Plate Compactors	500kg	Dynapac	LG500
Plate Compactors	750kg	Bomag	BPR 100/80
Plate Compactors	750kg	Dynapac	LH700
Plate Compactors	800kg	Husqvarna	LH804



## Compressors

TYPE	AIR FLOW	DRY WEIGHT	PRESSURE
Trailer	127 cfm	700 kg	7 bar
Trailer	176.5 cfm	800 kg	7 bar
Skid	185 cfm	950 kg	7 bar
Trailer	251 cfm	1400 kg	7 bar
Skid	400 cfm	1920 kg	10 bar
Trailer	423 cfm	2000 kg	7 bar
Trailer	530 cfm	2600 kg	10 bar
Trailer	893 cfm	3700 kg	8 bar
Trailer	938 cfm	5300 kg	12 bar
Trailer	1020 cfm	5300 kg	10.3 bar
Trailer	1102 cfm	5300 kg	8.6 bar



## Water Trucks

CATEGORY	CAPACITY	MAKE	MODEL
Rigid	14,000 L	Isuzu	FVZ 260-300
Rigid	14,000 L	Hino	500
Rigid	15,000 L	Isuzu	FVZ 260-300
Rigid	15,000 L	Hino	500
Rigid	15,000 L	Mercedes Benz	Axor
Rigid	20,000 L	Isuzu	FYH 2000 8x4
Rigid	20,000 L	Iveco	Trakker AD450 6x6
Articulated	16,000 L	JCB	Fastrac 185/65
Articulated	16,000 L	Chamberlain	C6100
Articulated	16,000 L	Mercedes Benz	MB Trac
Articulated	26,000 L	Komatsu	HM300
Articulated	35,000 L	Komatsu	HM400





## Service, Fuel & Tipper Trucks

CATEGORY	CAPACITY	MAKE	MODEL
Service Truck	8 Compartments	Isuzu	FVZ 260 - 300
Service Truck	8 Compartments	Hino	500
Fuel Trailer	1,400 L	-	-
Fuel Trailer	2,000 L	-	-
Fuel Truck	14,000 L	Hino	500
Tipper Truck	11m <sup>3</sup>	Isuzu	FVZ 260-300
Tipper Truck	11m <sup>3</sup>	Hino	500
Tipper Truck	11m <sup>3</sup>	Isuzu	FVZ 1400
Side Tipper	21m <sup>3</sup>	Howard Porter	-
Side Tipper	24m <sup>3</sup>	Road West	-



## Telehandlers

LIFTING WEIGHT	MAKE	MODEL	LIFTING HEIGHT
3 Tonne	JCB	531-70	7000mm
3.2 Tonne	Manitou	MT732	6900mm
3.5 Tonne	JCB	535-95	9500mm
4 Tonne	JCB	541-70	7000mm
4 Tonne	Merlo	TF42.7-100	9500mm
4 Tonne	Manitou	MT-X 1440	13530mm
4 Tonne	Manitou	MT-X 1840	17550mm
6 Tonne	Merlo	P60.10EE	9550mm



## Forklifts

LIFTING HEIGHT	MAKE	MODEL	LOAD CAPACITY
3000 mm	Hyster	H4.0FT	4 Tonne
4000 mm	Hyster	H5.0FT	5 Tonne
5336 mm	Hyster	H8.00XM	8 Tonne
6200 mm	Hyster	H16.00XM	16 Tonne
4,000 mm	XCMG	XCF1612KII	16 Tonne



## Cranes

MAKE	MODEL	WEIGHT	MAXIMUM BOOM LENGTH
Franna	AT22	22 tonnes	17.9m
Franna	MAC 25	25 tonnes	18.4m



