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# THE *Eneabba*

AUTUMN 2024 ISSUE 16

## XCMG & BROOKS Seal the Deal

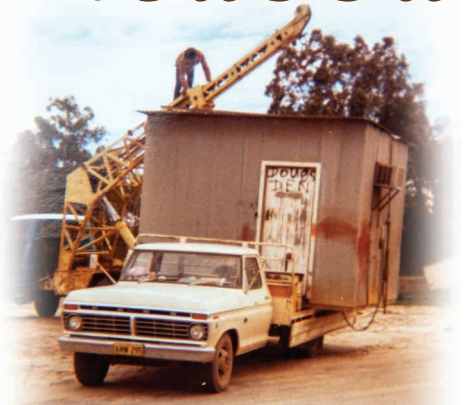


**BROOKS EQUIPMENT SALES AND XCMG FORM EXCLUSIVE DEALERSHIP**

HIRE | ACCESS | AIRWAYS | CRANES | EQUIPMENT SALES | FINANCE | SITE SERVICES | TRANSPORT

**BROOKS**

# 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.



## From the MD...

In the last edition of The Eneabba, I hinted that we had some major news in the pipeline. I can now share that Brooks Equipment Sales has collaborated with XCMG to forge an exclusive dealership for mining and construction equipment. This is a really exciting opportunity, not only for Brooks, but for mining and construction companies all over Australia. XCMG is the third largest construction equipment manufacturer in the world, so to be able to bring this product to the Australian market is a huge feat in itself. We've already entered into 'hire to buy' contracts with some mining contractors, proving that there is a demand for market alternatives, and Australian mining companies are ready to explore them.

Taking on a larger range of equipment and EWPs has meant that we've had to expand our land portfolio to accommodate. Our new premises in Kewdale is in a prime industrial position with over 7000m<sup>2</sup> of improved infrastructure. We've also secured additional yards in Port Hedland, and Karratha. This means we'll be able to run our hire operations from one branch, while being able to supply XCMG equipment sales, parts, and service from the other.

Brooks Transport has been working overtime to accommodate the transport of our largest equipment ever. Brooks Hire and Brooks Access have been busy integrating the XCMG equipment into their fleet. The Site Services department has moved premises to make way for the XCMG Technical Centre with very minimal impact to their operations. All this activity has increased the workload for our staff members, and they've stepped up to help us achieve a united goal. Thank you everyone, it's really appreciated.

I would like to acknowledge the sudden loss of one of our long-term employees, Adrian Short. Having been with Brooks for over 5 years, Adrian wasn't just a great employee, he was also a great friend. Adrian's loss is being felt by everyone at Brooks. Rest in peace, mate.

*Stuart Brooks*  
Managing Director

# THE Eneabba

AUTUMN 2024

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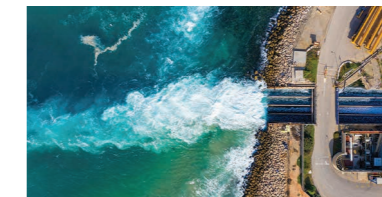
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## BROOKS

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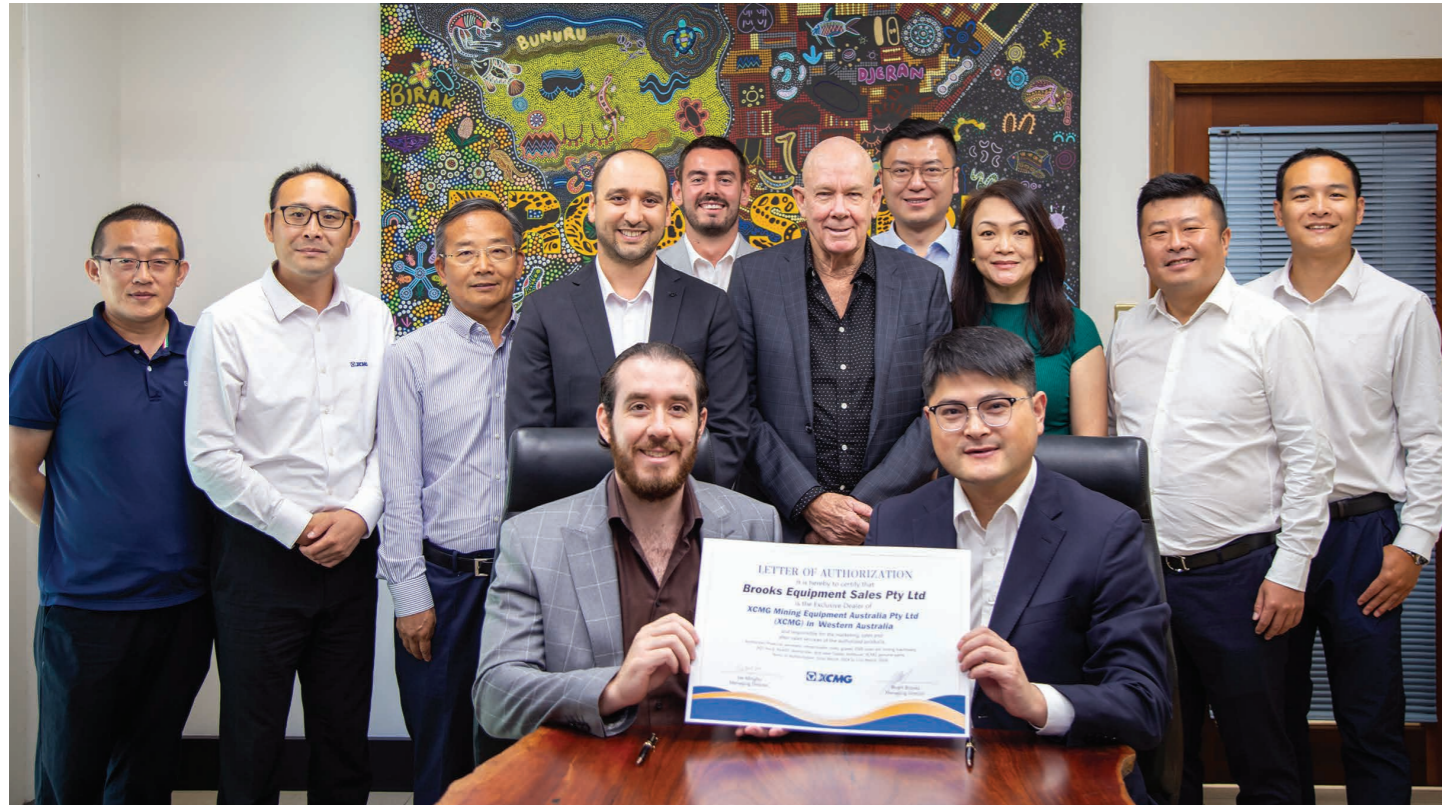
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# XCMG & Brooks Seal the Deal

## Brooks Equipment Sales and XCMG Launch New Dealership

In a major industry power move, Brooks Equipment Sales has signed a dealership agreement with the world's third largest construction equipment manufacturer, XCMG. This agreement brings a new range of mining and construction equipment to the Australian market.

Established in 1943, XCMG maintain a worldwide sales network, including over 20 manufacturing bases in China; assembly factories in more than 10 countries, including Germany, United States, Brazil, Mexico and India; 300 overseas distributors; 2,000 service centres; 40 overseas offices; and 5 research and development centres, one of which recently opened in Perth, WA. XCMG is now the third largest construction machinery manufacturer in the world, having maintained this ranking for three consecutive years.

XCMG first caught the attention of Brooks Equipment Sales (BES) in early 2023, when Managing Director, Stuart Brooks was investigating new mining products to offer his clients. At the time, BES was only able to offer their clients excavators up to 80 tonnes, and front end loaders with a 3m<sup>3</sup> bucket capacity. XCMG's mining equipment range was so much more extensive, and Mr Brooks felt that bringing the brand to his customers would be extremely beneficial.

Later that year, Brooks Equipment Sales took delivery of 34 pieces of XCMG equipment at their Welshpool yard. This consisted of eleven excavators ranging in size from 1.8 tonnes to 121 tonnes, eight vibe rollers, six elevated work platforms, five front wheel loaders, and a 12' grader. This pre-delivery was for the purpose of testing the equipment before committing to a dealership. The machinery was put through rigorous testing in the Brooks Hire fleet, where it proved to be extremely reliable. Put to work in the Pilbara, the machines performed brilliantly without missing a beat.

"This new agreement with XCMG is an improvement on every level," said Mr Brooks. "It will not only strengthen Brooks Equipment Sales as a company, but will offer so much more support to our clients."

BES has entered into contracts with XCMG to sell all lines of machinery, including EWPs, in Western Australia, South Australia, Northern Territory, and the majority of Queensland. The new range includes excavators, loaders, haul trucks, artic. dump trucks, rollers, graders, EWPs, and much more. Now able to supply excavators up to 700 tonnes, and haul trucks up to 440 tonnes, this dealership has solidified Brooks as a major player in the mining industry.

Brooks Equipment Sales' first dealer inventory order has seen 243 pieces of XCMG equipment distributed throughout Western Australia, South Australia, Northern Territory, and Queensland.

