

African Review

August 2015

of BUSINESS and TECHNOLOGY

P50



**Annual
Construction
Buyers Guide**

P86

Chemical supply to infrastructure sectors



Technology

T Systems' A J Hartenberg
on cloud computing **P30**

Power

Solar power projects,
East and West **P36**

Mining

New chutes for South
African platinum mine **P90**

INSTALL CONFIDENCE.

Cat® Electric Power Parts

You purchased your Cat® power system for a reason. Maybe it was its exceptional power, life span, efficiency, dependability or its global dealer support. So when it comes to maintaining it, give it the parts that made it great – install genuine Cat parts.

BUILT FOR IT.™



Learn more at ElectricPowerSupport.cat.com/en_ZA

Editor's Note

This issue of African Review of Business and Technology assesses developments in technology, finance, transportation, power, construction and mining.

Between pages 20 and 31, there are reports on investment in Angolan business, on Islamic investment and banking operations, on trade between India and Nigeria, and on the adoption of cloud computing technology.

Transport and logistics concerns are addressed on pages 32 and 33, with articles on intermodal policies in East Africa and on automation of cargo delivery.

The economic gains already accrued and in prospect from renewable energy sources, and also from the ever-present demand for generators, are assessed between pages 34 and 46.

However, the construction industry forms the core focus sector of this month's issue, with a comprehensive annual Construction Buyers Guide placed alongside analyses of infrastructure developments and innovative equipment from page 48 to 87.

This issue's coverage of key developments in the mining sector, from page 88 to page 92, include the integration of a high-speed communications network in a platinum mine, new chutes for material handling, and the supply of machinery and systems to serve plant operations.

Andrew Croft, Editor



Main cover picture: Chryso Chemicals
Inset, bottom left: T Systems
Inset, top left: Caterpillar

Contents



P88



P32



Audit Bureau of
Circulations -
Business
Magazines

African Review of BUSINESS and TECHNOLOGY

Editor: Andrew Croft
andrew.croft@alaincharles.com

Editorial and Design team: Bob Adams
Prashant AP, Hiriyeti Bairu, Sindhuja Balaji
Thomas Davies, Ranganath GS, Tom Michael
Rhonita Patnaik Prasad Shankarappa, Zsa Tebbit
Lee Telot, Louise Waters and Ben Watts

Publisher: Nick Fordham

Publishing Director: Pallavi Pandey

Advertising Sales Manager: Roman Zinenko
Tel: +44 207 834 7676 Fax: +44 (0) 20 7973 0076
Email: roman.zinenko@alaincharles.com

China: Ying Mathieson
Tel: +86 10 8472 1899 Fax: +86 10 8472 1900
Email: ying.mathieson@alaincharles.com

India: Tanmay Mishra
Tel: +91 80 65684483 Fax: +91 80 40600791
Email: tanmay.mishra@alaincharles.com

Nigeria: Bola Olowo
Tel: +234 80 34349299
Email: bola.olowo@alaincharles.com

UAE: Camilla Capecce
Tel: +971 4 448 9266 Fax: +971 4 448 9261
Email: camilla.capecce@alaincharles.com

UK: Steve Thomas
Tel: +44 20 7834 7676 Fax: +44 20 7973 0076
Email: stephen.thomas@alaincharles.com

USA: Michael Tomashesky
Tel: +1 203 226 2882 Fax: +1 203 226 7447
Email: michael.tomashesky@alaincharles.com

Head Office:
Alain Charles Publishing Ltd, University House,
11-13 Lower Grosvenor Place,
London SW1W 0EX, United Kingdom
Tel: +44 20 7834 7676, Fax: +44 (0)20 7973 0076

Middle East Regional Office:
Alain Charles Middle East FZ-LLC, Office 215,
Loft No 2/A, PO Box 502207, Dubai Media City,
UAE, Tel: +971 4 448 9260, Fax: +971 4 448 9261

Production:
Charlie Burns, Priyanka Chakraborty
Nikhith Jain, Nathanielle Kumar
Donatella Moranelli and Sophia Pinto
E-mail: production@alaincharles.com

Subscriptions: circulation@alaincharles.com
Chairman: Derek Fordham
Printed by: Buxton Press

Printed in: July 2015

US Mailing Agent:
African Review of Business & Technology, USPS.
No. 390-890 is published 11 times a year for US\$140 per year by
Alain Charles Publishing, University House, 11-13 Lower
Grosvenor Place, London SW1W 0EX, UK. Periodicals postage paid
at Rahway, New Jersey. Postmaster:
send address corrections to Alain
Charles Publishing Ltd, c/o Mercury
Airfreight International Ltd, 365
Blair Rd, Avenel, NJ 07001.
ISSN: 0954 6782
Serving the world of business

Agenda / North

Major Egyptian energy contracts awarded to Ansaldo Energia

Ansaldo Energia, which is 44.8 per cent owned by **Fondo Strategico Italiano**,

Strategico Italiano, has been awarded three major contracts in Egypt worth over EUR240mn.

The first two, Al Shabab and West Damietta, cover the conversion to combined cycles of two power plants owned by **Egyptian Electricity Holding Co**, the **Egyptian Government Electricity Authority**, which manages over 90 per cent of the country's power generation capacity. They entail the supply and commissioning of three steam turbines rated 265MW each, including the relative hydrogen-cooled generators, air condensers, transformers and auxiliary systems.

The third contract is for the supply of two AE94.2 gas turbines rated about 170MW each (in ISO conditions) and the relative generators, plus engineering, erection and startup services for the open cycle power plant at Al Mahmoudia (Al Buhayrah State) assigned by **Elsewedy Power System Projects International**, the leading provider of power generation products in the Middle East and Africa.

The success of these three major initiatives reflects the level of satisfaction and appreciation shown in Ansaldo Energy by Egyptian customers on the back of the quality and reliability demonstrated by recent supplies of turbogenerators.

With these orders, Ansaldo Energia has installed over 4,000MW of power generating capacity in the country and confirms its ranking as one of the most important OEMs in Egypt.



Ansaldo Energia awarded three major contracts in Egypt worth over EUR240mn

Rabat contracts averda for urban waste management

Integrated waste management solutions provider **averda** has been awarded a seven-year contract to provide the Moroccan capital Rabat with city cleaning services. The award follows a competitive international tender involving renowned multinationals from the field of waste management. averda chairman Maysarah Sukkar said, "We are pleased to have been selected again as a waste management provider in Morocco's capital and we look forward to a long-term collaboration with the city of Rabat. averda will deliver waste management services for a population of over

half a million in Rabat, and will work closely with the city's council and the local authorities to listen, understand and answer its stakeholder's expectations."

Morocco has been a strategic long-term choice for averda since the company was awarded the contracts for a sanitary landfill management, waste collection and cleaning in 2012. Since that date, averda has been providing many provinces with extensive sustainable environmental services that range from street cleaning through to waste collection, treatment, disposal, and recycling.

Image Nation makes Arabic TV with Discovery Communications

Middle Eastern content creator **Image Nation** has formed a partnership with pay TV programmer **Discovery Communications** to create and launch a new Arabic language TV channel for the Middle East and North Africa. 'Quest Arabiya' will be free-to-air and is scheduled to go live in the final quarter of 2015.

The channel, which will deliver factual and reality programmes, will be a combination of regionally-produced original material and Arabised content from Discovery's vast library of non-fiction shows. The channel is aimed primarily at Arabic-speaking men aged between 16 and 44, but with material that will appeal to the entire family.

The venture highlights the growing importance of TV and digital media as platforms for original content and commissions in the Middle East, providing new opportunities for local talent and production companies to increase their output, while providing a host of new training and development opportunities in the media industry in the region.

The move means more stories from across the region will be brought to life through specially commissioned Quest Arabiya shows. And under the terms of the deal, Discovery Communications has the option to acquire Image Nation's content for broadcast on its international channels, meaning the region's stories have the potential to be told around the world.

"In partnering with Discovery to launch a new TV channel in the Middle East and North Africa, we are doing what Abu Dhabi does best - marrying world-class expertise with regional knowledge," said Mohammed Al Mubarak, chairman of Image Nation Abu Dhabi. "Quest Arabiya will provide a needed boost to the private media sector in the UAE as we will be commissioning more content than ever before and producing at the highest international standards."

