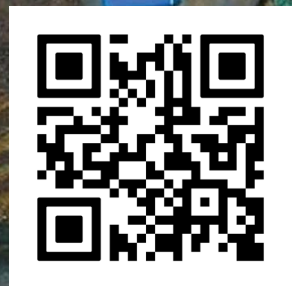


ZAMBIAN MINING MAGAZINE



28 MAY - 30 MAY 2024 at the Kitwe Showgrounds

SA high court grants Kabwe claimants appeal permission



ZAMBIA'S LEADING MINING JOURNAL

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Communities need protection from miners



Andrew Maramwidze (Editor)

the amicable resolution of the issue is not anywhere near us, as appeals are still being witnessed.

The latest was the granting of permission by Justice Leonie Wendell found that an appeal against her earlier judgment had ‘reasonable prospects of success on at least one ground of appeal’ and that there were ‘compelling reasons to grant the appeal, as class action law is still being developed in South Africa’, and that ‘there are current matters of law of public importance which directly implicate constitutional rights’.

This comes after the December judgment effectively blocked access to justice for the people of Kabwe after Anglo American operated a mine from 1925 to 1974 in the Kabwe area.

Now the class action was filed in South Africa as it would not have been possible for the claimants to obtain access to justice in Zambia. This a worrying development, one that needs the nation to critically analyse, and possibly fix this anomaly. Citizens need to get justice in their country.

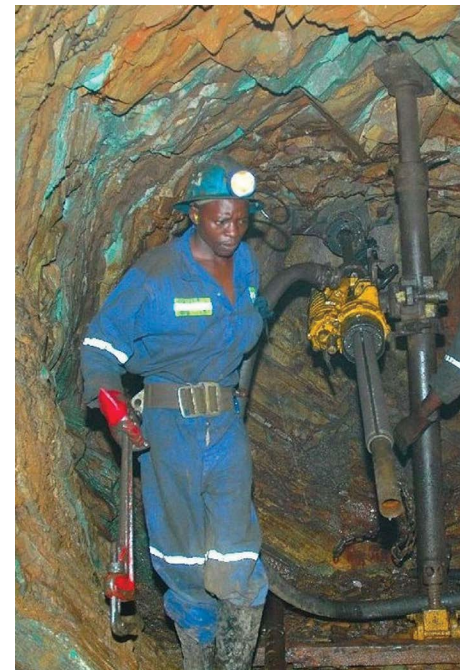
With Amnesty International and several United Nations agencies intervening at the certification hearing to argue that Anglo-American’s opposition to the class action was contrary to the UN Guiding Principles on Business and Human Rights, Anglo-American’s own human rights policy and publicly stat-

ed human rights commitments, let us remain positive Kabwe community will get its deserved justice.

The developments that have been witnessed by the people of Kabwe, where justice has taken years to reach them, should inspire all stakeholders in the mining industry to ensure that the safety of communities, sustainability and environmental protection are key.

Remember to send us your comments, opinions and Letters to the Editor.

Enjoy the read!



The Anglo-American/Kabwe lead poisoning misfortune should be a lesson to many companies in the country’s mining industry, as the industry drives environmental and suitability protection, stakeholders should find common grounds.

Our natural resources’ abundance should not bring misery but joy and empowerment to communities where minerals have been discovered, obviously those mining them should also enjoy profits from the mines.

For years now the Anglo-American lead poisoning issue has been debated, as

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Mining technology hub on the cards

Government is investing \$6 million in technology to increase mineral production while also improving sustainability, productivity, and safety in mining operations.

This will be accomplished through the establishment of the Mining Technology (MinTech) hub, which is being planned.

The facility will act as an innovation and collaboration hub for the mining sector. It will also offer training and capacity-building programmes to encourage the adoption of new technologies and practices.

Felix Mutati, minister of science and technology, stated that the construction of a MinTech cluster was consistent with the government's aim of fostering value addition.

"We are the major producers of a variety of minerals, but specifically copper," he stated at the just completed Timbuktoo Retreat Strategy in Cape Town, South Africa.

Mutati stated that government policy has always been to add value to Zambia's mining production.

Zesco import power to avert an energy deficit

State-owned electricity utility company Zesco is seeking to import power to avert an energy deficit that could affect output in copper producers.

The southern African country generates 86 percent of its electricity from hydropower stations. Power generation has been hit by a severe drought induced by El Nino - a weather phenomenon resulting from the abnormal warming of the waters in the eastern Pacific, which raises temperatures globally.

As a result, the country expects a power generation deficit of 700 megawatts this year, Zesco said in a statement.

"We are negotiating additional electricity imports that will be strategically allocated to crucial sectors, including mining, agriculture, and manufacturing to support economic stability and growth," Zesco said. It did not give details of how much power it seeks to import.

Last week, Zesco warned mining companies there may be fluctuations in power supply due to the reduced generation capacity, raising concern over the country's copper output.

Zambia's copper output declined to about 698,000 tons in 2023 from 763,000 tons the prior year, according to the country's mining chamber.

Forecast predicts one million tons by 2026

The local economy is largely dependent on copper production – estimated at roughly 790,000 tons per year – and centered on the country's mineral-rich Copperbelt province.

Projections foresee an increase in production to one million tons by 2026, owing to new investment aimed at increasing production capacity. Holding over a tenth of global copper deposits, the Copperbelt region reinforces Zambia's status as the world's eighth-largest copper producer and fuels the nation's economic growth and employment, contributing about 80 percent of export revenues and employing over 60,000 people.

IHC indicates interest in Lubambe

A unit of International Holding Company, Abu Dhabi's most valuable

company, is interested in acquiring Lubambe copper mine, an asset that China's JCHX Mining has already agreed to buy, recent media reports have indicated.

International Resources Holding recently told EMR Capital that it is interested in bidding for the private equity manager's 80 percent stake in the Lubambe copper project, which is up for sale, a development that may complicate a sale process that's already underway, two of the sources said.

The IHC unit's interest in Lubambe, with potential to be among Zambia's largest copper mines, comes after Shanghai-listed JCHX, a mine servicing and contracting firm, entered into a deal to buy EMR's 80 percent stake in Lubambe in January.

The sale process requires approval from the Zambian government, which is pending and unclear at the moment, one of the sources said. The government owns a 20 percent stake in Lubambe through state-firm ZCCM-IH.

The IHC unit's interest is spurred by an aggressive push by cash-rich oil majors United Arab Emirates and Saudi Arabia to secure critical metal supply in Africa, as they bid to diversify their economies and engage with energy transition.

Vedanta seeks deals with traders to fund Konkola

Vedanta Resources Ltd has approached trading houses as it seeks to raise capital to revive the Konkola copper mining and smelting complex.

Billionaire Anil Agarwal's Vedanta has discussed tolling and prepayment facilities with commodity traders, including Mercuria Energy Group, for output from Konkola Copper Mines Plc, according to people familiar with the matter.

It's also examining the sale of a minority stake in KCM as it explores ways to pay off creditors and invest in the mines that entered provisional liquidation in 2019, the people said, asking not to be identified because the talks are private.

Vedanta resolved its legal dispute with Zambia over the copper assets in September, with the company agreeing to pay \$250 million to settle some of KCM's obligations to suppliers and to commit an additional \$1 billion over five years to an underground expansion. The operation will be returned to Vedanta if KCM's creditors approve the debt-repayment deal next month.

Mingomba the country's largest copper deposit

KoBold Metals, backed by a coalition of billionaires including Bill Gates and Jeff Bezos, has announced that its Mingomba asset is the country's largest copper deposit in a century and that it plans to fast-track its development.