## Articulated Boom Lifts

HEIGHT	MAKE	MODEL	CATEGORY
34 ft	JLG	H340AJ	Hybrid
34 ft	Genie	Z34 / 22 N	Electric
45 ft	JLG	450AJ	Diesel
45 ft	Genie	Z-45 XC	Rough Terrain
51 ft	Genie	Z-51 / 30J RT	Rough Terrain
62 ft	Genie	Z-62 / 40	Rough Terrain
80 ft	JLG	H800AJ	Hybrid
80 ft	JLG	800 AJ	Diesel
80 ft	Haulotte	HA26 RTJ PRO	Diesel
80 ft	Genie	Z-80 / 60	Rough Terrain
87.3ft	XCMG	XGA26K	Rough Terrain
125 ft	JLG	1250AJP	Diesel
135 ft	Genie	ZX-135 / 70	Rough Terrain



## Scissor Lifts

HEIGHT	MAKE	MODEL	CATEGORY
19 ft	JLG	ES1932	Electric
19 ft	JLG	R1932	Electric
26 ft	JLG	R2632	Electric
26 ft	Genie	GS-2632	Electric
26 ft	Genie	GS2669 RT	Rough Terrain
32 ft	JLG	ES 3246	Electric
32 ft	JLG	R 3246	Electric
33 ft	Genie	GS 3369 RT	Rough Terrain
33 ft	Genie	GS 3384	Rough Terrain
33 ft	Snorkel	S3370 RT	Rough Terrain
40 ft	JLG	R 4045	Electric
40 ft	Genie	GS-4069 RT	Rough Terrain
40 ft	XCMG	XG1218RT	Rough Terrain
43 ft	Genie	GS-4390	Rough Terrain
46 ft	Genie	GS-4655	Electric
47 ft	JLG	ERT 4769	Rough Terrain
50 ft	XCMG	XG1523RT	Rough Terrain
53 ft	Genie	GS-5390	Rough Terrain
60 ft	XCMG	XG1823RT	Rough Terrain



## Telescopic Boom Lifts

HEIGHT	MAKE	MODEL	CATEGORY
45 ft	Genie	S-45 XC	Rough Terrain
65 ft	Genie	S65 XC	Rough Terrain
72.2 ft	XCMG	XGS22K	Rough Terrain
80 ft	Genie	S-80 XC	Rough Terrain
85 ft	Genie	S-85XC	Rough Terrain
125 ft	Genie	SX-125 XC	Rough Terrain
135 ft	Genie	SX-135 XC	Rough Terrain
150 ft	Genie	SX-150	Rough Terrain





## Generators (Diesel and Hybrid)

POWER	OUTPUT	VOLTAGE	WEIGHT
5 kVA	5.5 kW	230V	95 kg
6 kVA	5.2 kW	240V	239 kg
10 kVA	8 kW	240V	391 kg
15 kVA	12.5 kW	240/415V	516 kg
20 kVA	16 kW	240/415V	703 kg
25 kVA	20 kW	240/415V	591 kg
30 kVA	24 kW	240/415V	950 kg
35 kVA	32 kW	240/415V	890 kg
40 kVA	35 kW	240/415V	900 kg
45 kVA	36 kW	240/415V	1085 kg
60 kVA	48 kW	240/415V	1110 kg
80 kVA	64 kW	240/415V	1403 kg
100 kVA	80 kW	240/415V	1685 kg
150 kVA	120 kW	240/415V	2000 kg
200 kVA	160 kW	240/415V	2440 kg
220 kVA	178 kW	240/415V	3670 kg
250 kVA	200 kW	240/415V	24500 kg
300 kVA	240 kW	240/415V	3068 kg
350 kVA	280 kW	240/415V	4439 kg
400 kVA	320 kW	240/415V	4400 kg
450 kVA	360 kW	240/415V	4597 kg
500 kVA	400 kW	240/415V	4800 kg
600 kVA	480 kW	240/415V	5970 kg
670 kVA	536 kW	240/415V	5970 kg
750 kVA	600 kW	240/415V	9200 kg
800 kVA	640 kW	240/415V	10000 kg
910 kVA	728 kW	240/415V	11600 kg
1035 kVA	828 kW	240/415V	11680 kg
1253 kVA	1002 kW	240/415V	14100 kg
1505 kVA	1204 kW	240/415V	14050 kg
1705 kVA	1364 kW	240/415V	15500 kg
2000 kVA	1600 kW	240/415V	16000 kg

\*All Generators under 100 kVA are available on trailers.



