

# CAPITAL EQUIPMENT<sup>1</sup> NEWS

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AUGUST 2024



## NEW JCB 3CX BACKHOE LOADERS RANGE PACKED WITH NEW FEATURES

**LUBRICANTS IN MINING:** Leading the charge in mining lubricants

**MINING EQUIPMENT:** Revolutionising mining efficiency and sustainability

**DRILLING:** Azize Equipment unveils new SUNWARD Drill

### SUPPLY CHAIN

A new era for supply chain professionals

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Capital Equipment News is published monthly by Crown Publications

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Bedfordview 2008

Tel: (011) 622-4770

www.crown.co.za

Printed by Tandym Print

The views expressed in this publication are not necessarily those of the editor or the publisher.



Total circulation Q1 2024: 13 679

www.crown.co.za/capital-equipment-news





## HOW WILL SOUTH AFRICA RETURN TO GROWTH?

**P**rofessor Brian Kantor, an economist and the former Chief Investment Strategist of Investec Wealth & Investment SA maintains that private sector involvement in the country's capex could be the catalyst that is needed to start a renewed cycle in investment and growth – much like the cycle between 2002 and 2008.

The basis of his assumption can be found in the Covid-19 lockdowns. These led to bigger savings as companies were wary about spending as the unpredictability and scale of the pandemic made any planning impossible. The result was that South Africans (business and households) went into saving mode. The gross saving eventually exceeded all declining expenditures on capital goods (plant and equipment, which includes mining and construction) as well as new houses and apartments.

Saving is obviously encouraged, but not

on the scale caused by the pandemic. The result was that companies held onto plant for a while longer, leading to inefficiencies in terms of production. While the renovation market flourished, new building declined. Capex, often used to undertake new projects or investments by a company, was heavily subdued in favour of using free flowing cash from savings to tide the industry over to certainty.

In 2021 normality started returning and capex, according to Kantor, increased to more than savings. The country imported foreign capital but the result was that this spending started exceeding incomes as the industry reeled after the unprecedented pandemic. In theory this is not a bad thing. If there are higher levels of spending (in keeping with current incomes), more capital will flow into the economy.

Sadly – and this is why the capex market is battling – capex still represents a low proportion of total incomes. Currently the rates for savings and capex are at around 15% and declining. Simply put: this is a vicious cycle whereby the capex market is going nowhere slowly. From 2002 to 2008 the country experienced a period of surging capex – savings re-

mained in control and capital from abroad flowed into the country. This was and is a recipe for growth.

Kantor says that the only way to achieve faster growth in incomes and expenditure is through higher levels of capex. South African businesses will have to spend more and not rely that heavily on the free flow of cash. This implies

that debt needs to be raised for capex. Some 70% of all capex is undertaken by the private sector and the capex undertaken by the public sector is becoming less – especially after a spate of disastrous capex expenditure for major infrastructure projects.

With the new GNU, there is hope that the private sector will indeed be given the framework for increased capex, while decisions for capex in the public sector will be carefully weighed against necessity and service delivery.

Kantor goes a step further: he reckons that PPPs are a viable way to unlock the capex that can be brought along by procurement. Let's hope that the current administration simplifies the current complex and costly PPP model and that this will soon have a positive effect on capex in the country.

**“With the new GNU, there is hope that the private sector will indeed be given the framework for increased capex.”**

**Wilhelm du Plessis -  
MANAGING EDITOR**



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## TOP 10 RISKS FACING THE TRANSPORTATION AND LOGISTICS SECTOR

The transportation and logistics industry has been battling the operational and commercial fallout of multiple global crises, including the COVID-19 pandemic and geopolitical conflicts. Because of the industry's significance for the global economy, risks and challenges facing the industry will continue to receive scrutiny. Russell Davis, Property Manager - Aon broking centre at Aon South Africa, gives his opinion.



Each of these top 10 risks has tremendous significance for the transport and logistics industry, particularly given the ripple effect they have in a market environment where risks are increasingly interconnected and complex.

Russell Davis, Property Manager – Aon broking centre at Aon South Africa.

Aon's latest 'Global Risk Management Survey' highlights the top risks that transportation and logistics industry respondents ranked, with cyber-attack or data breach and economic slowdown or slow recovery as their two most critical risks. The top 10 risks facing the global transportation and logistics are ranked as follows:

- Cyber attack or data breach
- Economic slowdown or slow recovery
- Business interruption
- Increasing competition
- Workforce shortage
- Supply chain or distribution failure
- Regulatory or legislative changes
- Failure to attract or retain top talent
- Property damage
- Failure to innovate or meet customer needs

The variations in the risks in the top





rankings are driven by more immediate and pressing concerns of other risk factors within the region. For example, both business interruption and supply chain and distribution failure rank higher for South Africa, very likely driven by the Transnet crisis and the state of our ports, railway and roads infrastructure, and the dramatic impact this is having on supply chains. Infrastructure that supports trucking and logistics is rapidly deteriorating in many places. Political risk also ranks at number nine whereas it does not currently feature in the global Top 10; driven by the fact that it is an election year in South Africa with an increasingly uncertain and volatile environment. Each of these top 10 risks has tremendous significance for the transport and logistics industry, particularly given the ripple effect they have in a market environment where risks are increasingly interconnected and complex.

### The top five risks for South Africa's transport and logistics industry:

**Business interruption** is intrinsically linked to many other top 10 risks and is now more systemic, partially because of global business operations' companies shifting from event-based to impact-based risk assessment. Business interruption can affect multiple industries, regions, trade paths and companies simultaneously as they phase in and out of periods of recovery.

### Economic slowdown/slow recovery:

While higher commodity prices are good for exporting countries such as South Africa, Transnet's underperformance has impacted commodity exports and other sectors such as manufacturing and retail, weakening Africa's most advanced economy. The country is also faced with rapid inflation in the form of rising food and energy prices in addition to natural disasters such as record-breaking rainfall, drought and increased fire risk. Some of the side effects of an economic slowdown include a slowing or disruption of revenue streams, supply chain disruptions and financing issues, which could potentially lead to labour retrenchments in a bid to manage costs, further hampering the efficiency of the transportation and logistics sector. The industry also finds itself in a globalised environment where international competitors can step in and reduce the size of the pie even further.

**Exchange rate fluctuations:** The weakened Rand lends itself more towards an export-driven market than an import market, which effectively turns an industry



Aon's latest 'Global Risk Management Survey' highlights the top risks that transportation and logistics industry respondents ranked, with cyber-attack or data breach and economic slowdown or slow recovery as their two most critical risks.



The variations in the risks in the top rankings are driven by more immediate and pressing concerns of other risk factors within the region.



Each of these top 10 risks has tremendous significance for the transport and logistics industry, particularly given the ripple effect they have in a market environment where risks are increasingly interconnected and complex.



Embracing a problem-solving approach in decision-making will help organisations find solutions for the risks and crises they are faced with as these risks unfold.

TAKE

QUICK





that is governed by imports and exports as a business principle into a volatile rollercoaster ride.

#### **Supply chain or distribution failure:**

The definition of supply chain risk is broadening and becoming more complex, extending well beyond keeping shipping vessels moving or suppliers' manufacturing facilities intact. Today it involves the availability of talent, the ongoing solvency of critical suppliers, the ESG performance of a company's supply chain, and the increased IP and cyber exposure triggered by shared supplier systems and processes. By its nature, the sector participates in complex, extended supply chains, which means there are many possible points of failure. Consider the rise in cargo theft, which is at a 10-year high. Social media and advanced technologies have made it easier for bad actors to spot and seize opportunities,

including impersonating drivers, hijacking, and conducting fraudulent cargo pickups.

#### **Commodity Price Risk/Scarcity of Materials:**

In the context of the transport and logistics industry, markets and supply chains have increasingly become global in nature, but disruptions in specific regions can have a pronounced effect on prices and supply. For example, in September 2023 global oil prices hit a 10-month high, spurred by falling shale oil production in the US and a decrease in production by Saudi Arabia and Russia. The impact of rising oil prices reverberates across nearly every industry due to the commodity's many uses. Oil is a critical component in many parts of the modern economy, notably transportation, and despite the focus on the energy transition, oil and its attendant price fluctuations will continue to be a factor in strategic planning for decades to come.

The industry will need to continue to develop new strategies to address the fast-evolving risks that are on its doorstep as well as any new risks that are approaching. Resilience and significant value are at stake. Having to pivot and constantly make high-impact decisions around protecting the company's people and assets, its balance sheet, revenue, costs and business strategy is no small feat. In doing so, leaders are learning, three vital lessons:

Decision-making must be driven by continually refreshing a business' understanding of what is known today and then using that knowledge to recalibrate its understanding of how tomorrow is being reshaped.

Leaders must have the right mindset, the most relevant data and information at their fingertips and a robust decision-making framework in place to manage a great deal of uncertainty.

While no one can predict the future, making the best decision hinges heavily on having the right information available to inform the decision-making process to navigate towards a better future with clarity and purpose.