ALGERIA
SMT Algeria
+213 560 078 851

ANGOLA
Auto Maquinaria
+244 9 2782 4434

BENIN
SMT Benin
+229 21 35 14 02

BOTSWANA
Babcock International Group
+267 316 3200

BURKINA FASO
SMT Burkina Faso
+226 66 77 01 01

BURUNDI
SMT Burundi
+32 10 47 61 20

CAMEROON
SMT Cameroun
+237 99 41 40 30

CONGO
SMT Congo
+242 06 508 27 13

CÔTE D'IVOIRE
SMT Côte d'Ivoire
+225 21 75 16 27

DEM. REP. OF CONGO
SMT D. R. Congo
+243 815 656 565

Egypt
Ghabbour
+20 242 107 794

ETHIOPIA
Equatorial Business Group
+251 11 442 4955

GABON
SMT Gabon
+241 07 515 008

GHANA
SMT Ghana
+233 30 268 33 51

KENYA
Auto Sueco Ltd
+254 727 534 593

LIBERIA
SMT Liberia
+231 888 071 000

LIBYA
United Group
+218 21 7313310

MADAGASCAR
Materauto
+261 20 22 233 39

MALI
SMT Mali
+32 10 47 61 20

Mauritania
SMT Mauritania
+32 10 47 61 20

Mauritius
Leal Equipements Compagnie
+230 207 2100

MOROCCO
Volvo Maroc S.A.
+212 522 764 800

MOZAMBIQUE
Babcock International Group
+258 84 2652397

NAMIBIA
Babcock International Group
+264 81 6937473

NIGERIA
SMT Nigeria
+234 802 3747678

RWANDA
SMT Rwanda
+32 10 47 61 24

SENEGAL
SMT Senegal
+32 10 47 61 20

SEYCHELLES
Leal Equipements Compagnie
+230 207 2100

SIERRA LEONE
A. Yarbeck and Sons Ltd
+232 7730 3042

SOUTH AFRICA
Babcock International Group
+27 11 230 7300

SUDAN
Albarajoub Engineering Co.
+249 183 77 84 13

TANZANIA
Auto Sueco Ltd
+255 222 866 333

TOGO
SMT Togo
+228 99 99 92 15

TUNISIA
Nordic Machinery
+216 71 409 260

UGANDA
Auto Sueco Ltd
+256 791 500 400

ZAMBIA
Babcock International Group
+260 212 216 200

ZIMBABWE
Conquip
+263 4 485 543

THE NEW L120Gz

Z-BAR LINKAGE

AND LOADS MORE



The new L120Gz gives you loads more: more productivity, more fuel efficiency and more uptime. Engineered to give optimum bucket fill, the L120Gz delivers superior productivity, with the Z-bar lifting arm system working in perfect harmony with load sensing hydraulics and the Volvo attachment range. An optimised powertrain and Eco-pedal function contribute to outstanding fuel efficiency, coupled with easy service access, for lower operating costs.

The new L120Gz – maximum productivity and optimum efficiency.

Building Tomorrow.



Agenda / East

Emirati oil firm invests in East African oil and gas

Dubai-based **Gulf Petrochem Group** has acquired **Essar Petroleum East Africa** and rebranded it to **ASPM Energy (Kenya)**. The deal enhances the group's integrated services and products for the downstream supply chain in the oil and gas sector in East Africa.

Gulf Petrochem Group secured the due approvals from Kenya's **Energy Regulatory Commission (ERC)**, its **Competition Commission** and other regulatory bodies. ASPAM Energy (Kenya) continues with commitments to cater to customers in East Africa who were earlier serviced by Essar Petroleum East Africa Ltd in the fuel retailing segment. In addition to marketing petroleum products through outlets earlier serviced by Essar Petroleum East Africa Ltd, ASPAM Energy (Kenya) intends to develop storage and retail infrastructures and expand retail networks.

Gulf Petrochem Group, has a trading arm active in trading fuel oil, gas oil, bitumen, base oil, etc. ASPAM Energy (Kenya) now concentrates on these products in East Africa.

"With the global market for bitumen expected to reach US\$95.77bn by 2020, according to a new study by **Grand View Research, Inc**, our group has recognised the potential for business growth within the African continent. Through this acquisition, ASPAM Energy (Kenya) will allow us to efficiently cater to East African customers and capitalise on a market which we plan to make our East African Hub", said Sudhir Goyel, Gulf Petrochem Group managing director.



Sudhir Goyel, Gulf Petrochem Group managing director

Kenyan banks' capital requirements

Kenyan Ministry of Finance Cabinet

Secretary Henry Rotich has set out, in the nation's 2015/16 budget proposals, a requirement for Kenya's 43 commercial banks to raise their minimum core capital from US\$10.1mn to US\$50.54mn over three years, to make them more competitive and to empower them to take on counterpart institutions from South Africa, Nigeria, Angola and Egypt. In the last few years, Kenyan banks have been unable to handle mega-deals like those involved in the oil business due to their low capital base. Under the proposed re-capitalisation, banks will increase shareholder funds to US\$20.21mn by December 2016, US\$35.38mn by December 2017, and finally US\$50.54mn by December 2018.

"We plan to streamline the architecture of the financial sector to have strong sub-sectors with stable service providers who can compete regionally," said Mr Rotich.

Mwangi Mumero

The best of Italy on show at East Africpack

The second edition of East Africpack has been scheduled to be held in Nairobi, Kenya, 12-14 October 2016. This processing, packaging and converting exhibition has been recognised as an important contribution to the emerging economies in sub-Saharan East Africa. Moreover, East Africpack has been added to the list of key exhibitions promoting the Italian manufacturing and industrial sector on foreign markets, developed by the **Italian Ministry for Economic Development**.

Organised by **Ipack-Ima Spa** in joint venture with **PMMI**, the Association for Packaging and Processing Technologies in the USA, and in partnership with **UNIDO**, the

EAC as well as Kenya's **Ministry of Industrialisation and Enterprise Development**, East Africpack 2016 will receive the support provided by the **Italian Government** in its Extraordinary Plan 2015-2017 developed to increase the competitiveness of Italian exhibitions which are ranked fifth on the international ranking. The plan will fund specific actions identified as strategic for the development of SMEs in new markets.

East Africpack 2016, which returns to the Kenyatta International Conference Center (KICC), Nairobi, is rooted in the success obtained by the exhibition's debut in 2014 and the significant rebooking requests

received from over 50 per cent of the 136 international exhibitors.

Starting with the 2016 edition, East Africpack will benefit from a new important logistics base: the Ipack-Ima representative office managed by AgroTEQ, in Nairobi.

In line with its commitment to contribute to technology upgrade and to focus the importance of packaging as a strategic springboard for the technological upgrade and increased competitiveness of local SMEs, the East Africpack brand will organise once again a scientific conference that will take place in Uganda at the beginning of 2016 emphasising on development priorities of the East Africa region.

CIBER ASPHALT PLANTS. YOUR BEST CHOICE.



Close to
our customers



57 years of tradition in asphalt plants that meets all your work needs.

- Compact, fully mobile and easy assembly;
- Dedicated dryer drum for effective moisture removal;
- External pug-mil mixer that ensures excellent mixes;
- Filtering system that meets the most rigid environmental standards;
- Control system very accurate and easy to operate.



KOMPAKT



UACFinova



Advanced



UAB 18
Advanced



ROAD AND MINERAL TECHNOLOGIES

www.ciber.com.br

www.wirtgen-group.com

SOTRADIES

Tunise | Phone: +216 71 77 13 66
T.P.S. SARL Tractor Parts Services
Algérie | Phone: +213 21 44 54 89
SMDM - Société Marocaine
de Distribution de Matériel
Maroc | Phone: +212 523 31 88 00/05

DEM Ivory Coast

Ivory Coast | Phone: +225 2125 7995
DEM Mauritania
Mauritane | Phone: +221 77 136 40 77
DEM Senegal SARL
Sénégal | Phone: +221 77 136 40 77

DEM Ghana

Ghana | Phone: +233 302 934 406
SCOA TRAC
Nigeria | Phone: +234 1 2802072 / 234 8034027262
Movicortes Angola
Angola | Phone: +244 222 014 892

Wirtgen South Africa Pty. Ltd.

Botswana / Lesotho / Namibia / South Africa / Swaziland
Zambia / Zimbabwe | Phone: +27 11 452 18 38
Panafrican Equipment Ltd.
Kenya / Tanzania / Uganda | Phone: +254 732 151 000/101
Moenco
Ethiopia | Phone: +251 11 661 3968

Agenda / South

Zampalm set to produce crude palm oil in Mpika

Zambian palm oil business **Zampalm** - a subsidiary of **Zambeef Products** - has commissioned a US\$1mn crushing and processing plant in Mpika. The factory will begin processing crude palm oil in September 2015, with first harvesting planned for August through to January 2016. It is expected to reduce Zambia's dependence on crude palm oil and other edible oil imports drastically.

The plant has a capacity to crush two to three tonnes of fresh palm fruit per hour, producing a yield of 20-30 per cent of crude palm oil.

The plant comprises four "cookers", a boiler, and a tumbler.