## Diesel Pumps Highhead

INLET SIZE	OUTLET SIZE	Q MAX	MAX HEAD
100 mm	75 mm	40 L/sec	200 m
100 mm	80 mm	42 L/sec	92 m
150 mm	75 mm	50 L/sec	150 m
150mm	100 mm	80 L/sec	180 m
150 mm	100 mm	117 L/sec	101 m
200 mm	150 mm	167 L/sec	101 m
250 mm	200 mm	250 L/sec	70 m
250 mm	200 mm	408 L/sec	109 m



## Diesel Pumps Surface Dewatering

SIZE	Q MAX	MAX HEAD
80 mm	45 L/sec	19 m   open and silent option
100 mm	69 L/sec	36 m   open and silent option
100 mm	77 L/sec	50 m   open and silent option
150 mm	150 L/sec	37 m   open and silent option
150 mm	141 L/sec	51 m   open and silent option
All Pumps under 150 mm size are available on trailers		
200 mm	175 L/sec	30 m   open and silent option
200 mm	236 L/sec	50 m   open and silent option
300 mm	313 L/sec	29.5 m   open and silent option
300 mm	600 L/sec	71 m   open and silent option



## Submersible Pumps

TYPE	POWER	SIZE	Q MAX	MAX HEAD
Dewatering	1 kW	50 mm	10 L/sec	16 m
Dewatering	2 kW	75 mm	14 L/sec	24 m
Dewatering	3.4 kW	75 mm	23 L/sec	23 m
Dewatering	6.6 kW	75 mm	20 L/sec	38 m
Dewatering	8.8 kW	75 mm	28 L/sec	40 m
Dewatering	6.6 kW	100 mm	37 L/sec	25 m
Dewatering	8.8 kW	100 mm	45 L/sec	30 m
Dewatering	14 kW	100 mm	20 L/sec	65 m
Dewatering	22 kW	100 mm	40 L/sec	65 m
Dewatering	30 kW	100 mm	40 L/sec	86 m
Dewatering	22 kW	150 mm	95 L/sec	40 m
Sludge	3.7 kW	75 mm	20 L/sec	13 m
Sludge	9 kW	100 mm	28 L/sec	23 m
Sludge	11 kW	100 mm	42 L/sec	24 m
Sludge	15 kW	100 mm	22 L/sec	27 m
Sludge	37 kW	100 mm	80 L/sec	50 m
Sludge	45 kW	150 mm	124 L/sec	30 m
Sludge	75 kW	150 mm	155 L/sec	48 m
Slurry	3.1 kW	75 mm	15 L/sec	15 m
Slurry	5.7 kW	100 mm	25 L/sec	23 m
Slurry	8 kW	100 mm	28 L/sec	25 m



## Battery Packs

FEATURES	METRICS
Nominated rated power	36 / 45 kW / kVA
Nominal Energy Storage Capacity	46 kWh
Rated Voltage (VAC)	400 / 230
Battery system voltage (VDC)	48
Nominal Rated Current (A)	65





## Compressors

TYPE	AIR FLOW	DRY WEIGHT	PRESSURE
Trailer	127 cfm	700 kg	7 bar
Trailer	176.5 cfm	800 kg	7 bar
Skid	185 cfm	950 kg	7 bar
Trailer	251 cfm	1400	7 bar
Skid	400 cfm	1920 kg	10 bar
Trailer	423 cfm	2000 kg	7 bar
Trailer	530 cfm	2600 kg	10 bar
Trailer	893 cfm	3700 kg	8 bar
Trailer	938 cfm	5300 kg	12 bar
Trailer	1020 cfm	5300 kg	10.3 bar
Trailer	1102 cfm	5300 kg	8.6 bar
Electric Mobile	1286 cfm	2750 kg	5-14 bar