Embracing a problem-solving approach in decision-making will help organisations find solutions for the risks and crises they are faced with as these risks unfold. While many of these events cannot be insured directly, the value of having an expert risk advisor in your corner who can provide data and analytical insights from a global and local perspective will create a clearer picture of emerging technologies, trends and risk management approaches to help organisations make better risk decisions. 🌐



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## New leadership for Terex Washing Systems

Terex Washing Systems is pleased to introduce its new leader at Hillhead 2024 exhibition, with Mark Fisher appointed as Business Line Director. With the urgent need in the marketplace for sustainable solutions that safeguards the earth's natural resources, Mark will lead Terex Washing Systems into its next chapter of growth and innovation.

Mark brings a wealth of experience and a proven track record in the industry, having previously served as Director at CDE Global and General Manager at Telestack Limited, a division of Astec Industries.

"We are excited to welcome Mark Fisher to Terex Washing Systems," said Pat Brian, Vice President of Terex Aggregates.

"His extensive background and leadership experience will be instrumental in driving our next phase of growth. His initial tasks have been to meet with our team, distributors, and customers to ensure that Terex Washing Systems continues to lead the industry in supplying sustainable wet processing solutions."

"I am honoured to lead the Terex Washing Systems team," added Fisher. Born from the esteemed Powerscreen and Finlay lineage, Terex Washing Systems has evolved to become a global leader in wet processing. By collaborating closely with the team, I hope to build on this strong foundation and drive continued success in the global market. 🌐



Mark Fisher, Business Line Director of Terex Washing Systems.

## From smart mining to portable crushing from Weir at Electra Mining Africa



At this year's Electra Mining Africa exhibition, visitors will be attracted to the Weir stand by innovations such as the Weir Modular Wheeled Plant (WMWP), a fully mobile crushing and screening plant, as well as the latest in the company's cutting edge digital solutions for smart mining.

Supporting customers to mine for a more sustainable future, Weir will showcase not only its leading range of equipment and solutions, but the digital technology to further optimise its performance and reliability.

Another highlight will be Weir's intelligent solution which features condition monitoring technology. This is portrayed through 3D conceptualisation, showing all associated benefits including safety, savings and maintenance optimisation.

In addition to the display of its latest pumps, screens, cyclones, valves, liners and ground-engaging tools, Weir will also have its recently launched mobile crushing and screening plant at its outdoor stand. With Weir's WMWP fully mobile plant mounted on an on-road trailer, the plant can be

moved to site and set up within a couple of hours – as a 'plug-and-play' solution.

Electra Mining Africa provides a useful forum to remind visitors of Weir's concerted focus on partnerships for sustainable mining.

"In addition to our South African presence, we are present in countries including Cote d'Ivoire, Ghana, Botswana, Namibia, Senegal, Tanzania and Zambia," says Mufaro Muzvondiwa, Process and Products Director at Weir. "Our three manufacturing centres in South Africa also ensure high levels of local manufacture, to promote African economies and to streamline the supply chain to our customers."

The combination of quality products and dedicated service means that Weir can be confident in the warranties and predictions it provides to customers regarding the productivity of its solutions. "This is demonstrated by our ability to enter into cost per ton agreements with customers," he says. 🌐

Visit Weir in the Blue Zone Stand C20

## A rebranded WEG set to make powerful debut at Electra Mining Africa



Eduardo Werninghaus, CEO at WEG Africa.

WEG has maintained a formidable presence on the African continent for over four decades, consistently demonstrating its industry-leading capabilities at Electra Mining Africa under the Zest WEG brand. This year, a rebranded WEG is poised to make a powerful debut with a renewed focus on innovation and sustainability.

Eduardo Werninghaus, CEO at WEG Africa, says a strong belief that a more efficient and sustainable tomorrow starts today will underpin the company's participation at this year's Electra Mining Africa. The company will showcase its latest advancements in hybrid power solutions encompassing renewable energy and energy storage, along with premium efficiency electric motors and drive technology.



## Optimise transfer points to lower total cost of ownership

The efficiency and reliability of transfer points are pivotal in lowering the total cost of ownership (TCO) on mines and minerals processing plants. These transfer points, where materials move from one conveyor belt to another, from conveyor to equipment or into storage facilities, are critical junctions that, when optimised, can lead to significant cost savings and operational benefits.

Mark Baller, CEO of Weba Chute Systems explains that transfer points serve as the heart of materials handling systems. "Chute systems ensure the seamless flow of bulk materials such as minerals and aggregates, from one process to another. However, these points are also prone to issues like spillage, dust generation, material degradation and equipment wear. Addressing these challenges is key to reducing maintenance costs, downtime, and overall TCO."

Weba Chute Systems, a leader in transfer point solutions, has been instrumental in assisting mining and minerals handling operations to achieve lower costs and increased reliability.

Baller says that optimised transfer points are designed to minimise spillage and dust creation. Properly designed transfer points ensure a smooth and controlled material



flow, which is essential to prevent material degradation, and this is where Weba Chute Systems leverages its extensive experience and expertise.

Transfer points are often sites of high wear and tear due to the impact and abrasion of materials, and Weba Chute systems prioritises the use of high quality wear resistant materials of construction. The company's robust structural designs further enhance the longevity of transfer

points, providing a substantial reduction in overall maintenance costs. This focus on durability extends to the lifespan of equipment, reducing the need for frequent replacements and maintenance.

"Optimising transfer points in materials handling applications is a strategic move that can significantly lower the total cost of ownership, and this applies to both greenfield and brownfield installations," Baller says. 🌟

Visitors to the WEG stand at Electra Mining Africa can expect to explore hybrid power generation solutions including solar, wind, gas, and diesel powered options as well as battery energy storage systems (BESS). With an established reference base in Brazil and other countries across the globe, all these WEG technologies ensure a continuous, stable and reliable energy supply.

On display will also be the WEG W23+ Ultra IE6 and WEG W22 IE4 electric motors, which push the boundaries in efficiency. These motors offer mines reduced operating costs, lower noise levels and increased reliability.

Another highlight will be the WEG MTW05 medium voltage switchgear, which is locally assembled and tested in South Africa for voltages ranging from 2.3 kV to 36 kV. This switchgear has been developed to meet stringent standards, including IEC 62271-200, without losing its convenience assembly and maintenance features. It also has the flexibility to be adapted to the different requirements of the market. 🌟

Visit WEG in the Red Zone Stand P01

## Tru-Trac sets new standards for belt scale accuracy

"The ability to measure moving material in real time allows mines to monitor their mass balance and to ensure that the correct volumes are being fed by conveyor into various plant functions, for instance," says Tinus Ludik, Sales Manager Bulk Materials Handling at Tru-Trac. "Operating under demanding conditions, belt scales must ideally remain not only functional but accurate – which is why we have developed solutions which stand out in terms of quality, repeatability and accuracy."

Ludik notes that belt scales can also become less accurate over time, so there needs to be regular calibration to ensure that any extreme deviation is quickly rectified. When accuracy errors are high, a plant is prevented from operating at optimal productivity as plant operators can never be sure whether they are overloading critical equipment like mills.

The company's offering ranges from its TTR SI-2 single idler belt scale system to the TTR DI-4 dual idler belt scale system, and on to the top of the range TTR FI-4 belt

scale system with a four-load cell design. Equipped with high precision load cells and a fully floating weigh frame, the mid-range TTR DI-4 achieves accuracy errors of below 0,25%. It integrates seamlessly with Tru-Trac's remote monitoring system.

"Our flagship TTR FI-4 system boasts a fully floating pivotless weigh frame and four-load cell design, making it ideal for critical control point applications and high-precision demands," he explains.

Demand has already extended well beyond the borders of South Africa, with Tru-Trac belt scales at work in Namibia, Zimbabwe, Mali and Tanzania – and sales increasing to Zambia, Botswana, Mozambique and Ghana.

The robust and shock absorbent load cells are locally produced, and Tru-Trac holds extensive stock to ensure quick replacement whenever necessary. The integrator for each unit is well protected within a stainless steel housing for corrosive environments. Enclosures are designed to ingress protection (IP) ratings of 65 or higher to keep out dust and moisture. 🌟



## Sandvik steps up remote monitoring for better mining

While the ability to remotely monitor the performance and condition of mining equipment is not new, Sandvik Mining and Rock Solutions has taken great strides in applying data analytics and dedicated algorithms to give mines even greater value from their machine data.

This has been witnessed in the company's remote monitoring service (RMS), which has rapidly evolved from the company's telemetry data reporting solution, better known as My Sandvik Insight and Productivity for underground. RMS takes further digital steps to give mines even more uptime and productivity while prioritising safety and driving down maintenance costs.

The My Sandvik telemetry data reporting solution, already operational in the field for about eight years, has allowed data to be gathered on the 'Knowledge Box' installed on Sandvik equipment – and even transmitted and stored to be displayed on



digital dashboards. RMS takes this further towards meeting the strategic objectives of mining customers, according to Logan Pillay, Sales Support Manager at Sandvik Mining and Rock Solutions.

"The strategic focus today is on safety, cost effectiveness, productivity and sustainability – and RMS allows us to find the opportunities in the data to accelerate

our path on this journey," says Pillay.

RMS is most capable on Sandvik's i-series drills, loaders and trucks, which come standard with intelligent capability. Through the company's Global Reliability Centre, reports on each item of equipment are generated through a range of powerful algorithms, pointing to potential issues demanding attention. 🌐

## Optimising sand production with VSI



Wayne Warren, Africa Sales Manager at Pilot Crushtec.