Mining companies have already begun to show keen interest in the product, with two XE1350 121 tonne excavators being delivered to a Pilbara mine site in April.

Also on the showroom floor, are two XE968EV wheel loaders. These loaders are particularly special as they are purely electric, with zero emissions. The XE968EV models supply a total power of 250kW, and energy consumption lower than 40kw/h, providing a tangible solution for energy reduction. The machines have an operating weight of 18.8 tonnes, and a bucket capacity of 3.2m<sup>3</sup>. They are so incredibly quiet, you can barely hear them running.

New equipment buyers are encouraged to lock in their equipment purchase early. "We will have more equipment arriving throughout the year," said BES General Manager, Nathan Fenemer. "However, to avoid a wait, we advise customers to secure their machines now." Finance is available on all equipment purchases.

In an Australian first, XCMG has opened its fifth worldwide Technical and Service Centre in Perth, Western Australia. Known for its commitment to innovation and technology advancement in the construction machinery industry, XCMG will use the centre to further develop machinery advancements that are specific to Australian conditions. Located next to BES Head Office in Welshpool, the centre will be invaluable in providing technical support to BES customers.



As experienced facilitators for mine spec. equipment, BES has also partnered with experienced mining contractors to provide asset rebuilds, component rebuilds, engine dyno, and paint blast surface treatment.



"We wanted to make sure that when we did this, we'd be able to support our customers with after sales service and parts," explained Mr Brooks.

To make space for XCMG's Technical and Service Centre, Brooks purchased a 7460m<sup>2</sup> property in Kewdale, WA. The new property will be home to Brooks Site Services, and also used for XCMG equipment maintenance and service.



In addition to the Kewdale property, Brooks has also secured new premises in Port Hedland and Karratha. These properties are in addition to their existing yards, and will support XCMG mining equipment.



Together, XCMG and Brooks Equipment are poised to embark on a journey toward collaborative achievement and sustained growth, tailored to the specific needs of the Australian market. By joining forces, they stand ready to lead the way in providing better machines, and better service to Australia's construction and mining sectors, driving progress and prosperity for years to come.



# Strengthening Communities

## MundaMurra Provides Hard-working Hands



This quarter, we caught up with the team from MundaMurra, a 100% Pilbara Aboriginal Owned business. MundaMurra means 'Hard-working Hands', and the business aims to provide quality results and meaningful opportunities for Aboriginal people.

### MundaMurra was established in 2020, amid a global pandemic. Tell us how it all began; what was the motivation for starting the business?

MundaMurra is a 100% Pilbara Aboriginal Owned business formed in 2020 to provide our clients in mining and resources industries a unique service offering.

The business is owned and managed by Stewart Drage, a member of the Nyiyaparli language group whose traditional country covers Newman, the Chichester Ranges, Marillana, Cloud Break, Christmas Creek, Roy Hill, Yandicoogina and Hope Downs.

Our project delivery works started in Q2 2022 whilst Covid-19 was still a significant issue facing the mining and resources industries. It was through collaboration with our clients and experienced management that MundaMurra successfully navigated the constraints set upon us.



### What type of services does MundaMurra offer?

MundaMurra provides water infrastructure (potable, waste, fire, raw and process water), dewatering, utilities, civil, rail, mechanical and electrical project services.

We cater to our clients, able to deliver Supply and Install, Design and Construct, and Construct Only contracts.

### Can you tell us about some of the company initiatives that have created opportunities for Aboriginal people and business?

Through our Pilbara based professional development scholarship, MundaMurra provides a twelve-year training, mentoring and financial support program, to develop candidates into Pilbara business and community leaders of the future. The long-term plan is to generate a passion for self-development and contribution to community, with clear outcomes both personally and commercially.

Throughout the course of the training, scholarship recipients receive:

1. A personalised financial plan
2. Tailored training program
3. Funded training positions
4. Personal mentoring from Stewart, MundaMurra's leaders and partners
5. Four years comprehensive work experience in multiple fields
6. Four years developing chosen skillsets
7. Income support for twelve years
8. Suitable vehicle and all relevant professional equipment

### What have been your greatest highlights and achievements as a company so far?

MundaMurra is proud to have been nominated for, and to win, the Roy Hill Indigenous Emerging Business Forum, Business of the Year in 2023. Our team was also nominated for the Rio Tinto Supplier Recognition Awards in 2022 and is honoured to be nominated again this year for 2023 and have made it as a finalist in the Local Engagement category.

### Tell us about the projects you are working on right now.

- Worley/Rio Tinto Western Ranges – Water Infrastructure and Enabling Works
- HanRoy Delta 513 – Pipelines and Comms
- Rio Tinto East Intercourse Island– 9ML Tank Refurbishment
- HanRoy – Central Transfer Ponds Upgrades
- Roy Hill – Dewatering and Pipelines
- Rio Tinto Paraburdoo – Flow Meter Upgrades
- Rio Tinto Southern Fortescue Bore Installations
- Roy Hill Port Electrical Drafting

### What has been your most challenging project to date?

The Paraburdoo TSF Northern Cell Decant Project, performed between Jan 2023 and May 2023 for Rio Tinto Sustaining Capital.

The scope involved Civil, Pipe, Electrical and Mechanical works, including the following activities:

1. Establishment of borrow pit(s) and material conditioning
2. Construction of two decant pump platforms and ramps
3. Installation of pumps, turrets, fuel lines and pipelines
4. Spigot and decant wall rectification works
5. Single point discharge supply and installation
6. Testing and commissioning

The challenges faced, included working in the Tailings Storage Facility during unseasonably high rain events, SimOps with contractors performing tailings reclamations, multi-discipline crews working concurrently, and remote Pilbara project delivery without phone/internet services.

### What is on the horizon for MundaMurra?

MundaMurra, since inception, has followed an intentional growth strategy - to continue this plan and to further service our clients, MundaMurra is looking to expand our base of operations to Newman in 2024. With existing offices/laydowns in Karratha, Paraburdoo, on-site at Roy Hill and EII, MundaMurra has decisively chosen Newman for the upcoming works with our existing clients and to further broaden our client base.





# We Dig the Pilbara

## J&K Expands Infrastructure in the Red Dirt

The Pilbara, located in the north of Western Australia, is one of the world's largest and most productive mining regions, known for its vast mineral deposits and arid landscape. Mining in this region is a cornerstone of the Australian economy and a major global player in the extraction of iron ore, as well as other minerals such as lithium, gold, and natural gas.

This quarter, we caught up with the team from J&K Civil (JKC), who have been providing high quality civil and earthmoving services in the Pilbara since 2007. Owner, and Operating Director, Jason Dow started the business as a small plant hire operation, and through many years of hard work, has successfully transformed it into a thriving contracting company with depots in Tom Price, Paraburdoo, and Karratha.

"We've got over 100 items of regularly serviced and maintained plant and equipment meeting mine specifications," said Mr Dow. "This gives us the capability to take on small, medium, and large sized projects."

Some recent projects that JKC has been involved with, include works at Mesa J Mine. Mesa J is an iron ore mine, owned by Robe River Iron Associates, and operated by Rio Tinto. Located in the Hamersley Range, 16km south-west of Pannawonica in Western Australia, the mine is one of twelve in the area, containing 80% of all identified iron ore reserves in Australia, and is one of the world's major iron ore provinces.

From late 2022, JKC undertook a \$55 million project at MESA J –STF8 STAGE 1 (EAST CELL). The Early Works project involved construction of a haul road for the future TSF8 Tailings Dam facility. The embankment construction involved moving 1.5 million cubic metres of red dirt. This included relocating 790,000m<sup>3</sup> of subsoil, 74,100m<sup>2</sup> of foundation preparation, 620,600m<sup>3</sup> haul road construction, and 32,000m<sup>3</sup> buttress.

JKC continued from the Early Works contract to install a new Tailings Dam facility at Mesa J. The new tailings dam is to facilitate the Mesa J, Robe Valley mining operations increase their production output and supplement the existing tailings facilities.

Earthworks on the Mesa J Tailings Dam project began with the foundation preparation of a 124,800m<sup>2</sup> area. The works involved moving a massive 2.8 million m<sup>3</sup> of dirt. Cement stabilised fill, rock screening, and filter drainage was also required.

The Tailings Dam project also involved the installation of 31.4km of dewatering pipelines, valves, pressure transmitters, flow metres, and turbidity instruments. Demonstrating their equipment capability, JKC supplied generators, fuel tanks, VSD's, submersible pumps, a high capacity 6" water pump, concrete precast pipe footing, culverts, pipe crossings, and telemetry units.



The Mesa J project started in November 2022, and continued through until January 2024.

When asked how the JKC team were so successful at delivering large scale projects, Owner and Operating Director, Jason Dow, replied, "our willingness to provide innovative solutions, creates cost and time savings for our clients. We have a team of experienced engineers and operators that are ready to help, and a reliable fleet of plant."



Other projects that have been completed by JKC include an embankment construction and culvert installation at Western Turner Syncline, and clearing, grubbing, and a drainage and sedimentation pond installation for the GRR Resource Development Field Programme.