## Pump Accessories

Materials and Parts can be supplied at cost price + 20%

DN150 Standpipe	clearance 4.2m
DN150 Standpipe	clearance 4.8m
DN150 Standpipe	clearance 5.2m
DN150 Standpipe	clearance 5.8m
DN150 Standpipe	clearance 6.5m
DN150 Standpipe	clearance 8.6m
DN200 Standpipe	clearance 4.2m
DN200 Standpipe	clearance 4.8m
DN200 Standpipe	clearance 5.2m
DN200 Standpipe	clearance 5.8m
DN200 Standpipe	clearance 6.5m
DN200 Standpipe	clearance 8.6m
Hose & Cable Floats	
HDPE pipe	
Pontoons	
Flow Meters	
Suction Hose	
Discharge Hose	
Remote Monitoring	



## Portable Buildings

TYPE	SPECIFICATIONS
Dome Shelters	custom-made
Portable site offices	6.09 m & 12.19 m options, fully furnished
Portable Lunchroom	6.09 m & 12.19 m options, fully furnished
Ablution Block	6.09 m x 2.43 m, 4 cubicles
Sea Containers	6.0 m x 2.5 m & 12.0 m x 2.5 m
Portable Toilets	1160 mm x 1160 mm x 230 mm
Portable Showers	1150 mm x 1150 mm x 230 mm



## Lighting Towers Diesel & Solar

LAMP POWER	ILLUMINATED AREA	RUNNING TIME
1800 W	5000 / 500 m <sup>2</sup>	100 hours
4 x 320 W	4500 / 4200 m <sup>2</sup>	143 hours
4 x 320 W	5000 m <sup>2</sup>	218 hours
4 x 350 W	5000 m <sup>2</sup> @ 20 Lux	220 hours
4 x 350 W	5.4 lm / m <sup>2</sup> @ 28,328 m <sup>2</sup>	150 hours
6 x 350 W	315,000	145 hours
6 solar x 100 W	65,000	56 hours
2 solar x 100 W	14,000	35 hours



## Power Accessories

TYPE	SIZE	OUTLET
Distribution Board	32 amp	8 x 240V 15A   1 x 415V 20A   1 x 415V 32A
Distribution Board	32 amp	8 x 240V 15A   1 x 415V 20A   1 x 415V 32A
Distribution Board	63 amp	10 x 240V 15A   2 x 415V 20A   2 x 415V 32A
Distribution Board	125 amp	8 x 240V 15A   2 x 415V 32A
Power Cables	20 amp	cabl length can be customised
Power Cables	32 amp	cabl length can be customised
Power Cables	63 amp	cabl length can be customised
Power Cables	100 amp	cabl length can be customised
Power Cables	Hardwire	cabl length can be customised
Load Banks	100 - 500 kW	in all application

Control Panels, Soft Starters & Variable Speed Drivers are available.



## Mobile Fuel Supply

TYPE	SIZE	COMMENTS
Fuel Tank	1000 L	Double bunded, multiple fuel connections
Trailer Mounted	1000 L	Double bunded, multiple fuel connections
Fuel Tank	2000 L	Double bunded, multiple fuel connections
Fuel Tank	4000 L	Double bunded, multiple fuel connections
Fuel Tank	10000 L	Double bunded, multiple fuel connections
Trailer Mounted	2000 L	Double bunded, multiple fuel connections

Plant Trailers, Tandem Trailers, Cage Trailers, Pressure Washer Trailers and Fire Fighter Trailer are also available for hire.