As quarries seek to meet growing demand for manufactured sand, vertical shaft impact (VSI) crushers are proving to be the ultimate solution due to their ability to produce high quality manufactured sand. With a rich heritage in the design and manufacture of VSIs, Pilot Crushtec can cater for production

requirements by using various size VSIs with an installed power from 45kW up to 315 kW

Traditionally, cone crushers have always been the most preferred crushing solution in sand making, says Wayne Warren, Africa Sales Manager at Pilot Crushtec. However, the downside is that for a cone crusher to produce sand, it needs to be set on a very tight closed side setting (CSS), which renders it uneconomical due to the resultant excessive wear.

"A very tight CSS means that the crusher works on a liner-on-material crushing concept, which is not ideal because the wear rate increases dramatically, and the shape is generally poor," explains Warren.

"The VSI makes use of material-on-material crushing – the stone is accelerated at a high speed into a rock box of the same hardness material, resulting in maximum breakage of the feed material," explains Warren. "Depending on the speed, this can accomplish two things: stone shaping with some sand generation or, on a higher speed, a higher percentage of sand."

Pilot Crushtec's VSI offering covers a broad range of kilowatt (kW) units in three shells, from 45 kW to 315 kW. The three base models comprise the VS100, VS200 and VS350, covering five different rotor diameters from 600 mm to 1 000 mm and 14 different configurations to suit differing customer needs. 🌐

## ALCO-Safe expands breathalyser offerings

ALCO-Safe, a leading provider of alcohol testing solutions, is pleased to announce the addition of the LION 900 breathalyser to its product line. Developed by LION Laboratories, the LION 900 is a cutting-edge handheld device designed for fast, accurate, and on-the-spot determination of a subject's breath alcohol concentration level.

The LION 900 features a revolutionary electrochemical fuel cell sensor that delivers exceptional accuracy and stability in delivering reliable breath alcohol readings.

The LION 900 goes beyond basic breath alcohol testing. Bluetooth connectivity allows for effortless connection to various devices like printers, PCs, or mobile phones. GPS technology provides pinpoint location data for each test, ensuring transparency and detailed record-keeping.

ALCO-Safe takes data management a step further with a unique white-labelling opportunity. The cloud-based app can be customised to a company's branding, allowing companies to develop specific features and functionalities to meet their needs, depending on the use case. The LION 900 is built for the future. Its powerful processor paves the way for ongoing software updates, introducing new features and functionalities over time. This ensures the breathalyser remains at the forefront of technological advancements, ensuring the longevity and relevance of the device long after purchase. 🌐



## IPR delivers dependable dewatering solutions for open pit mines

In the challenging environment of open pit mining, efficient water management is crucial to maintaining operations and ensuring the safety and productivity of the site. IPR (Integrated Pump Rental) stands out as a key partner for surface mines, offering customised dewatering solutions designed to meet the specific needs of each site.

Managing director, Lee Vine says by conducting thorough assessments and providing correctly specified equipment, IPR ensures that mines can rely on effective and dependable dewatering systems.

"IPR's approach begins with a detailed assessment of each individual application. This involves understanding the unique conditions and requirements of the mine such as water volume, pit dimensions and site-specific challenges," Vine says.

The backbone of IPR's dewatering solutions is its extensive range of high-quality dewatering pumps and accessories. This includes the well-known Atlas Copco range of diesel driven and submersible pumps with the company being the Master Distributor across Southern Africa for this dependable brand. The company also represents the Toyo range of heavy-duty slurry pumps.

The solution chosen for a specific dewatering project would be dependent on the on-site requirements. 🌐

## Engine air filter pre-cleaners save coal mine on filter costs, downtime

Heavy duty cooling and air conditioning specialist Booyco Engineering has installed the innovative Sy-Klone engine air filter pre-cleaners on two drill rigs at a South African coal mine, allowing the customer to save on the costs of both replacement air filters and operational downtime.

"In dusty mining conditions, engine air filters quickly clog and need replacing," explains Gordon Postma, Sales Manager at Booyco Engineering. "On this coal mine, the drill rig filters were lasting only two or three days before they needed replacing; the customer really needed a more sustainable and cost effective solution."

This was provided through the supply and installation of four Sy-Klone Series 9000 engine air filter pre-cleaners – two on each drill rig. This leading technology from the US has been proved over decades and has

been continuously refined and improved.

The operating principles of these air pre-cleaners make them remarkably effective, he says. Air enters the underside of the dome design through screened louvres. This prevents any large debris from entering the pre-cleaner which could cause restriction in airflow. Curved particle-accelerator blades push dirt against the sidewall, and strokes – or angled fins – along the interior surface move all heavier-than-air debris towards the ejection slot.

"By installing the Sy-Klone engine air filter pre-cleaner, the mine can significantly extend the service life of its engine air filters," emphasises Postma.

He adds that, by keeping the engine's air filter cleaner for longer, the pre-cleaner also enhances the performance and fuel efficiency of the engine – as there is less restriction of air moving into the combustion chambers. 🌐



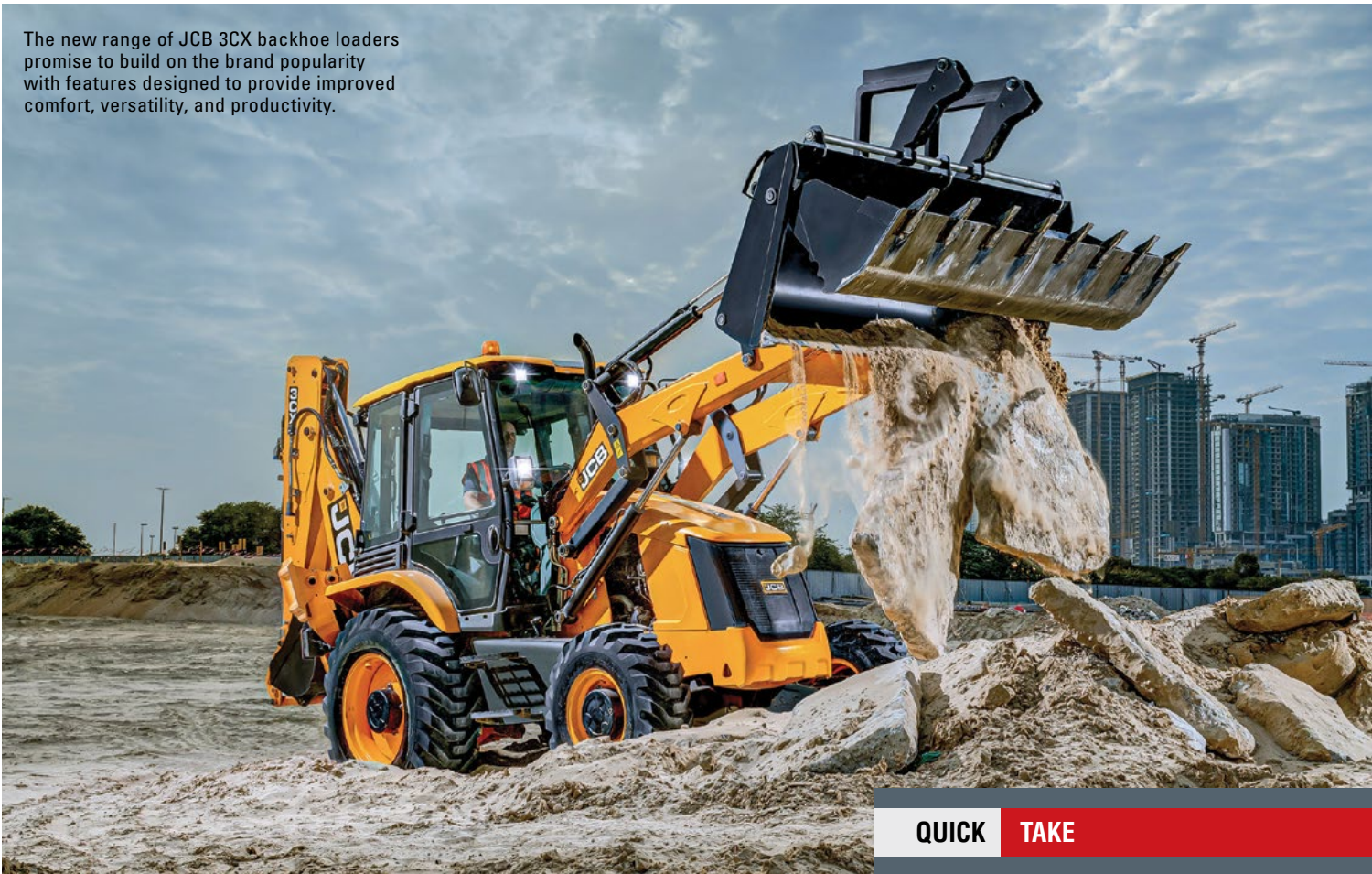
The image shows a large-scale mining operation. In the foreground, a yellow excavator is loading material into a red and white conveyor system. The conveyor belt, branded with 'www.telestack.com', extends diagonally across the frame, dumping a large pile of dark material (likely coal or ore) into a large pile on the right. The background shows more mining equipment and a clear blue sky. The Astec Industries logo is prominently displayed in the top left corner of the image area.