A digester will separate the oil from the fruit. The used fruit bunches will be recycled into the boiler as fuel or used as organic fertiliser. The crude oil will be sent, then, for refining into cooking oil or biofuel.

Following completion of the new crushing mill, a second two-tonne mill is expected to be installed in 2017 and a further 10-tonne plant the following year, taking crude palm oil production up to 17,000 tonnes a year.

The operation currently employs over 500 workers, with the workforce expected to grow as the harvesting season draws closer and operations grow.

The total investment cost in the Zampalm project is estimated at US\$41.5mn, of which Zambeef has spent US\$20mn. Zambia



Zampalm plantation manager Trusted Mwinga inspects the new plant

currently imports crude palm oil worth over US\$70mn every year, which is a costly exercise for a country that consumes around 120,000 tonnes of cooking oil but only produces 30-50 per cent of required total supply. More than half of Zambia's edible oil consumption is imported from the Far East, East Africa and South Africa.

At current prices, the average production of crude oil of 3-3.5 tonnes per hectare could generate more than US\$170mn in revenue over the next decade.

Cimpor to grow in Mozambique

Cimentos de Moçambique, a subsidiary of Portuguese cement producer **Cimpor**, has announced plans to invest US\$250mn in a new integrated cement plant in Nacala, Mozambique. The new facility is expected to start functioning from 2018.

According to a statement issued by the company, "The new capacity to be installed increases the efficiency of the response to local demand for cement, while Cimentos de Moçambique recognises its role in driving the sustainable economic development of the Nacala region."

Cimentos de Moçambique has been producing cement since 1920. Its current footprint in Mozambique includes an integrated cement production plant in Matola and four grinding plants in different locations. Cimentos de Moçambique has a cement production capacity of 3.1mn tonnes per year and a workforce of 1,200 people. The company's assets in Nacala include two grinding units and limestone reserves for which it has an extraction licence.

Leuze offers dynamic data transmission

Leuze has developed a data transmission photoelectric sensor with a high optical transmission of 100 Mbit/s. The device allows data transmission without cabling and without interference, and is available from sole Southern African distributor **Countapulse Controls**, which supplies sensing, measurement, counting, switching, monitoring and positioning instrumentation. The DDLS 500 optical data transceiver is able to instantaneously transmit all common Ethernet protocols up to distances of 120 metres. These protocols include Profinet, EtherNet IP, EtherCat, Ethernet TCP/IP and Ethernet UDP.



The Leuze DDLS 500 optical data transceiver is able to instantaneously transmit all common Ethernet protocols up to distances of 120 metres

Constant monitoring and notification of the signal level on the easy to read LED display allows quick reaction to issues like soiling of the lens, ensuring simplified maintenance and diagnostics.

The modular design of the Leuze DDLS 500 includes an integrated bubble level for accurate installation. The patented single-hand adjustment of the instrument allows precise alignment of the data light beam. In addition, the device projects four laser spots on the floor along the intended light path, aiding in the easy alignment of the device at a distance.



Enriching Lives

powering business success stories

KIRLOSKAR GREEN GENSETS

Tried, tested and proven around the world, Kirloskar Green Generating Sets have been quietly and efficiently powering growth and development across the African continent for years.

Available as both, air-cooled and water-cooled diesel engines and generating sets, for power outputs ranging from 5 to 625 kVA, today Kirloskar Green power solutions can be customized for any application - standby or prime, open or sound proofed.

What's more, our solutions are supported by a network of offices and affiliates that ensures prompt sales, service and spares support wherever you are.

Our power solutions touch your lives everywhere:

Service sector: Telecom, IT, retail, hotels, hospitals, banks, education.

Urban infrastructure: Shopping malls, residential and commercial complexes, townships.

Entertainment segment: Multiplexes/ amusement parks.

Industries: Engineering, manufacturing, FMCG, automobile, textile, dairy & food processing, pharmaceutical.

DISTRIBUTORS

Ethiopia

Ultimate Motors PLC,
ummarketing@ethionet.et

Malawi

HISCO House,
mahesh@hiscohouse.com

Nigeria

Bhojsons PLC, pra1234@yahoo.com

South Africa

Kirloskar Engines South Africa (PTY) Ltd., kirloskarsa@tiscali.co.za

South Sudan

Al Marai Trading Est (BR), Panorama plaza, airport road, Juba panorama.juba@gmail.com

Sudan

CTC Group - Digitech Electro-Mechanical Business \ Unit (DEM), yahya.gasim@ctcgrupltd.com

Tanzania

Incar Tanzania Ltd., gm@incartz.com

Zambia

SARO AGRO Industrial Ltd.
amin@saroagri.co.zm

Head Office: Laxmanrao Kirloskar Road, Khadki, Pune - 411 003, India.

Kenya Office: Kirloskar Kenya Ltd. Tel: + 254 20 6536632, Email: rspatil@kirloskar.co.ke

South Africa Office: Joburg Industrial Trading SA (PTY) Ltd. Tel: +27 (0) 115536900, Email: kirsons@kirloskar.co.za

'Kirloskar', 'Kirloskar Enriching Lives', 'Kirloskar Green Chilli Power Ideas' are trademarks owned by Kirloskar Proprietary Limited.



Agenda / West

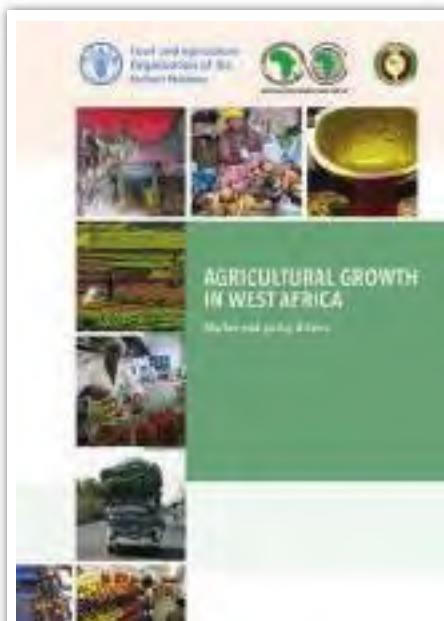
Opportunities for agricultural growth in ECOWAS states

West Africa has many unprecedented opportunities for agricultural growth, but making the most of them will require more effective regional integration, according to a report - 'Agricultural Growth in West Africa: Market and Policy Drivers' (AGWA) - published by the **African Development Bank (AfDB)**, the **Food and Agriculture Organization of the United Nations (FAO)** and the **Economic Community of West African States (ECOWAS)**.

To be competitive with large global actors, West African agriculture needs to capture some of the economies of scale that those countries enjoy in the markets for fertilisers and seeds as well as in agricultural research and technology development, the report states.

While important progress towards regional integration has been made over the past two decades, effective implementation at national level has remained a challenge, as evidenced by roadblocks and trade bans hindering intraregional trade, along with continued use of disparate national standards for seeds and fertilizers despite regionally agreed-upon common protocols.

Many West African countries have been increasingly relying on food imports to meet their burgeoning urban food markets,



Agricultural Growth in West Africa: Market and Policy Drivers (AGWA)

reflecting the inability of their domestic food value chains to meet the evolving consumer demand in terms of quality, volumes, prices and consistency of supply. The report stresses that while increasing agricultural yields is essential, more attention needs to be placed on the downstream segment of the agrifood system: assembly, storage, processing, wholesaling and retail.

IFC, Eranove set on Malian energy

Infrastructure project development fund **IFC InfraVentures** and electricity producer **Eranove Group** have signed a concession agreement with the Government of Mali to develop the €110mn (US\$121.9mn) Kénédji hydropower project. The 30-year concession agreement covers the development, construction and management of the project. Once operational, the plant is expected to generate 35-56MW of electricity, significantly increasing Mali's current installed capacity, which is slightly more than 400MW. The Kénédji plant will be operated through a concession agreement competitively awarded to Kénédji Energies Révouvelables, a new entity owned by the Eranove Group and by IFC. Mamadou Igor Diarra, the Minister of Finance for Mali, said, "The Kénédji Hydropower project has been under development for several years and so we appreciate the engagement of IFC InfraVentures, and welcome Eranove as main sponsor to ensure the successful signing of the off-take and concession agreement."

Pilgrims Group supports maritime security

International security specialist **Pilgrims Group** has improved the provision of safe passage for clients working in West African waters by upgrading a former US Coast Guard cutter.

The vessel, MV The Judge, was acquired by Pilgrims in the USA three years ago and has recently been refitted to install advanced navigation and anti-piracy equipment. Personnel capacity has been expanded to twelve crew members.

Corporate clients, including oil companies, geological surveyors and cable laying experts, have already enjoyed the protection of an armed escort provided by MV The Judge, whose captain, Shane Slabbert, has military experience with the South African Navy. The vessel, which has worked as far afield as Egypt, Somalia and Mombasa, is now based in Lagos, Nigeria, working alongside the Nigerian armed forces, and its area of operations now extends along the West African coast.