JKC holds International accreditation in quality, environmental, and health and safety.

With a focus on continuous improvement, the team at JKC emphasise their strong relationships with clients as the key to their growth and success. Now, with a large portfolio of mining projects under their belts, JKC is on a forward trajectory to cementing their position as one of the Pilbara's leading contracting companies.

J&K Civil's main office is located in Bullsbrook, Western Australia. They can be contacted by calling (08) 9571 1881, or visiting [www.jkcivilwa.com.au](http://www.jkcivilwa.com.au)





# Born from Opportunity

## Minta Contractors' happenstance beginning and continued success.

### Minta Contractors was founded in May 2023. Tell us about the company and how it was established.

Minta Contractors Pty Ltd, emerged from a remarkable opportunity to collaborate with Cut 'N' Break Concrete on the Yanchep Rail Extension. A significant project in Western Australia, Cut 'N' Break were supplying concrete cutting, drilling and breaking services, when they reached out to industry contact, Hayden Wilson, to complete the pile cropping portion of the contract.

The allure of this opportunity was so compelling that Hayden and his partner, Kirsten, decided to establish Minta Contractors and embark on this venture.

### What industries do you operate in and what services do you offer?

Minta Contractors operates within the earthmoving sector, with a distinct specialisation in concrete pile cropping. Once established in the ground as a stable foundation, piles must be cut and levelled to a specific height before construction takes place. Mounted to an excavator, pile croppers are used to cut piles to their unified, level finish.



### As a new business, what have been your biggest challenges?

Minta Contractors entered the market with a longstanding history in the construction industry. Navigating the legal requirements of establishing a new business - including licenses, permits and onboarding of equipment to site - has been a learning curve.

Entering a market with established players and trying to obtain initial contracts has been challenging. Managing cash flow during this process has been crucial to the success of the company, and now that Minta has been in operation for over a year, the team are proud to note that their relationships and testimonials have been incredibly beneficial in establishing the company as a strong player in the industry.

### Are there any exciting projects underway?

Minta Contractors is currently collaborating with Cut 'N' Break Concrete on the Thornlie-Cockburn Link (TCL) project. This 17.5-kilometre project is Perth's first east-west cross line connection and will connect Mandurah and Armadale, offering Perth's south-eastern suburbs a more flexible and frequent service.

Performing the project's pile cropping, the partnership allows Minta to contribute to the successful execution of this significant rail infrastructure endeavour.

### What sets you apart from your competitors?

Minta Contractors brings together the dynamic partnership of Hayden Wilson and Kirsten Swenson, who together, share an extensive history and understanding of the industry. Both Business Director and Excavator Operator for the company, Hayden, has a professional background in excavation, drainage, demolition, and concrete pile cropping. Understanding the managerial and onsite requirements and activities, elevate the company's operations and ensure efficient project execution.

Minta's silent partner, Kirsten, plays a pivotal role with her experience in sales administration within the earthmoving sales sector. Her industry insights and strategic acumen contribute significantly to the company's competitive edge.



### In what areas do you operate?

Currently, Minta is operating in the Perth Metro area, as demand calls them there. The team have full capability to extend their service parameters outside of the metro area if required to do so.

Being a young business, Hayden and Kirsten are incredibly open to the possible developments of the business and will follow where work takes them in Western Australia.

### You currently have a 50t & 20t XCMG excavator on hire. What type of work do you use this for?

Minta Contractors presently operate the 50-ton and 20-ton XCMG excavators on the Thornlie-Cockburn Rail Link (TCL) project. Both are utilised with pile

cropping attachments, and rock breaker, to break the pile heads once removed.

### Where do you see your business in five years from now?

Over the next five years, Minta Contractors strive to collaborate with other construction-related businesses, suppliers, and industry associations, continuing to network and explore joint ventures. At the heart of the business, cultivating strong, long-term client relationships is what drives the team, and they look to solidify these relationships, focussing on repeat business and referrals. Building a strong reputation for quality, reliability, and customer satisfaction, the team will continue to invest in expanding their fleet of equipment to handle various projects efficiently.

*Collectively, the team's comprehensive knowledge, combined with unwavering commitment, distinguishes Minta Contractors from their competitors.*



# Future-Proofing South Australia



## Unlocking a Sustainable Water Supply

Being one of the few infinitely recyclable materials that doesn't lose any of its inherent properties over time, demand for copper continues to rise. In line with global sustainable-development objectives, the South Australian Government seeks to produce one million tonnes of copper a year by 2030. This objective, coupled with the reliance on water to mine it, makes finding a reliable and sustainable water supply vital.

South Australian Chamber of Mines & Energy Chief Executive Officer, Rebecca Knol, highlighted this growing demand following the release of the South Australian 2023-24 Budget. "South Australia holds more than 68 per cent of Australia's known copper resource and is well positioned to take advantage of the growing global demand for the metal, crucial for electrification and renewable energy generation," she said.

The Far North, Upper Spencer Gulf and Eastern Eyre Peninsula regions of South Australia are heavily reliant on non-renewable water sources for local industry and community. Currently, a large percentage is obtained from the Great Artesian Basin, the River Murray, and other local groundwater aquifers.

Groundwater extraction is an expensive process and carries the potential of salinity and other water quality issues, which place constraints on the growth of mining in the region. Additionally, overuse of groundwater has wider environmental impacts.

"More than half of the world's largest aquifers have rapidly declining groundwater storage, jeopardising global food and water security and ecosystems' sustainability," Dr Christopher Ndehedehe from the Australian Rivers Institute, explains.

"Excessive groundwater pumping draws down the water table and, under prolonged drought conditions and higher evaporation, groundwater depletion causes wells to run dry because recharge is unable to replace the groundwater as quickly as pumping removes it."

In the effort of working towards a net-zero economy, and reduce reliance of non-renewable water sources, the Northern Water project proposes a desalination plant be constructed in the Spencer Gulf region with a network of pipes running to the north of the state.



Currently in the Planning & Assessment phase, if approved for Design and Construction, this plant will desalinate 260ML of seawater per day: enough water to fill around 100 Olympic-sized swimming pools. The 600km pipeline network will transfer the large volumes of potable water to Eastern Eyre Peninsula, Whyalla, Port Augusta, Woomera, Carapateena, Roxby Downs, Pimba, and Olympic Dam.

Backed by State Government and major private sector companies, the project is one step closer to realisation having agreed to co-fund the next stage of investigations, ahead of the final investment decision in the first half of 2026.

Among the private sector companies contributing to the estimated pre-FID costs of \$200 - \$230 million, are BHP, Origin Energy, Amp Energy, and Fortescue Energy.

"A safe, reliable and sustainable water source will improve water security, create jobs and help unlock the economic potential of new and expanded opportunities for businesses in the state's north," Deputy Prime Minister, Barnaby Joyce shared, while addressing the Northern Water project.

### The Project Proposal:

- a seawater intake system to draw water from the Spencer Gulf using intake pipes, screens, and filtration systems to remove large debris and safeguard marine life
- pre-treatment to filter out finer particles, debris, and suspended solids, before the desalination process begins
- reverse osmosis: High-pressure storage vessels equipped with semi-permeable membranes would utilise reverse osmosis to remove salt from the water, resulting in the production of potable water
- water storage tanks to store water before distribution through the pipeline network
- outfall pipes to return concentrated seawater back into the ocean
- renewable energy integration including electricity sub-stations and transmission lines to power the plant with renewable energy sources
- access and parking to support transportation and logistics including roads, vehicle parking, and loading areas

An Environmental Impact Statement (EIS) will evaluate the existing environment, opportunities and potential impacts of the project, strategies of impact mitigation, and strategies to add value to the project. Currently being prepared, the EIS is expected to be released in mid-2024 for public consultation.

As the evaluation of the \$5 billion project develops, Premier of South Australia, Peter Malinauskas stands behind the project's importance: "We have all the ingredients the world economy needs as it takes the necessary steps to decarbonise – copper, magnetite, a burgeoning hydrogen industry, the world's best coincident wind and solar resource, and already world-leading renewable energy penetration. The missing ingredient is water."

If approved, it is estimated that the project would generate \$5.2 billion annually for the local economy, and support 4,200 jobs. To find out more, visit [www.northernwater.sa.gov.au](http://www.northernwater.sa.gov.au)



Eroding sandstone shores of Murray River



# Minesite Magazine

## A Window into Mining for 20 Years

There are few more challenging yet rewarding sectors than mining – from the hope of exploration to the success of production it is replete with stories of those willing to push the boundaries to fulfil their dreams.

And there are few mining jurisdictions in the world in which that desire and hope is reflected better than in Western Australia.

Its hard-fought reputation for mining excellence has been built on the pioneering days of the gold rush, the foresight and tenacity of iron ore pioneers who spotted a black outcrop of iron ore from the air and worked hard to establish an industry, and the hopeful explorers, pegging and searching for the next big deposit.

Western Australia has a rich mineral endowment and a history to match.

It is home to global giants, start-ups and scale-ups and the many companies who provide support with staff, technology, heavy machinery, and infrastructure services.

And then there are those who call Western Australia home but who have chosen international jurisdictions in to operate, helping to improve communities and economies in other parts of the world.

