

PROJECTS

JUNE JULY 2019

MAGAZINE

**The Luxurious
Purple Haze Apartments,
Kilimani , Nairobi**



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PURPLE HAZE APARTMENTS, NAIROBI



Are you tired of living in an ordinary apartment surrounded by an absolutely mundane environment? Come to Purple haze apartments in Nairobi, a residential development well tailored to give you and your loved ones a touch of luxury and relaxation.

Purple haze apartments is a state of the art development that comprises of 216 units located on 2 acres piece of land. It is divided into 2 similar blocks housing 102 - 2 Bedroom apartments and 102 - 3 Bedroom apartments each with 12 sumptuous penthouses that give a generous view Nairobi skyline.



All apartments fitted with European products; Kitchens from Italy, Bathrooms from Spain's, Tiles from Italy, Oven, microwave, gas and electric hobs from Germany, Tafwares and WC from Germany. Solar heating and LED lighting in all apartments.

The development sits on a prime location along Kitale Lane, off Dennis Pritt Road, Kilimani (near State House Nairobi). It is centrally located, it is easy to access and it is connected to the main roads. In addition, these beautiful apartments are located near shopping centers, dining areas, recreational facilities, good schools and good hospitals among other facilities.

Durable and luxurious interior decorations and fittings

Purple Haze Apartments is an award-winning development. It won the Africa-Middle East 2016 - 2017 awards for the Best Architecture Multiple Residency in Africa and Best 5-star rating on design and quality category. It was designed by Singaporean Architect, Amity Moody of Wave Design Consultants. Moreover, among the seven continents



competing, Purple Haze Apartments proved to be the best by taking second position in the overall international award category.

Working together with the architects to make Purple Haze Apartments a reality is Edifice Limited Firm. The firm prides itself in providing expertise in innovative and quality design, finance and project management. The firm has over 20 years of experience and over 15 successful quality projects delivered on time. It targets projects such as; commercial, residential, hospitality and mixed use.

According to Edifice Limited, Director, Mavji Varsani, Edifice raised equity and sourced property financing from Commercial Bank of Africa in order to facilitate mortgage purchases.

Purple Haze Apartments are now open and available. They have high quality facilities and amenities designed to suit your needs and they include the following;

SECURITY

- Guarded gates with 24hr CCTV surveillance.
- Reception / Waiting lounge
- Intercom



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Contributions
The editors welcome news items, press releases, articles and photographs relating to the Construction Industry. These will be considered and, if accepted, published. No responsibility will be accepted should contributions be lost, damaged or incorrectly printed.

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WATER AND ELECTRICITY

- 24 hr dedicated full generator for internal and common areas.
- Solar water
- Borehole
- Full back up generators
- Steam, Sauna, Pools
- Heated pool for Children pool and adults

ACCESSIBILITY

- 2 parking per apartments
- 6 high speed lifts
- Convenience Store
- Passenger and goods lifts
- Laundry services
- On the go restaurant

ACCESSORIES AND FITTINGS

- Spanish Tiles (Pamesa)
- Spanish Bathroom Vanities
- Fully fitted wardrobes
- German sanitary ware and bathroom fittings
- Italian Kitchens complete with appliances
- Semi – Fitted kitchens
- Each apartment has a self-contained en suite DSQ

RECREATIONAL AND OTHER FACILITIES

- Club house
- Koroga / Party Areas rooftop gardens
- Landscape areas
- Vertical gardens and water bodies
- Cigar room
- Communal areas to hold parties near pool with kitchen and events room
- Concierge services
- Library
- Solar,
- Steam & Sauna
- Gym



For purposes of physical fitness, the gym is located within the vicinity.



Lucrative swimming pool

Are you looking for a modern luxurious home with comfortable living? Purple Haze Apartments is designed and set aside for you.



From L-R:Amit Mody - Design Architect (WAVE Design Consultants) for Purple Haze, Deep Jitendra Nagda - Director and Mavji Lalji Varsani - Director during the International Property Awards ceremony held in London December 2018.



OVERVIEW:

Purple Haze Residences is an award winning residential development situated off Dennis Pritt Road on Kitale Lane. It offers luxury residential 2 and 3 bedroom apartments as well as 3 and 4 bedroom penthouses all designed in modern living architecture and fitted with world class appliances. It is the ideal choice for anyone looking for space, luxury, comfort, security and serenity.

AWARDS:

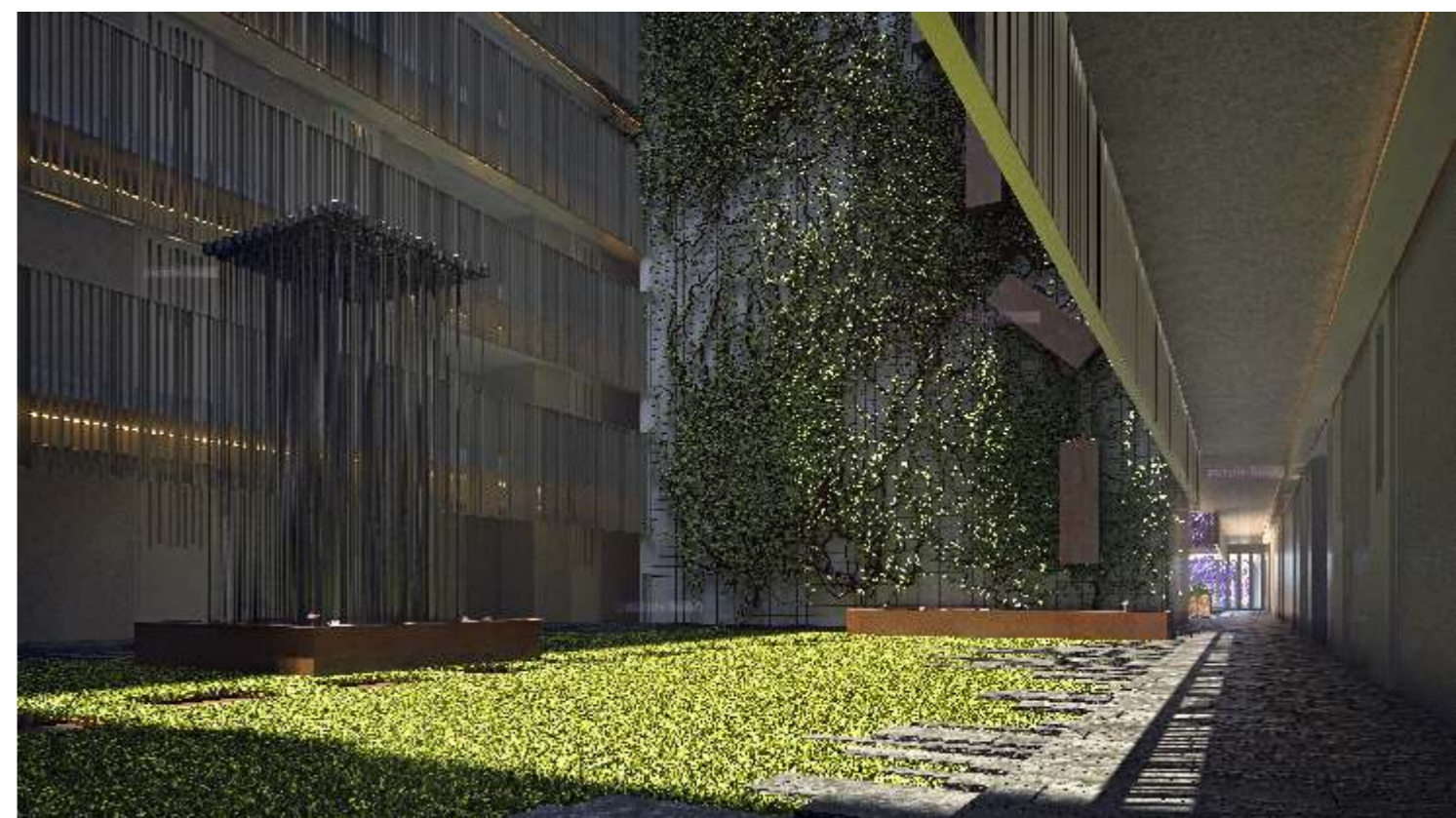
Purple Haze Apartments scooped the 2018-2019

Best Residential Development in Africa and Best 5 star rating (In Kenya) and was also nominated for the best in the world category out of eight nominations in the International Property Awards held in December 2018 in London. The residential development was also winner during the Africa-Middle East 2016-2017 awards for the Best Architecture in multiple residences Africa and received a 5 star rating for the same in Kenya. The annual awards recognize quality of design, construction and presentation of property developments by celebrating the highest levels of achievement by companies operating in all sectors of the property and real estate industry in the world. International architect Amit Mody of WAVE Design Consultants, Singapore, designed the residential property.