MV The Judge vessel has been brought to Lagos for a dedicated offshore maritime role

In relation to the vessel's new West African role, Pilgrims Africa general manager Daniel Revmatas said, "The Judge gives Pilgrims the ability to provide organisations with a complete solution to security provision, both on land and at sea."

"Our sea-borne service, demonstrated by the upgraded abilities of The Judge, provides welcome reassurance in this uncertain environment."

SERIES 2015



Bobcat®

One Tough Animal.

1/3

TAK TAK

Meanwhile... it's make-or-break time at the demolition site.

TAK

The day's hardly started, and yet this job's already done and dusted.

But that's just business as usual for this beast of a machine.

No load's too heavy,
no space too tight,
no terrain too rough.

S450

POWER MEETS COMFORT!
WITH INCREASED HYDRAULIC POWER
AND A GARGANTUAN GRIP, THIS SKID
STEER LOADER IS PURE MUSCLE.
WHILE THE RE-ENGINEERED CAB
KEEPS YOU COMFY AS YOU MANEUVER
QUICKLY AND SURELY - DOING MORE,
FASTER AND BETTER.

UP NEXT...
A DEEP SEATED PROBLEM

Events / 2015

September

9-10

Banking & Mobile Money COMESA

Nairobi, Kenya
aitecafrica.com

9-10

Nigeria Defence & Security

Abuja, Nigeria
www.irn-international.com

12-16

Electra Mining Africa

Johannesburg, South Africa
www.electramining.co.za

14-15

Powering Africa: Nigeria

Abuja, Nigeria
www.poweringafrica-nigeria.com

15-16

Cards & Payments East Africa

Nairobi, Kenya
www.terrapinn.com

15-16

e Show East Africa

Nairobi, Kenya
www.terrapinn.com

15-16

Retail Show East Africa

Nairobi, Kenya
www.terrapinn.com

15-18

Bauma ConExpo Africa

Johannesburg, South Africa
www.bcafrika.com

15-18

IFAT Forum Africa

Johannesburg, South Africa
www.ifatforumafica.com

17-18

Powering Africa: Ghana

Accra, Ghana
www.poweringafrica-ghana.com

22-23

Nigeria Com

Lagos, Nigeria
nigeria.comworldseries.com

22-24

AIMA Africa

Addis Ababa, Ethiopia
www.bciaerospace.com

22-24

Power, Steel & Housing

Abuja, Nigeria
www.powerandstelexpo.com

28-30

South Africa: Gas Options

Cape Town, South Africa
www.southafrica-gasoptions.com

EnergyNet events address Africa's increasing demand for power

Africa's demand for power continues to outstrip supply, with some 25 countries in sub-Saharan Africa subject to rolling blackouts. The continent requires sustained support from the global investment community in order to drive social and economic development.

Renowned for hosting the Africa Energy Forum, the longest-running meeting place for senior level decision makers in Africa's power sector, **EnergyNet** also produces the Powering Africa: Series: in-country investment meetings organised with government support and providing a more detailed perspective and country insights.

Powering Africa: Nigeria (www.poweringafrica-nigeria.com) is a private sector-led summit taking place from 14-15 September 2015 in Abuja focusing on structured finance, development finance and private equity. The programme will feature interactive dialogue between Gencos and Discos, private sector banks, multilateral investors and DFIs, government and developers.

Powering Africa: Ghana (www.poweringafrica-ghana.com) will take place from 17-18 September in Accra. This summit will provide a platform for investor insights on the future direction of the power sector. The agenda will focus on the country's electricity landscape following the division of the energy and power ministries and the future project pipeline which is growing under the leadership of the Minister for Power.

Held with the support of the South African IPP Office, the South Africa: Gas Options investment briefing (www.southafrica-gasoptions.com) will be hosted in Cape Town on 28-30 September 2015, looking at the global gas acquisition potential of South Africa and commercial opportunities for gas and infrastructure developers.

EnergyNet's 4th Africa Infrastructure & Power Forum (www.africa-infrastructure-forum.com) is the annual gathering for Chinese investors and African developers to do deals within Africa's infrastructure and power sectors. Taking place from 15-16 October 2015 in Beijing, the Forum will welcome government representatives, utilities companies, financial investors, project developers, technology providers and the advisory sector.

The ninth annual Powering Africa: Finance Options (PA:FO) meeting (www.poweringafrica-finance.com) will return to Cape Town on 5-6 November 2015. PA:FO is a Chatham-House executive briefing designed for CEOs and senior-level directors.

The 3rd annual Powering Africa: Tanzania meeting (www.poweringafrica-tanzania.com) from 3-4 December will return to Dar es Salaam to provide detailed insights into the investment opportunities in Tanzania's power sector in 2015.

Visit www.energynet.co.uk or e-mail amy.offord@energynet.co.uk

Reliability in Action

OFFICIAL SPONSOR



The toughness you need The price you can afford

NEW!
**Improved cab
and aircon
system**



If you're looking for robust, reliable construction equipment at affordable prices then you need to look no further than **SDLG**.

The LG958L wheeled loader now features an improved cab and air conditioning. Easy to operate and maintain, it's a machine that's built for hard work in the toughest conditions.

When it's time to think about buying a new machine, remember this name: **SDLG**.

Go online to find your local **SDLG** dealer:

www.sdlgafrica.com

Bulletin / ICT

MFS accelerates Rwandan financial inclusion

MTN Rwanda and **Bank of Kigali** have partnered to improve access to mobile financial services (MFS) by enabling customers to move money between their MTN Mobile Money wallets and their Bank of Kigali accounts and vice versa; all MTN subscribers who are also customers of Bank of Kigali can now have their Mobile Money wallets linked to their bank accounts, meaning that they can pull money from their bank accounts onto their mobile money wallet or push money from their wallets to their bank accounts automatically.

SA firm makes the grade for Microsoft Office deployment

South African ICT consultancy and systems development specialist **Ukuvuma Solutions** has met stringent criteria to be identified as a **Microsoft** Office365 Deployment Partner, placing it at the forefront of African software migration and implementation; Ukuvuma has the backing of Microsoft not only to sell Office365, but also to assist companies in deploying this globally renowned platform and tailoring it to suite business requirements.

NBC extends services contract with Jasco

The **Namibian Broadcasting Corporation (NBC)** has signed a three-year service level agreement (SLA) with **Jasco Broadcast Solutions**, extending the original SLA of one year, to cover second-line support across a variety of equipment from studios to final control, ensuring that any issues are resolved within agreed-upon time frames and that all equipment continues to function error-free; over the past five years, Jasco Broadcast Solutions has been instrumental in upgrading legacy infrastructure and solutions at NBC to improve workflow, increase storage and enable integrated management and control of all media assets.

MainOne marks five years of West African Web innovation

Telecommunications and data services company **MainOne** has celebrated five years of leadership in transforming West Africa's Internet landscape; chief executive officer Funke Opeke noted that, since inception, MainOne has sought to bridge the digital



L-R: Main One CFO Babatunde Dada, CEO Funke Opeke and GM, corporate services and development, Lynda Madu, mark the company's fifth anniversary in Lagos, Nigeria

divide in West Africa and to become the preferred provider of wholesale Internet services and enabler of online business within the region, by delivering services to seven countries in the region, connecting over 500 telecom operators, ISPs, government agencies, large enterprises, and educational institutions on its network, and establishing interconnections with the **London Internet**

Exchange (LINX), Amsterdam Internet Exchange (AMIX), Nigerian Internet Exchange (IXPN) and Ghanaian Internet Exchange (GIX).

Rwandan tech incubator welcomes new start ups

Technology incubator **think** has taken four entrants on as part of an entrepreneurship programme; think's signature Accelerate initiative offers the opportunity to fast track talented tech entrepreneurs – particularly, African digital companies - to take advantage of intense incubator services in Rwanda by providing space, Internet and business development services.