The mining sector should not be considered just through the lense of the miners; it is much more – including tech companies opting to spend money on research and development to provide the technologies and tools that will help the sector find, define and mine minerals and metals with confidence and speed.

The big-ticket mines of iron ore have now been joined by a raft of miners involved in “future-facing” minerals and metals including lithium, cobalt, copper, and rare earths – all of which Western Australia has in abundance.

As always, the challenge is to mine economically and sustainably amid changing economic and geopolitical circumstances.

For the past 20 years, this rich history has been captured by the Minesite Annual publications.

A collaboration between the WA Mining Club and Platform Publications – it is a magazine for and about the State’s mining sector.

Delving into the pages of any of the editions of the past 20 years delivers a snapshot of the industry.

- In 2011, Sandfire Resources celebrated its rapid progression from discovery to development and looking ahead to the start of production in 2012.
- In 2013, BHP (then BHP Billiton Iron Ore) marked the opening of its Integrated Remote Operations Centre in St George’s Terrace, with Iron ore President Jimmy Wilson saying that “for the first time we can see our total supply chain, in real time and in one place.”
- In 2015 it was Roy Hill’s opportunity to celebrate as its \$10 billion project entered the final stage of construction and was ramping up operations, noting that over the construction period, more than 40,000 people had worked at Roy Hill.



- In 2017, Gold Fields was hungry for exploration and developing an appetite for Gruyere, exploration drilling was on the rise, Tianqi was building its lithium hydroxide processing plant in Kwinana, and Pilbara Minerals was building its Pilgangoora mine.
- In 2019, renewables, critical minerals and battery storage had emerged as important developments.
- In 2021, green hydrogen and decarbonisation were central.



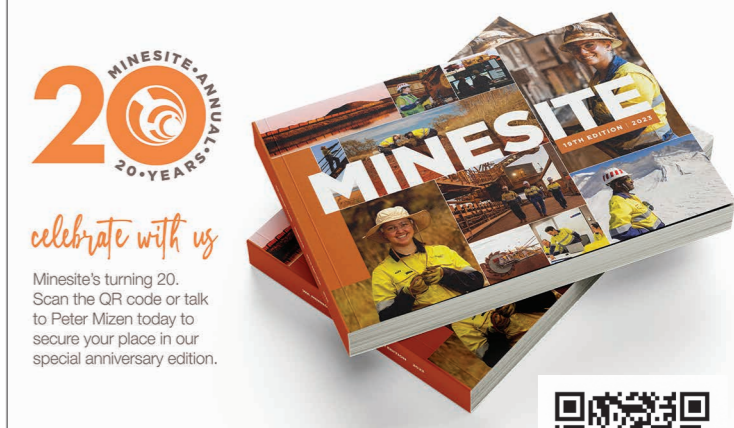
Minesite has always been supported by the Premier and Mines Minister of the day, recognising the extraordinary contribution the sector has to the economic prosperity of the State.

Platform Publications Director, Kirsty Danby – a former WA Mining Club President – said Minesite was an excellent window into the industry.

“Each year our publication celebrates mining in WA. As a State we are fortunate to be the custodians of an array of world-class metals and minerals which the world will need now and in the future,” Kirsty said.

“Just as the WA Mining Club has grown significantly since its beginning in 1972 to become the premier networking destination for industry professionals, so the Minesite publication has grown over the past 20 years.

“We are proud to be part of the sector’s growth and that of the WA Mining Club and we look forward to charting the success in the years ahead. There are no better sectors in which to be involved than mining.”



To find out more about Minesite publication, scan the QR code, call 0412 844 425, or visit [www.waminingclub.asn.au/publications/minesite-annual](http://www.waminingclub.asn.au/publications/minesite-annual)





# Underwater Landscaping

## Monkey Mia Seagrass Restoration Project

Travelling from Emerald, Queensland in 1992 with intentions of completing a working holiday lap of Australia, Greg and Janine Ridgley arrived in Monkey Mia with nothing but a Jeep Cherokee, a 16ft caravan and their one-year-old son, Liam. Falling in love with Shark Bay, they leased a sailing vessel, 'Aristocat', from Geraldton and set up shop, starting a business conducting wildlife tours in Monkey Mia. An instant hit with touring circles, once Aristocat's lease came to an end in 1997, the family custom built Aristocat 2 to continue offering sailing dugong and wildlife safaris. The rest is history.

### Shark Bay's Seagrass Meadows

From May-July, seagrass seedlings are released from female plants, floating to the surface and carried to a new resting ground by the current. Here, they sink and become imbedded in the seafloor where they grow. Through this natural process, only 1 in 100 seedlings make it to maturity.

With 11 species of seagrass covering 4,000km<sup>2</sup>, Shark Bay's seagrass meadows are the world's largest marine carbon sink and are considered the largest living organism in the world, spanning 180km.

Seagrass is 270% more effective at absorbing carbon than terrestrial forests, with 1km<sup>2</sup> of trees capable of absorbing 32,000t of carbon; comparatively, seagrass is able to absorb 87,000t. Additionally, 1m<sup>2</sup> of seagrass can produce up 10L of oxygen per day.



### Monkey Mia Seagrass Restoration Project

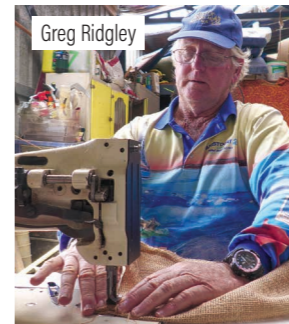
When a marine heatwave swept over Shark Bay and the West Australian coastline in 2010-2011, the water temperature rose to 30 degrees for approximately 90 days. An algal bloom resulted, attacking the seagrass which began degrading and turning the water black. Without sunlight able to penetrate through the water, photosynthesis was unable to take place, ultimately causing 37% (1,000km<sup>2</sup>) of the seagrass to be lost. The carbon released from this event and the impact on the biodiversity of Shark Bay is immeasurable.

Having witnessed the devastating effects of the heatwave firsthand, Aristocat 2 set out to restore the meadows. Partnering with the University of Western Australia (UWA) for an experiment, they laid sandbags as a stable base to capture seeds, in efforts of increasing survival rates.

What began as an experiment, has developed into a long-term operation. At the experiment's close, Aristocat 2 implemented valuable lessons learned and adapted the process, beginning the Monkey Mia Seagrass Restoration Project. Blackwoods donated a courser grade of hessian bag to increase grip on the seagrass, and the team modified the sandbag design and deployment layout. 37t of sandbags were laid, equivalent to 2.5km of sandbags covering an area of 3ha.

### Capturing Seeds

An exceptionally difficult task to undertake, and entirely funded by Aristocat 2, the Ridgley family purchased an industrial sewing machine and sewed 1,600 sandbags in their home shed.



Collecting sand from the Monkey Mia boat ramp using a small tractor supplied by RAC Resort, and with the help of volunteers and representatives of the traditional owners of Shark Bay 'Malgana Rangers', sandbags were filled by hand from a hopper loaned by the Shire of Shark Bay.

Aristocat 2 ceased business operations and was then donated for 6 days to carry out the sandbag deployments, ensuring that the sand used was that of the natural environment and the 'Malgana Rangers' were present to ensure it was free of cultural artifacts.



The success of the 2023 project was exceptional, with almost all sandbags naturally recruiting seedlings and an additional 2 species of seagrass growing amongst the sandbags where the seabed had now been stabilised. The team monitor sandbags every 4-6 weeks by snorkelling on the sites and photographing seedling growth rates.

### Translocation Permit

Unfortunately, during the months of May-July, when seedlings are released, Monkey Mia occasionally experiences a strong easterly wind. When this occurs, the seedlings are carried too far from the seagrass meadows and are washed onto beaches where they dry out and perish.

To replant as many seedlings as possible, the Aristocat 2 team applied for a Translocation Permit from DBCA, where volunteers will collect seedlings from the beach, storing them in a tank to keep them alive and then releasing them back onto the affected seagrass meadows during sandbag deployments.

### Overcoming Challenges

With a 2024 goal of installing 10,000 sandbags, the biggest challenges have been funding, support, and time. The team are maintaining daily operations while evenings are spent writing reports, researching, or contacting sponsors. Seagrass restorations in other locations have been priced at \$160,000 per ha, however, the Aristocat 2 has a system that can lower that price to \$40,000 per ha.

Teaming up with Brooks, the team will use a telehandler to fill sandbags, laid out on a frame in a grid pattern. Using the machine's jib and forks, they'll be placed in cages and loaded onto the newly purchased jetboat - 'Norwest Lady' - for deployment.

Where the Aristocat 2 only allowed for deployment at high tides, the new jetboat's draught means the team can be out at any time of day, and its enclosed propellers ensure dugongs and other marine mammals aren't injured in the process.

Although taxing on the team, getting in the water where there was once a barren sandbar, and seeing seagrass and entire ecosystems abundant, makes it all worthwhile. Through the project, not only is the ecosystem being restored, but being safeguarded against further extreme marine heatwaves.