FACTS ON THE PROJECT:

Total Property Value

- 4.5 billion shilling project
- Property sits on a 2.5 acre land in a leafy suburb with close proximity to schools, embassies, offices, malls, hospital and access





to main road infrastructure

- The name came up due to the Jacaranda trees and flowers that blossoming in the land the development occupies.

Total Number of Units & Respective prices

216 total units consisting of:-

- 12 penthouses (starting price Sh. 70m for the 3bdr duplex units and Sh. 78m for the 4 bdr duplex units) all with additional servants quarters attached

- 104 2bdr apartments (starting price Sh. 23m) and
- 100 3bdr apartments (starting price Sh. 27m)

Rental incomes:-

Shs.125,000 for 2 bdr, Shs.175,000 for 3 bdr, and from Shs.500,000 for penthouses

Target Market

Upper middle class buyers looking to buy to live or as an investment

Buyers who appreciate the finer things in life and looking to upgrade to a lifestyle home

Buyers looking for convenience and accessibility due to the location

Ideal for Corporates and Embassies looking for residences for their employees due to safety and proximity to Statehouse.

Project Completion

- July 2019



Payment Plan

- 20% deposit and 80% on handover
- 10% discount for cash buyers
- Mortgage facility by CBA Bank of up to 105%

Value Add/Unique Selling Points

- The property is focused on lifestyle and the landscaping has been designed in accordance with 'a home retreat feeling'. The Five senses elemental courtyards, vertical living walls, water features and Zen gardens all ignite the spark of true holistic living that come together to merge the 5 senses and the elements of the earth.
- Each apartment features a self contained, detached servant quarter, a top of the range European finishing combined with artisanal workmanship which brings out the true design elements in this award winning project.
- The property will have a cigar lounge and business center that both add a touch of elegance to the development.
- Other amenities include: - An in-house grab & go duka, 24hr reception concierge service, fitness center, infinity pool, launderette room, a play pod that includes a children game room,

a crèche and outdoor playground, a roof-top terrace and bbq areas, high speed lifts and a club house.

- What sets us apart is that our designs emulate international standards with world-class landscaping that is unmatched. Most developments do not incorporate enough landscaping and greenery, we have gone up to 40% on landscaping.

Apartment Features:

- All apartments fitted with European products; Kitchens from Italy, Bathrooms from Spain's, Tiles from Italy, Oven, microwave, gas and electric hobs from Germany, Tafwares and WC from Germany. Solar heating and LED lighting in all apartments.

- Expected Yield

The expected yields are 8-11% of the value, which is a fantastic return on investment.

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*We Are Proud To
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of Purple Haze Apartments Nairobi*



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88 NAIROBI CONDOMINIUMS – AFRICA'S TALLEST LUXURIOUS APARTMENTS.

Eighty eight

DEVELOPMENT & PROJECT MANAGER
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A GOLDEN OPPORTUNITY

Imagine of an opportunity where you get to live like a boss and in a boss like environment because you are a boss. Imagine 88 Nairobi Condominiums Tower, it's real and it's a dream come true.

ABOUT THE TOWER

Located at Upper Hill in Nairobi , along Fourth Ngong' Avenue, the tower occupies a 2 acres (8,100 m²) plot of land and towers up to a height of 218 m (714 ft).The building is expected to have 12000 square feet of rental space with panoramic view of Nairobi, its sunrises and sunsets; and sites as far as Mt. Kenya. Being among the tallest buildings in Kenya, 88 Nairobi is an ultra-modern residential tower ,set to be the tallest luxurious residential building in Africa, a landmark first of its kind.

DESIGN

88 Nairobi Condominiums building has been designed to feature 44-floors tailored to match

the five-star hotel standards and still offer a generous view of the massive city and its surrounding. In addition, this building will be built in accordance with the UN Security Standards, UNEP & EU Housing Code.





Within the 44-floors, the ground floor to the 8th floor have been set aside to accommodate a gym, parking area, shops and a restaurant. Floors 9 to 44 are categorized into three apartment plans; the one-bedroom executive plan, the two-bedroom executive-plus plan and the deluxe penthouse plan that will feature three to four bedrooms that will start from the 40th floor to the top. All units will be fully furnished.

The apartment plans offer a variety of different options which include; Studio, 1 and 2 bedroom fully furnished executive apartments; 2 bedroom executive-plus apartments; duplex junior penthouses and Lordship penthouses at the very top.

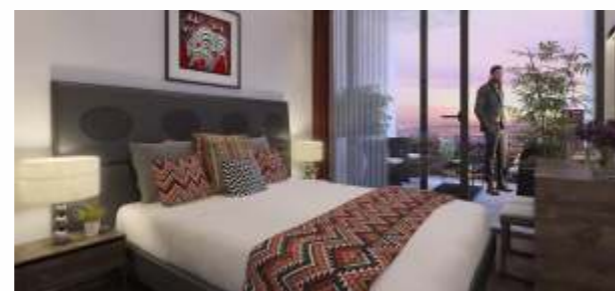


DEVELOPMENT AND DEVELOPER

The 88 Nairobi Condominium is being developed by Lordship Africa, a real estate investment and development firm, based in Nairobi and is a subsidiary of the Lordship Group, a real estate conglomerate that is based in Central Europe. The residential Tower is being turned into reality under the watchful eye of Mr. Jonathan Jackson, founder of Lordship Africa and Lordship Europe.

According to Mr. Jonathan, the condominium is a very sophisticated building and complex being such a high rise building, international contractors think they can build it in two years while the Kenyan contractors say it will take three to four years. So the tower is expected to take three years to be completed.

The building's cost of construction is approximated to be 5 Billion Kenyan Shillings. The construction started in April 2018 and it's expected to be completed in 2021 if not earlier.



SIMPLE MATHEMATICS

According to Mr. Jackson the 88 Nairobi Condominium comes with enormous return on investment of about 20 per cent which can't be matched in the market.

The cost of the units are affordable considering the location, amenities and the standards to which they are built. This is what Mr. Jonathan had to say, "Our prices start from the lower level and every floor the pricing increases per floor; the average of the low is 22.9 million. There are studio apartments available too for under 9 Million. We think it is an amazing price if you keep in mind it is fully furnished and you have all the facilities and amenities in the building."

WHY CHOOSE 88 NAIROBI CONDOMINIUMS?

- For the people who love and appreciate a posh lifestyle, 88 Nairobi is the one-bedroom ideal place for you.
- Security is of the highest standard. Inclusive of; CCTV Two-way video intercom link to the lobby and manned Security at entrance.
- Adequate water and water storage systems.
- Facilities and amenities in the building are irresistible; they include the following; a convenience store, gym and spa facilities, a heated indoor swimming pool on 30th Floor, a helipad and a 435-size parking space.

- When it comes to beauty, these condominiums are to behold. They have fittings and accessories that give them a modern look.
- Lastly, its location, convenience and accessibility. This is how Mr. Jonathan put it, "The location of this property is amazing because we have no competition, yes there is as you know the pinnacle coming up, there is another project by Hass Consult marketing but these are mixed use, they have got offices, hotels, shopping center and residential all in the same complex some people like to live in that kind of environment and that is fine, we have gone for a completely quiet dedicated residential building where you got your own space so that is how we define ourselves as differently to others in the market"



SKF prepares for another year as main partner for Gothia Cup

Over 400 children from 23 countries will participate in this year's SKF Meet the World Tournament, part of SKF's commitment to Gothia Cup

Gothia Cup is the world's largest youth football tournament. Each year, around 1 700 teams from 80 nations travel to Gothenburg to take part and play 4 500 games on 110 fields.

SKF, the global leader in bearings, with its headquarters in Gothenburg, has been involved in Gothia Cup since 2006. In 2007, when SKF became the main partner of Gothia Cup, the company initiated the SKF Meet the World tournaments to give even more children from different backgrounds the opportunity travel to Sweden and play football.

SKF Meet the World is SKF's largest company-wide social responsibility (CSR) project and involves local SKF offices and employees arranging local qualification tournaments for Gothia Cup in their respective countries. These qualification tournaments take place during January-June and the winning teams get to travel to Gothenburg and participate in the world's largest youth football tournament – a memory for a lifetime.

Since 2007, SKF's local offices have arranged 263 tournaments with around 33 000 participants. SKF Meet the World has given more than 4 750 children from 46 nations the opportunity to travel to Gothenburg.

This year, around 420 children from 23 countries will participate in Gothia Cup as part of the SKF Meet the World initiative.