MOBOfree introduces ID checks in Nigeria and Uganda

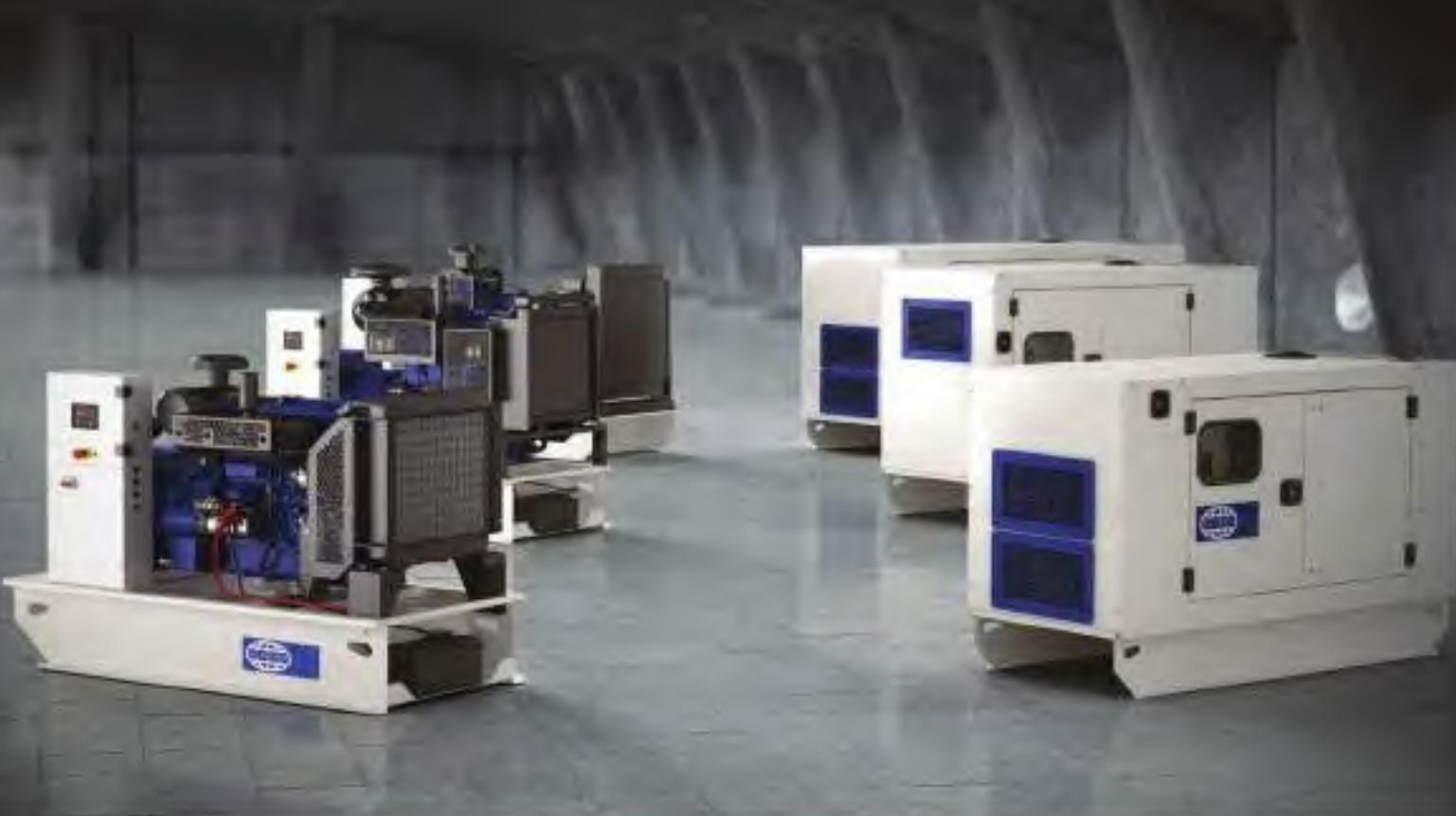
African social marketplace **MOBOfree** has launched an ID verification programme in Nigeria and Uganda, further strengthening its reputation as one of Africa's safest social environments for buyers and sellers alike; "By preventing fraud rather than simply dealing with the issue after fraud has been identified, MOBOfree is highlighting its commitment to a safer environment for e-commerce in Africa," said MOBOfree CEO Cristobal Alonso.

MOBOfree's ID verification programme extends a range of security measures aimed at protecting African consumers

power made simple



www.FGWilson.com



Modern life is complicated but ensuring your power supply can be simple with FG Wilson.

Our latest product range, **now available from 8.5 – 137.5 kVA**, provides uncomplicated power assurance with the quality excellence you've come to expect from FG Wilson. Choosing this range also means you are choosing superior availability and expert local support.

For more details, please visit:

www.FGWilson.com/arf



Bulletin / Energy

Building Energy's first Egyptian solar project

A producer of energy from renewable sources, **Building Energy** has signed a memorandum of understanding (MoU) with **New & Renewable Energy Authority (NREA)**, within of the **Ministry of Electricity & Renewable Energy of Egypt**, for two 50MW photovoltaic plants in Benbanm to be built over 12 months from summer 2016, at a cost of US\$200mn; Cornelius Matthes, Building Energy's managing director for the Middle East and North Africa, spoke of the Egyptian government's ambition "to produce at least 20 per cent of its total power from renewable sources by 2020", and its implementation of "a series of concrete steps to facilitate foreign investments, in order to meet the increasing energy needs and support the economic growth of the country".



Cornelius Matthes, Building Energy's managing director for the Middle East and North Africa

Kohler releases its ready-to-use KDI power unit

Compact size, outstanding power density, low fuel consumption, noise and vibration, and excellent reliability are the distinctive characteristics of the Power Unit line of KDI Diesel engines developed by **Kohler Engines** for the power generation market, and now

expanded with the addition of a new 3.4-litre model; due to its seamless installation, the KDI Power Unit line boasts a compact size and a light weight, particularly advantageous characteristics at all times, over the range 20-60 KVA at 50HZ (1,500rpm) and 20-70KVA at 60HZ (1,800rpm).



Djibouti commits to energy independence with wind farm

Djiboutian Minister of Energy Ali Mahmoud Yacoub and **Shanghai Electric** vice president Chen Shuyu have signed a memorandum of understanding (MoU) for the construction of a 60MW wind farm, further reinforcing Djibouti's commitment to becoming the first country in Africa to generate all its energy requirements through renewable sources by the next decade; Mr Yacoub said, "Energy demands are high and Djibouti needs cheaper power to fund the expansion of its ports, which have seen a surge in movement of cargo, particularly servicing landlocked neighbour Ethiopia."

Clarke Energy to distribute Jenbacher engines in Cameroon

GE's Distributed Power business is now represented in Cameroon by **Clarke Energy**, which is now distributor of **Jenbacher** gas engines in the country, alongside other Jenbacher products and genuine service parts, with factory warranties and access to expert field service technicians; Jamie Clarke, CEO of Clarke Energy, said, "Access to reliable power is critical for development, and we are here to partner with operators in Cameroon who want to grow their businesses with efficient equipment that is supported around the clock to ensure maximum performance."

GE marks a decade of safety in Nigerian oil and gas

In Onne, Rivers State, Nigeria, **General Electric** has recorded a significant safety record at its oil and gas facility with no incidents resulting in lost work time for any of the technicians, engineers or other personnel working there; president and CEO of GE Nigeria Dr Lazarus Angbazo said, "This achievement was due to GE's outstanding environmental health and safety standards and all the employees in Onne that make quality and safety an integral part of how they operate on a daily basis."



General Electric Nigeria president and CEO Dr Lazarus Angbazo



Solar pumps with Jalverter™

Enriching Lives



Kirloskar Solar Pumping Solutions

Features :

- ◆ AC Pumps Standard Range : 0.5 hp to 30 hp
(Jalverter with pumps also available upto 50 hp range on demand)
- ◆ MNRE Approved
- ◆ NABARD Registered



KBL Jalverter™

Pumps | Valves | Hydro Turbines | Turnkey Projects

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company

Registered Office : Udyog Bhavan, Tilak Road, Pune 411 002. Tel : +91(20)2444 0770

Global Headquarters : Yamuna, Survey No. 98/(3-7), Baner, Pune 411 045, Tel : +91 20 2721 4444

E.mail : kblin@kbl.co.in | Website : www.kirloskarpumps.com | Customer Care Toll Free Number : 1800 - 10 - 34443



Scan this code with your Smart phone
to know more about KBL

African Review/On the Web

A selection of product innovations and recent service developments for African business
 Full information can be found on www.africanreview.com

Industrial hub to be built in Angola

Angolan investment group, Silvestre Tulumba e Investimentos (STI), which specialises in real estate, car trade, hospitality and the distribution of food and spare parts, has announced plans to develop a US\$350mn industrial hub in Lubango, Angola.

STI CEO Silvestre Tulumba Kapose said the industrial project would focus on the construction of a brewery, a soft drink plant, dairy products factory, mill and slaughterhouse.

www.africanreview.com/manufacturing



Among the facilities to be built in the new industrial hub will be a dairy products factory
 (Photo: dmitry_isleniev)

African mobile money market to hit US\$14.27bn by 2020

A recent report by MarketsandMarkets has affirmed that the mobile money market in Africa will grow to US\$14.27bn in the next five years. The report said that the mobile money market in the continent is expected to grow at CAGR of 39.2 per cent for the next five years, growing from US\$2.73bn in 2015 to US\$14.27bn by 2020. Kenya is likely to be the biggest market for mobile money in terms of overall market size, according to the report, while Mozambique, Madagascar, and Malawi are expected to experience increased market traction during the forecast period.

www.africanreview.com/finance

The Big 5 to reach East Africa next year

The organisers of The Big 5 series of construction shows have announced that the first African edition, The Big 5 Construct East Africa, will take place in Nairobi, Kenya, late next year. The Big 5 Dubai and Big 5 Saudi organisers said that the inaugural African event will be held from 2-4 November 2016 at

the Kenyatta International Conference Center.