To find out more about the project, or to help support the team, visit [www.perfectnaturecruises.com.au](http://www.perfectnaturecruises.com.au)



# Energy Awakened



## Continuing the Drive for Greener Operations

In February of 2024, Brooks welcomed four all-electric vehicles into their staff fleet, with another on order.

Rated 'Drive' Car of the Year in 2023 for 'Best Electric Car Under \$70K', one of the models introduced to the fleet, is the BYD ATTO 3, which offers up to 480km of drive time on a single charge. Although the brand only hit Australian soil in 2022, BYD was born in Shenzhen, Guangdong Province back in 1995. What was initially a company specialising in the development of Ni-Cd and lithium-ion batteries, made the jump into the automobile industry in 2003, combining their expertise in battery technology to develop electric cars.

### ATTO 3

Offering 150kW maximum power, the ATTO 3 utilises the in-house developed Blade Battery, which outperforms competitors' battery offerings in both energy density and safety. In 2022, the ATTO 3's ANCAP Safety test produced a five-star rating. Where the focal point for Electric Vehicles (EVs) has progressively veered towards battery density and range capabilities in the expanding market, safety has often been sidelined. When put through rigorous testing including being crushed, bent, being heated in a furnace to 300°C and overcharged by 260%, unlike competitor brands, the Blade Battery passed these tests without a fire or explosion resulting.

"This implies that EVs equipped with the Blade Battery would be far less susceptible to catching fire – even when they are severely damaged." – BYD Motors, Pasadena, CA.

Brooks Hire Chief Operating Officer, Josh Willett, has been a key player in acquiring the all-electric vehicles for staff. He shares: "With the EV landscape evolving fast and Australian charging infrastructure really coming up to speed, it was a no brainer to acquire some EV vehicles for our city operations."

Highlighting the company's dominance in the EV market, BYD closed 2023 with record sales, topping that of competitor, Elon Musk's Tesla, in Q4 for all-battery electric vehicles.

In addition to the ATTO 3, BYD also produces a range of electric buses, trucks, vans, and forklifts, and holds stakes in the electronics, new energy, and rail transit industries.

Moving towards greener operations throughout Brooks as a whole, Josh explains how the addition of EVs has provided valuable knowledge in purchasing electric heavy machinery. "The charging plug on our new XCMG electric wheel loaders are the same as the cars, giving us an understanding of how to charge them and the costs involved. There is a lot to learn but is quite simple once you get the hang of it. Not to mention never having to go to a petrol station anymore, or for an oil change!"

Brooks will continue to invest in greener operations, both on and off the mine site.



## Mack Muster A Trucking Good Cause

Mack Muster is WA's premier truck show event for all makes and models. All proceeds from the show go towards cutting edge cancer research at the Harry Perkins Institute for Medical Research, to help make cancer non-lethal.

The founding idea for a Mack Muster in WA stemmed from WA Limestone Director, Steve Della Bona, and CTS Low Loaders Director, Jason Clatworthy, who share a love for Mack trucks and are both Mack Value-Liner owners. They had an idea about hosting a small get-together displaying their Mack trucks in a paddock with some beers and a BBQ along with several other Mack enthusiasts. This idea took off! They established a committee, and the WA Mack Muster and Truck Show was born. It evolved from just Mack to a full blown truck show for all brands.

The inaugural WA Mack Muster and Truck Show was held in 2020.

It was a huge success, with 140 trucks from across Australia on display, more than 3,500 spectators attending the show, and raising a total of \$100,000 for the Harry Perkins Institute of Medical Research.

Now, five years later, the 2024 Mack Muster attracted 350 big rigs, with a crowd of 8,000 people flocking to fill the grounds.

Brooks Transport entered four trucks into the competition including three Volvos, and a Kenworth. The competition was tough; there were so many great looking trucks on display. Unfortunately we didn't secure a prize this time around, but Brooks will be back next year for sure.

Congratulations to those who did scoop a prize, and big pat on the back for the organisers of the event. It was an amazing show, and one that gives back to a worthy cause.

# New Equipment

## THE BROOKS FLEET OF ASSETS

As the Brooks group of companies continues to expand, so does the extensive fleet of machinery available for hire and sale. Here are some of the new machines hitting our yards across the country!

**BROOKS**  
HIRE

Just a few of the many models joining our fleet of late model, low hour machines.



DV90 Wacker Neuson Dumper



Caterpillar 150 Motor Grader



Komatsu HM400 Artic. Dump Truck



Isuzu FYH300-350 Service Truck



Komatsu PC138US Excavator



Caterpillar CS68B Roller



XCMG GR2605T Pro Grader



Caterpillar 982M Wheel Loader

**BROOKS**  
EQUIPMENT

Brooks Equipment's dealership agreement with XCMG has seen machines rapidly arriving in our yards across the country. Available in WA, NT, SA, and the majority of QLD, these include excavators, rollers, loaders, dumpers, and more!



**BROOKS**  
ACCESS

It's been a busy quarter for Brooks Access, keeping up with the demand for equipment. In addition to new machines pumping out for hire, a wide variety of XCMG boom lifts and scissor lifts have joined the fleet for both hire and sale.



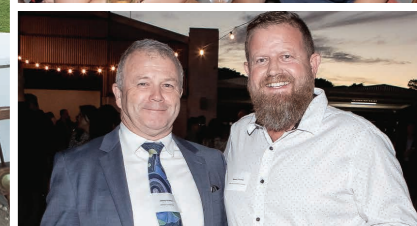
# Brooks OBR MAIA



## Client Appreciation Dinner and Joint Venture Launch

It was a stunning evening in Perth on Friday, 5th April, when Olive Branch Resources, and BROOKS OBR MAIA, celebrated their collaboration with a Client Appreciation Dinner. Over 250 people turned out to enjoy the summery weather, food, drinks, and cultural entertainment.

Brooks OBR MAIA is a joint venture between Brooks, and Olive Branch Resources. The purpose of the joint venture is to provide an honest and genuine plant hire alternative that gives back to the Aboriginal community.



## EVENTS AND EXHIBITIONS

### ACBC Lunar New Year

The Australia China Business Council (ACBC) and the Chinese Chamber of Commerce (CCCA) celebrated the Year of the Dragon in style at their Chinese Lunar New Year Gala. Held on the 16th February, Brooks attended as Silver Sponsors. This annual flagship event, attended by the premier of Western Australia, Roger Cook, featured a decadent Chinese banquet, a variety of performances, and influential speakers. The Year of the Dragon traditionally symbolises honour, luck, power and success.



### CCF NSW Golf Day



The 16th February was a busy day for Brooks on both sides of the country. The NSW team were joined by WA based, Senior Hire Coordinator, Karri Nankervis, for the Civil Contractors Federation of New South Wales (CCF NSW), annual Golf Day. On the picturesque grounds of the North Ryde Golf Club, golf enthusiasts gathered on for an exceptional day filled with sport, networking, and spirited competition. Congratulations to all the winners on the day.

### WA Mining Club Golf Day

The WA Mining Club held their President's Cup Golf Day on Friday, 23rd February. The WAMC President's Golf Day is a sell out every year, with players keen to take part in a relaxing networking afternoon. Brooks are an annual sponsor of the event; this year sponsoring the oyster shucking - giving players the opportunity to stop under a shady tree and sample fresh oysters with a range of tasty condiments. Stuart Brooks, Jacinta O'Brien, Michael O'Grady, and Romana Begicevic made up the Brooks team in 2024.



## AOG Energy Convention



AOG Energy Convention is Australia's premier oil, gas, and energy supply chain event. The 2024 convention, held at the Perth Convention Centre from 13th-15th March, was a huge success with over 7000 people through the doors. Brooks Airways has attended the event for several years now, promoting their corporate charters, FIFO flights, and medical repatriation flights for the oil and gas industries. It is an ideal space to network and connect with other businesses.



### WAMC Miner's Mingle



The WA Mining Club YP 2024 kickoff event was held at Mayfair Lane pub in West Perth, where Matt Michael of 'Money of Mine' podcast fame interviewed KPMG consulting's David Rose. Stuart and Lenore Brooks attended on behalf of Brooks Hire.

### APGA Renewable Gas



Our Brisbane team attended the Australian Pipelines and Gas Association 2024 Renewable Gas Symposium.

The event highlighted Australia's cutting-edge renewable gas facilities, and innovative hydrogen and biomethane projects, with insights from industry leaders who have played a pivotal role in shaping Australia's renewable gas landscape.

### MACA Hawaiian Ride for Youth Breakfast



On Thursday, 7th March, almost 400 individuals came together at MACA's annual Hawaiian Ride for Youth Breakfast to champion the mental health outcomes of young people in WA. Lenore Brooks and Nathan Fenemer were at the breakfast to support the cause. Held annually in March across 4.5 days, riders cover over 700kms on their way from Albany to Perth to raise funds and awareness for Youth Focus. While cycling through towns in WA's South West, Great Southern and Wheatbelt, the riders visit high schools to engage with students on the importance of positive mental health. This year, the MACA Hawaiian Ride for Youth raised \$2,068,259 for youth mental health.