KoBold president Josh Goldman said they have confirmed the "huge" size of the deposit. Mingomba is shaping up to be "extraordinary," he said, adding that the potential of the discovery compares to that of the Kamoia-Kakula mine, owned by Ivanhoe Mines and China's Zijin Mining.

This operation, located just across the border in the Democratic Republic of Congo (DRC), produced almost 400,000 tonnes of copper last year.

"The story with Mingomba is that it's like Kakula in both the size and the grade," Goldman said on the sidelines of the Indaba mining conference in South Africa, according to Bloomberg.

SA high court grants Kabwe claimants appeal permission

The Johannesburg High Court in South Africa has granted permission to appeal an earlier judgment that dismissed certification of the class action, in the lead poisoning caused by a former Anglo American lead mining operation in Kabwe.

In granting permission Justice Leonie Wendell found that an appeal against her earlier judgment had 'reasonable prospects of success on at least one ground of appeal' and that there were 'compelling reasons to grant the appeal, as class action law is still being developed in South Africa', and that 'there are current matters of law of public importance which directly implicate constitutional rights'.

The Kabwe Claimants are represented by law firm Mbuyisa Moleele Attorneys with Leigh Day acting as consultants.

"Anglo American argues that it adhered to standards that were acceptable in the 1970s and therefore should not be held responsible. These arguments indicate

a shocking indifference by Anglo American to the tremendous and ongoing harm caused to generations of the Kabwe communities by its operations.

"This is a concerning stance from a company that claims to be "re-imagining mining to improve people's lives" through its Future Start Mining initiative. It is also in stark contrast to the human rights principles to which Anglo American claims to subscribe, as set out in their Group Policies," said Leigh Day partner Richard Meeran and Mbuyisa Moleele founding partner.

The Kabwe claimants will now take their case against Anglo American South Africa (AASA) before the Supreme Court of Appeal of South Africa later this year.

According to the consultants, the development is a major step forward in the longstanding lead poisoning class action claim against AASA, a wholly-owned subsidiary of London headquartered Anglo American Plc. The December judgment

effectively blocked access to justice for the people of Kabwe.

Kabwe was an Anglo American mine from 1925 to 1974. The evidence submitted to the court by the Claimants in support of this claim is clear. From the early 1970s children were already falling ill and dying of lead poisoning, and a high proportion of them were suffering from massive blood lead levels.

The class action was filed in South Africa as it would not have been possible for the Claimants to obtain access to justice in Zambia. Amnesty International and a number of United Nations agencies intervened at the certification hearing to argue that Anglo American's opposition to the class action was contrary to the UN Guiding Principles on Business and Human Rights, Anglo American's own human rights policy and publicly stated human rights commitments.

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AFSIC to drive Africa's sustainable growth

Organisers of the annual Africa focused investment conference AFSIC- Investing in Africa expect over 1400 delegates, at C level or similar from both Africa and the rest of the world, to engage in the African investment ecosystem.

With over US\$6bn worth of deal and investment opportunities profiled on site last year, AFSIC this year promises to offer up even more opportunity for those ready to invest.

Slated for the 7th to the 9th in London, Investment in Africa 2024, the event's dialogue is focus on nurturing investment and collaboration across the investment value chain and driving sustainable growth in Africa. AFSIC is supported by a wide range of financial media, industry sector partners and sponsors - top European DFIS, ratings agencies, investment banks, tech platforms and pan-African banks.

"We look forward to welcoming you as a business, fund, investor, or sponsor to the 2024 iteration of AFSIC Investing in Africa," said Olivia Atenborough, AFSIC Head of Digital Strategy.

She said AFSIC prides itself on being so much more than a conference as aside from dynamic panels focused on hot industry sectors - in-

formed investing, banking on Africa, infrastructure Africa, advancing agriculture, AI and tech revolution, fintech innovation, powering Africa and sustainable development.

AFSIC also emphasizes real interactions and networking leading to exciting deals.

"As a results-focused, private sector-led investment event, AFSIC provides the ultimate forum for investors, African business leaders and dealmakers."

The AFSIC 2024 Agenda is now live online and the first speakers and more importantly top investors have been confirmed. These include African Development Bank, 500 Global, Apis Partners, The World Bank, BII, Blue Orchard, EBRD, Gateway Foundation, Grameen Foundation, IFC, Norfund, Old Mutual, Sanlam, US DFC and PIDG, just a few of the many players in the African Investment World.

AFSIC welcomes annually around 250 speakers and content streams are delivered on site and live streamed via the AFSIC Event and meeting platform, but much more than content discussion is on offer. Powered by our interactive event and meeting App, delegates can view who is attending, segment down the attendees, save relevant agendas sessions and

plan their meetings and interactions on site.

"The AFSIC Investor Pitching room offers quickfire pitching by companies or funds looking to raise profile and capital to a room full of interested investors. Complementary to that, our range of meet the Leading investors sessions allow investors to present themselves to delegates."

The AFSIC country-specific Investment Summits are a very convenient opportunity to find out about doing business in different countries, meeting IPOs, relevant companies and investment opportunities. The AFSIC breakaway areas, where networking exhibition stands are placed, allow top sponsors to host meetings and build their brand awareness.

AFSIC always launches with an exceptional Meet African Dealmakers event that offers informal networking in a social environment - this year to be held in the London Transport Museum in the heart of London. Organisers say a wide variety of industry sector players attending and many of the key financial sector participants present, investors are drawn to attend who are looking for new investment ideas or who are looking to raise capital for their own funds.



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ABOUT THE COMPANY

K-SOLUTIONS LIMITED (K-Solutions LTD) is incorporated and registered under the Patents and Company Registration Office. The company is also registered with the Zambia Public Procurement Authority (ZPPA), Engineering institution of Zambia (EIZ/ERB) and National Construction Council (NCC). The company was set up to provide reliable, and cost-effective solutions to its customers.

K-Solutions LTD is a Zambian owned company with the main office in Kitwe Copperbelt. The company is headed by professionals with excellent business background and experience.

The main focus of the company is to provide Engineering/Technical Services to the mining and manufacturing industry in Central Africa.



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3. Teamwork: we believe in team work and the synergy it provides.



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FQM commits to local procurement, capacity building

First Quantum Minerals Ltd has reaffirmed its dedication to fostering local economic development through enhanced procurement strategies and supplier capacity building.

The announcement was made to senior representatives of the Zambia Association of Manufacturers (ZAM), during a visit to the company's Trident project recently. In line with the government's drive to support local businesses and communities, First Quantum is prioritising local procurement initiatives and actively engaging with local suppliers.

"We believe that local procurement is essential for the sustainable development of Zambia. By investing in our suppliers, we are creating jobs, stimulating the economy, and reducing our reliance on imports. By sourcing goods and services locally, First Quantum aims to stimulate economic growth, create employment opportunities, and foster sustainable development within the regions where it operates," said FQM Lead of Infrastructure Development, Jed Goldstein.

During the visit, discussions centered around collaborative efforts to strengthen the capacity of local suppliers, enabling them to meet the standards and requirements of First Quantum's operations. Through training programmes, mentorship, and strategic partnerships, the mining firm is empowering local suppliers to enhance their capabilities, competitiveness, and sustainability.

"The Zambia Association of Manufacturers (ZAM) is encouraged by the potential collaboration opportunities discussed today in Kalumbila. It's evident that FQM shares ZAM's goal of developing local suppliers and propelling Zambia's manufacturing forward. We look forward to further engagement with FQM and we are confident that future initiatives will bring tangible benefits to our members and significantly elevate the manufacturing sector's contribution to Zambia's GDP," said ZAM Chief Executive Officer, Muntanga Lindunda.