Andy White, dmg events vice-president for construction Middle East and Asia, said,

"The Big 5 brand has grown rapidly in recent years from its established home in Dubai. Our exhibitors are constantly looking for new markets and The Big 5 helps them reach the right buyers in markets where construction is booming."

www.africanreview.com/events



Andy White, vice-president of construction in Middle East and Asia, dmg events (Photo: dmg events)

APR Energy expands power grid in Senegal

Power solutions firm APR Energy has expanded its interim generation capacity for Societe Nationale d'Électricité du Sénégal (Senelec), Senegal's national electric utility.

The requirements include installation and operation of an additional 48MW of mobile diesel-powered generation, including assets being redeployed from Libya, to supplement an existing 20MW block of power at its Kounoune site. The contract term for the combined 68MW extends into the Q4 2015.

www.africanreview.com/energy-a-power

South Africa named 'key market' for Case

Equipment company Case Construction Equipment will participate in the second edition of Bauma Conexpo Africa. The company will use the event to showcase its entire line of equipment and its solutions for construction businesses in Africa.

The exhibition, which will be held from 15-18 September 2015 at Johannesburg, will host several industry leaders in construction from South Africa and sub-Saharan Africa, enable the exchange of ideas, growth of businesses and networking.



The 821F wheel loader will be on display at Bauma Conexpo Africa in September 2015 (Photo: Case Construction Equipment)

Case, along with its distributor CSE, will showcase its complete range of construction equipment, solutions for construction businesses such as retail financing, expert service support as well as parts backup.

www.africanreview.com/construction-a-mining

EU to invest in Nigeria's power sector

The European Union (EU) has revealed plans to invest US\$165mn in Nigeria's power sector, in a bid to improve access to electricity in the West African country.

According to an EU representative Peter Cameron, the organisation is keen on investing in the West African nation's energy sector by identifying problems within the sector as well as shortlisting potential projects that could help increase access to electricity. Specifically, Cameron added, solar energy topped the list of energy solutions that the EU was willing to explore.

www.africanreview.com/energy-a-power



MAN for the construction industry.

MAN TGS WW for North-, East-, West-, Central- & Sub-Equatorial Africa

For more Information (North-, West-, Central- & East Africa) visit www.man-northernafrica.com
For more Information (Sub-Equatorial Africa) visit www.entry.man.eu/za

MAN kann.

100
100 Years
MAN Truck and Bus



Creating commercial advantages for Angola

Profiling the sovereign wealth fund FSDEA, which has nurtured a global reputation amongst investors, governments and other stakeholders

Low oil prices have continued to impact Africa's economies. This has been particularly troubling not only for the Angolan economy but also for institutions such as Fundo Soberano de Angola (FSDEA), a sovereign wealth fund (SWF) wholly owned by the Republic of Angola. But the commitment to socio-economic progress has never been greater. FSDEA's remit remains the diversification of an investment portfolio across an array of industries and asset classes. By pursuing investments that generate long-term and socially enhancing financial returns, the fund plays an important role in promoting Angola's social and economic development and generating wealth for its people.

FSDEA is governed by the Santiago Principles, a voluntary set of principles and practices developed by the International Working Group (IWG) of sovereign wealth funds. The fund is also a full member of the International Forum of Sovereign Wealth Funds (IFSWF). The regulatory and policy milestones achieved by the Fund, combined with the IFSWF membership and SWFI ratings, strengthen the FSDEA's commitment to comply with local and international regulations governing its operations and investment activities. Within the IWG framework, FSDEA has asserted itself as an accountable and transparent organisation with a dedicated social charter to benefit the people of Angola. In fact, the fund has been acknowledged as a transparent fund by the Linaburg-Maduell Transparency Index, which is administered by the Sovereign Wealth Fund Institute (SWFI).

Creating commercial leaders

The fund has courted international investors aggressively, which has so far paid off. Part of its courtship is a social charter designed to build capacity within the country. Availability of a skilled local workforce is one of the

biggest hurdles to economic growth. In fact, FSDEA graduates highly skilled business leaders through its Future Leaders scholarship programme, which most recently sent 45 of Angola's brightest and best to Zurich, Switzerland, to study at one of the world's leading business schools, the Zurich University of Applied Sciences (ZHAW). Coming from varied academic backgrounds - finance, corporate law, business administration, mathematics and statistics - individuals were selected on the basis of their demonstrated potential to become future business leaders. FSDEA believes that these graduates will go on to innovate new products, create jobs and help to strengthen the country's domestic market. Crucially, it continues to send an incredibly important, positive message to the international investor community - namely, that Angola remains open for business: strong, confident and not swayed by the impact of global uncertainties.

To support the Future Leaders programme, African consultancy Djembe Communications created a fully integrated communications strategy incorporating advertising, brand development, event management, media relations and digital engagement. Its initial 2015 intake, the programme has been a huge success with the top students from the programme being hired by the Fund. The Future Leaders of Angola received positive media attention in pan-regional titles across Africa and in Europe throughout the duration of the programme, and was critically acclaimed by leading Angolan media as a demonstration of the FSDEA's positive impact and role in social development and capacity building.

Investing in infrastructure

Through 2015 the FSDEA has also been investing US\$1.1bn in a dedicated infrastructure fund that will focus on equity investments in energy, transport and large

industrial developments domestically and across the sub-Saharan African region.

"Commercial infrastructure projects in sub-Saharan Africa currently show unparalleled potential and resilience against the perceived risks associated to our continent. At the FSDEA, we believe that providing the necessary funding for the development of these assets shall enable the overriding goal of diversifying the Fund's investment portfolio sustainably," commented José Filomeno dos Santos, chairman of the board of directors of FSDEA.

The FSDEA also allocated US\$500mn equity capital to a Hotel Fund for Africa, which aims to fulfil the significant undersupply of international standard hotel management capacity in the continent. This vehicle will be in a position to take up debt up to 50 per cent, potentially doubling its total investment capability. With respect to these initiatives in Angolan infrastructure, dos Santos said, "The capitalisation of these vehicles is in line with the FSDEA's policy to invest in sectors that remain shielded from global market volatility and provide sustainable high yield returns on investments that may ultimately preserve capital of the fund for the benefit of the Angolan citizens. Beyond generating solid returns, the rationale behind creating these dedicated investment funds is that the infrastructure and hotel sectors hold substantial potential for job and wealth creation and stimulate local supply chains that positively impact the overall growth of the region's economies."

Supporting FSDEA's efforts towards capitalising funds for Angolan socio-economic growth, FSDEA created a dedicated research unit in 2014 to act as an investment intelligence hub with a particular focus on the Angolan economy. This unit seeks to improve the quantity and quality of research data available on Angola ➤



Quality you can rely on

Hybrid excavator goes Antarctic. It's the best, and most likely, the only choice for avoiding environmental abuse.



Chosen for low CO₂ emissions, our HB215LC hybrid excavator was delivered to the Princess Elisabeth station, the only zero emission research facility powered by solar and wind energies, in Antarctica in January 2014. This station also features the use of eco-friendly construction materials, ideal energy consumption and advanced waste management.

With the HB215LC fulfilling the vital duty of maintaining the site, including shoveling the snow in Antarctic conditions, we are proud to support, even indirectly, our partner's leading-edge polar research in climate change and other scientific challenges.



Our involvement in the South Pole dates back to 1956, when the first team of the Japanese Antarctic Research Expedition was dispatched with our snowmobile, capable of deployment in minus 60 Celsius and at an altitude of 4,000 meters. For over half a century, we have supported Japanese expeditions.

KOMATSU[®]

www.komatsu.com

and certain sectors of the continent, thereby addressing the challenges faced by academics, policymakers and analysts in interpreting the specificities of the African business landscape. By studying the real foundations of the Angolan economy, FSDEA aims to secure insights to support its domestic investments, assess income and employment generation patterns and understand the true dynamic of an African economy from a local perspective.