# International Women's Day

International Women's Day was celebrated by the Brooks 'crew' on Friday 8th March: a global day celebrating the social, economic, cultural, and political achievements of women. The day also marks a call to action for accelerating women's equality.



Adelaide



Albany



Bunbury Outer Ring Road



Sydney



Broome



Bunbury Outer Ring Road

# Sprint Cars

The Brooks marketing team were invited by MMM radio station to take part in 'Whoop Ass Wednesday' at the Perth Motorplex recently. Driving super fast sprint cars up to 240km per hour on a dirt track was definitely a thrill. Luckily they all made it out alive to continue with their marketing duties!



# Super Deal!



Congratulations to Joe from INOV8 Services who was a winner of our Super Deal prize, taking home a Coast Rechargeable LED Headlamp, Coast Area Light, and Olight Baton.

# Community Sponsorships

Brooks has had a busy start to 2024, sponsoring numerous community clubs and events around Australia.

East Fremantle Sharks Netball Club, Perth WA



Congratulations to Brooks Boilermaker, Rex, and the Brooks team for their Grand Final win in the Asia United Basketball Association league.

Burrandowan Campdraft, Dalby QLD



Emu Point Bowls Club, Albany WA



Pilbara Academy of Football Newman WA



Tom Price Tigers Football Club, Tom Price WA

# Welcome Aboard

## Romana Begicevic



**What was your first job:**  
Sales at Roger David, Hay Street, Perth CBD.

**What is your role at Brooks:**  
Business Representative, Perth City Office, WA.

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

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

**How would you describe yourself in 3 words:**  
Creative, resilient, and adventurous.

**Where would we find you on the weekends:**  
Quality time with family and friends.

**What is something that you're really good at:**  
Managing multiple complex relationships.

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

**If you could invite anybody to dinner (dead or alive), who would it be:** Family, friends, Audry Hepburn, Marie Curie, Marilyn Monroe, Frida Kahlo, Ruth Bader Ginsburg, Nicola Tesla, Nelson Mandela, Elvis, Tina Turner, Mozart, Socrates, and Leonardo da Vinci.

**Favourite cake:** Black Forest.

**Favourite song:** 'Mr Brightside' by The Killers.

**Favourite holiday destination:** Spain.

## Priya Naidu



**What was your first job:**  
Salad Bar Monitor - Sizzlers (I cant believe that was an actual role!).

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

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

**How would you describe yourself in 3 words:**  
Energetic, kind, and funny.

**What achievement in life are you most proud of:** My daughter Sloane, she's 18 months old, and my Karma for being savage as a child!

**Where would we find you on the weekends:** I'm a mother first, so mostly home, but if I can ever escape, I'll never say no to a pint and a game of pool!

**What is something you're really good at:** Talking to people.

**What is something you're really bad at:**  
Talking in front of a large group of people.

**If you could invite anybody to dinner (dead or alive), who would it be:** Jason Momoa - no explanation needed! But does it have to be dinner?

**Favourite cake:** Ice cream cake - not a cake fan but a child at heart.

**Favourite song:** "Uptown Girl" It's before my generation, but it's my happy song. You cannot cry to this song.

**Favourite holiday destination:** Florence, Barcelona, Greek Islands - anywhere with amazing food and architecture.

**Where would we find you on the weekends:**  
Gaming with friends or out with friends taking drone videos.

**What is something that you're really good at:** Technology and programming.

**What is something that you're really bad at:** Starting a conversation and public speaking.

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

**Favourite Cake:** White Forest.

**Favourite Song:** 'Perfect' by Ed Sheeran.

**Favourite holiday destination:** Back home with spicy food.

## Ellesia Walters



**What was your first job:**  
Making pizzas at a local pizza shop.

**What is your role at Brooks:**  
Administration Assistant, Brooks Airways.

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

**What achievement in life are you most proud of:**  
Having my son.

**How would you describe yourself in 3 words:**  
Positive, enthusiastic, and honest.

**Where would we find you on the weekends:** On my couch.

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

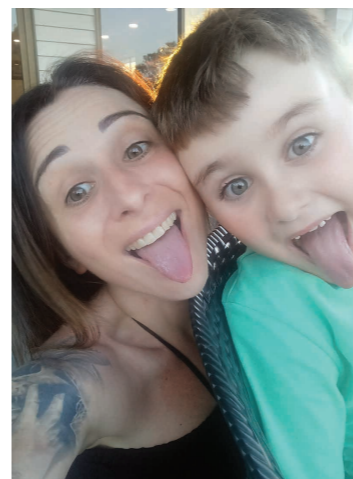
**What is something that you're really bad at:**  
Cleaning up after baking cakes.

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

**Favourite Cake:** Chocolate.

**Favourite holiday destination:** Thailand.

## Michela Klopper



**What was your first job:**  
Team Assistant at an advertising company.

**What is your role at Brooks:**  
Hire Coordinator, Brisbane, QLD.

**What did you want to be when you grew up:** A lawyer, to suit my argumentative nature.

**What achievement in life are you most proud of:** Raising a kind hearted, and empathetic child.

**How would you describe yourself in 3 words:** Bubbly, happy, chaotic.

## Joel Treagus



**What was your first job:**  
Apprentice Mechanic.

**What is your role at Brooks:** MC Driver, Brooks Transport, Brisbane, QLD.

**What did you want to be when you grew up:**  
An army mechanic.

**What achievement in life are you most proud of:** Being a dad and trade qualifications in mechanical and heavy diesel.

**How would you describe yourself in 3 words:**  
Hard worker, outgoing, and always willing to help.

**Where would we find you on the weekends:**  
Spending my time fishing or swimming with my family.

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

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

**If you could invite anybody to dinner (dead or alive), who would it be:** My wife's Nannie so I could have her silverside and a nice conversation.

**Favourite Cake:** Pavlova.

**Favourite Song:** 'Shook Me All Night Long' or 'Thunderstruck by AC/DC.

**Favourite holiday destination:** Bargara.

**Where would we find you on the weekends:**  
Anywhere having a good time with my fam-bam and dog.

**What is something that you're really good at:**  
Adapting to whatever life throws at me.

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

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

**Favourite Cake:** Any type that helps grow those hips.

**Favourite song:** 'Storia fra le dita' by Gianluca Grignani.

**Favourite holiday destination:** Kruger Park.

## Jithin Eringat



**What was your first job:**  
Software engineer for SG Controls.

**What is your role at Brooks:**  
Software Developer, Welshpool, WA.

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

**What achievement in life are you most proud of:** Obtaining Masters in Computer Science.

**How would you describe yourself in 3 words:**  
Techy, gamer, introvert.

## Caleb Sheldon

**What was your first job:**

Paper route.

**What is your role at Brooks:**

Hire Coordinator, Brisbane, QLD.

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

Astrophysicist.

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

My family.

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

Honest, loyal, determined.

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

Spending time with my family, getting chocolate ice cream for my daughter.

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

Growing plants.

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

Making excuses as to why I need the said plants and in such quantities.

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

My grandfather.

**Favourite Cake:**

Black forest.

**Favourite song:**

'Bridges' by Broods.

**Favourite holiday destination:**

Somewhere Snowy.

## Melvin Mathews

**What was your first job:**

Aerospace Instrument Engineer.

**What is your role at Brooks:**

Licensed Aircraft Maintenance Engineer, Brooks Airways.

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

Rich.

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

A lovely wife and two beautiful children.

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

Tall, dark, and handsome.

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

At the cricket ground or riding the motorcycle.

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

Cooking.

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

Hiding my expressions.

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

My Dad.

**Favourite Cake:**

Chocolate icecream cake.

**Favourite Song:**

'Billie Jean' by Michael Jackson.

**Favourite holiday destination:**

Europe.

## Katie Usher

**What was your first job:**

Receptionist at a Toyota dealership.

**What is your role at Brooks:**

Hire Coordinator, Brooks Access, Welshpool, WA.

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

A vet.

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

My thesis in which I helped to validate a drug for the treatment of triple negative breast cancer.

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

Kind, diligent, and easy going.

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

At the gym, socialising with friends, and at the beach.

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

Never missing a sunset.

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

Parallel parking.

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

My parents as they are currently on the other side of the world (Ireland).

**Favourite Cake:**

Red velvet.

**Favourite Song:**

'Joy of My Life' by Chris Stapleton

**Favourite holiday destination:**

Italy or Broome.



## Rebekah Ng

**What was your first job:**

Plain Heavens Ice Cream in Singapore - high school vacation job.

**What is your role at Brooks:**

Account Receivables Officer, Brooks Airways.

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

Designer.

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

Moving to Australia and starting a family.

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

Kind, loyal, and responsible.

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

Lunches and dinners with family and friends.

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

Baking sugee cake.

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

Saying no to my dog, Toto.

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

My dad.

**Favourite Cake:**

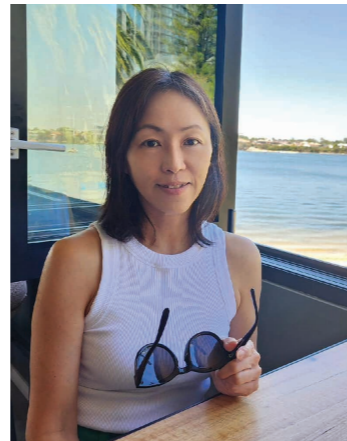
Strawberry.