Goldstein further highlighted the opportunities available within the Kalumbila Multi-Facility Economic Zone (MFEZ), emphasising its commitment to supporting and promoting local businesses within the zone: "Our employees continue to travel to Solwezi for basic necessities, reflecting the lack of essential services in Kalumbila Town. The potential for economic growth in Kalumbila

and North-Western Province goes beyond mining. The MFEZ will not only focus on upstream and downstream mining activity, but will also foster secondary economic activities through investments in new projects within the region," he said.

ZAM President Ashu Sagar said: "After touring the Kalumbila Multi-Function Economic Zone, I am convinced that it represents a significant opportunity for the future of manufacturing in Zambia.

This world-class town offers immense potential not only for traditional mining suppliers but is set to become a hub for manufacturing, thanks to the transport linkages currently under development. In the next few years, Kalumbila will boast easy access to the DRC, Walvis Bay, and Angola, opening up unparalleled avenues for consumer goods manufacturing and commodity beneficiation operations. The evolution of these transport corridors will catalyze substantial economic growth and diversification, benefiting our membership and heralding a new era for Zambian manufacturers."

First Quantum has invested over US\$110 million in the planning and development of

Kalumbila Town through the Kalumbila Town Development Corporation.

He further explained that by leveraging the resources and infrastructure of the MFEZ, First Quantum aims to facilitate the growth and expansion of local industries, driving economic diversification and industrialisation in the region.

"We are firmly committed to fostering mutually beneficial partnerships with local suppliers and supporting the development of vibrant local economies. Our collaboration with the Zambia Association of Manufacturers underscores our shared vision of promoting sustainable economic growth and prosperity within Zambia," he continued.

FQM's local procurement strategy is aligned with the Zambian government's Industrialisation and Job Creation Strategy. The company has already achieved significant progress, with over 70 percent of its procurement spend going to Zambian suppliers.

First Quantum remains dedicated to creating value for all stakeholders and contributing to the long-term socio-economic development of Zambia.

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BELL

Kagem pays 31% of revenue to government in 2023

The Kagem emerald mine in Lufwanyama paid almost a third of its revenue to the government in 2023, this is according to the latest figures from its parent company Gemfields.

The state received USD 28.3 million of Kagem Mining's USD 92.7 million revenue in 2023. These figures mean a 31 percent contribution, as calculated according to Gemfields' 'G-Factor for Natural Resources', a measure promoting greater transparency regarding the level of natural resource wealth shared with the governments of host countries, whether from the mining, oil, gas, timber or fishing sectors, launched in July 2021.

The figures reflect contributions specifically from company revenue, rather than the more traditional measure based on profit after expenses. Gemfields again invited governance bodies, extractive companies, industry observers and host governments to adopt the G-Factor for Natural Resources in order to improve transparency and accountability regarding the share of natural resource wealth paid to a host country's government.

The G-Factor for Natural Resources is intended to be an uncomplicated indicator of the percentage of a natural resource company's revenue that is paid to the host country's government in primary and direct taxes (plus, where the host government is a shareholder, dividends).

As such, it is an indicator of the share of natural resource wealth paid to a host country's government. It is also an indicator of the efficiency of natural resources companies in converting those natural resources into funds for the host government. The G-Factor for Natural Resources takes its name from the 'g's' in "government", "governance" and "good practice".

"Given the desire by governments to increase their participation in their country's natural resources, a practical measure allowing a direct comparison of the sharing of natural resource wealth assists greatly in identifying responsible custodians of host nations' resources. The G-Factor for Natural Resources provides a simple 'school score' allowing observers to assess the relative efficiency of extractives companies in converting natural resources into wealth for host-nations.

"In order to better align with practices in other countries in our region, we have this year added export duties and levies as an additional parameter in the calculation. We hope the G-Factor for Natural Resources will be voluntarily adopted by other companies, insisted upon by host governments and incorporated into projects such as Extractive Industries Transparency Initiative (EITI)," said Sean Gilbertson, Gemfields Chief Executive Officer.

G-Factor for Natural Resources computations for Kagem emerald mine, which is operated and 75 percent owned by Gemfields and 25 percent owned by the Zambian government's Industrial Development Corporation (IDC).

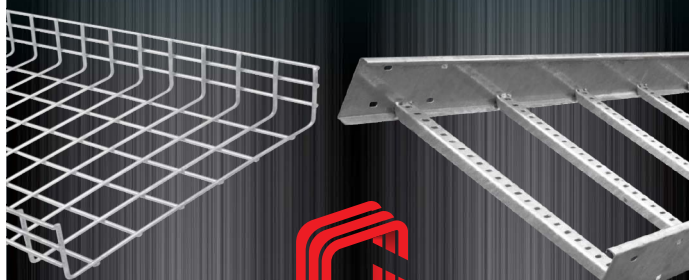
The G-Factor for Natural Resources would typically be calcu-

lated by each standalone company engaged primarily in the extraction and sale of natural resources, whether in the mining, oil, gas, timber or fishing sectors. Accordingly, multi-national natural resource companies would publish the G-Factor for Natural Resources for each operating subsidiary engaged primarily in the extraction and sale of natural resources.



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C.P. Engineering Ltd, a company formed in 1972 and was originally founded by an Italian. It was later purchased in 1975 by the current owners making the Company 100% Zambian owned. Over a period of almost forty years, C.P. Engineering Ltd has grown in size and now has a staff of over thirty eight employees and is sub-divided into four different sections, namely: The Machine Shop, Boiler Shop, Bulk Storage Warehouse and a Retail outlet.

The Company was originally started with only a few machines, but over the years has built a healthy fleet of almost thirty different pieces of equipment which includes lathes, milling, drilling, boring, power saws, welding, pressing, rolling, guillotine and threading machines. All four sections of the Company are spread over an area of sixty five thousand square feet of space with a manager in each section.



THE MACHINE SHOP

The machine shop and the boiler shop are the two original sections of the Company where all our machining and fabrications are done. The machine shop manufactures various types of gears, sprockets, anchor bolts, pins, sleeves, couplings and numerous other products.

THE BOILER SHOP

The boiler shop is involved in fabrication of tanks, repairs and rebuilding axles, repairing dumper truck bodies, bulldozer and excavator buckets, customized containers, and other items as per drawings. Trolleys are also manufactured and distributed to other hardware stores.

Most of the staff have been with the Company for more than ten years and are experienced in various aspects of engineering. C.P. Engineering Ltd has three full time engineers with more than fifty years of experience combined. Over the past years the Company has serviced several different industries such as textile, food & beverage, transport, construction and mining. With the advent of numerous new mines and several new major construction projects, the company is deliberately focusing more on servicing these sectors.

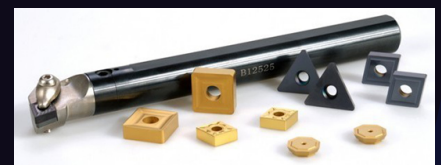
FASTENERS

The third section deals with wide range of fasteners. C.P. Engineering Ltd in recent years has become the country's largest stockists of numerous types of bolts, nuts, washers, threaded bars, screws, and studs in mild steel, high tensile steel and stainless steel. No other dealer in the country carries as much variety of fasteners.



RETAIL SHOP

Lastly, the fourth section of the Company is the Shop. The storefront has been C.P. Engineering Ltd's latest expansion to expose the range of fasteners to individuals and other Companies. Additionally, a lot other hardware items related to fasteners have been introduced such as Ring, Combination and Open ended spanners. Impact Wrenches, Screw Drivers, Torque Wrenches and Vices. Pipe Wrenches, Allen keys and complete mechanics, fitters and electrician tool boxes. Items such as welding machines, boiler shop supplies, machine shop tooling, heavy duty jacks, shackles, and numerous other supplies can be found. C.P. Engineering Ltd is an Authorized Exclusive Dealer of High Quality world renowned HEYCO and HYTECH tools of Germany who are also the principle suppliers of all major tools to Mercedes Benz, Audi, Volvo, VW, and MAN trucks of Europe.