FSDEA's research unit consists of eight investment analysts, who work in cooperation with the Angolan Government and specialised academics to generate regular intelligence on macro-economic issues, as well as sector and country specific analysis. This workgroup enables FSDEA, policy makers, government agencies, and international researchers to gain insights into the investment landscape of Angola and the

overall region. On the work of FSDEA's research, dos Santos noted, "There is a scarcity of quality data on Africa in the public domain. So, by securing reliable statistics and analysis of Angola's current investment context, our analysts can deliver valuable insights that enable informed investment decisions. We firmly believe that providing access to more reliable data can be a catalyst for driving sustainable social progress." ■

Djembe sets out to meet growing demand for communications

Africa's growth metrics are leading the world. According to the *Global Economic Outlook 2015*, Sub-Saharan Africa will continue to experience steady growth at around five per cent annually between 2020 and 2025. McKinsey forecasts consumer spending to grow from US\$860bn in 2008 to US\$1.4tn by 2020, while according to Standard Bank, 14mn new households will join the middle class segment by 2030. In the communications sector the Middle East and Africa saw the biggest surge in advertising spend in 2014, up by 14.6 per cent against 3.2 per cent worldwide, which points to the immense opportunities in Africa right now according to a Nielsen study.

Having a well-established presence in Angola, pan-African consultancy Djembe Communications has now expanded its service offerings into Ghana, Mozambique and Nigeria through wholly owned offices in response to the growing demand in the SSA region for high quality capabilities and services within the public relations and communications sector. Within a short span of time Djembe has acquired an impressive clientele across the sovereign wealth fund, investments, banking and finance, transportation and infrastructure sectors.

"Whilst the African market is very exciting it has to be approached with a deep understanding of both the unique challenges and opportunities across business and cultural landscapes. Djembe's pan-African background, hands-on local capabilities and unparalleled market understanding, backed by our best-in-class teams across key markets enable us to deliver results that are real and measurable for our clients," said Djembe managing director Mitchell Prather.

Awards and trade relations at Expo TIC

At the 2015 edition of Expo TIC, held at the Luanda International Fair (FIL), Angola Cables was awarded with The Best Participation in Telecommunications award, for the quality of its stand and also for the presentation of the latest projects: SACS and Monet submarine cables.

Parallel to Expo TIC, the Ministry of Telecommunications and Information Technologies held an IT Forum. Angonix project manager Darwin Costa presented on the theme 'The role of the IXP to improving the quality of internet in Angola.'

FIL is a private company, which serves to promote the potential of the Angolan market for its investment opportunities. FIL generates a turnover of more than US\$500mn annually and runs a professional team with many years of experience in the field, offering superior quality assurance in fairs and other potentiating actions for trade relations between domestic and foreign economic agents. FIL also supports the deepening of economic relations between Angola and other nations through engagement with economic development partners. Its events - FIL shows - are sectoral and multi-sectoral fairs, both national and international.

COMMUNICATIONS IN AFRICA TELLING THE GREAT AFRICAN STORY

AFRICA'S GROWTH DYNAMICS ARE HERE TO STAY

7/10

Fastest growing economies

7 OUT OF THE WORLD'S 10 FASTEST GROWING ECONOMIES ARE IN SUB-SAHARAN AFRICA (SSAI) SOURCE: WORLDBANK.ORG

5.2%

GDP growth

2020-2025: STEADY GDP GROWTH HIGHER THAN GLOBAL AVERAGE OF 3.3% SOURCE: WORLDBANK.ORG

14M

New middle class

INCREASING NEW MIDDLE CLASS HOUSEHOLDS IN 11 COUNTRIES BY 2030 SOURCE: WORLDBANK.ORG

AFRICAN CONSUMERS NOW HAVE GREATER DISPOSABLE INCOME AND ARE INCREASINGLY DEMANDING HIGHER QUALITY PRODUCTS & SERVICES

2020

2008

\$360BN

\$1.4TN

INCREASE IN SPENDING DRIVING GROWTH IN OTHER KEY SECTORS SUCH AS ADVERTISING & COMMUNICATIONS SOURCE: WORLDBANK.ORG

AFRICAN COMPANIES AND MULTINATIONALS CAN TAP INTO THIS GROWTH BY LEVERAGING STRATEGIC COMMUNICATION CAPABILITIES



SIGNAL FREQUENCY IN THE SSA MARKET: ANGOLA, GHANA, RWANDA, UGANDA & NIGERIA

ENTREPRENEURSHIP REPORT: BRAZIL IS THE LEADERSHIP OF THE YEAR

42% EMPLOYMENT GROWTH IN BRAZIL 2014-2015

SUPPORTED BY:
BENTON-CLARK INTERNATIONAL, FRANCIS DURR, LONDON, NEW YORK & MUNICH

2015 PRIZE: NEVER AGAIN AWARDS REPUTATION MANAGEMENT





Invest in Mozambique with the best Commercial Bank.

Invista em Moçambique com o melhor Banco Comercial.

Mozambique has one of the highest growth rates in the world and second to none opportunities for investment in agriculture, industry, tourism, public infrastructure and natural resources, alongside the best Commercial Bank to support your investment.

Moçambique tem das mais elevadas taxas de crescimento mundiais, as melhores oportunidades na agricultura, indústria, turismo, infra-estruturas públicas, recursos minerais e energia, entre outras, e o melhor Banco Comercial para apoiar o seu investimento.

www.bci.co.mz



BCI
É daqui.

Today's institutional Islamic investment

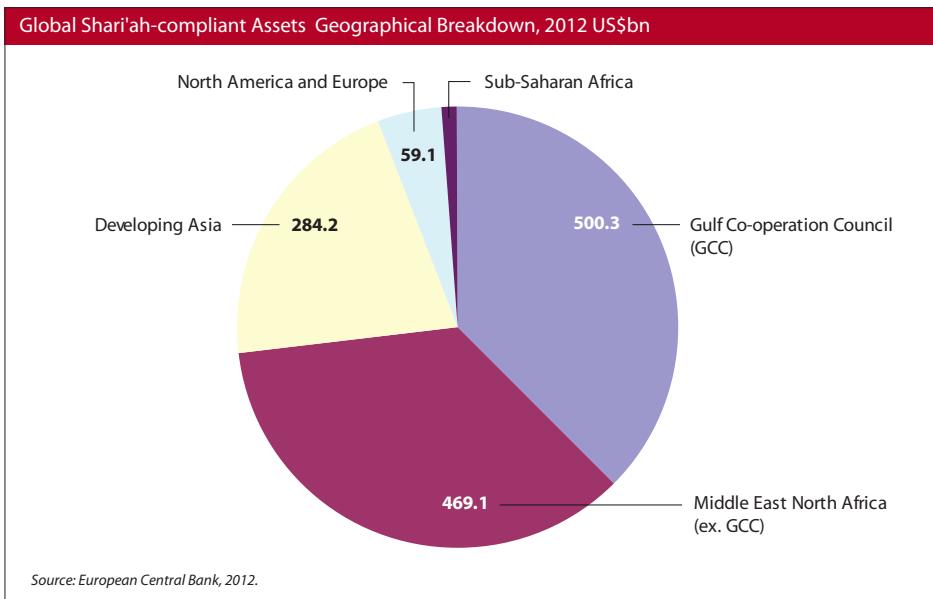
The development and role of Shari'ah-compliant banking operations in Sub-Saharan Africa

From humble beginnings over five decades ago in rural Egypt as a micro-lending institution, Islamic banking has grown into a global-scale industry, spreading from the Middle East to South-East Asia, sub-Saharan Africa, and Europe and the Americas. Virtually all-major western groups have also embraced Shari'ah finance in some form, whether through subsidiaries (Citi Islamic Investment Bank), special divisions (HSBC Amanah), and Islamic 'windows'. They employ the services of religious scholars, who meet regularly to vet investment decisions and the acceptability of new services.

The niche market for Islamic finance has grown at prodigious rate of 16 per cent annually since 2006. It now boasts some 350 institutions and total assets of about US\$2 trillion - compared to US\$140bn in 2000. The Islamic system is rooted on the principle of ethical and equitable mode of financing - with four underlying pillars: prohibition of interest (riba) and proscribed activities (notably intoxicant, pork, pornography, etc); avoidance of preventable uncertainty (gharar) and ambiguity in contracts and gambling (maysir); ethical values of justice, transparency, and public interest, including risk and profit sharing between involved partners; and a requirement that assets and investments can only derive from, and invested in Shari'ah approved activities, where transactions are backed by tangible assets.

Distinct characteristics

The Islamic financing differs from conventional banking activities like debt swaps, short selling, collateralised debt obligations, and most derivatives. Popular channels are trade/commodity financing, real estate and leasing. Shari'ah does not permit the creation of debt through direct



lending because credit can only be provided through lease or sale-based financing. Moreover, the debt created from lease transactions cannot be sold to a third party. These requirements make the lender bear responsibility for debt financing, thus help prevent excessive risk-taking and debt accumulation.