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The new range of JCB 3CX backhoe loaders promise to build on the brand popularity with features designed to provide improved comfort, versatility, and productivity.



## NEW JCB 3CX BACKHOE LOADERS RANGE PACKED WITH NEW FEATURES

The highly anticipated range of updated JCB 3CX backhoe loaders arrives on South African shores in August and promises to build on the brand's popularity with new features designed to provide improved comfort, versatility, and productivity, and ultimately reduce costs and increase efficiency.

**B**ell Equipment Sales Product Manager for JCB products, Massyn Jansen van Vuuren says: "This new model range will replace the existing JCB 3CX Eco, 3DX and 3CX Global product lineup. The new cab makeover is the most noticeable change and is bound to impress. The striking new design uses high quality moulded plastics, and the pillars and roof are light grey in colour to give a lighter and more spacious feel.

He continues: "Most importantly the new cab places a huge focus on operator

safety, comfort, and ease of operation. For example, the loader lever has been simplified to operate like a wheel loader. The 3CX range now has a single lever loader control incorporating an F-N-R directional switch so an operator can control the loader and transmission with one hand. In addition, there is a proportional switch on the side of the lever to operate the 6-in-1 bucket, which further reduces the effort needed to operate the machine."

The new EasyShift transmission with 'kick down' is standard across the range

**QUICK TAKE**



This new model range will replace the existing JCB 3CX Eco, 3DX and 3CX Global product lineup.

Under the bonnet, the JCB 3CX range benefits from improved efficiency in the hydraulics thanks to new variable displacement piston pumps that are standard across all models.







Inside the JCB 3CX Pro: all cabs are ROPS/FOPS certified with improved cab sealing.



The 3CX range now has a single lever loader control incorporating an F-N-R directional switch so an operator can control the loader and transmission with one hand.



The new EasyShift transmission with 'kick down' is standard across the range and simplifies gear changing, which is done by rotating the F-N-R directional lever next to the steering wheel



Lighting has been improved with six LED work lights instead of halogen lights. Two adjustable LEDs are fitted on the front and four on the rear, of which two can be adjusted.



### The JCB 3CX range features:

3CX	3CX Plus	3CX Pro
55kW naturally aspirated engine	68.6kW turbo engine	68.6kW turbo engine
Manual controls	Manual controls	Seat mounted servo controls
Front general purpose (GP) bucket	Front general purpose (GP) bucket	Front 6-in-1 bucket
Optional: flip over forks	Optional: 6-in-1 bucket Optional: flip over forks	Optional: general purpose (GP) bucket Optional: flip over forks
Fixed dipper	Fixed dipper Optional: 'extradig' dipper	Fixed dipper Optional: 'extradig' dipper
Rear 600mm bucket with optional trenching bucket	Rear 600mm bucket with optional trenching bucket	Rear 600mm bucket with optional trenching bucket
	Optional: Rear auxiliary hammer pipework	Rear auxiliary bi-directional circuit
Fan only	Standard HVAC	Standard HVAC
	Various other attachments available on request	Various other attachments available on request





#### Bell to showcase BHI and new Motor Grader at Electra Mining

Bell Equipment, which celebrates its 70<sup>th</sup> anniversary this year, will be showcasing two new developments at Electra Mining, the Bell Motor Grader and Bell Heavy Industries (BHI), the company's new contract managing business unit.

"Electra Mining is the largest mining, electrical, automation, manufacturing, power, and transport trade show in Southern Africa and we are thrilled to connect with potential customers in a forum of this size and nature," says Stephen McNeill, Bell Equipment's Head of Group Marketing.

"We believe BHI is well positioned to stimulate the South African manufacturing sector and look forward to discussing opportunities for collaboration. Our factory in Richards Bay has significant capabilities and operates to world-class standards. BHI follows lean manufacturing principles for efficiency and cost-effectiveness. The latest technologies and innovations drive continuous improvement throughout the processes and assure the quality of end products. In addition, it is 55% black-owned and 24% black women-owned, enhancing B-BBEE scores and creating localisation opportunities."

The new Bell G140 6x4 Motor Grader, which will go into production in 2025, will also be on display. "Ideal for road maintenance and construction tasks, this cutting-edge product highlights our passion for innovation and our ability to deliver quality precision engineering solutions, and we look forward to showing it's features to visitors," said Stephen McNeill.

and simplifies gear changing, which is done by rotating the F-N-R directional lever next to the steering wheel. The kick down switch is located on the floor and allows the operator to drop from second to first gear when extra push power is needed for loading or site stripping.

Massyn continues: "All cabs are ROPS/FOPS certified and the seat rotation area is larger to give the operator more room, which together with improved cab sealing to keep out water and dust, creates a cleaner and more pleasant workspace. There is also improved visibility to the working area behind the machine."

In addition, the 3CX Plus model features a new high performance HVAC air conditioning system with 21 adjustable air vents strategically positioned around the front console, 'B' pillar and rear of the machine to direct air flow to maximise comfort and demisting performance. The 3CX has a fan mounted on the B pillar as standard.

Under the bonnet, the JCB 3CX range benefits from improved efficiency in the hydraulics thanks to new variable displacement piston pumps that are standard across all models. The larger pump provides 150 lpm, a 39% increase

SCAN Bell  
Equipment's Electra  
Mining Africa 2024

**VIDEO**



over the previous model. This allows the engine speed to be reduced whilst maintaining productivity, effectively reducing fuel consumption. Furthermore, the variable flow pump only provides flow on demand and backs-off the flow when not required, to reduce load on the engine and improve fuel consumption.

The Plus and Pro models have a Smooth Ride System for improved roading as standard and can be provided with a 6-in-1 shovel with the option of flip over forks for added versatility. "The 6-in-1 shovel can be used for dozing, loading, digging, grabbing, spreading, and grading while the optional flip over forks are ideal for machines that will double up as a forklift for pick and place activities around the work site and to unload vehicles," he adds.

Lighting has been improved with six LED work lights instead of halogen lights. Two adjustable LEDs are fitted on the front and four on the rear, of which two can be adjusted. During night-time operations, the operator will be able to safely exit both the machine and worksite by aid of a 'guide me home' light system that keeps the work lights illuminated for 30 seconds after the ignition has been turned off.

Other useful standard features include an in-cab boom lock, front and rear wash/wiper functions, Return To Dig function, electronic throttle control, Bluetooth radio and USB ports, front and side LCD display, an adjustable steering column, and a battery isolator key, which allows the operator to isolate the machine's electrics while carrying out machine maintenance.

"All in all, the new 3CX range has a machine to suit all requirements and we expect these new machines to add real value and strengthen JCB's position as the world's leading brand of Backhoe Loaders. We have a fleet of units that will be used across the country to familiarise customers with the new range and the improvements, so we encourage customers to contact their nearest Bell dealer and experience the machines for themselves," says Massyn. 🌟



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## LEADING THE CHARGE IN MINING LUBRICANTS

The mining industry, with its harsh operating environments and demanding machinery, requires specialised lubricants and greases to ensure equipment longevity and efficiency. Juanita Pienaar recently had an insightful discussion with Andrew Cowling, Sales Director, and Dave Gons, National Manager Mining and Regional Mining Manager Sub-Saharan Africa at FUCHS LUBRICANTS SOUTH AFRICA about the latest developments and the critical role their company plays in this sector.

**"O**ur product portfolio has largely been built around focusing on the mining segment. This is both by design and by acquisition," says Andrew Cowling. The company's dedication to this field is evident in its strategic acquisitions over the years. In the 90s, we acquired Noxal, a business focusing on underground mining specialty greases, and in 2014, we purchased Lubritene, a company specialising in greases for open-cast mining.'

This focused approach has allowed the company to build a robust and comprehensive product range. "Mining is one of the four most important segments for us, alongside automotive, industrial, and specialty markets," Cowling explains. The company's commitment to mining is further reinforced by its global network, which shares challenges and opportunities to continuously enhance its offerings.

One of the distinguishing factors of the company is its emphasis on technical support and services.

"When you sell a specialty product, it requires more technical support than just a general product," notes Cowling. The company ensures that every high-performance lubricant sold comes with comprehensive support. This includes offering monitoring services, providing shutdown support, and having service technicians on-site.

Dave Gons elaborates on the day-to-day role of these service engineers: "Service engineers are crucial in daily operations. They perform routine checks during shift changes, ensuring that centralised



"We're not just selling products; we're offering solutions that drive efficiency and sustainability in the mining industry."

Andrew Cowling, Sales Director of  
Fuchs Lubricants South Africa



lubrication systems are functioning correctly. In cases of severe damage, they have the authority to shut down and repair the machinery.” These routine checks are vital in maintaining the efficiency and longevity of mining equipment.

This rigorous support system extends to major maintenance events, where machines are completely overhauled. “During these events, our engineers ensure every lubrication point is serviced and filled with grease,” says Gons. The company’s engineers are so integral that mines rely on their sign-off before recommissioning machinery.

The company prides itself on its extensive product range and its ability to innovate. “We believe in having the widest range of any company in the market. We have a product for every application, from standard engine oils to specialised greases and synthetic oils,” Cowling states. From standard engine oils to highly specialised greases and synthetic oils, the company’s portfolio is vast.