In the field of machining tools for the workshop, CP Engineering Ltd are the exclusive agents in Zambia for PILOT TOOLS (PTY) LIMITED of South Africa. Pilot is one of the leading manufacturers of tungsten carbide blanks for the mining industry. Additionally, they also manufacture tungsten carbide metal cutting inserts, brazed turning tools, brazed boring tools, brazed threading tools and also tool holders for the engineering industries.

The management and the engineers of C.P. Engineering Ltd are always available for consultation and professional advice.

Copper smelter inactivity rises further in Q1 - SAVANT

Latest data from Earth-i's SAVANT real-time global copper monitoring index shows that an average of 12.5 percent of global copper smelter capacity (covering 90 percent of the world total) was inactive in the first quarter of 2024, up from a more usual 9.3 percent and 8.7 percent in the same period of 2023 and 2022 respectively. That number was also higher than the already elevated 11.5 percent average registered in the first two months of the year.

The increase was due largely to developments in top producing nation China, where inactivity rose to an average of 8.5 percent, compared with 4.1 percent in Q1 2023 and four percent in Q1 2022. In March alone, inactivity in China was around nine percent while it stood at 17.7 percent on a global basis.

More significantly, as market watchers seek confirmation of pledged curtailments in China by the influential Copper Smelter Purchase Team, inactivity in the country jumped sharply in the final days of March, ending the month at a substantially higher 12.8 percent. April figures must be watched closely to establish

whether this is a trend that will be sustained. "Significantly, we are now entering a period of several scheduled maintenance closures, and this is expected to help ease the tight concentrate supply situation which has helped to depress smelter treatment charges (TCs) and by extension smelter profitability."

Latest SAVANT observations indicate that the Zhongyuan Gold Smelter (Sanmenxia) started to show inactive at the end of March, in line with its expected maintenance window. Other maintenance closures were expected at the Hongsheng and Humon plants this month, but the facilities were not showing as inactive at time of writing. Meanwhile the Huludao facility was due to close for two weeks from mid- to end-February, but SAVANT data pointed to a shorter outage period. The Qinghai facility also became inactive at the end of March, in line with its usual annual maintenance as shown by SAVANT data over previous years.

Outside China, the Isabel plant in the Philippines has shown flickers of inactivity, along with Codelco's Chuquicamata smelter in Chile, with a two-week shutdown also indicated at

Grupo Mexico's La Caridad operation in Mexico. On the other hand, various recent reports state that the 500,000 tonnes per year (tpy) greenfield Adani smelter-refinery in India has started up and produced its first cathode. At present the smelter is excluded from SAVANT calculations and will only be included when fully up and running.

"But our observations do not yet detect smelter activity, which may simply be due to high cloud coverage from the start of April or it may suggest that full-scale smelting operations are not quite underway yet."

Trade Data Monitor figures show that India's imports of copper ores and concentrates have been elevated at more than one million tonnes in the past couple of years, but they were slightly lower year-on-year in January 2024. Peru and Panama had been identified as key suppliers of concentrate to the Adani smelter, but the Cobre de Panama mine is closed and neither country exported raw material to India during the month, with Indonesia and Chile instead the main suppliers.



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Wits Mining Institute to unlock mining potential with short courses



The Wits Mining Institute (WMI), at the University of the Witwatersrand intends to host a number of dynamic programmes during 2024 to assist the local and global mining industry to come to grips with emerging challenges.

The increasing use of mechanised and automated equipment at mine sites, as well as the ongoing focus on ESG and the need for spatial data, are some of the challenges the mining industry is facing. To address these topics and capitalise on opportunities, the WMI will work in collaboration with industry players to present short courses, equipping people to better tackle these challenges.

Speaking on the back of their first short course, titled 'Fundamentals of Occupational Health and Safety in Practice', offered to members of Sibanye Stillwater, WMI Director Professor Glen Nwaila

highlighted that the Institute received only positive feedback from participants.

Held during the week of 11 March, the course catered to mine health and safety practitioners, as well as executives from Sibanye Stillwater. "This was a fully attended course," he noted, adding that participants called the course a 'game-changer.'

"This is one of those unique undertakings where a university designs a course based on direct input, feedback and collaboration with the mining industry to solve the problems that the practitioners face. Participants lauded the program's focus on professionalising safety practices and fostering greater awareness of safety issues in mining operations," he said.

WMI believes the course will allow these practitioners to build their capacity and skills in the industry. Led by a seasoned

Mine Health and Safety Practitioner, Terence Parker and Dr Nelson Chipangamate, participants were exposed to cutting-edge methodologies and real-world case studies aimed at enhancing their competence in safeguarding mining operations.

"Through collaboration with industry leaders like Sibanye Stillwater, we are reshaping the landscape of mining education," said Nwaila.

"These skills accelerator programmes represent a pivotal step towards enhancing safety practices and driving innovation in the mining sector."

Due to overwhelming demand, the WMI and Sibanye Stillwater have committed to offering these programmes on an annual basis, opening the course to the rest of the industry from 2025 onwards.

Nwaila noted that there would also be a second intake for the Mine Health and Safety programme by seasoned Parker with a framework from Dr. May Hermanus, running from 20 to 24 May 2024, while a third course, titled Mineral Value Chain for Occupational Health and Safety Practice, will be offered from 24 to 28 June 2024 and will be led by Dr. Paskalia Neingo and Dr. Pontsho Twala.

The curriculum is structured to accommodate two enrolments per year, with a focus on fundamental principles and advanced practices. Upon completion of all modules, participants will receive certificates endorsed by the University of the Witwatersrand, signalling their proficiency in occupational health and safety practices.

The WMI will also present a four-day online course from 20 to 24 May 2024 on 'Mechanised Earthmoving in Mining: Equipment, Technology and Management', which will be hosted by Professor Zvi Borowitsh, as well as a structured 21st Century Mining programme for Akita University (Japan) students funded by the United Nations University. This forms part of the Smart Mining programme.

The programme will be presented by WMI's Head of DigiMine, Dr. Ahsan Mahboob, WMI SAMERDISATCAP Head, Dr Ingrid Watson, WMI's Director Prof Glen Nwaila, and WMI's post-doctoral fellows, Dr. Nelson Chipangamate and Dr. Mulundumina Shimaponda.

The programme will endeavour to promote the development of core human and technological resources for smart mining to lead sustainable resource development in Southern Africa.

Recognising the increasing importance of spatial data management in both the mining and commercial sectors, the WMI is also offering an online course on Geographic Information Systems (GIS), being held on 25 September.

Presented by Dr. Ahsan Mahboob and Dr. Iqra Atif, the course will aim to equip participants with the skills necessary to harness the power of spatial intelligence. The GIS course focuses on leveraging easy-to-access tools for spatial data analysis and visualisation, enabling participants to master Microsoft Excel for creating interactive maps, as well as to delve into the fundamentals of GIS. Attendees will gain invaluable insights into optimising resource allocation, locating and allocating employees, identifying mineral reserves, and enhancing operational efficiencies.

"In an era defined by rapid technological advancement and evolving industry trends, the WMI remains at the forefront of mining education. By curating these short courses, the WMI continues to pioneer the future of mining education, offering a transformative learning experience that equips participants with the skills needed to thrive in the 21st Century mining landscape.

"As the industry embraces digitalisation and mechanisation, we are standing ready to empower the next generation of mining professionals with the tools, knowledge, and expertise to drive innovation and shape the future of mining," Nwaila said.