## Solar Skid

FEATURES	METRICS
Power	1.78 kWp
Voltage (Voc)	196.8 v
Current (Isc)	11.45 A
Dimensions	4455 mm x 2240 mm x 300 mm
Weight	750 kg





## Traffic Lights & Signage

CATEGORY	POWER SUPPLY
Traffic Lights	Nominal 12 Volts. Range 10.8 – 14.2V
Variable Message Signs	Nominal 12 Volts. Range 10.8 – 14.2V



## Solar CCTV

MAKE	CAMERA
Solareye	2x4MP acusense deep learning cameras, 50m night vision



## Solar Hydration Station

FEATURES
Compatible with all 1000L single use water packs
Optional 1500L fixed water storage tank
Insulated enclosure to minimise direct sunlight exposure of water pack
Easy access for forklift load/unload
Flexible inlet hose with quick release connection



## Dust Suppression Fans

MAKE	MODEL	ELECTRICAL ENGINE POWER
Generac	DF 4500	4kW
Generac	DF 7500	7.5kW
Generac	DF 15000	15kW
Generac	DF 20000	20kW
Generac	DF 50000	45kW
Generac	DF 110000	100kW



## Commercial Vehicles

SEATS	CATEGORY	MODEL
12 & 22	Mine Spec Buses	Toyota HiAce/Coaster & VW Crafter
7	Mine Spec 4x4 Wagon	Toyota Land Cruiser & Prado
2 & 5	Mine Spec 4x4 SC & DC	Toyota Hilux & WorkMate
5	Mine Spec 4x4 DC Steel Tray	Mitsubishi Triton & Isuzu D-Max



## Portable Steel Barrier

FEATURES	METRICS
Weight (12 m)	1155 kg
Weight (6 m)	562 kg (male) & 555 (female)
Lifting Capacity (6 m)	6.09 m & 12.19 m options, fully furnished
Lifting Capacity (6 m)	4.1 times the weight of 6 m Section.
Lifting Capacity (12 m)	2.0 times the weight of 12 m Section.



## Bulk Water Storage

BRAND	SIZE	COMMENTS
Break Tanks	2 - 60 KL	Fitted with stair & gantry system
Water Storage	2 - 56 KL	Can be modified to suit any application



## Machine Attachments

CATEGORY	ATTACHMENT	CATEGORY	ATTACHMENT
Excavator	GP Bucket	Tool Handler	GP Bucket
Excavator	Batter Bucket	Tool Handler	Rake Bucket
Excavator	Trenching Bucket	Tool Handler	Stemming Bucket
Excavator	Skeleton Bucket	Tool Handler	Grain Bucket
Excavator	Sieve Bucket	Tool Handler	Forks
Excavator	Screening Bucket	Tool Handler	Jib
Excavator	Trapezoidal Bucket	Tool Handler	Log Forks
Excavator	Tilting Bucket	Tool Handler	Man Cage
Excavator	Rock Breaker	Tool Handler	Tyre Grab
Excavator	Auger	Tool Handler	GPS
Excavator	Misu Heavy Duty Screen		
Excavator	GP Grapple	Backhoe	GP Bucket
Excavator	360° Grapple	Backhoe	Trenching Bucket
Excavator	Rock Grapple	Backhoe	Batter Bucket
Excavator	Hydraulic Grapple	Backhoe	Batter Bucket (Digger)
Excavator	Mechanical Grab	Backhoe	Auger
Excavator	Hydraulic Grab	Backhoe	Forks
Excavator	Sleeper Grab	Backhoe	GPS
Excavator	Plate Compactor		
Excavator	Compaction Wheel	Telehandler	GP Bucket
Excavator	Tree & Stump Mulcher	Telehandler	Batter Bucket
Excavator	Ripper	Telehandler	Forks
Excavator	GPS	Telehandler	Jib
		Telehandler	GP
Skid Steer	GP Bucket		
Skid Steer	Rake Bucket	Grader	Roller
Skid Steer	Forks	Grader	GPS
Skid Steer	Bucket Broom		
Skid Steer	Auger	Tractor	Grid Roller
Skid Steer	Trencher	Tractor	Hydraulic Angle Broom
Skid Steer	Levelling Attachment		
Skid Steer	GPS		



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