Innovation is at the heart of FUCHS’ strategy. The company’s R&D teams are constantly working on developing new formulations and improving existing products to enhance performance and sustainability. Dave Gons shared insights into their R&D processes, “We invest heavily in research and development to stay ahead of industry trends and to offer cutting-edge solutions to our clients”. This commitment to innovation ensures that Fuchs remains a leader in the mining lubricant market.

Cowling highlighted the importance of understanding and catering to the specific needs of each client, stating, “Our approach is to work closely with our customers to understand their unique challenges and requirements. This customer-centric philosophy ensures that FUCHS not only meets but exceeds client expectations, fostering long-term partnerships. We especially enjoy the challenge of meeting tender requirements, often comprising up to 250 different products”.

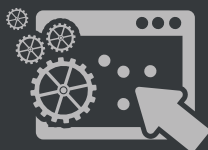
QUICK TAKE



The focused approach has allowed the company to build a robust and comprehensive product range.



Understanding and catering to the specific needs of each client is important.



The company prides itself on its extensive product range and its ability to innovate.



The company’s customer-centric philosophy ensures that FUCHS not only meets but exceeds client expectations, fostering long-term partnerships.

A recent product highlight is TITAN ATF 5668, specifically designed for ALLISON transmissions. “There’s a growing demand for this specification, and we’re proud to offer it,” says Cowling. The company also keeps an eye on emerging trends, such as calcium sulfonate greases, to stay ahead of the curve.

Sustainability is increasingly becoming a focal point in the mining industry. “Globally, we’re very involved in developing biodegradable lubricants, especially for drilling and water-related applications,” says Gons. The company is also working with OEMs to develop engines running on alternative fuels like hydrogen.

FUCHS sets its global sustainability standards by partnering with Eco Vadis, a renowned provider of comprehensive

assessments and ratings for businesses and their supply chains. Eco Vadis aims to enhance companies’ environmental, social, and ethical performance. In its most recent evaluation, FUCHS achieved a score of 63 out of 100, placing it in the 81<sup>st</sup> percentile and earning a bronze medal.

Community involvement is another critical aspect of the company’s sustainability efforts. “Every mine impacts a community, and we are very much involved in supporting these communities,” Gons emphasises. These community initiatives ensure the mines’ operations are sustainable and socially responsible. “Without the communities, the mines will not be sustainable.” The company engages in various community initiatives, ensuring that mining operations benefit the local populations and contribute positively to their development.

With a legacy of innovation, extensive product range, comprehensive technical support, and a commitment to sustainability and community involvement, the company stands out as a leader in the mining lubricant sector. As Cowling puts it, “We’re not just selling products; we’re offering solutions that drive efficiency and sustainability in the mining industry. This holistic approach positions the company as a key player in supporting the demanding needs of the mining sector.” 🌱

TALKING POINT



Globally, we’re very involved in developing biodegradable lubricants, especially for drilling and water-related applications

**Dave Gons, National Manager Mining and Regional Mining Manager Sub-Saharan Africa.**





## A NEW ERA FOR SUPPLY CHAIN PROFESSIONALS

**A significant milestone for the supply chain industry and the broader economic landscape of South Africa was reached recently. President Cyril Ramaphosa has officially signed the much-anticipated Procurement Bill into law, ushering in a new era of efficiency, economic transformation, and support for local production and services. By *Kamogelo Mampane* – Executive Chairman: Supply Chain Council**

**T**his landmark legislation is set to revolutionise procurement practices across the country, presenting myriad opportunities and benefits for supply chain professionals, businesses, and communities alike.

### Enhancing efficiency and transparency

The new Procurement Bill is a comprehensive framework designed to streamline procurement processes, making the procurement and supply chain environment more transparent, efficient, transformative, developmental

and accountable. By introducing standardised procedures and stringent oversight mechanisms, the law aims to minimise bureaucratic delays and reduce opportunities for corruption. Supply chain professionals will benefit from clearer guidelines and faster decision-making processes, enabling them to focus on strategic planning and execution.

### Driving economic transformation

One of the core objectives of the Procurement Bill is to drive economic transformation. The law mandates that a significant portion

of government procurement contracts be awarded to historically disadvantaged individuals and small, medium, and micro enterprises (SMMEs). This inclusive approach is expected to level the playing field, providing equal opportunities for all businesses to compete and thrive. Supply chain professionals will play a pivotal role in identifying and collaborating with diverse suppliers, fostering a more equitable and inclusive economy.

### Promoting sustainable development

The Procurement Bill emphasises sustainable development by prioritising environmentally friendly and socially responsible procurement practices. It encourages the adoption of green technologies, sustainable materials, and ethical sourcing methods. By aligning procurement strategies with sustainable development goals, supply chain professionals can contribute to reducing the environmental footprint of their operations,



## TAKE QUICK



This landmark legislation is set to revolutionise procurement practices across the country, presenting a myriad of opportunities and benefits for supply chain professionals, businesses, and communities.



Supply chain professionals will be at the forefront of driving change, leveraging their expertise to optimise procurement processes and deliver tangible benefits to their organisations and the economy at large.



Supply chain professionals will play a pivotal role in identifying and collaborating with diverse suppliers, fostering a more equitable and inclusive economy.



The Bill signifies a commitment to enhancing procurement practices, fostering economic transformation, promoting sustainable development, and supporting local production.

## TALKING POINT



"The new Procurement Bill is a comprehensive framework designed to streamline procurement processes, making the procurement and supply chain environment more transparent, efficient, transformative, developmental and accountable."

Kamogelo Mampane – Executive Chairman: Supply Chain Council.

while promoting social welfare. This holistic approach ensures that economic growth is balanced with environmental stewardship and social progress.

### Supporting local production and manufacturing

A key highlight of the Procurement Bill is its strong support for local production and manufacturing. The law stipulates that government entities prioritise locally produced goods and services in their procurement decisions. This provision aims to boost local industries, create jobs, and

stimulate economic growth within the country. Supply chain professionals will need to cultivate robust relationships with local suppliers, ensuring that the procurement of locally manufactured products meets quality and cost-efficiency standards.

### Implications for supply chain professionals

The enactment of the Procurement Bill presents both challenges and opportunities for supply chain professionals. On one hand, complying with new regulations and standards will require adaptation and

continuous learning. On the other hand, the law opens up new avenues for innovation, collaboration, and value creation. Supply chain professionals will be at the forefront of driving change, leveraging their expertise to optimise procurement processes and deliver tangible benefits to their organisations and the economy at large.

### Conclusion

President Cyril Ramaphosa's signing of the Procurement Bill into law is a historic moment for South Africa. It signifies a bold commitment to enhancing procurement practices, fostering economic transformation, promoting sustainable development, and supporting local production. As supply chain professionals, we are responsible for embracing this new framework, harnessing its potential, and contributing to building a more efficient, equitable, and prosperous future for all.

Let us seize this opportunity to lead with integrity, innovation, and a steadfast dedication to excellence. Together, we can drive the transformation of the supply chain industry and make a lasting impact on our nation's economic and social fabric. 🌟





## REVOLUTIONISING MINING EFFICIENCY AND SUSTAINABILITY

In an effort to revolutionise the mining industry in sub-Saharan Africa, a significant partnership has been established between Canadian-based company, K-Tec and local company, Ukwazi. This collaboration aims to harness the strengths of both companies to boost efficiency, productivity, and sustainability within the mining and construction sectors. *Capital Equipment News'* Juanita Pienaar recently spoke to Jaco Lothering, Managing Director of Ukwazi to discuss the partnership and what it means for the mining industry.

**K**-Tec is globally recognised for its advanced earthmoving scrapers, which are designed to offer superior performance, durability, and efficiency.

Their product line includes scrapers that are suitable for various applications, ranging from medium-sized to large-scale mining operations and heavy construction projects. K-Tec's scrapers boast high load capacities, fuel efficiency, and the ability to handle tough terrains, making them

ideal for the demanding conditions often found in sub-Saharan Africa.

The company's pull-pan scrapers, towed behind high-horsepower tractors or articulated dump trucks, provide a streamlined solution with one operator and one engine picking up, transporting, and evenly spreading material. K-Tec's scrapers have a proven track record across all seven continents, demonstrating their effectiveness in applications such as stripping overburden, mine reclamation, haul road





smoothing, and the transportation of minerals or metals like gold, salt, lithium, potash, and gypsum rock.

Established in 2004, Ukwazi initially provided mining engineering consulting services but has since evolved into a multi-disciplinary advisory company and is now also a specialised mining operations service provider. Ukwazi offers a diverse range of services including project management, feasibility studies, mine valuations, public reporting, sustainable mining practices, operational technical support, and project implementation.

Their extensive experience spans all commodities and mining methods. Notably, Ukwazi has also introduced a women-in-mining initiative, Tsebokgadi, which focuses on providing niche contract mining and civil works services. Furthermore, Ukwazi is the distributor of K-Tec's innovative ADT pull scrapers for sub-Saharan Africa, offering clients cost-effective



#### TALKING POINT



"We understand where the solution would add significant value to our clients and where other conventional methods might be more appropriate."

Jaco Lotheringen, Managing Director of Ukwazi.



K-Tec's specialised earth-moving scrapers, which are well-established in North America and Australasia, will be introduced to sub-Saharan Africa through Ukwazi's extensive market knowledge.