Alrik Danielson, SKF President and CEO, says: "Gothia Cup is a fantastic meeting place for the

world's youth, irrespective of religion, skin colour or nationality, with football as the common denominator. At SKF, we really like that the Gothia Cup is about teamwork. About giving everyone the same chance. About supporting the young people of the world and bringing them together to play football. That is why we continue to be proud sponsors of this event."

For more information, please visit www.meet-the-world.com



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Atlas Copco enhances its low emission, low noise E-Air solutions with electric fixed-speed and VSD compressors

Throughout 2019, Atlas Copco will be introducing two additional fixed-speed and three new electric Variable Speed Drive (VSD) air compressors to its E-Air range.

This year Atlas Copco will add the E-Air T400 and the E-Air T500 to its fixed-speed E-Air T900, the first mobile electric air compressor introduced by the compressor specialist in 2016. Customers whose applications require varying air demands can look forward to three new VSD electric compressors, the E-Air H 250 and H 450 as well as the E-Air V 1100, covering all air demands from 250 to 1100 cfm.

Best-in-class efficiency at partial load is driven by the integrated VSD-driven permanent magnet electric motor which, compared to the fixed-speed electric compressor that needs a start-up current peak, requires only low power for start-up. "This means that there is no need to oversize the power supply nor the pneumatic tools," notes David Stanford, Business Line

Manager, Portable Air at Atlas Copco Power Technique. Furthermore, the smart socket system on the E-Air H 250 VSD model provides end users with the flexibility to use the same machine with multiple outlet sockets (63, 32 and 16 Amp).

According to Stanford, the new E-Air offerings are launched against the back drop of a successful 2018 which saw the launch of product innovations like the 8 Series Utility and DrillAir compressors with PACE (Pressure Adjusted through Cognitive Electronics) technology that delivers improved efficiencies.

The new VSD E-Air range's PACE system enables users to control the pressure between 5 and 12 bar in precise 0.1 bar increments, thus assisting them to adjust the flow to the optimal level required for their application. "Therefore, one compressor can handle various jobs that previously would have required multiple compressors," notes Stanford.

The E-Air range provides a reliable flow of compressed air without any diesel emissions. The absence of emissions make the E-Air range the perfect match for work zones that demand low emissions such as underground applications like mining or tunnelling. As air ventilation is a part of these industries' running costs, the efficient zero-emission VSD

electric range will contribute to reduced operational costs. Moreover, end users can rest assured they are in line with emission regulations not only today but also in the future.

With the ability to operate as quietly as 61 dB(A) which is a lower level than a conversation, the new VSD E-Air H 250 is ideal for environments such as residential areas or enclosed spaces such as subways, tunnels or mines that require low noise levels. The VSD E-Air range is also equipped as standard with an after-cooler, providing high-quality air for applications like sandblasting.

From a reliability point of view, Atlas Copco has designed the IP65-rated VSD E-Air range for tough working environments with features including: Potted motor windings prevent dust and water ingress while the proven HardHat canopy (for the VSD E-Air H 250 and 450) and three-layer anti-corrosion paint system provide solid protection. A water-cooled drive (IP67-rated) and a single-sheet steel, non-welded undercarriage further add to the ruggedness of this mobile electric VSD range. The standard spillage-free frame that offers complete fluid containment. "These features not only protect the end user's investment but also ensure that they have a reliable compressed air source for their application," adds Stanford.

The VSD E-Air compressors are smaller and lighter than equivalent diesel air compressors; the E-Air H 250 weighs less than 750 kg.

The plug-and-play electric-powered mobile air compressors are all about convenience. There is no need for refuelling and the electric motors require no servicing while the compressor

requires minimum service levels of only once every two years or 2000 hours.

The versatile VSD E-Air range is perfect for back-up applications, temporary extensions of compressed air systems, or to provide reliable compressed air flow when a stationary compressor installation is undergoing maintenance.

For 146 years, Atlas Copco has been innovating and focusing on sustainable solutions with customers top of mind. The new electric-powered compressors are in step with Atlas Copco's new sustainable portable air, power and flow equipment unveiled at Bauma 2019 that reduces operational expenditure through enhanced clean drive technology, connectivity and versatility. Alongside the new fixed-speed and VSD electric mobile compressors, the company has also updated its existing diesel air compressor portfolio through cutting-edge technologies, ensuring that its entire compressor portfolio complies with the latest diesel emission regulations.



Atlas Copco ready to Tee Off for AMCARE

Atlas Copco is the proud sponsor of the AMCARE Golf Day which will take place on 25 May 2019. The aim of this event is to assist the non-profit organisation in raising funds and spreading awareness about their numerous care-based initiatives.

“This will be the first time that Atlas Copco sponsors the AMCARE Golf Day and we are eager to show our solid support for this worthy cause,” states Wendy Buffa-Pace, Group Human Resources Manager at Atlas Copco. Showcasing their passionate dedication to this fundraising initiative, Frans van Niekerk, Managing Director and Vice President of Atlas Copco Holdings will represent the company at the event and display his golfing skills!

Founded seventeen years ago by the Alberton Methodist Church, AMCARE initially provided relief to those living with HIV/Aids in the surrounding New Redruth area. The organisation has now grown to provide

additional services with the objective to educate, inform and care for people in the greater area of Alberton so that they can empower themselves. AMCARE's support and relief effort services are split into four programmes; Victim Empowerment, HIV/Aids, Elderly Care and Skills Development.

“Some of the individuals that AMCARE cares for will be present at the Golf Day and we look forward to interacting with them and gaining a better understanding of their circumstances,” says Buffa-Pace. “We are confident that the Golf Day will serve to generate more support for the organisation so that they can continue to assist those in need. In addition to being a fun day for all the participants the event will be the starting block for everyone to have the opportunity to pay the spirit of giving forward.”

The Golf Day is geared to attract a large number of participants and will hopefully reach its target of ZAR 100 000. These funds will go towards the maintenance of various AMCARE facilities as well as the procurement of products and services to provide support to the organisation's children and their families.

Buffa-Pace concludes that Atlas Copco is committed to assisting communities in need and is certain that the proceeds raised from the Golf Day will help AMCARE to make a lasting difference to the lives of many individuals in need.

Graham Berman Refrigeration Services



Drilling deeper into essential Building Management Systems (BMS)

JOHANNESBURG – April 23, 2019 – As the demand for the automation of security and other systems in buildings and large construction sites around the world grows, so we are seeing a significant and related increase in the demand for building management systems (BMS).

Recent technological advancements in the building and construction industry, as well as the growing use of Internet of Things (IoT) technology in building automation systems, added to increasing demand for energy-efficient systems and the growing penetration of smartphones in building automation, are all playing a role in fuelling the growth of the BMS industry across the globe.

So says Glenn Noome, director at Smart Integration, an Ullwembu Business Services organisation, which is itself a South African black-owned management consulting and ICT services company. He explains, “A recent survey by Radiant Insights, 'Global Building Management System Market Size, Status and Forecast 2025', stated that there are several additional factors influencing the ongoing BMS market growth.

“These include cost efficiencies, the increasing adoption of building management systems within both the commercial and residential spaces, simplified building operations, and lower maintenance. Furthermore, favourable government initiatives and schemes to promote energy-efficient and eco-friendly buildings are expected to offer numerous growth opportunities for industry players and vendors across the globe, says the study.

“In South Africa in particular, the recent resurgence of load shedding has meant that both companies and individuals are more focused on energy efficiency than ever before. Thus there is a growing demand for a method of managing heating, ventilation, and air conditioning (HVAC) and lighting systems in particular – due to their power hungry nature

- more effectively, and BMS can offer just this.”

A significant focus area for Smart Integration, the organisation has drilled down into the holistic requirements of BMS, outlining five vital areas, namely: data and fibre installations; utility solutions; security, access control, lighting and CCTV; monitor and control centre; and fire protection.

Data and fibre installations

Data and fibre installations are the cornerstone of BMS, says Noome. “The IP-based network forms the base infrastructure for most other BMS subsystems,” explains Noome. “These include CCTV, access and lighting control, telephone and alarm systems, as well as boardroom solutions, which are all IP-based systems that need to run on a stable, cabled backbone such as fibre or copper.”

Utility solutions

“Companies minimise and manage their utility (water and energy) consumption for two reasons,” explains Noome, “and these are to reduce costs, and to support their corporate sustainability and environmental responsibility initiatives. These boxes can easily be checked



Glenn Noome,
director at Smart Integration

by utilising smart water and electricity meters, alternate energy solutions, controlled lighting systems - and even blind control to minimise heat from the sun in the office or working environment.”

Security, access control, lighting and CCTV

“For local businesses, security is obviously a top priority. A CCTV surveillance system can deter, monitor and record activities within the premises that may include theft, intrusion and harm to persons. The system is able to raise early alerts to enable the correct response. In addition, footage can be used in criminal cases that may result from these activities, and used to identify the perpetrators.”