"The success of these courses underscores the importance of collaboration between academia and industry. Partnerships with leading mining companies, including Sibanye Stillwater, African Rainbow Minerals, Mandela Mining Precinct and Accenture, have been instrumental in shaping the curriculum and providing essential funding support," he noted.

As part of its commitment to further advancing mining research and innovation, the WMI is also inviting industry stakeholders to engage in funding opportunities for two proposed research centres: Future Mines and Minerals and Intelligent Remote Operating Centre. These centres will focus on ESG-related research and the development of intelligent mining technologies, respectively, offering naming rights to sponsoring companies.

Meanwhile, the WMI will also kick off its inaugural quarterly breakfast dialogue sessions starting on 4 April 2024. These sessions aim to address pressing challenges in the mining industry and expedite research transformation into practical industry solutions, leveraging the Awareness, Desire, Knowledge, Ability and Reinforcement, or ADKAR, change management model.

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Kagem, TEVETA inks industry-focused training deal

Kagem Mining has signed a memorandum of understanding (MoU) with the Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA) to support training of the mine's staff in industry-specific skills including mechanics, electricians, applied sciences, business studies and automotive and heavy equipment repairs.

"Curating the right skills sets and widening the pool of expertise is critical for the development of the local gemstone and wider mining sector. Kagem has set this as one of our key priorities for continuous performance improvement for our staff," said Kagem's Head of Human Resources, Dr. Wesley Chishimba.

Dr. Brilliant Habenzu, Minister of Technology and Science, Felix Mutati expressed delight at the industry's public commitment to actively participate in responding to the challenges of developing a competent human resource in partnership with government through TEVETA to increase workforce employability through technical, vocational and entrepreneurship training (TEVETA) for social economic development and inclusion.

"The government has demonstrated commitment to skills development by consistently providing funds to TEVETA to invest in relevant workforce development in collaboration with industry. Proceeds from the Skills Development Levy are vital enablers in meeting the skills needs of industry for increased productivity," said Dr. Brilliant.

He further noted that the mining sector remains key in the economic development and investing in relevant skills in this sector is very strategic for the country in reshaping its skills set for economic competitiveness and resilience.

TEVETA Director General, Cleophas Takaiza echoed the minister's sentiments stating that: "TEVETA is about preparing people for jobs. We place emphasis on training, developing competencies, skills, and the underlining knowledge that will make somebody useable, productive and relevant for the jobs be it in formal employment or informal employment."

Every year TEVETA provides funding for training institutions and organisations to conduct employer-based training on a cost-sharing basis. As a prerequisite for qualification, a company and a training institution must submit a joint proposal to TEVETA requesting funding.

This joint proposal by Kagem and the Northern Technical College (NORTEC)

- one of the leading engineering skills training institutes in the country - was submitted to TEVETA, and it was successful. It will be put into effect with the signing of this MoU.

Speaking about the event, Adriaan Prinsloo Kagem's General Manager, acknowledged that the joint submission is a "vital part of the process as it creates an opportunity for the employer and trainer to align on a clear outline of the training requirements and desired outcomes, in line with industry standards."

"We believe that the convergence of the goals of the three institutions will not only make for a more holistic training programme but will also help to enhance and strengthen the curriculum baseline which is the building blocks for well-rounded professionals in our sector," added Dr. Chishimba.

Kagem will, in accordance with the stipulations of the programme, spend about ZMW 2,250,800 (USD 85,000) on this training programme.

Upon completion of skills training, participants will receive certificates recognised by TEVETA and the Zambia Qualification Authority (ZAQA).


Dr. Chishimba recognised the fact that technological changes are a given and happening at an even faster rate than before, and that industries and economies are constantly aspiring to higher standards as ESG – environment, social and governance - issues increasingly become a focus driver for organisational growth and operations.

"To accelerate innovations that will support sustainability and efficiency across mine operations, mining firms need to take on a more hands-on approach by collaborating with learning institutions and policy bodies to upskill and reskill employees' skill sets to bridge the skills gap," he said.

Dr Chishimba added that he was optimistic about the efforts being made in carving out a new trajectory for Employer Based Training in the country as it sought to promote and implement programmes that will create a pool of local experts that are able to take on the challenges and opportunities of the current and future demands of the mining industry, which is crucial for the development of the sector, and is vital for its growth and contribution to the overall economy of the country.

Metal Fabricators of Zambia PLC

The Electrical Cable Solutions



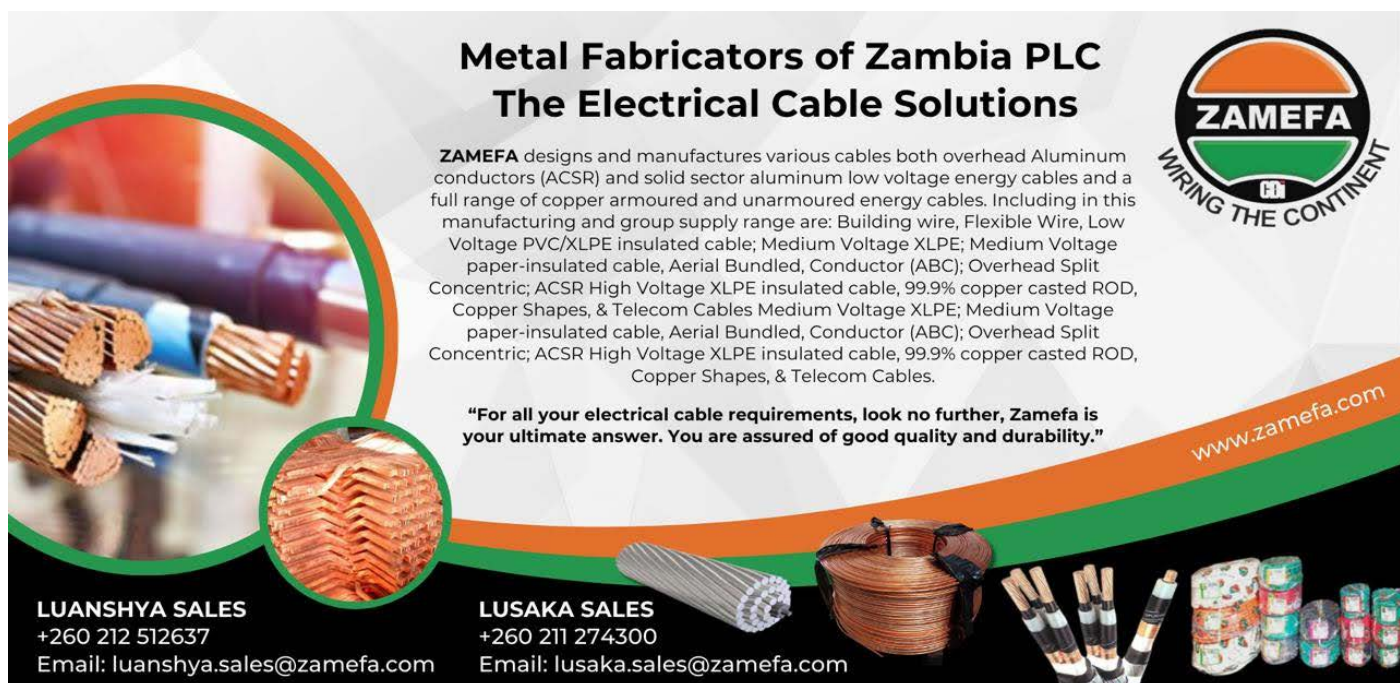
ZAMEFA designs and manufactures various cables both overhead Aluminum conductors (ACSR) and solid sector aluminum low voltage energy cables and a full range of copper armoured and unarmoured energy cables. Including in this manufacturing and group supply range are: Building wire, Flexible Wire, Low Voltage PVC/XLPE insulated cable; Medium Voltage XLPE; Medium Voltage paper-insulated cable, Aerial Bundled, Conductor (ABC); Overhead Split Concentric; ACSR High Voltage XLPE insulated cable, 99.9% copper casted ROD, Copper Shapes, & Telecom Cables Medium Voltage XLPE; Medium Voltage paper-insulated cable, Aerial Bundled, Conductor (ABC); Overhead Split Concentric; ACSR High Voltage XLPE insulated cable, 99.9% copper casted ROD, Copper Shapes, & Telecom Cables.