The partnership aims to support the ongoing maintenance and operation of the equipment.



Ukwazi offers a diverse range of services including project management, feasibility studies, mine valuations, public reporting, sustainable mining practices, operational technical support, and project implementation.



The footprint of K-Tec and Ukwazi spans across several continents, but their collaborative efforts are now focused on sub-Saharan Africa.

#### QUICK TAKE





“  
Our first priority is to make demonstration units available within sub-Saharan Africa to physically demonstrate how this works.”

tive, water-saving, and diesel-efficient earthmoving solutions.

K-Tec’s specialised earth-moving scrapers, which are well-established in North America and Australasia, will be introduced to sub-Saharan Africa through Ukwazi’s extensive market knowledge and experience accumulated over the past 20 years.

The partnership will provide com-

petitive advantages to our clients by integrating K-Tec’s innovative equipment with Ukwazi’s extensive advisory services. Lotheringen explains, “We will help clients effectively implement the scraper solution, either through direct purchase, rental options, or operational scenarios where we operate the equipment as any mining contractor would.” This flexibility ensures that clients can adopt the new

technology in a way that best suits their operational needs.

By demonstrating the solution’s efficiency and sustainability, the partners aim to overcome the mining industry’s historical hesitation to implement new systems. “Our first priority is to make demonstration units available within sub-Saharan Africa to physically demonstrate how this works,” Lotheringen notes.

The primary aim of the partnership is to introduce and differentiate K-Tec’s technology from less successful, historical scraper-based solutions in the region. By providing safe, cost-saving solutions that also reduce emissions and water consumption, the collaboration aims to establish K-Tec’s scrapers as the preferred choice for mining and construction projects in sub-Saharan Africa. Addition-





ally, Ukwazi's technical expertise and deep understanding of the local market will ensure effective implementation and ongoing support for these innovative earthmoving methods.

"Our goal is to familiarise the local market with K-Tec's scrapers as a cost-competitive and sustainable mining approach to moving material," said Lotharingen. "We aim to provide solutions that reduce diesel consumption by 30 to 40% compared to conventional methods, significantly lowering the carbon footprint." In addition, Lotharingen points out that, "if there is an opportunity for the scraper mining to replace wet mining, there can be a significant saving on water."

One of the major advantages of K-Tec's scrapers is their potential to replace traditional mining methods that consume high amounts of water. By opting for scraper mining where feasible, significant savings on water or diesel consumption can be achieved. This is particularly important in the context of dry mining for tailings storage facilities, where the new method can remain competitive relative to the all-in cost basis of wet mining while drastically reducing water usage.

Furthermore, the partnership aims to support the ongoing maintenance and operation of the equipment. "We have the logistics set up to service those mines in terms of maintenance and spare parts," says Lotharingen. The collaboration will also involve training for maintenance teams and operators, ensuring that the new technology is effectively integrated into existing mining operations.

The footprint of K-Tec and Ukwazi spans several continents, but their collaborative efforts are now focused on sub-Saharan Africa. With a shared commitment to enhancing mining practices through innovation and sustainability, the partnership is set to make a substantial impact. As Lotharingen emphasises, "We understand where the solution would add significant value to our clients and where other conventional methods might be more appropriate." This deep-rooted knowledge of the market, combined with technical expertise, positions the K-Tec and Ukwazi partnership to drive significant advancements in the region's mining industry.

By introducing K-Tec's cutting-edge scrapers and leveraging Ukwazi's comprehensive mining advisory services, this partnership is poised to set new standards for efficiency, productivity, and sustainability for suitable projects and operations in sub-Saharan Africa's mining and construction sectors. 🌱







## AZIZE EQUIPMENT UNVEILS NEW SUNWARD DRILL

**Azize Equipment, a leader in mining equipment, is set to unveil its latest advancements at Electra Mining 2024, showcasing two new SUNWARD drill rig models designed to revolutionise surface mining operations. *Capital Equipment News'* Juanita Pienaar spoke to Graham Russell, Sales Director of Azize, who delved into the technical and commercial aspects of these new drill rigs, their innovative features, and why SUNWARD remains a top choice for mining companies worldwide.**

**I**n the ever-evolving mining industry, the efficiency and effectiveness of drilling operations play a pivotal role in overall success. Surface blast hole drill rigs are indispensable assets, ensuring that blasting operations are precise and cost-efficient, which directly impacts subsequent processes like loading and hauling. As the industry strives for greater productivity and lower operational costs, innovations in drilling technology become paramount.

Azize Equipment, founded in 2019, markets, services, and supports a wide range of SUNWARD DTH and Hydraulic surface drill rigs to customers across Southern Africa. The company services its customers from its sales and service facilities in Carolina, Mpumalanga, the heart of the South African coal

mining industry.

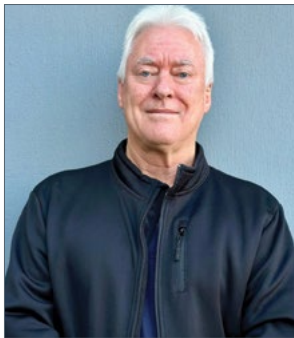
According to Russell, surface blast hole drill rigs are a crucial element in the success of any surface mining operation. Effective, accurate, and cost-efficient drilling is essential to ensure the integrity of blasting operations, which in turn impacts all subsequent processes, such as loading and hauling. The selection of well-priced, technically advanced, and well-supported drill rigs is, therefore, a critical decision for mining operations.

At Electra Mining 2024, Azize Equipment is set to showcase its latest advancements in drill rig technology, introducing two new models from SUNWARD. It is listed among the top 50 global construction machinery manufacturing enterprises and the top 20 global excavator brands.

### **SUNWARD SWDE165B DTH Crawler Drill**

The SUNWARD SWDE165B DTH crawler





"These offerings, together with the low capital cost of a new Sunward drill rig and significantly reduced fuel consumption mean lower cost per metre drilled – allowing for profitable operations for all stakeholders".

Graham Russell, Sales Director of Azize.



drill is designed for hole diameters ranging from 138 mm to 180 mm, with a maximum drilling depth of 36 m. This updated rig features a single 277 kW Cummins QSX12 engine, which powers both the hydraulic and compressor systems, leading to significantly lower

fuel consumption and maintenance costs.

#### **SUNWARD SWDR138B excavator drill rig**

Additionally, the SUNWARD SWDR138B excavator drill rig will be highlighted at the exhibition. This model, equipped with

a 264kW Cummins QSL8.9 engine, stands out as the most affordable OEM-certified excavator rig on the market. It covers hole sizes from 105 mm to 165 mm, offering extreme flexibility and reach, which translates to faster and safer drilling operations.

#### **Comprehensive range of drill tools**

For the first time, Azize will also display a comprehensive range of SUNWARD drill tools at Electra Mining. This includes DTH hammers, bits, and adaptors for all popular hole sizes. These high-quality tools are locally stocked to ensure immediate availability and are competitively priced.

Graham Russell emphasises the brand's commitment to offering the lowest total cost of ownership in the market. According to him, this is achieved through robust after-sales support, including a warranty period of up to 2 000 hours, access to experienced service technicians, and an extensive spare parts inventory. Russell believes that "these offerings, together with the low capital cost of a new Sunward drill rig and significantly reduced fuel consumption mean lower cost per metre drilled – allowing for profitable operations for all stakeholders".

In terms of availability, Russell says Azize maintains a stock of popular drill rigs in South Africa, including the DTH (Do the Hole) models SWDE165B and SWDR138B "which cover the hole diameters from 105 mm to 180 mm. The Sunward SWDH102S is also stocked as it's a popular drill rig for small mining operations and quarries".

If a specific machine is not available ex-stock, the typical lead time is 30 days from order, plus approximately four weeks for shipping.

The unique selling proposition of SUNWARD drill rigs lies in their unmatched price-to-performance ratio. Customers prefer SUNWARD due to the lowest capital costs, solid warranties, and superior after-sales service. Additionally, SUNWARD rigs are engineered with advanced safety systems, such as all-round cameras, hole depth measuring, hands-free rod changing, and obstacle detection, making them a formidable choice in the world of blast-hole drilling.

As the mining industry continues to evolve, the need for reliable, efficient, and cost-effective drilling solutions remains paramount. The innovations presented by Azize Equipment at Electra Mining 2024 underscore the importance of these factors, promising enhanced operational efficiency and profitability for mining operations worldwide. 🌟



## WACO Modular attains Health Management Review Africa

WACO Modular announced its certification in accordance with the ISO 14001 standard, a recognised measure for Environmental Management Systems (EMS). This certification highlights WACO Modular's unwavering dedication to conscious and sustainable business practices.

The ISO 14001 standard offers a framework for organisations to establish and implement environmental management systems that address their environmental footprints and adhere to legal mandates. With more than 360 000 ISO 14001 certificates issued worldwide, it stands as the widely embraced EMS standard internationally.

"Our firm commitment to stewardship is our priority and obtaining the ISO 14001 certification solidifies this dedication. We are believers in surpassing industry norms to make a difference in the environment," states Gerhard Britz, Managing Director of WACO Modular.