Monitor and control centre

Noome clarifies that remote monitoring and reporting capabilities should be used to support the centralised management and control of the building and the related activities within the physical environment. “Data gathered and analysed can provide useful information for clients to identify trends, reduce false alarms, monitor and manage consumption of energy and water, and make prudent management decisions that support optimal security and effective building management,” he says.

Fire protection

Fire prevention, detection and suppression is a must in any populated environment. Fire protection systems must be designed, tested and inspected according to the applicable regulations, codes and standards to ensure safe working and operational conditions even in harsh environments.

“Building management systems are installed with the aim of creating secure, reliable buildings by giving access to the control and monitoring of activities such as ventilation, lighting, power control, data and fibre installation, data centre management and control, fire and security

systems, lifts, plumbing systems and so on,” says Noome.

“The greatest advantages of BMS include efficient management and controlling of energy consumption, central and remote monitoring of the building, facilitating the safety and security of data, the stimulation of internal comfort conditions for the occupants of a building, and facilitating a longer life span for the building in general. At Smart Integration, we note the recent technological advances in the building and construction industry and anticipate a growth in the BMS arena moving forward,” concludes Noome.

About Ulwembu Business Services:

South African black-owned management consulting and ICT services company, Ulwembu Business Services, facilitates the transformation of private and public enterprises into optimised, digitised organisations, through its specialised technology and business consulting services offering.

A value-driven business with a reputation for innovation, integrity and consistency, Ulwembu Business Services is comprised of five companies that focus on key areas of ICT for leveraging technology, people and processes to create sustainable value for its clients.

Ulwembu Business Services has been verified as a Level One Contributor with 135 percent procurement recognition, in an independent audit by Honeycomb BEE Ratings.

About Smart Integration:

Smart Integration, an Ulwembu Business Services organisation, is a service provider and aggregator of advanced automation and security systems, data centre infrastructure and data cabling. The company is a strategic business partner for building management systems and a respected provider of customised control and automation solutions.

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PROUDLY ASSOCIATED WITH THE CONSTRUCTION OF SANLAM TOWER ALONG WAIYAKI WAY

First phase expansion of Atterbury's Mall of Cyprus opens

Building on the success of the strongest mall in Cyprus, Atterbury Europe's first phase Mall of Cyprus expansion has opened to shoppers with an added 6,000sqm of retail space, 15 new retail brands, six new food and beverage concepts and 300 extra parking spaces.

This approximately €30 000 000 expansion of the Mall of Cyprus is designed to further Atterbury Europe's strategy to maximise the value of its assets. Atterbury Europe grew out of the leading South African property investor and developer Atterbury. Atterbury co-invested with a consortium of private investors to launch Atterbury Europe in 2014, which is headquartered in Leiden in the Netherlands.

“Atterbury Europe's extension of Mall of Cyprus has proven to be an instant success and attracted more than 100,000 visits over its first trading weekend,” reports Pieter Olivier, Development Manager in Cyprus.

A major focus of the Mall of Cyprus expansion was to create an exceptional food court and dining area that would act as a vibrant leisure node. The mall's food court was relocated and modernised, and six brand-new dining choices have been added to its variety. The new food court is designed to be a drawcard for leisure and a night out and now features exterior verandas that add a whole new dimension to its experience.

The mall's parking area has also been upgraded. Two extra levels, a mezzanine and a first floor, have been added to the existing basement and ground floor, allowing for 300 new additional parking spots across the four levels of structured parking. Most parking spaces are now under cover. Circulation between levels is easy for cars and pedestrians can access The Mall of Cyprus entrances effortlessly via staircases and lifts.

“For the Mall of Cyprus expansion, we focused on enhancing the mall's offering to its customer base with the best design practices and wisdom gained over the last 25 years as a developer,” Atterbury

Group CEO Louis van der Watt.

Atterbury is celebrating 25 years of developing prime office, industrial, retail, mixed-use and residential property across South Africa, the rest of the African continent and, most recently, in Europe.

Continuing its excellent track record, Atterbury Europe in conjunction with Atterbury completed the highly complex Mall of Cyprus first phase expansion project comfortably within its original time frame to open at the end of March.

“Construction projects on existing, tenanted and trading shopping centres are much more complicated than a new build. The safety, accessibility, convenience and comfort of customers and tenants must be managed over and



Louis van der Watt
Atterbury Group CEO and
Nicos Shacolas,
owner of the Shacolas group



Nicos Shacolas,
owner of the Shacolas group,
Nicos Anastasiades Cypriot
President and Louis van der Watt
Atterbury Group CEO

above the normal challenges of construction. Considering the complicated nature of the project, we were fortunate to have a fantastic team managing the mall as well as a quality contractor and professional team managing the project," notes Pieter Olivier.

In the second phase of the expansion, which will be completed in July 2019, the former food court areas will be converted to entertainment and retail areas. This will introduce more new stores and several existing shops will be strategically relocated to optimise adjacencies.

The Mall of Cyprus extension and upgrade, dubbed 'Expanding Experiences' is creating unique shopping, leisure and entertainment experiences, and a favourite destination for families. It introduces great new retail brands from Cyprus and abroad.

"With this expansion, Mall of Cyprus is now a perfectly sized package of ingredients to retain and grow our customer base and remain dominant and competitive in our market," says Pieter Olivier.



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CHWAI TRADING AND PROJECTS – BUILDING LIVES, COMMUNITIES AND AFRICA

Chwai is the company leading innovative solutions to aid black-owned construction companies to thrive in South Africa's current infrastructure.

Current concerns about large construction companies' financial ability to take on massive projects, could pave the way for smaller construction companies to bridge the gap.

Clive Rumsey, a construction law expert at Hogan Lovells believes that middle-tier black-owned companies have the opportunity to benefit from the disintegration of large construction companies and improve the country's infrastructure.

This is the exact need that Chwai fills. Their implementation of smart solutions in their project and trading tiers are aimed at reducing financial pressure in the construction industry through supplying contractors with building supplies, materials, products and a variety of support services.

The reduction of financial pressure is an issue outlined in a case study below, published by the Construction Industry Development Board (CIDB). It states:

'In order to derive the maximum benefit from the available budget for infrastructure spend, it is important to contain the costs of infrastructure and to reduce any pressure on the available financial resources to fund

government's infrastructure programme.' The five primary factors that contribute to construction cost are: construction work items, resource factors, project factors, stakeholder requirements and macroeconomic factors. Chwai's services are designed to streamline these issues and reduce costs.

To bolster this vision, Chwai's Projects tier is dedicated to establishing partnerships with government, NGOs and the private sector to expand their unique solutions strategy. By partnering with Chwai, there is an opportunity to work together and find a shared solution to reduce financial stress present in the construction industry.

To further their services to the construction industry, Chwai plans to introduce an additional three tiers: investment, technology and a foundation.

Chwai was formed in 2009 and operates primarily as a construction support services company, as well as, a supplier of building material and associated hardware products to master builders, building contractors, home improvers and private developers.

Chwai is devoted to building lives, building communities and building Africa.

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EPP obtains funding for tranche 2 of M1 transaction

JSE-listed EPP successfully completed an equity raise of ZAR 1.45 billion equating to approximately EUR90 million. The Polish retail company will use the equity to fund tranche 2 of its M1 portfolio transaction. The company expects to complete tranche 2 of the M1 transaction by June of this year. The deal is expected to add an additional 184,000 sqm of retail GLA to EPP's portfolio.

"We're pleased with the market's faith in our growth plans. This equity raise provides us with more liquidity ahead of the next step in our M1 transaction, but more importantly it will give us the ability to continue to deliver strong returns to all of our stakeholders," said EPP CEO, Hadley Dean.

EPP was the top performing stock in the listed property sector on the JSE last year and the company announced its third year of record returns last month.

"Our strategy to invest throughout Poland's wealthiest cities, is continuing to be fruitful, especially in the light of Poland's expanded social programmes, sure to fuel consumer spending in the next year," said Dean.

The equity raise was offered to investors through an accelerated bookbuild process on the JSE and LuxSE and adds a new significant new equity investor with a stake of EUR 75 million.

EPP is the largest owner of retail real estate in Poland. It operates like a REIT, with a current portfolio of 19 retail properties, six office buildings and two development sites in Warsaw, with one currently under construction, offering a total of over 835,000 sqm in Poland's most lucrative cities.

EPP is committed to providing the best possible rates of return as well as great shopping experiences. EPP is listed on the stock exchanges in Johannesburg (JSE) and Luxembourg (Euro MTF).