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Paratus' new portal to revolutionise businesses

Paratus Zambia, a leading digital services provider, has launched its innovative cloud platform, featuring a user-friendly portal that streamlines the acquisition and management of cloud and domain services. This new portal will revolutionize the way businesses and SMEs access and manage cloud services by offering unparalleled convenience and control. It cuts through complex technological issues to provide easy, quick, and simple access, and payment for, cloud and domain services.

As an online cloud platform with a portal, the new Paratus Cloud Services Portal allows customers to easily sign up and manage a suite of locally hosted cloud services, including Infrastructure-as-a-Service (IaaS or Virtual Servers) with both Windows or Linux operating systems; web services; email hosting; and domain registration/management services.

A cloud services portal does what its name implies: it is the centralised gateway to the Paratus cloud, allowing users to upload data

to servers via an internet connection, where it is saved on a virtual machine on a physical server. Paratus Zambia is offering this user-friendly platform to empower Zambian businesses with simple, centralized control over their ICT needs.

"Giving our customers more flexibility and a sophisticated range of options is the key offering here," explains Marius van Vuuren, Country Manager of Paratus Zambia. "With lower latencies and convenience at their fingertips, businesses can manage their ICT services securely and easily from anywhere and at any time."

Added to this, businesses will have ultimate power and control because they can select the cloud services that suit their needs and budgets and customise these services according to their requirements. In addition, Paratus Zambia provides unparalleled customer support, ensuring that every user can navigate and utilize the full spectrum of cloud services with confidence and ease.

Van Vuuren adds: "In an era when data protection is paramount, the Paratus Cloud Services Portal is a timely solution for businesses. It offers a seamless path to compliance, ahead of the impending implementation of the Data Protection Act. Our new cloud services portal will appeal not only to any big business or SME, but also to small business owners who need cloud services for both their professional and personal use.

"We have removed the financial burden of purchasing and maintaining physical servers, and we have also eradicated delays, offering immediate access to our 'infrastructure-as-a-service' solution. This allows businesses to compete effectively and digitally both here in Zambia and on the global stage."

To celebrate the launch of the portal, Paratus Zambia is offering a 10% discount for 3 months on Infrastructure-as-a-Service (IaaS) services, subject to sign-off.



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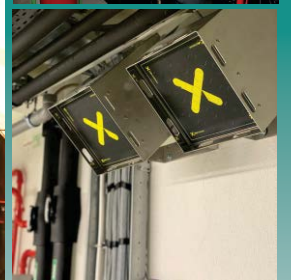
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Driving efficiency in your bearing spend

Understanding the sources of bearing procurement inefficiency

In the rigorous landscape of mining industry, efficiency and longevity of heavy machinery are non-negotiable. Critical components such as bearings and lubrication are the linchpins in maintaining optimal operational continuity and preventing costly downtimes. However, procurement inefficiencies often lead to unnecessary expenditure and diminished machinery life. Contamination from the relentless mining environment significantly accelerates wear and tear, jeopardizing both productivity and the longevity of equipment. Proactively addressing procurement and maintenance challenges like below are essential for safeguarding equipment functionality:

a. Incorrect bearing selection and technological ignorance

Bearing selection might seem like a mundane task, but it's far from it. Choosing the appropriate bearing is crucial for maintaining seamless production. Factors such as load capacity, speed, temperature, and environmental conditions are critical to avoid accelerated wear, premature failure, and costly production stoppages.

b. Insufficient focus on proper training and maintenance

Lack of proper training on bearing maintenance can significantly impact bearings' life, resulting in premature bearing failure. Mostly such failures are attributed to one or more of the following causes:

- Mishandling in storage and transportation
- Incorrect selection of shaft and housing fits
- Lack of mounting practice and missing layouts
- Insufficient knowledge about the application
- Defective bearing seats in shafts and housings
- Inadequate lubrication and insufficient sealing

c. Overspending due to misconceptions about the superiority of European/Japanese bearings

This assumption has led to overspending in procurement. Technological advancements, material science, and globalization have minimized quality disparities among global manufacturers. Emerging companies like KG International offer high-quality bearings at competitive prices. Today, a bearing's origin is less reflective of its quality due to enhanced manufacturing and quality control standards.

d. Focusing excessively on price while neglecting quality

Prioritizing lower cost over quality in bearing selection can lead to premature wear and failure, necessitating frequent replacements. This not only increases long-term expenses but also disrupts machinery operations, causing unexpected downtimes and heightened maintenance demands. Such cost-cutting measures compromise the overall efficiency and reliability of equipment.

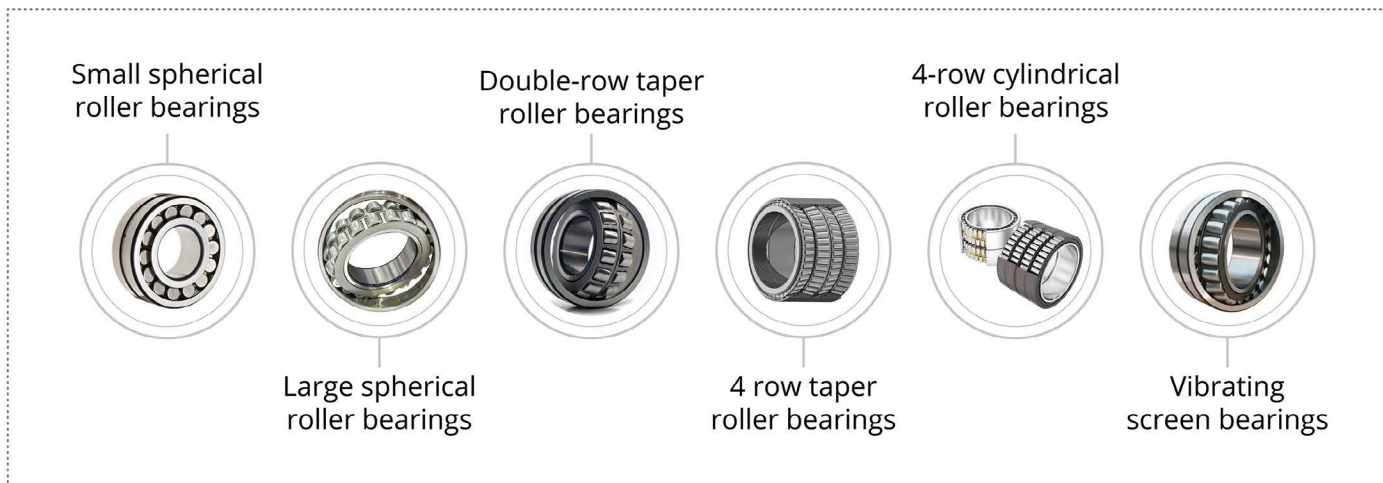
e. Lack of knowledge and investment towards bearing life improvement

Bearings failure results in significant unrecovered costs in lost production and equipment replacement. Proactive investment in identifying and addressing the onset of issues is crucial to maintaining asset efficiency and balancing the costs of monitoring, maintenance, and repairs.

Why should you choose KG Ultra?