The journey towards achieving the ISO 14001 certification at WACO Modular aligns seamlessly with the company's pledge, to Environmental, Social and Governance (ESG) principles. In line with the WACO Group's sustainability initiatives, WACO Modular has already been diligently overseeing environmental factors like diesel, water and electricity consumption to strive for ongoing enhancements. 🌱



Gerhard Britz, Managing Director of WACO Modular.

## Mobile jetting unit simplifies inner-city plumbing maintenance

Maintaining stormwater systems in inner-city Johannesburg can be tricky. There's often no space to manoeuvre a truck-mounted jetting vehicle and sometimes jetting needs to take place in extremely-hard-to-reach places – such as the rooftop of a high-rise building. These are the challenges that Brett Ross, owner of Modular Plumbing, was looking to overcome by procuring a trolley-mounted jetting unit from Werner Pumps.

"Modular Plumbing actually started out as a manufacturing company, selling products into city settings, but our maintenance business grew out of that and has become our main focus," says Ross. "We predominantly service developers with large-scale housing units in the CBD. Getting to some of their stormwater drains to clean them out is a major challenge, but they need regular maintenance to avoid issues like flooding."

Initially, Ross rented out a trolley-mounted jetting unit from a supplier, but ultimately decided to invest in one for the company. He approached the supplier about buying a unit, but the response was lacklustre at best.

Frustrated with the service he'd received after several weeks, Ross searched for a unit online and came across Werner Pumps. "I got in touch and quickly heard back from



George Jolly, the sales manager. Ross received his unit – a trolley-mounted jetting unit with a 13,5 horsepower Honda petrol engine, which can operate at 200 bar and pump 21 litres per minute. It includes a 50 m jetting hose with hose reel, and a 10m high-pressure hose with lance. 🌱

## Bobcat Equipment helps safeguard beach



On the coast of Bagheria on the island of Sicily in Italy, the accumulation of seaweed on the beaches, if not managed properly, can cause inconvenience to the local community and tourists. For this reason, A.M.B. Ambiente, a multiservice company of the Municipality of Bagheria, has started a project for the ecological management of algae on the local coasts.

The removal of algae on the Bagheria coast is a complex operation, carried out entirely by the Bobcat E35z mini-excavator and the Bobcat T66 compact loader. Initially, the Bobcat E35z, equipped with a grapple, is used to collect all the algae present on the shoreline and move it onto the beach. The attachment allows the operator to effectively grasp and lift the seaweed, preventing it from mixing with the sand and making the

## The Liebherr R 992 crawler excavator: high performance and low emissions

CMSE uses the R 992 crawler excavator to extract rocks at its quarry at Saint-Pons-de-Thomières (France). The company is the first customer in France to acquire a new-generation crawler excavator. This 94 tonne machine is specially equipped for extraction work. The improvements and technological innovations in the range guarantee performance and versatility on the ground.

Extracting rock in quarries is the R 992's main task at the site of CMSE. The machine's high tooth force, reliability and precision are guarantees of quality in this challenging application. It is specially equipped with piston rod guards, an HD undercarriage and a 5,20 m<sup>3</sup> HDV bucket with guide rails for a

drop ball. The bucket is specially reinforced, as the high abrasiveness of digging blue quartzite, the primary product from this quarry, demands a specifically adapted cutting tool. After blasting, the excavator loads lumps of rock into the three dump trucks that take the material to the crushing station.

The R 992, like all models of the new generation, comes with the Bucket Fill Assist (BFA) assistance system and the Liebherr Power Efficiency – Engine Control (LPE) system. CMSE uses BFA for a higher bucket filling level and optimal penetration into the rock. This system improves operator comfort by reducing vibration and reduces fuel consumption by 10%. At less than 60 litres per hour, the excavator's current fuel

consumption is lower than that of their previous excavator. CMSE also appreciates the Liebherr Power Efficiency – Engine Control (LPE) system, which provides optimal control of machine power. It actively regulates engine speed and the hydraulic pumps' angle of inclination. 🌱



## Hytec Fluid Technology strengthens service offerings with partnership

Hytec Fluid Technology (HFT), a Bosch Rexroth Africa company, is pleased to announce its new partnership with Filtration Group Industrial. The new agreement authorises the company to stock and sell Filtration Group Industrial's range of fluid filters. This strategic development significantly expands our service capabilities, ensuring enhanced reliability and aligning with HFT's commitment to meeting the evolving needs of the industry.

The range of products will play a crucial role in the service and maintenance of hydraulic power packs, protecting crucial components by effectively preventing contamination. Ralph Palphramand, General Manager, HFT, emphasises, "These products offer exciting opportunities for innovation we have not fully explored in the past. We are eager to explore the potential of these products for our customers."

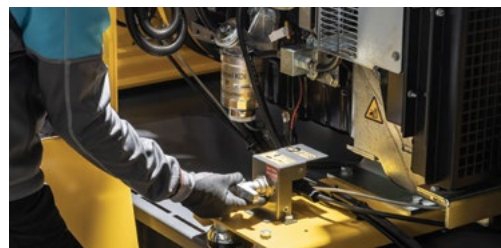
HFT staff will attend training on the new product range, with product rollout taking place across all branches between July and August. 🌱

## Reliability = after-market service delivered by professionals

"Maintenance procedures, while comprising a vast range of topics, are in fact very simply concepts," says Business Line Manager for Power Technique's Service Division, Douw van Schalkwyk. "It really all comes down to adhering to the maintenance schedules and service intervals of each machine or piece of equipment. When a customer invests in an Atlas Copco machine, they will get the performance and reliability they expect from the brand. However, to ensure they get this consistently from their machines, good maintenance practices are critical and, going hand in glove with this, is after-market service quality. It really is no different to servicing one's car at an OEM dealer."

Using the correct tooling and genuine OE parts, its technicians take care of service, maintenance and repair work in the shortest possible time, helping to get customers up and running as soon as possible. Van Schalkwyk also draws attention to the fact that in the event of a warranty issue, the customer, having followed the OEM's recommended service intervals, can depend on the OEM for an immediate response.

Power Technique's range of mobile equipment,



including air compressors, generators, light towers and pumps, is used for a wide variety of applications such as water well and exploration drilling, mining, quarrying and construction. Atlas Copco Power Technique has created a strategic dealer network that stretches across South Africa and into neighbouring countries to bring products, qualified technicians and OE parts closer to customers who operate equipment on remote job sites.

Further adding value to the supply chain, Power Technique has invested substantially in digitalised systems, developing several user-friendly online platforms that enable customers, with the click of a button, to conveniently stay connected with their machines and equipment, access vital product information and purchase parts online 24/7/365. 🌱

process more efficient.

Subsequently, the same mini-excavator is equipped with a sifting bucket. This attachment is essential for separating the sand, allowing only marine algae to be effectively isolated and removed. The grilled bucket retains the algae while the filtered sand is released, thus ensuring thorough cleaning that respects the surrounding environment.

The E35z mini-excavator was deemed the ideal model due to its optimal combination of compactness, operational efficiency, stability and comfort. It is able to complete jobs quickly and precisely thanks to its high operational efficiency, while its stability ensures that it can also tackle uneven terrain, such as in the specific case of a beach. Furthermore, the comfort offered to the operator, thanks to advanced ergonomic features and a well-designed cab, helps reduce fatigue and increase overall productivity. 🌱





## Unlocking new efficiencies in private security through tech and data

"At Securex South Africa 2024, experts across various fields related to safety converged to leverage their various capabilities to unlock new efficiencies and insights driven by integrated data and technology applications," says Justin Manson, Sales Director at Webfleet, Bridgestone's global fleet management solution.

For Webfleet, as an established fleet management solution provider, this year's event offered an opportunity to not only expand the specialised use of smart vehicle management systems beyond transportation efficiencies but to also potentially save lives.

Telematics are well-established as having the ability to enhance route optimisation, improve road safety, save on fuel and maintenance costs through the use of AI dash cams, on-board devices and advanced driver behaviour monitoring systems. Now,

by integrating Webfleet solutions into third party systems, users can yield even more benefits that extend beyond mobility. These benefits include flexibility, data transparency, and cost optimisation for third party providers.

By integrating the fleet management system into these platforms, much of the subjective human decision-making is taken out of the security asset deployment process, drastically bringing response time down. Security companies typically have set standard operating procedures that they follow in the event of an alarm being triggered at a business or home.

With the Webfleet system now integrated into these alarm monitoring platforms, the entire human component is removed from the equation.

Domestically, the security market is significantly shaped by the economy. Security



Justin Manson, Sales Director at Webfleet.

market insights from Statista show that as the economy improves, both individuals and businesses are more likely to invest in these security systems to safeguard their homes, businesses, and other properties from theft and other risks. 🌐

## CILTSA's data-centric conference

The Chartered Institute of Logistics and Transport: South Africa (CILTSA) secured a powerful line-up of panellists and speakers for its upcoming Environmental, Social, and Governance (ESG) Conference. Themed "From Data to Decisions: Utilising ESG Data for Smarter Business Strategies", the event took place on 25 July. This one-day event built on CILTSA's commitment to equipping businesses with the tools to navigate the complexities of ESG metrics and unlock their strategic potential.

"Complete and accurate data is the foundation for successful ESG programmes," says Elvin Harris, CILTSA's President. "Effective data collection, a cornerstone of ESG management, is one of most important steps in beginning to track an organisation's implementation of its ESG initiatives, which has become an essential driver of investor and consumer decision-making. With a carefully and strategically executed data collection and management plan, businesses can confidently and accurately execute their ESG programmes." 🌐



Clémence McNulty – Africa Climate Change and Sustainability Leader, EY.