Hadley Dean,
CEO of EPP

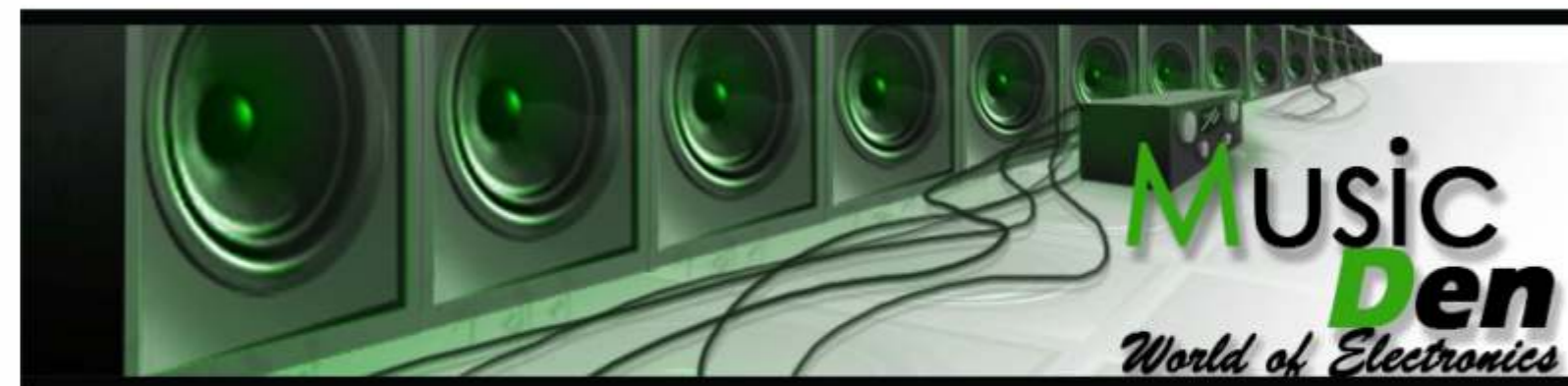


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New-look Game store opens in Springs Mall

Game has opened at the award-winning 50,000sqm Springs Mall in response to shopper demand in a great retail location which has built a compelling track record of positive trading.

The new Springs Mall Game store spans 3,600sqm featuring the brand's innovative new look and layout. It is paired with a 120sqm Game Liquor.

With its opening, the store became the brand's 122nd in South Africa, and Game became the fifth anchor tenant at Springs Mall, joining Checkers, Pick n Pay, Woolworths and Edgars.

It has also become the sixth Game store to open in the Flanagan & Gerard portfolio of shopping centres. Game already trades successfully from stores at the Flanagan & Gerard co-owned Highveld Mall, Middelburg Mall, Mall of the North, Vaal Mall and Ballito Junction.

All in all, Game stores account for nearly 30,000sqm of the gross lettable area across Flanagan & Gerard's total 455,000sqm shopping centre portfolio. With the latest Game store opening, some 11% of the leading South African property developer and investor's gross lettable area is occupied by the different brands under the Massmart umbrella.



Game opening at Springs Mall

"We are thrilled to extend our relationship with Massmart and specifically Game at Springs Mall. Game has proven a firm favourite with shoppers at many of our shopping centres, and with its innovative new store concept it is proving to be an enduringly popular player in our markets," says Paul Gerard, MD at Flanagan & Gerard, which also manages Springs Mall.

Springs Mall is a joint venture between Blue Crane Eco Mall (Pty) Ltd, Flanagan & Gerard Property Development & Investment, JSE-listed retail REIT Vukile Property Fund and Murinda Investments, which is part of the Giuricich Bros Group.

Its long-awaited new Game store launched as one of the very first with the brand's fresh concept, featuring a redesigned store layout that includes consumer-friendly features. Adding to the retail variety at Springs Mall, it includes Game's food offering and a big range of 'white goods'.

Albert Voogd, CEO of Game Stores, says "We've designed this store with customer behaviour at heart. So you'll experience a store that has wider aisles, lower shelves, clear signage that makes moving through the store a seamless experience. We're so happy to finally bring Game to Springs with our wonderful team of people ready to help our customers. We also look forward to making a positive impact in the community for years to come.

Flanagan and Gerard's relationship with Massmart goes well beyond its role as a mall owner and manager and also extends to property development. It has also co-developed the 17,000sqm premises of Makro Vaal in Vanderbijl Park with Moolman Group and, more recently in 2018, a 3,200sqm Builders Express at Thavhani City in Thohoyandou.

Optog! 2019 boosts local talent and entertainment

There's a brand-new travelling festival that celebrates local music, theatre and culture... and it's coming to a theatre near you.

Get ready for Optog! 2019, a proud initiative of the Atterbury Trust, with 250 shows featuring 25 different artists and performers on 55 unique stages.

Optog! will be visiting towns and villages across South Africa and Namibia over the next seven months, from Bela-Bela to Beaufort West, Witbank to Windhoek, and just about everywhere in between.

This ground-breaking cultural initiative is a natural extension of the Atterbury Theatre, which represents Atterbury Trust's commitment to promoting performing arts and developing talent. It is one of the best concert theatres in the country and operates at full capacity with sold-out shows.

Optog! leverages the expertise, resources and networks that have been built since the theatre first opened in 2011. It extends Atterbury Theatre's audience and Atterbury Trust's positive impacts on communities around the country and beyond.

The travelling showcase of talent and culture is both nostalgic and new. In the past, performers used to tour around the country to put on shows. This tradition has all but disappeared with the advent of big festivals. Optog! is intended to be a revival of small-town theatre performances and traditions.

Zahn Hulme, Executive Trustee of Atterbury Trust, says: "South Africans love to be entertained, but it is often an extremely costly and tricky experience for performers to tour alone, and opportunities are limited. So, we've harnessed the expertise, resources and networks of Atterbury Trust and the Atterbury Theatre in a coordinated effort to take shows on the road again, bring families and friends

together to be entertained, and connect performers and their audiences in communities big and small, near and far."

Hulme adds, "Optog! 2019 lets people enjoy great entertainment in their very own community and, at the same time, it creates opportunities for artists to perform and promotes the arts and Afrikaans culture, which is one of the goals of the Atterbury Trust."

What is more, the Atterbury Trust plans to leave something of real value behind in every community that Optog! visits. It will do a little something to improve or enhance local theatres at almost every stop on the tour.

Optog! has also attracted the support of likeminded sponsors such as King Price, Lekkeslaap, ATKV, Afrikaans.com, Vintales, Sarie, Die Groot Ontbyt, Tsogo Sun and NTT Volkswagen.

Thanks to this collaboration, every concert is a colourful celebration. The Optog! busses are packed with a festive variety of the best music and theatre entertainment. Headline artists include Nataniël, Laurika Rauch, Jo Black and Karen Zoid.

Optog! kicked off in Stellenbosch in February, and the first Optog! shows have been sell-out successes. "We are thrilled with the warm and enthusiastic response that Optog! is receiving, and we look forward to sharing this roadshow with even more communities as the year progresses," says Hulme.