KG Ultra bearings are meticulously designed for precision applications demanding the utmost in accuracy, speed, and rigidity. Engineered for intense, heavy-duty operations, these premium bearings have earned a global reputation for defining excellence in reliability and efficiency. By opting for KG Ultra, you gain access to:

a. Extensive Range: A complete range of bearings to make your operations more competitive, productive, and profitable:



b. Technical Superiority: High-quality bearings focused on improving your total cost of ownership by providing:

- ISO tolerance class 6 ISO 492, P6, Tighter tolerance than normal
- Raw material: GCr15, equivalent to AISI 52100 and DIN 100Cr6
- Component hardness controlled to 58 – 64 HRC
- Leading QA systems performing 130% component checking in China and Dubai
- Internal geometry matching leading European standards.
Large assortments with ISO 5593:2023 dimensions and control
- All parts and components manufactured under a single roof for total control

c. ROI and Unit Economics: Bearing selection is contingent on finding the right balance between cost and life and ensuring that all bearings are fit for purpose. The below graphs on price vs quality between KG Ultra and its alternatives establishes why KG Ultra is the right choice for driving meaningful ROI and dollar savings no matter what you are using today:

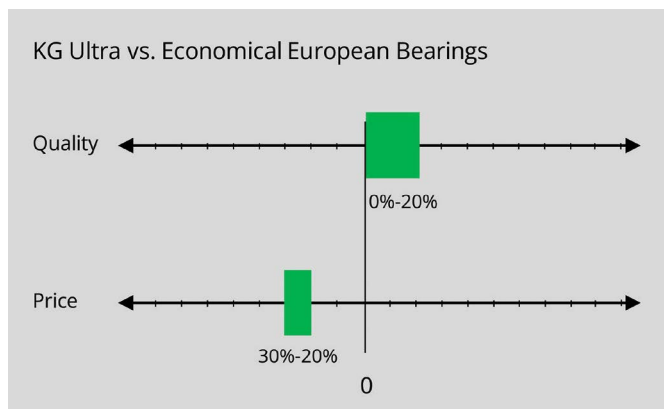


Fig. a. KG Ultra offers equal or better quality than economical European bearings within a 0%-20% range, at a price benefit of 20%-30%.

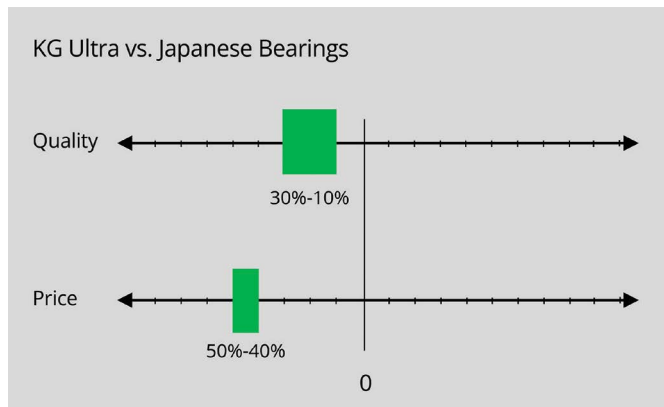


Fig. b. KG Ultra attains near-equivalent quality to Japanese bearings within a 10%-30% range, while offering considerable cost savings of 40%-50%.

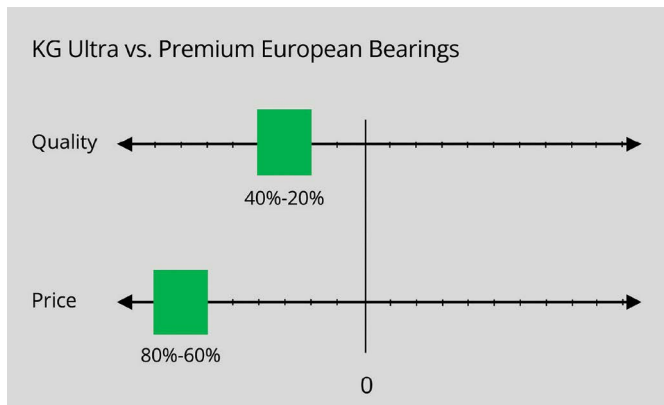


Fig. c. KG Ultra offers comparable quality within 20%-40% of Premium European bearings, with a significant price benefit of 60%-80%.

d. Automated Lubrication: In association with Dropsa, we enable peak performance of your machinery by ensuring:

- The accurate lubricant quantity at the exact interval providing precise lubrication amounts, avoiding over or under-lubrication
- A continuous, automated supply of lubricant, reducing manual testing and human errors
- Significant savings in repair, failure, and labour costs

e. Packaging Revolution: We believe that great products deserve great packaging. The new KG Ultra packaging offers:

- A sleek, innovative, and informative design with a modern look for easy identification
- Enhanced product protection for shipping and storage, ensuring your shipment arrives in perfect condition
- Eco-friendly materials demonstrating our dedication to sustainability and reducing our carbon footprint



Contact us for comprehensive bearing services and support

Ensuring the longevity and optimal performance of your bearings begins with proper training and support. At KG, we are dedicated to delivering top-notch bearings and exceptional customer services to our valued customers by offering:

- Product selection support to ensure smooth operation
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- Technical training and application engineering support
- Condition monitoring and stock monitoring to maximize uptime
- Grease and oil lubrication selection and automated system installation
- Failure analysis to determine improvement opportunities

Reach out today for unparalleled bearing solutions and support. Our team is ready to assist you in choosing the right bearing for your needs.

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TotalEnergies Zambia Revolutionizing Mining Efficiency with Superior Lubricants

In the heart of Zambia's bustling mining sector, where efficiency and reliability are paramount, TotalEnergies stands out as a beacon of innovation and excellence. With a steadfast commitment to delivering cutting-edge lubrication solutions, TotalEnergies Marketing Zambia has emerged as a trusted partner for mining companies seeking to optimize their operations and maximize equipment performance.

The mining industry operates in some of the most demanding environments on the planet, where equipment is subjected to extreme temperatures, heavy loads, and abrasive conditions on a daily basis. In such a challenging landscape, the choice of lubricants plays a crucial role in ensuring smooth operations and preventing costly downtime.

TotalEnergies Zambia understands the unique needs of the mining sector and



90% of lubricants sold in Africa are manufactured on the continent.



has invested heavily in research and development to formulate lubricants specifically tailored to the rigorous demands of mining machinery. Through years of collaboration with industry experts and continuous innovation, TotalEnergies has developed a comprehensive range of high-performance lubricants that deliver unparalleled protection and efficiency.

Moreover, TotalEnergies Zambia takes a holistic approach to lubrication management, offering customized solutions tailored to the specific needs and operating conditions of each mining operation. Through on-site assessments, comprehensive lubrication audits, and proactive maintenance programs, TotalEnergies works closely with mining companies to optimize lubricant usage, minimize waste, and maximize equipment reliability.



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TotalEnergies

Kgalagadi Holdings' expertise props up its growth



Kgalagadi's expertise lures global blue chip mining companies and other international companies looking for partnerships in South Africa and in Africa. The company firmly believes that innovation and the right technology can streamline processes in the procurement and logistics elements of the mining industry.

This comes as most industries are embracing the use of technology to improve efficiencies and operations.

Headquartered in Johannesburg, South Africa, the company has a branch in Durban, South Africa and partners dotted across Africa - Ghana, Kenya, Angola, Mauritius and Zambia, solidifying its footprint.

"Our target market is tier 1 and tier 2 mining companies, companies that are

supplying into mines that require procurement and logistics services," said Cheryl James, Management Official at Kgalagadi Holdings citing that customers benefit from the company's logistics expertise, preferential procurement rates, end to end solutions and other value-added services.

So far, the company has diligently offered services of procurement and logistics to various mines and mining suppliers.