**Favourite Song:**

Too many to choose from!

**Favourite holiday destination:**

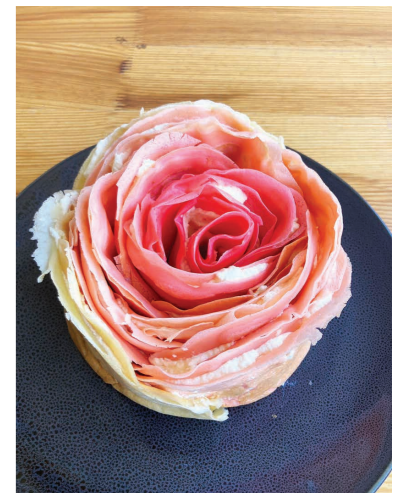
Europe.



## Aria's Kitchen

### Rose Pancake

Our Asset Administrator, Aria Pei, whipped up this beautiful rose pancake and we just had to share it. She tells us it's very easy to make. We challenge you to have a go and send us your results!

**INGREDIENTS****Pancake**

3 eggs  
30g sugar  
23g vegetable oil  
120g self-raising flour  
360ml whole milk  
Red food coloring (optional)

**Diplomat Cream**

30g sugar  
15g cornstarch  
200ml whole milk  
15g butter  
200ml heavy cream  
28g powdered sugar  
1 teaspoon vanilla extract

**METHOD****Pancake:**

1. Whisk together eggs and sugar until well combined.
2. Gradually add vegetable oil, self-raising flour, and whole milk, mixing until smooth.
3. Add red food coloring to achieve the desired color.
4. Heat a non-stick pan over medium heat and pour a small amount of batter to make thin pancakes. Cook until golden brown on both sides. Repeat with remaining batter. Set aside to cool.

**Diplomat Cream:**

1. Heat milk until simmering. Remove from heat.
2. In a separate bowl, whisk together egg yolks, sugar, and cornstarch until smooth.
3. Slowly pour the hot milk into the egg mixture, whisking constantly.
4. Return the mixture to the saucepan and cook over low heat, stirring constantly, until thickened. Remove from heat and stir in butter until melted. Let cool completely.
5. In a separate bowl, whip heavy cream, powdered sugar, and vanilla extract until stiff peaks form.
6. Once the custard has cooled, gently fold in the whipped cream until well combined.

**Assembly:**

1. Spread a thin layer of Diplomat cream onto one side of a pancake.
2. Fold the pancake into a semicircle with Diplomat cream inside.
3. Spread a thin layer of Diplomat cream onto one side of the semicircle.
4. Roll the semicircle into a tight spiral with Diplomat cream inside, and place it vertically on a serving plate to resemble a rose shape.
5. Repeat with remaining pancakes and Diplomat cream until all pancakes are used.



# 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

M	E	Y
N	E	E
C	G	R

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## Crossword

### Across

- 1. Interspersed with
- 6. West Indies island
- 11. Response to a scarecrow
- 14. Chocolate source
- 15. Rope fiber
- 16. "You --- what you eat"
- 17. Corner Superman in a Central Park mix-up?
- 19. Batter's achievement
- 20. Ravel's "Daphnis et ---"
- 21. "Jurassic Park" beast
- 23. --- Aviv
- 26. Make dates disappear?
- 27. Bumbles
- 28. The Gipper
- 30. Spa indulgence
- 31. Like a rainbow
- 32. Puts up the cash
- 33. Morning castoffs
- 36. Sound enhancer
- 37. Early Britishers
- 38. Tantrum thrower
- 39. Cheerleader's requirement
- 40. Car payments?
- 41. Be put out to pasture
- 42. The Maldives, e.g.
- 44. "--- Age" (Rodin work)
- 45. Proverbial laugh providers
- 47. Audience put-down
- 48. Elizabethan dramatist Thomas
- 49. Site for rods and cones
- 50. Hole in the head
- 52. Coffee server
- 53. Clever hot-shot lobbyist in a Central Park mix-up?
- 58. Connection
- 59. Knighted Newton
- 60. A "Hilton" locale
- 61. Always, poetically
- 62. Oscar winner of 1939
- 63. City near Salt Lake

### Down

- 1. King's higher-up?
- 2. Word before and after "oh"
- 3. Mo. to remember Columbus
- 4. "Traffic" cop. 5. "Give it a try"
- 6. Fancy cravat. 7. Vex.
- 8. NAFTA signer.
- 9. Recruit's refuge
- 10. Strong chemical bases
- 11. OPEC foolishness in a Central Park mix-up?
- 12. Shady retreat.
- 13. Low dams. 18. Scheme.
- 22. Classy org.?
- 23. Hobo.
- 24. Uncanny. 25. Need a mate in a Central Park mix-up?
- 27. Pursuits of good reporters
- 29. Wow!
- 30. Yosemite attraction
- 32. Dinner alerts
- 34. Flashy and sporty
- 35. Transport for Prince Charming. 37. Topple
- 38. Hipster's pal
- 40. Clipper's target
- 41. Cigar-puffing TV wit
- 43. Lateral lead-in
- 44. --- fide. 45. Barbarian
- 46. Hawk's haven
- 47. Tree used for canoes
- 50. Stumbling block
- 51. Smelting waste
- 54. Mai ---
- 55. Finish line
- 56. Perch, at first
- 57. They're all in the family

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			

## Sudoku

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

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



## Brain Teasers

A farmer wants to cross a river and take with him a wolf, a goat and a cabbage. He has a boat, but it can only fit himself plus either the wolf, the goat or the cabbage. If the wolf and the goat are alone on one shore, the wolf will eat the goat. If the goat and the cabbage are alone on the shore, the goat will eat the cabbage. How can the farmer bring the wolf, the goat and the cabbage across the river without anything being eaten?



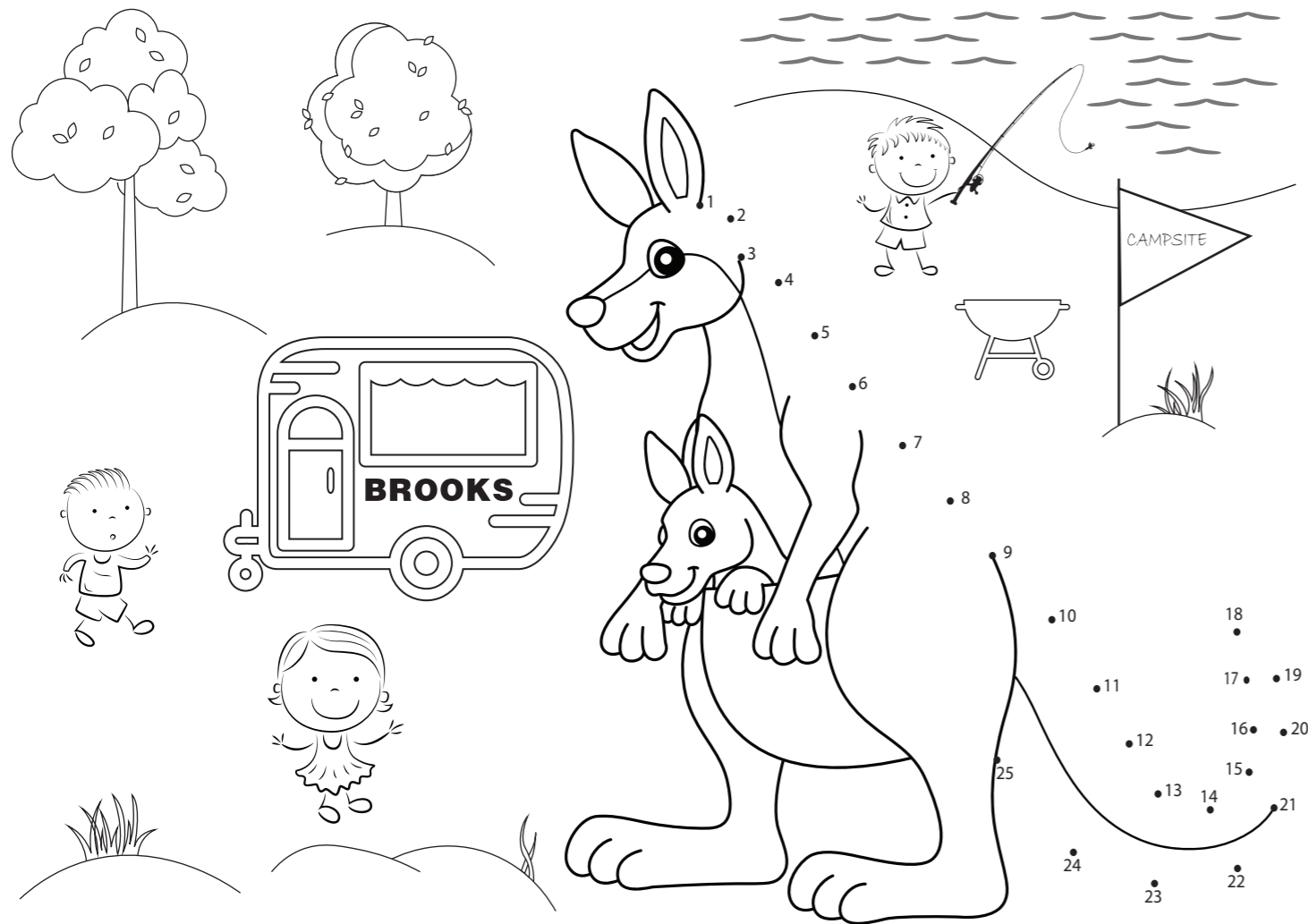
There are two ducks in front of a duck, two ducks behind a duck and a duck in the middle. How many ducks are there?