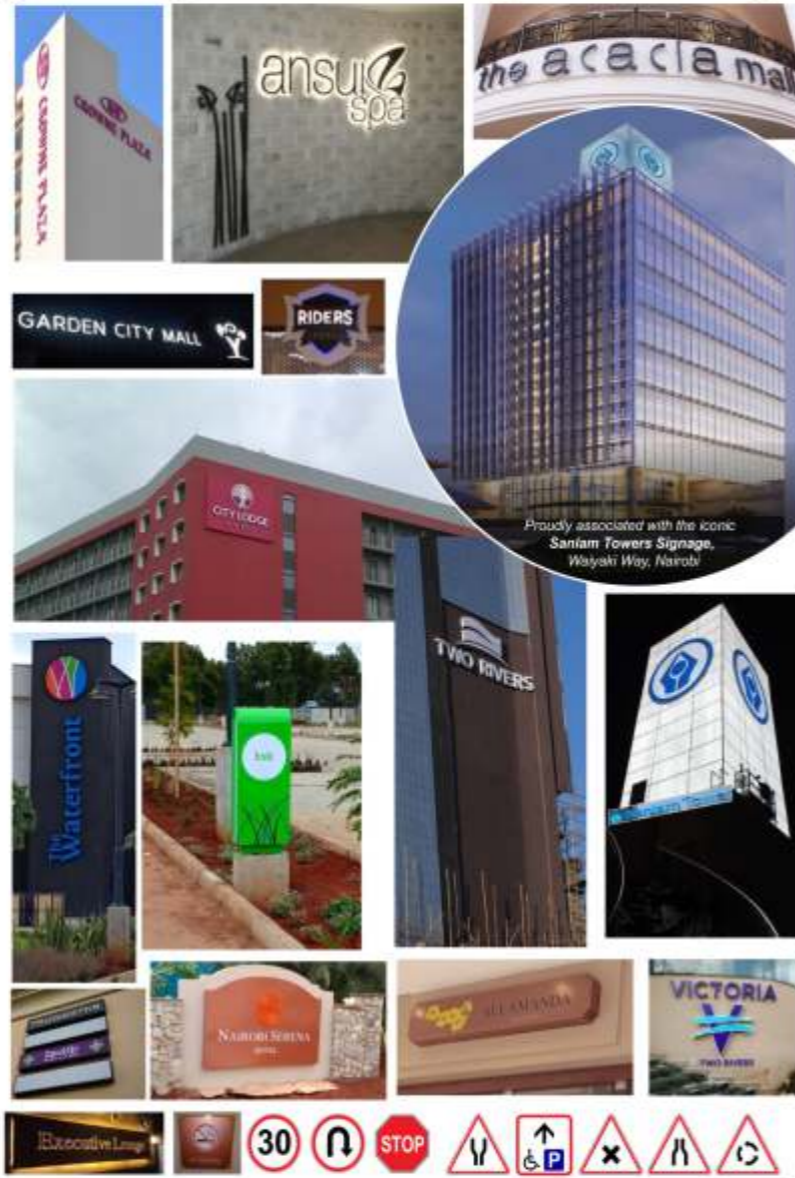


Nataniël and Jo Black

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Towers Main transfers to Divercity and exciting redevelopment begins

The iconic 30-storey Towers Main building in Johannesburg's ABSA Precinct now has a new owner and a new lease on life.

Divercity Urban Renewal Fund has taken transfer of Towers Main and is giving it an exciting new future and an innovative redevelopment that will extend the lifespan of this landmark on the Joburg Skyline. The game-changing development will be valued at over R400m once completed.

The WBHO / Motheo Joint Venture has been appointed as the contractor for the project and is already on site. The first steps in constructing the next chapter of this tower have already begun. A hoist has been erected up the entire elevation of the 140-metre tall building, one of the city's 10 tallest buildings, and will be used to take materials to the upper floors. Hoarding has also been carefully positioned around the base of the property.

The Towers Main redevelopment initiative is a substantial investment in inner Joburg by Divercity, a new investment fund. Its purpose is to renew and re-energise South Africa's urban centres by developing unique inner-city precincts. Its key shareholders and stakeholders are Atterbury Property, Ithemba Property and Talis Property Fund, and its cornerstone investors are RMH Property and Nedbank Property Partners.

Divercity integrates commercial buildings and affordable residential accommodation to create multifunctional, inclusive and diverse neighbourhoods.

Towers Main is being redeveloped into a one-of-a-kind mixed-use address, including 520 affordably priced residential rental apartments. ABSA, a key partner in this project, will also be leasing back nine floors with 10,000sqm of office space in the redeveloped building.

From the outside, the building will be visually

transformed, with its existing façade being completely removed and replaced with a brand new one.

Changes inside the building will be equally dramatic as it is repurposed. "The building is very well suited to a residential conversion, with lots of natural lighting. We're using a special lightweight brick to limit the load on the existing structure. It is designed to be long-lasting, with quality, durable materials used to construct cost-effective, resilient units," confirms Derrick Pautz, Atterbury Development Manager.

The residents and employees of the building will enjoy an entire floor of coffee shops, restaurants and recreation. On ground floor, they will be able to access all the amenity of convenience retail, child care facilities, a public park, integrated public transport facilities and a wealth of public art.

The 20 floors of dedicated residential accommodation and recreation will be launched in phases, with the first residents expected to move into Towers Main as early as the end of this year. Most units, however, will become available in the first quarter of 2020. ABSA is also expected to reoccupy the towers early in 2020.



Divercity
ABSA TOWERS Architectural renderings



Divercity
 ABSA TOWERS
 Architectural renderings

“Towers Main will bring new life back into the CBD, enable people live closer to where they work and help them to benefit from more disposable income as a result of saving time and a fortune in transport costs. Not only is it set to

help address the city's housing backlog, but by giving people all the amenities that they need and want to enjoy quality of life, it will be more than just a place to live.”

Divercity is deeply committed to the Joburg inner city and its urban regeneration. In addition to creating an inclusive new world-class 'live, work, play' environment, the redevelopment of Towers Main in the ABSA Precinct is about much more than a single, albeit iconic, building. The project is also designed to rejuvenate the entire surrounding area as part of a wider neighbourhood development initiative. Towers Main connects with Divercity's other major project in Jozi, the mixed-use Jewel City, which is also making excellent development progress. Jewel City, in turn, connects to the vibey Maboneng. A pedestrian-friendly walkway will run all the way through all three precincts, an area the length of around 10 city blocks, complete with street furniture, lighting and art.

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Brokk Introduces New Hydraulic Breaker Series

MONROE, Wash. (April 10, 2019) — Brokk, the world's leading manufacturer of remote-controlled demolition machines, launches its own line of hydraulic breakers. The new Brokk Hydraulic Breaker (BHB) series is perfectly matched with the company's full range of remote-controlled demolition robots. In essence, each robot is designed from the attachment backward, providing the exact amount of flow, pressure, backpressure, and downward force that the hammer requires, which offers the best possible demolition performance to Brokk customers.

Brokk highlighted the new series at World of Concrete 2019 and bauma 2019.

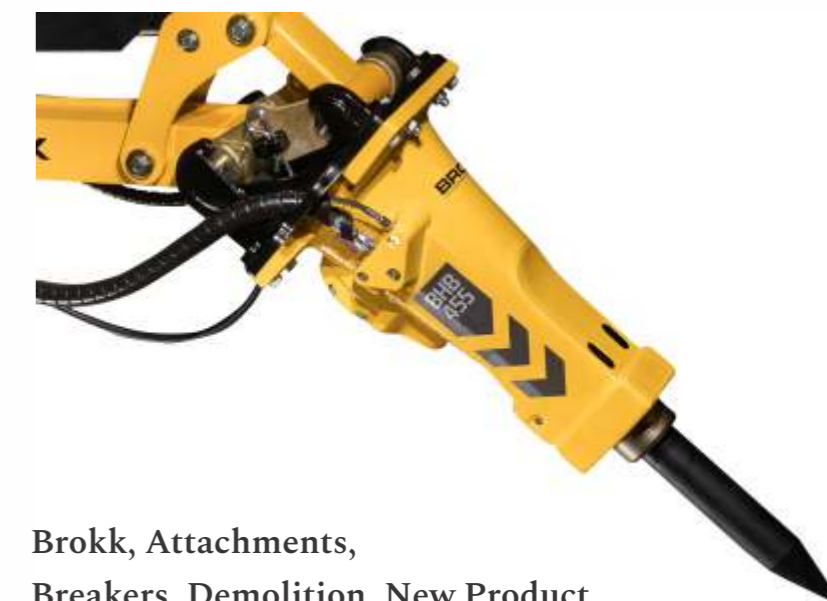
“As an industry leader in compact demolition, it makes sense for us to introduce our own lineup of powerful hydraulic breakers to match the high strength and performance of Brokk demolition machines,” said Martin Krupicka, president and CEO of Brokk Group. “Our customers benefit from the greater productivity, efficiency and quality that comes with the pairing of Brokk breakers and machines.”

The BHB series includes eight breaker models, starting with the 110-pound (50-kilogram) BHB 55 breaker for the compact Brokk 60 remote-controlled demolition machine. The range goes all the way up to the 1,543-pound (700-kilogram) BHB 705 for the recently introduced Brokk 500 and Brokk 520D.

Like Brokk remote-controlled demolition machines, the BHB series features a high power-to-weight ratio. The attachments are lightweight and compact, yet feature power similar to larger, heavier breakers from other manufacturers. The hammer bodies are machined from a solid casting, eliminating side and through bolts, along with the side plates found on many other hammer designs. An integrated, side-mounted accumulator holds a nitrogen gas charge for as long as a year.

Brokk demolition robots and breakers are designed to work at maximum performance together, resulting in more total demolition power. Brokk engineers its demolition machines starting at the tip of the breaker for maximum compatibility. This includes reducing back pressure and optimizing machine oil flow, oil pressure and down pressure to allow for more hydraulic power while using less energy. The result is that pound for pound, Brokk demolition robots provide the highest power-to-weight ratios in the industry, allowing contractors to substitute robots for much larger excavators, and achieve the same concrete removal rates.

About Brokk Inc. Brokk Inc. has been the world's leading manufacturer of remote-controlled demolition machines and attachments for 40 years. Through continuous innovation in engineering and design, Brokk is able to offer unique solutions to multiple industries worldwide, including construction, demolition, mining and tunneling, cement and metal processing, nuclear and other specialty applications.