In addition, other services Kgalagadi Holdings offers include fleet management and maintenance, inhouse travel, warehouse solutions, importer on record (IOR) and exporter on record (EOR) Services

Kgalagadi Holdings services leverage on procurement and logistics expertise 50 plus years from its employees, though the company only opened doors in 2013. The

100 percent black women owned company currently boasts a client portfolio of blue-chip and global companies.

Meanwhile, the company has been involved in corporate social initiatives (CSI) – Feeding schemes in and around Johannesburg South Africa and Durban.

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Bearings International boosts industrial solutions with premium I-MAK brand

The strategic alliance between Bearings International (BI) and I-MAK initiated in February 2019 signalled a new chapter in BI's mission to augment its selection of premium brand offerings in a bid to deliver top-tier strategic solutions to Africa's Sub-Saharan region.

"Our partnership with I-MAK presents the cornerstone of BI's strategy to provide high-quality, reliable solutions tailored to meet the diverse needs of a raft of industrial applications.

"All the products have a very high South African added value which, coupled with I-MAK's dedication to innovation, quality and precision, aligns perfectly with our mission to enhance production uptime and efficiency, delivering our value proposition of keeping customers 'in motion'," said Robert Sillis, General Manager, BI Product Management.

Kobus Groenewald, Business Unit Leader Industrial Geared Units at BI, unpacks the unparalleled advantages that the I-MAK range offers customers. "These are world-class quality, affordable, two-year-warranty products that are backed by specialist local and international support."

I-MAK boasts a solid footprint in Sub-Saharan Africa through its partnership with BI, alongside extensive leading brand presence on the rest of the continent, up to North Africa. This expansive reach is testament to I-MAK's well-established reputation and extensive experience spanning over 50 years. The I-MAK product

portfolio focuses on essentially all industrial segments, with utilities, automotive and sugar identified as key sectors while particular emphasis is placed on manufacturing, mining, FMCG (Fast-Moving Consumer Goods) and water treatment due to their high growth potential.

I-MAK's products, which are available exclusively for the Sub-Saharan region via BI, are comprehensive and include a wide range of gearboxes and drive solutions designed to address the most pressing challenges currently faced by the Gearbox Market that is driving the need for better technologies, higher efficiencies and ultra-durability to maximise uptime and optimise operations.

From Planetary, Worm and Aerator Units to flagship products – Inline Helical, Parallel Shaft, Helical Bevel and Monoblock IGU, I-MAK provides over one million product references, ensuring a solution for every specific industrial need. Supporting the extensive I-MAK product range is BI's exceptional customer service, which includes 24-hour breakdown support, a fully equipped factory and engineering facility fit for all customer- and application-specific design alterations and additions to standard equipment. This is all supported by national coverage through the organisation's 42 branches, essentially providing customers with access to immediate and effective support whenever and wherever they need it.

"I-MAK is also doing its part by focusing on establishing a close partnership with local companies to support their growth and engineering development," adds Groe-

newald. "Because I-MAK listens to the customers' requirements, they are able to provide bespoke solutions outside their standard range of products."

I-MAK differentiates itself by not just meeting but exceeding market expectations for technology, efficiency, and durability through constantly improving their facilities, widening their network, and upgrading their equipment to align their product and services with dynamic market expectations. In Q4 2023, I-MAK further solidified its commitment to the South African market with the deployment of a Country Road Show to showcase and unveil its cutting edge products across BI's extensive local branch network.

This initiative, which was hosted at various BI branches, also served to strengthen BI's market presence and equipped sellers with the knowledge and tools needed to effectively present I-MAK's value proposition to customers. "This was an outstanding demonstration of our shared dedication to providing bespoke solutions and enhancing production uptime," notes Sillis. Through the strategic partnership with I-MAK and initiatives like the Country Road Show, Bearings International continues to lead the way in offering premium, innovative solutions that meet the evolving needs of the industrial sector across Sub-Saharan Africa. The shared synergies between BI and I-MAK make this a win-win partnership that emphasises BI's dedication to expanding its portfolio with top-tier brands renowned for their innovation and dependability.

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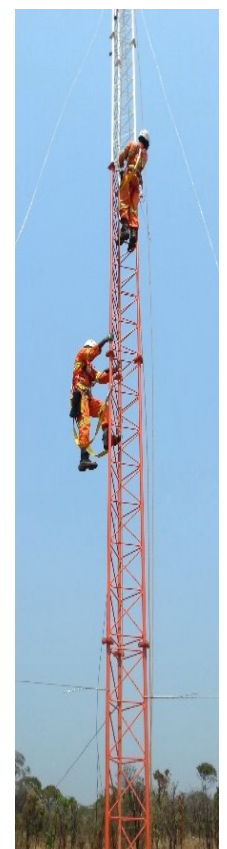
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Trends & Technologies

BME unveils centralised blasting system in AXXIS range

Omnia company BME has added another string to its technology bow, filling out its popular AXXIS™ electronic detonation range with the AXXIS™ Centralised Electronic Blasting System (CEBS). According to Ralf Hennecke, Managing Director at BME, AXXIS™ CEBS is another demonstration of the company's commitment to constantly evolving its technology offerings, to ensure that the latest and best products are available to its customers.

"AXXIS™ CEBS is a premium digital detonator system for initiating explosives, augmenting our popular AXXIS™ Titanium system for large deep-hole surface operations, and AXXIS™ Silver for smaller blasting operations," said Hennecke.

"It also represents the safest initiation technology available globally."

He highlighted that the AXXIS™ CEBS initiation system was designed for use in both general and specialised underground mining environments, being fully programmable, accurate and easy to use.

Andries Posthumus, BME's AXXIS™ Global Electronic Initiation Systems Development Manager, explained that the AXXIS™ CEBS system allows for two-way communication to take place in real time, with an electronic device initiating each blast by means of an electronic starter. The system comprises a blast controller on surface that monitors and reports all data and activities quickly and transparently.

AXXIS™ CEBS includes a logging device which is used underground at the blasting face to log the detonators and conduct the necessary test functions.

"Information from the logger is transferred to a blasting box and on to the control box, which manages the entire blasting process from the surface," said Posthumus.

"AXXIS™ CEBS is designed for enhanced control, precision and safe blasting – with enhanced safety, ease of use and flexibility."

He emphasised that, as the newest generation of AXXIS™ technology, CEBS also makes the logging and testing of detonators more efficient. By creating a central point for blasting, it allows users to save time when setting up and conducting blasts.

"The system features full two-way communications, allowing better monitoring of the entire blast process from the lock stage through to initiation," he said. Components of the AXXIS™ CEBS system include an AXXIS™ UG Logger, AXXIS™ CEBS Key Logger, AXXIS™ CEBS Blasting Box and BME's Blastmap™ Underground blast design software. It is supported by BME's AXXIS™ electronic delay detonators, which use two-core double insulated downline cables and achieve higher resistance to electrostatic discharge and high induced ground currents for greater safety.

Hennecke noted that BME's leading technology innovations are powerfully combined with its wide range of technical services, making the company a global blasting partner of choice for a growing number of blue chip mining operations.



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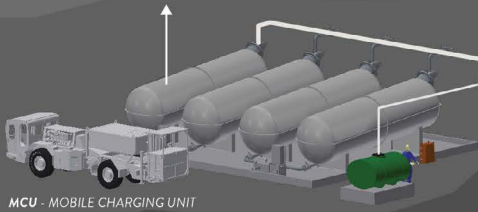
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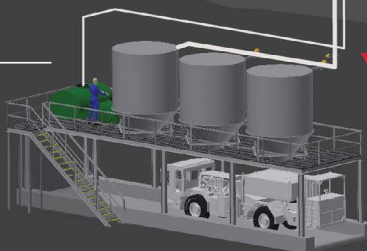
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