## Hino continues its domination of customer service survey

Hino South Africa has continued its dominance of the quarterly DataTrack customer service survey filling top positions in all aspects of the research for each of the first two quarters of 2024. "Not only was Hino top in the combined score for each quarter, but also headed the tables for the various segments, being sales, service and parts," explained Itumeleng Segage, Hino General Manager. "This is an amazing testament to the commitment and dedication of our dealer staff as well as the team members working at the Hino head office and at our state-of-the-art parts warehouse in Ekurhuleni".

"Efficient after sales service with qualified and well-trained technicians backed up by a comprehensive stock of service and replacement parts, are all vital for containing the total cost of ownership of a truck, thereby improving profitability for transport operators. That is what we, at Hino South Africa are continually striving to do, and the positive results in the DataTrack surveys for the first two quarters of 2024 are proof of that – leaders in all aspects of our business when compared to our competitors," commented Segage.



Itumeleng Segage, Hino General Manager.

Hino scored 99,26% and 99,42% respectively in the combined scores for the first two quarters of 2024, which put it comfortably ahead of the runners-up each quarter. Hino's scores in sales were 99,68% and 100%, and those for service were 99,90% and 98,89%, while parts scores were 99,10% and 99,38%.

The quarterly DataTrack Comparative Truck Study has been conducted since 1989 with the results compiled from feedback collected from more than 30 000 truck operators in South Africa. 🌐

## Practical freight industry solutions for SA's challenges

Appalling rail conditions are seeing the road freight sector growing but also becoming an increasing emitter of greenhouse gases. Earlier this year, Rirhandzu Mashava, the Department of Transport's deputy director general for transport planning, revealed that between 2017/18 and 2022/23, about a third of long-distance freight had moved from rail to road.

The country's rail infrastructure woes manifest at locations like Durban Container Terminal Pier 2. According to figures released by the South African Association of Freight Forwarders/Business Unity South Africa, during the week ending 12 July, the site had 65 over-border units with a dwell time of 22 days.

Supply chains can ill-afford such delays, hence the huge shift to transporting goods by truck. From an environmental perspective, the situation is far from ideal.

### MOU for South Africa's first electric truck highway

Zero Carbon Logistics has signed a Memorandum of Understanding with Chinese multinational company SANY as its official technology providers for the planned rollout of its off-grid electric truck charging network on the N3 electric highway, a first for South Africa.

This partnership demonstrates that SANY, a top tier Chinese and global company, is eager to enter the South African market and support the development of six renewable energy charging stations designed specifically for electric trucks that use the N3 route between Johannesburg and Durban, which has over 8576 trucks per day, making it one of the busiest truck routes in the country.

The MOU was signed at SANY's Premium Customer Summit for Africa BU2024 in China, which showcased new innovations in the manufacturing of electric trucks and electric charging technologies.

"We are thrilled to be partnering with global electromobility leader SANY for the development and long-term operation of the six solar powered truck charging sites that we will initially be building along the N3 highway. Their technical expertise and superior design capabilities will ensure these facilities offer ultra-fast seamlessly integrated green charging technology that will be able to charge trucks within 20 minutes with chargers, or battery swapping in under five minutes," said Joubert Roux, co-founder of Zero Carbon Logistics.

These six charging stations will form part of the 120-truck charging network that Zero Carbon Logistics will be developing on major freight routes across South Africa over the next few years. The process to permit these six sites has started due to the experience of permitting processes being long and arduous, and after the next 24 months, they will be operational. 🌱



Transport is the third largest emitting sector in South Africa, with almost 55 megatons of CO<sub>2</sub> emissions contributing more than 10% to the country's national gross emissions. Road transport accounts for 91,2% of that percentage.

According to Bidvest International Logistics (BIL), solutions must come from both the road and rail freight sectors. BIL's Overland Logistics Director Marcus Ellappan suggests some "quick wins" in reducing CO<sub>2</sub> emissions, including policies around behaviour changes to

promote more efficient driving habits and optimising routes with the use of various software platforms.

"Maintaining vehicles properly and upgrading to more fuel-efficient vehicles can also reduce fuel consumption."

Ellappan says electric trucks, compressed natural gas vehicles and a move to Euro 5 engines (where diesel vehicles are equipped with particulate filters to trap tiny soot particles) and Euro 6 engines (mandatory use of selective catalytic reduction for diesel cars to reduce nitrous oxide emissions) are all viable options. 🌱

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## Serco unveils ultra lite refrigerated trailer

Serco continues to break new ground in vehicle weight reduction with its expanded line of refrigerated trailers introducing cutting-edge innovations which empower customers to tailor their transport solutions, setting a new standard for efficiency and customisation.

"Our injected panel technology, which we have offered for several years, provides customers with enhanced durability and thermal performance," said Serco CEO Clinton Holcroft. "Our refrigerated bodies are now available with heavy-duty GRP composite skins or high strength coated steel facings, offering a wide range of options to meet diverse

transport needs."

"The tare weight of the new trailer has been reduced to below 7 900 kg – excluding the customer's choice of fridge. This is achieved by incorporating new heavy duty GRP composite skins and our state-of-the-art technology injected foam insulation, giving an impressive payload and a superior durable solution," said Holcroft.

He expressed confidence in the new advancements: "By achieving an unmatched lightweight and durable trailer, we are giving our customers the tools they need to maximize their operational efficiency and reduce costs. This innovation reaffirms our commitment to delivering state-of-the-art solutions that meet the evolving demands of the transport industry."



Serco's dedication to continuous improvement and customer satisfaction, said Holcroft, positions the company as a leader in the truck and trailer manufacturing industry in Southern Africa. "With these innovative solutions, Serco is set to drive the future of refrigerated transport, helping businesses enhance their logistics efficiency and sustainability." 🌱

## Volvo Trucks for extreme weather conditions

Volvo Trucks, renowned for its commitment to safety and reliability, offers a range of features specifically designed to assist drivers in extreme winter weather that has and will still be experienced in this season. These have been developed and tested to operate in even the most extreme weather conditions, such as Sweden's harsh winters.

**Volvo dynamic steering:** This innovative feature significantly enhances manoeuvrability and control, especially in challenging weather conditions. It provides precise steering assistance, reducing the effort required by the driver and improving stability.

**Driver alert support:** For safe driving, you need to be alert and in good shape to drive. Driver Alert Support detects signs of drowsy or inattentive driving. If signs are detected, the driver is alerted and advised to take a break.

**Automatic stretch brake:** Driving downhill with a trailer on a slippery surface could result in the trailer pushing the truck and causing a jack-knife effect, increasing the risk of an accident.

**Stability Assist:** Volvo Dynamic Steering with Stability Assist is designed to detect if the truck starts to skid.



**Electronic Stability Control:** Electronic Stability Control is designed to minimize the risk of skidding and rolling over.

**Collision Warning with Emergency Brake:** Collision Warning with Emergency Brake is designed to detect vehicles, cyclists and pedestrians ahead as well as cyclists and pedestrians moving in the same direction as the truck.

**Leverage Volvo I-Shift with Crawler Gears:** Volvo I-Shift with Crawler Gears is a transmission system that offers low-speed manoeuvrability and enhanced control in extreme conditions.

## Daimler Truck Southern Africa appoints a new leader for Mercedes-Benz Buses

Following the promotion of Jason Brunner as the new Head of Sales and Marketing for Coaches in North America, DTSA announces the appointment of Deon de Vries as the new General Manager for Mercedes-Benz Buses, effective 1 August 2024. In his newly appointed role, De Vries will assume strategic leadership responsibilities across various critical areas, including sales, parts, services, marketing, and network steering for Mercedes-Benz Buses in Southern Africa.

He holds a Bachelor of Business Administration degree and a Diploma in Marketing. De Vries joined DTSA in 2015 as a Regional Sales Manager for Mercedes-Benz Trucks, eventually ascending to the role

of Head of Sales for Mercedes-Benz Trucks in 2019 and playing a pivotal role in Mercedes-Benz Trucks upwards sales trajectory and market share leadership for three consecutive years.

"I am deeply grateful for the opportunity to lead Mercedes-Benz Buses in Southern Africa. I eagerly look forward to engaging with our customers and contributing to the division's ongoing success, supported by the DTSA team and network," said De Vries about his new appointment.

Maretha Gerber, President and Group CEO, Daimler Truck Southern Africa: "I am thrilled to have Deon take the helm of our bus division. He has consistently demonstrated exceptional ability, expertise and

dedication during his tenure at DTSA, significantly contributing to our company's success."



Deon de Vries, General Manager for Mercedes-Benz Buses.

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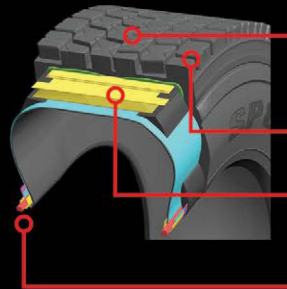
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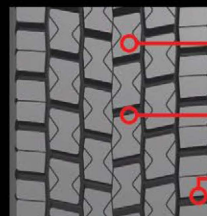


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