Brokk, Attachments, Breakers, Demolition, New Product

Haver & Boecker Canada Welcomes New Service Managers



Haver&Boecker_LuigiPetrucci

ST. CATHARINES, Ontario (April 5, 2019) — Haver & Boecker, a leading equipment manufacturer and solutions provider in aggregates and mining applications, hires Wilm Schulz and Luigi Petrucci to lead its Service Department at the company's manufacturing facility in St. Catharines, Ontario, Canada. Schulz will head the North American service team as parts and service manager. Petrucci joins as assistant manager of parts and service. Stepping into leadership roles, these two look to uphold the commitment to customer efficiency that has become synonymous with Haver & Boecker and its Service Department.

The addition of Schulz and Petrucci adds 24 years of industry experience to a veteran team of service technicians, engineers and customer service specialists. This knowledgeable crew ensures prolonged life and increased efficiency

for Haver & Boecker equipment by offering Pulse vibration analysis, refurbishments, machine repair and preventative maintenance.

"At Haver & Boecker, ensuring our customers' productivity is our priority," said Karen Thompson, Haver & Boecker Canada president. "The Service Department is an integral part of our business, which will benefit greatly by the experience and know-how both Wilm and Luigi bring."

Before moving into their current roles, Schulz and Petrucci worked with Haver & Boecker Canada in different capacities. Schulz has been with the company for over 10 years, spending the last two years as plant manager. Petrucci worked in the company's engineering department for eight years before moving into the service department for six years.

"Our team doesn't only look for a quick fix for the problem at hand," Schulz said. "We analyze the whole operation and offer solutions that increase customers' productivity. I'm excited to be part of a team that's dedicated to providing viable long-term solutions for its customers."

About Haver & Boecker Canada
Haver & Boecker Canada, formerly W.S. Tyler, is a leading provider of processing, handling, mixing, packing, filling, palletizing and loading systems. The company's mission is to deliver the best of these technologies to the marketplace. With deep roots and years of experience in these industries, the company effectively meets the needs of customers around the world. Haver & Boecker Canada, 225 Ontario St., St. Catharines, ON L2R 7B6; phone 800-325-5993, fax 905-688-4733;



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Haver & Boecker Expands Global Mineral Processing Presence with Haver & Boecker Niagara Brand



Originally born in Germany, the heavy-duty screening technologies, such as Niagara eccentric, break barriers when it comes to the lowest cost per ton in scalping.

MÜNSTER, Germany (April 24, 2019) — Haver & Boecker has established its global brand Haver & Boecker Niagara to combine the engineering expertise and product portfolios of its three mineral processing locations in Brazil, Canada and Germany. In the past, the three locations acted individually for their respective regions and territories. Customers around the world will benefit from shared innovative technology, more in-depth consultations, greater parts availability and better delivery times.

Haver & Boecker announced the new, global brand Haver & Boecker Niagara during bauma 2019.

“Niagara now stands for a new, global drive in processing technology,” said Adrian Gamburgo,

director of corporate business development at Haver & Boecker OHG. “These three Niagara locations will join forces and together focus on developing innovations in screening, washing and pelletizing technology, as well as increasing their regional service reach.”

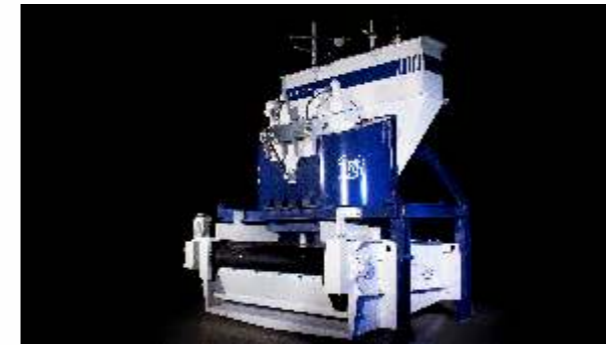
The word Niagara means “thundering water,” echoing the sound made by the famous water falls on the border between the U.S.A. and Canada. Due to the similarities between the water running over the edge of the falls and the mined product coming off of the deck of a vibrating screen, the Niagara name was chosen as the brand name for Haver & Boecker’s and W.S. Tyler’s vibrating screens almost 85 years ago.

“Finding the name for this entity was easy — we went back to our roots,” Gamburgo said. “The name Niagara carries so much heritage, but at the same time holds so much promise for the future.”

“All companies that share the Haver & Boecker name are dedicated to providing premium solutions and first-class service to every industry we serve,” says Florian Festge, Haver & Boecker OHG managing partner. “Combining the best of three worlds into one processing powerhouse means only good things for our customers, allowing for improvements in terms of unique process design, state-of-the art engineering services, increased product quality and improved service.”

Haver & Boecker Niagara combines talents and skills in four major areas:

*Heavy Duty Scalping — Originally born in Germany, the heavy-duty screening technologies, such as Niagara eccentric, break barriers when it comes to the lowest cost per ton in scalping. Using this key technology,



Haver Niagara has introduced new approaches to washing and pelletizing using the award-winning Hydro-Clean Washing System (pictured) and the one-of-a-kind Scarabaeus Pelletizing disc.

Haver & Boecker Niagara designs complete scalping plants, customized to meet every aspect of the customer’s product requirements as well as personal preference.

*Full Circle Consultation — Created in Canada, Haver & Boecker Niagara’s signature PROcheck invites the customer on a complete tour of their own screening process. It starts with a review of the process design, including the application of the correct vibrating screen, such as the revolutionary F-Class. It then covers high-performance screen media deck set-ups using Tyler engineered media. PROcheck adds a wealth of service tools and strategies to any customer’s plant, which even include Uptime warranties.

*Wide Body Screening — Innovated in Brazil, Haver & Boecker Niagara made a mark on the industry with its signature XL-Class high-capacity vibrating screen. This powerful machine is driven by the in-house-designed-and-built exciter units targeted at improving overall screening efficiency. With a total capacity of up to 15,000 tph, the XL-Class is the biggest vibrating screen in the world.

*Washing & Pelletizing — Haver Niagara has also introduced new approaches to washing and pelletizing using the award-winning Hydro-Clean Washing System and the one-of-a-kind Scarabaeus Pelletizing disc. Both technologies are designed to minimize the waste of

resources by transforming materials which were previously dumped into new products and allowing them to be sold at attractive prices.

Peter Grotjohann, managing director of the German location, is passionate about the new opportunities, citing the benefits of a worldwide portfolio for Haver & Boecker’s multinational customers as well as those with more regional enterprises. “By sharing technology, knowledge and processes, Haver & Boecker Niagara allows our customers access to industry-leading innovations and while at the same time increasing local insight and service they can only come to expect from Haver & Boecker,” Grotjohann said.

“Haver & Boecker Niagara has earned the trust and respect of customers in Brazil and across Latin America with our robust, high-capacity machines, tailor-made solutions, and dedicated service,” said Ronaldo Camargo de Souza, managing director of the Brazil location. “With this unity, we are looking forward to sharing our XL-Class vibrating screen technology, as well as our entire portfolio of solutions, products and services with the rest of the world.”

Karen Thompson, president of the Canadian operation, emphasized how going forward it will be easier to share each company’s expertise and minimize redundancies in many areas of the business. “Each location has different yet complementary strengths. The union allows us to combine these strengths for better results for our customers and the industries we serve,” Thompson said.

“Our goal is to continue to find ways to improve our customers’ businesses and daily lives, whatever industry they work in,” Festge said. “Tapping into and combining our global network of experience gives us the ability to solve even the most unique of problems. The only question our customers and we should ask ourselves is why did we not do this a lot earlier?”

Haver & Boecker Niagara’s first mission will be exhibited at this year’s bauma trade fair in Munich. Driven by its motto “Perfect Flow for Our Planet Blue,” Haver & Boecker Niagara will

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NIAGARA

Haver & Boecker has established a new, global brand named Haver & Boecker Niagara, to combine the engineering expertise and product portfolios of its three mineral processing companies; Haver Niagara GmbH, Haver & Boecker Canada, and Haver & Boecker Latinoamericana.

introduce real customer experiences to its guests and visitors by taking them on a virtual tour around the globe by telling them about various plants and locations, all of which decided to minimize their impact on our beautiful plant by reducing the waste of resources.

Haver & Boecker Niagara falls under the

Machinery Division of Haver & Boecker, headquartered in Oelde, Germany. Beyond the processing equipment offered by Haver & Boecker Niagara, the machinery division specializes in material handling, packing, mixing, filling and palletizing technology for the cement, building materials, food, chemical and mining industries. The company's Wire Weaving Division produces thousands of various types of wire mesh for screening, filtration, automotive applications and laboratory technology, as well as architecture & design products.