Susan and Lisa decided to play tennis against each other. They bet \$1 on each game they played. Susan won three bets and Lisa won \$5. How many games did they play?

# 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.



# Snap That

### STAFF PHOTOGRAPHY COMPETITION

Hayden Rance - Bunbury, WA



Marcus Smargiassi & Jason Prince - Bunbury, WA



Andrew Capuana - Perth, WA



BJ Schwerin - Dalby, QLD



Josh Dyer - Perth, WA



Craig Harvey - Sydney, NSW



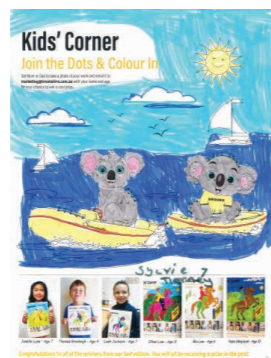
David Ogilvie - Adelaide, SA



Evan Ballancin - Age 4



Mila Lane Age 6



Silvie Tierney - Age 7



Andy Tierney - Age 5



Arlo Tierney - Age 9

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

# 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

CATEGORY	MAKE	MODEL
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
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	PC850-8EOSE
85 Tonne	Komatsu	PC800LC
121 Tonne	XCMG	XE1350
192 Tonne	XCMG	XE2000



## Front End Loaders

CATEGORY	MAKE	MODEL	ENGINE	WEIGHT
1.5m <sup>3</sup>	Komatsu	WA150	74 kW 99 HP @ 2000 rpm	7.5 Tonne
2.1m <sup>3</sup>	XCMG	XC938	99 kW / 132 HP	11 Tonne
2.1m <sup>3</sup>	Caterpillar	930K	110 kW @ 1600 rpm	13 Tonne
2.5m <sup>3</sup>	Komatsu	WA250	124 kW 166 HP @ 2000 rpm	14 Tonne
3.1m <sup>3</sup>	Komatsu	WA320	124 kW 166 HP @ 2000 rpm	14 Tonne
3.2m <sup>3</sup> Electric	XCMG	XC968_EV	270 kW	18.8 Tonne
3.5m <sup>3</sup>	Komatsu	WA380	140 kW 187 HP @ 2000 rpm	16 Tonne
3.75m <sup>3</sup> - 4m <sup>3</sup>	Komatsu	WA430	173 kW / 232 HP @ 2,100 rpm	18 Tonne
3.4m <sup>3</sup>	Caterpillar	950M	187 kW 250 HP	20 Tonne
3.5m <sup>3</sup>	XCMG	XC958	164 kW / 2200 rpm	18.7 Tonne
3.6m <sup>3</sup>	Caterpillar	962M	185 kW 248 HP	20 Tonne
4m <sup>3</sup> - 5m <sup>3</sup>	Komatsu	WA470	204 kW / 274 HP @ 2,000 rpm	23 Tonne
4.5m <sup>3</sup>	XCMG	XC978	216 kW / 2100 rpm	24.5 Tonne
5m <sup>3</sup>	Komatsu	WA480	223 kW / 299 HP	25 Tonne
4m <sup>3</sup> - 5m <sup>3</sup>	Volvo	L150G	210 kW / 1400 rpm	25 Tonne
4.7m <sup>3</sup> - 6.4m <sup>3</sup>	Komatsu	WA500	266 kW / 357 HP @ 1900 rpm	32 Tonne
5.6m <sup>3</sup>	Caterpillar	980M	278 kW	30 Tonne
5.6m <sup>3</sup>	Caterpillar	982M	278 kW @ 1800 rpm	35 Tonne
5.6m <sup>3</sup>	Hitachi	ZW370	289kW @ 1800 rpm	35 Tonne
6.4m <sup>3</sup>	Caterpillar	988K	403 kW	51 Tonne
6.4m <sup>3</sup>	Komatsu	WA600	395 kW / 529 HP @ 1800 rpm	55 Tonne
6.5m <sup>3</sup>	XCMG	LW1200KN	418 kW	50.5 Tonne
7m <sup>3</sup>	Volvo	L260H	309 kW / 420 HP	34 Tonne
13m <sup>3</sup>	Komatsu	WA900	638 kW / 856 HP	107 Tonne



## Tool Carriers

CATEGORY	MAKE	MODEL	ENGINE	WEIGHT
2.2m <sup>3</sup> - 2.3m <sup>3</sup>	Komatsu	WA250PT	104 kW 140 HP / 2000 rpm	10 Tonne
2.2m <sup>3</sup> - 2.3m <sup>3</sup>	Komatsu	WA250PZ	103 kW 138 HP @ 2000 rpm	12 Tonne
1.9m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA270	111 kW 149 HP @ 2000 rpm	13 Tonne
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA320-8	123 kW/165 HP @ 2100 rpm	15 Tonne
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Komatsu	WA320PZ-6	125 kW / 167 HP	15 Tonne
2.5m <sup>3</sup> - 2.7m <sup>3</sup>	Volvo	L90F	129 kW @ 1700 rpm	16 Tonne
3m <sup>3</sup>	Volvo	L110F	170 kW @ 1700 rpm	19 Tonne
3.1m <sup>3</sup>	Hitachi	ZW180-5	126 kW @ 1500 rpm	14.5 Tonne
3.5m <sup>3</sup>	Volvo	L120F	180 kW @ 1700 rpm	20 Tonne
4.2m <sup>3</sup>	Volvo	L150F	209 kW @ 1400 rpm	23 Tonne
4.4m <sup>3</sup>	Volvo	L180F	234 kW @ 1400 rpm	26.6 Tonne
5.2m <sup>3</sup>	Volvo	L220H	279 kW 379 HP @ 1400 rpm	32.8 Tonne



## 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

CATEGORY	WEIGHT	MAKE	MODEL
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	HD12VV
Double Drum	2.8 Tonne	Bomag	BW120AD
3 Pin Static	14 Tonne	Aveling Barford	DC014
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 & Tampers

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



## 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	16MLR	30 Tonne
16' Motor Grader	XCMG	GR3505T Pro	32 Tonne
24' Motor Grader	Caterpillar	24	73 Tonne
24' Motor Grader	XCMG	GR5505	74 Tonne



## Dozers

CATEGORY	MAKE	MODEL	BLADE WIDTH
17.3 Tonne	Caterpillar	D6N	4080mm
17.7 Tonne	Caterpillar	D6H	4486mm
21 Tonne	Caterpillar	D6T XL	3693mm
21 Tonne	Caterpillar	D6T LGP	3693mm
27 Tonne	Caterpillar	D7	3988mm
39.4 Tonne	Caterpillar	D8	5045mm
70 Tonne	Caterpillar	D10T	7416mm



## Articulated Dump Trucks

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



## Site Dumpers

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



## 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	11m³	Isuzu	FVZ 260-300
Tipper Truck	11m³	Hino	500
Tipper Truck	11m³	Isuzu	FVZ 1400
Side Tipper	21m³	Howard Porter	-
Side Tipper	24m³	Road West	-



## 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



### 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



### 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
125 ft	JLG	1250AJP	Diesel
135 ft	Genie	ZX-135 / 70	Rough Terrain



### 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



### 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
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	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	length can be customised
Power Cables	32 amp	length can be customised
Power Cables	63 amp	length can be customised
Power Cables	100 amp	length can be customised
Power Cables	Hardwire	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 banded, multiple fuel connections
Trailer Mounted	1000 L	Double banded, multiple fuel connections
Fuel Tank	2000 L	Double banded, multiple fuel connections
Fuel Tank	4000 L	Double banded, multiple fuel connections
Fuel Tank	10000 L	Double banded, multiple fuel connections
Trailer Mounted	2000 L	Double banded, 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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1.8t Mini to 672t Mining	Bucket Capacity 2.1m <sup>3</sup> - 6.5m <sup>3</sup>	120t - 300t	30t - 40t
			
<b>GRADERS</b>	<b>ROLLERS</b>	<b>DOZERS</b>	<b>SKID STEERS</b>
3.6m blade to 7.3m blade	Smooth & Padfoot - 2.7t - 26t	174t - 35.6t	890kg - 3.8t
			
<b>FORKLIFTS</b>	<b>TELESCOPIC BOOM LIFTS</b>	<b>ARTICULATED BOOM LIFTS</b>	<b>SCISSOR LIFTS</b>
2.3t - 45t	22m to 58.6m	12.5m - 26.6m	7.8m to 18.1m
			

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