About Haver & Boecker Niagara
Haver & Boecker Niagara is a leading provider in screening, washing, pelletizing and primary crushing systems. The company's mission is to deliver the best of these technologies to customers in the aggregates, mining, mineral processing, chemical and food industries. With deep roots and years of experience in these industries, Haver & Boecker Niagara uses its innovative and shared technologies to effectively meet the needs of customers around the world.



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The PIC increases its shareholding in Texton Property Fund



Marius Muller
CEO Texton Property Fund

The Public Investment Corporation SOC Limited (PIC) has increased its beneficial shareholding in Texton Property Fund, growing its stake in the JSE-listed SA REIT from 5.2% to a significant 18.9%.

With its amplified interest, the PIC has now become Texton's largest shareholder.

Marius Muller, CEO of Texton, says, "The PIC is a long-standing shareholder of Texton and we look forward to continuing to work closely with them and all shareholders on our journey

towards positive performance."

The PIC's increased holding in Texton follows the transfer of shares formerly held by Texton Broad-Based Empowerment (RF) Proprietary Limited to the PIC, after the empowerment entity defaulted on its loan with the PIC.

With its accountability to shareholders being an imperative for Texton, Muller notes that in recent months the company has made pleasing advances with several initiatives that place it on a better footing for the future.

He adds, "We know the road ahead isn't going to be easy given the amount of work that needs to be done around entrenching both sound business practices and critical property basics within the company. We're constantly challenging ourselves to find the best solutions to move Texton forward, and remain firmly committed to turning the ship around despite the economic environment being unsupportive and weak property fundamentals."

Texton is a diversified JSE-listed REIT (real estate investment trust) with total property assets valued at R5.2bn at 31 December 2018 - 61.8% by value in South African and 38.2% in the UK. It invests in assets ranging from offices, industrial and logistics facilities to retail properties. In South Africa, its investment is focused on quality, well-maintained properties concentrated in the country's metropolitan cities. In the United Kingdom, Texton's investment strategy targets high-yielding, single-tenant properties in strong secondary nodes.



The rise of Phoenix - Atlas Copco proudly supports South African robot competition team in the USA



Fifth Order FLTR Eben Steenekamp, Tianette Booyesen, Juan Oosthuizen, Stephan de Villiers, Francois Delport, Joshua Harmse, Marco Terblanche

The rise of digitalisation and automation is amplifying the keen focus towards innovations such as robotics. When Atlas Copco became aware that Hoërskool Waterkloof's robotic team, known as Fifth Order, was looking for assistance to compete at the First Tech Challenge (FTC) in the USA from 24-27 April 2019, the company came to the fore in support of the learners.

FTC is an international competition, which sees students from grade seven to twelve work in teams to design, build, and program and operate a robot that will contend in a head-to-head challenge in an alliance format. The programme aims to develop learners' science, technology, engineering and mathematics skills as well as enable them to practice engineering

principles under adult guidance and mentorship. In order to participate in the competition the teams must raise funds, build a robot, learn Java programming and promote the competition and their team within local communities.

"Atlas Copco is always eager to assist communities and encourage an interest in mathematics and science amongst learners, so what better way to do this than to support a team from South Africa to represent us at the international FTC competition," states Wendy Buffa-Pace, Group Human Resources Manager at Atlas Copco. "We sponsored branded Atlas Copco hoodies, caps and t-shirts for the Fifth Order team."

Every year since 2011, Hoërskool Waterkloof has entered two teams into the local First Tech Challenge. Based on their interest in robotics, any student at the school can apply to be part of the team. But a prerequisite to be a team member is that students must be committed and available to work on the project every weekend, as well as over the October school holidays when the challenge begins and in March when the National Competition is held.

The founding team chose their name after the First Order from Star Wars and used a TIE fighter as the team logo; both have remained with the team till this day. Aged between



The Fifth Order with their robot Phoenix

fourteen and sixteen, the current team includes Stephan de Villiers, Eben Steenkamp, Francois Delpont, Juan Oosthuizen, Tianette Booyen, Marco Terblanche, Joshua Harmse, two coaches and a mentor.

When the FTC challenge for the season was released in October 2018 Fifth Order began with their preparation, designing and building their robot 'Phoenix', programming it within Java using the LinearOpMode as well as marketing the team and competition in the local Pretoria newspaper as well as on Facebook and radio. Initially Fifth Order created five different prototypes which were created from cardboard and 3D printed parts to test different designs and features. Fifth Order utilised TensorFlow's advanced machine learning algorithms to program the required autonomics functions. Fifth Order finalised the design for Phoenix in January 2019 and worked 3-4 days a week over the next two months to have the robot ready for the local National Championship which took place on 02 March 2019 at Sci-Bono Discovery Centre in Johannesburg .

During the first 30 seconds of the game, known

as Rover Ruckus, the robots are required to perform specific tasks autonomously. Fifth Order won the robot challenge, scoring the highest overall point which earned them selection to represent South Africa at the International First Tech Challenge in Detroit, Michigan, USA.

The innovative robot features a single mechanised extendable and retractable arm that is fitted with a collection unit to collect the game items and score points. The arm is also used to latch the robot to a hook from where it is lowered onto and off the playing field at the start and conclusion of the game. This is achieved by using a smart servo attached to the arm that opens and closes a latching mechanism. In the build-up to the international competition the team replaced Phoenix's motors controlling the wheels and mechanised arm with stronger versions and refined the design of the collection unit.

The 2019 competition saw 160 teams from all over the world divided into two divisions - Edison and Ochoa - to battle for the coveted title. The Fifth Order team finished 37 out of 80 in the Ochoa division. This is a great result considering that this was Fifth Order's debut at this competition which is widely known across America. "Taking into account the high calibre of the American teams who received full corporate sponsorships are are coached by engineers that work in practice and have participated in the competition during their school years, it makes our local team's achievement all the more remarkable," notes Spokesperson for the Fifth Order team, Mireille (surname?).

"By comparison, our team was limited to the funds we as parents could contribute. Our

coaches are two of the parents who volunteered their time even though they had no previous experience with the competition. We had to cut sheet metal by hand for robot construction and most of the parts are second hand from the team that participated in last year's competition. We are very proud of our rookie team who overcame all these challenges through hard work and tremendous team spirit." The team will be showcasing their advanced robotic skills at the 'My Future 4.0'

Expo held on 18 May at the Ticket Pro Dome.

"Atlas Copco is extremely proud of Fifth Order for their dedication and exceptional robotics capabilities. It is not about winning or losing but rather that this team of intelligent teenagers has flown the South African flag high and paved the way for other learners who may also see their future in robotics," concludes Buffa-Pace.

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Proof's locally developed AMPgland cable gland range for safe, efficient cable sealing

AMPgland double-compression cable glands from Proof Mining Solutions is an all-inclusive, safe and efficient electrical installation solution for the mining and oil & gas industries. Developed, designed and manufactured locally by Proof, the AMPgland range includes the Orion, Crater and Taurus Exd.

The cable glands boast a unique, cutting-edge design that features two O-rings on the shielding cone that delivers unrivalled cable securing and sealing capabilities. "The double-compression O-ring offers double sealing, preventing the intrusion of contaminants such as water and dust which will be trapped between the two O-rings, preventing contact with armour, resulting in unparalleled protection," explains Proof Mining Solutions Director, Donovan Marks. In addition to achieving high strain relief and explosion proof protection, the special shape of the gland's lower and upper seal also earns it an IP 66/68 rating.

Installation of the AMPgland is straightforward, maximising operational uptime. "As long as the diameter of the used cable is within the declared clamping range, there is no need to change, remove or adjust any internal components," observes Marks. The swiveling 'shielding cone' for clamping armour is secured to the 'upper and lower body' by the O-rings, preventing the shielding cone from being lost during disassembly of cable gland during installation.

Customers and end-users also save on time and

costs when it comes to maintenance of the AMPgland which is easy and uncomplicated. The internal parts are fixed only with the O-rings and can therefore be easily removed with a simple 'pulling' movement during inspection without any risk of damaging cables.

The addition of these cable glands has boosted Proof's comprehensive flameproof product range of plugs, sockets, connectors, adaptors, couplers, plug couplers and luminaires (Azolite). "With our expanded offering which now includes the cable, the connector and the AMPgland, Proof is perfectly positioned as a turnkey solutions provider for virtually any electrical installation," concludes Marks.

Proof Mining Solutions, a Division of Hudaco, has cornered the Southern African mining and industry markets as a leading manufacturer and supplier of a wide range of flameproof and explosion proof products. The company incorporates the latest technology in the design of its comprehensive range of electrical components suitable for both underground and above ground mining applications. Round-the-clock, countrywide specialist support from Proof's highly qualified team of technicians keeps downtime to the absolute minimum to assist customers in achieving maximum productivity and ultimately profitability.



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