Money has no intrinsic value but merely serves as 'medium of exchange'. The creation of money, by charging [rent on money] as a reward for waiting is invalid. Money represents 'productive capital' - used for trading real assets and undertaking

ethical businesses - which can then yield legitimate profits and socio-economic gains. Thus, money becomes capital only when mixed with reasonable risks or enterprise. Professor John Presley said "Islamic Banking is all about taking risks and sharing that risk with the client."

The industry has set up global regulatory institutions to guide operations. The Accounting and Auditing Organization for Islamic Financial Institutions (AAOIFI), based in Bahrain, issues standards on accounting, auditing, and corporate governance, while the Islamic Financial Services Board (IFSB), based in Malaysia, oversees overall supervision and regulations.

Global brand

Although sub-Saharan region hosts large Muslim populations, Shari'ah banking is still undeveloped. The share of Islamic banks (relative to total financial assets) is modest, and Islamic capital markets are virtually non-existent. As of end-2012, about 17 Islamic

Figure: Global Assets of Islamic Banks

Year	US\$bn
2006	480
2007	600
2008	795
2009	820
2010	1050
2011	1200
2012	1550
2013	1700

Source: UKIIS report on Islamic Finance Oct 2013.

NEW DISCOVERY SPORT ADVENTURE. IT'S IN OUR DNA.



Introducing our most versatile compact SUV to date. Intelligent technology including class-leading Terrain Response® makes the New Discovery Sport perfect for the great outdoors. A generous storage space of 1,698 litres and clever 5+2 seating makes for a great indoors too.

landrover.guavauk.com



Official Land Rover Dealers in Africa

Côte d'Ivoire

Ivoiremotor
(+225) 21 25 22 32/33
info@ivoiremotor.com

Congo

GN SA Lemal
(+242) 06 96 92 222
dircom@europcar-congo.com

DRC

Arno Congo
(+243) 81 71 17 355
info@arnocongo.com

Gabon

Sivva
(+241) 01 74 17 57
contact.sivva@evoltis.com

Madagascar

Malgamobile
(+261) 32 03 901 31/32
malgamobile@edl.mg

Malawi

HTD Ltd
(+265) 18 71 660
zigaad@htdmw.com

Mozambique

Autogest
(+258) 21 22 00 12
geral.ljr@autogest.co.mz

Rwanda

Rwandamotor
(+252) 78 83 08 886
info@rwandamotor.com

Sénégal

L'Africaine de l'Automobile
(+221) 33 88 97 500
contact-lr@lafricainedelautomobile.com

For all other markets, please contact: info@guavauk.com

Find a dealer in Africa via landrover.guavauk.com

➤ finance institutions - comprising commercial banks, investment banks, and insurance operators - were operating in SSA. Botswana, Kenya, Gambia, Guinea, Liberia, Niger, Nigeria, South Africa, Mauritius, Senegal and Tanzania have Islamic finance activities. There is also scope in Zambia, Uganda, Malawi, Ghana and Ethiopia.

Four countries have considerable potential for becoming a regional hub for Shari'ah-banking:

- In South Africa, the Saudi Arabian-based Dallah Al Baraka group was the first Islamic bank granted a license in 1989 by the central bank; in 2004, WesBank launched an Islamic window, the WesBank Motor Vehicle and Asset Finance, followed by First National Bank with an Islamic window operating in deposits and transactional banking. In 2005, ABSA (now Barclays Africa Group) also launched an Islamic window. Other leading SA Islamic institutions are Stanlib Shari'ah Equity Fund and Element Islamic Equity Fund.
- HSBC Bank Mauritius in 2009 became the first conventional bank offering Shari'ah services. That year, the Bank of Mauritius granted a license to Century Banking

Corporation, making it the Island's first full-fledged Islamic bank. In 2010 India's Tata Group launched the Tata Indian Shari'ah Equity Fund to invest in selective Indian-listed companies. The domiciliation of the fund in Mauritius is the result of the Bank of Mauritius's efforts to position the island as a Shari'ah compliant hub.

- In Kenya, Barclays launched Islamic products in 2005. The sector later expanded with the introduction of two Islamic banks, First Community Bank in 2007 and Gulf African Bank in 2008. Kenya Commercial Bank and Standard Chartered Bank also have special Islamic windows. In 2010, Kenya amended Section 45 of the Central Bank of Kenya Act to allow the Central Bank to recognise the payment of a return rather than interest on government securities, thereby opening up the spectrum of Shari'ah compliant products.
- Bank PHB (Nigeria) was the first bank operating an Islamic banking window in 1992. In 2011, the central bank approved a banking license for Jaiz International Bank, the country's first fully-fledged Islamic bank, which became operational in 2012.

Diamond Bank (along with major Nigerian lenders) is also establishing an Islamic banking window.

Pan-African prospects

Shari'ah banking should gradually become more popular in SSA, given huge infrastructure needs, demographic structure and scope for financial deepening. South Africa, Senegal, Gambia, Osun State Government in Nigeria and Cote d'Ivoire has issued Sukuk to finance infrastructure projects.

"The development of Islamic finance in SSA could usefully complement countries' efforts to deepen their conventional financial systems by broadening the range of available options, extend maturities, and facilitate hedging and risk diversification. In addition, Islamic financing can also contribute to the development of small and medium enterprises and microfinance activities," noted the International Monetary Fund (IMF).

Demand for Islamic finance is likely to increase in coming years as the region's total Muslim population is projected to reach 386mn by 2020. ■

Moin Siddiqi, economist

Guide to Shariah-compliant assets

The industry uses a variety of instruments similar to Western-style financing and venture risk capital projects. These include:

- Murabaha is a resale contract, where a bank buys equipment or merchandise on customer's behalf and then sells to latter at a "mark-up" - pegged to the prevailing London Interbank Offered Rates (LIBOR). The transaction is deemed legitimate if charges are for services rendered and not for deferred payments. Pricing depends on credit ratings, transaction size and types of goods being financed. A Bank cannot [re-price] its receivables if LIBOR rises during the contract's duration. Service charge (Jo'alah) is justified because a bank accepts the risk of unforeseeable damage to goods from the time of purchasing and selling to the buyer. This technique confers tax advantages and enables firms to trade without increasing their leverage.
- Musharaka (participating financing), whereby both the financier and borrower jointly contribute funds to brownfield or greenfield project and either one or both may manage the business. Profits (or losses) are shared according to each party's financial contribution. Musharaka - applicable mainly for long-term projects - is the purest form of Shari'ah finance.
- Mudaraba (trust-financing) is a contractual agreement whereby an investor (Rab Al-Maal) entrusts capital to an agent (Mudarib) for managing a project. The former bears 100 per cent risk, whilst Mudarib enjoys autonomy over business decisions. Profits (or losses) are shared between the two parties on pre-arranged ratios.

Islamic portfolio business is structured on 'Two-Tier Mudaraba,' where the bank mobilises savings into either closed or open-ended mutual funds and an Amel (managing trustee) charges fees.

- Ijara Wa-iktina (hire-purchase), where the financier acquires an income-generating project for sole purpose of renting or leasing to clients against agreed rental, together with latter's agreement to make fixed payments into an "Islamic Investment Account," which subsequently leads, as stipulated, to the lessee's purchase (of title) from the lessor. This structure is used in Islamic mortgages and funding of aircrafts, automobiles and vessels (e.g. Emirates Airlines has used Ijara to finance its fleet expansion).
- Istisna (contracts of exchange) is a pre-delivery financing and leasing structured mode. This can be used to finance the manufacturer of plant/equipment or payments to builders during construction stages. A bank provides project finance and takes title upon completion and sells to a third party. Istisna forms an important component of infrastructure projects.
- Sukuk (Islamic bonds) are structured to pay rents or profits in accordance with investors' proportional ownership in tangible assets but not coupon interest rates. They fit well with capital projects that generate cash-flows to cover periodic payments. Malaysia defines Sukuk as "notes or certificates, which represent the value of a particular asset." Sukuk (like conventional bonds) carry maturity dates, coupons and yields - structured on Murabaha or Ijara models. At least half of Sukuk assets must be leased-back



ULISSE RADICAL.

The Pinnacle of PTZ Camera Technology

ULISSE RADICAL is a range of PTZ cameras for the most demanding applications.

RADICAL represents no compromise on performance.

These PTZs are factory assembled with top performance cameras and motorized zoom lenses, requiring only power and network connectivity to operate.

www.videotec.com



Broadcast Quality Video
1/2"CMOS Sensor, 1080p/60fps,
excellent low light sensitivity



High Performance IR corrected
zoom lenses 18x or 33x, up to 500mm,
AUTOFOCUS, Thermal Compensation,
Visible Cut Filter



Sharp images in no light
with powerful LED illuminators



Continuous working temperature
from -40°C to 60°C (-40°F to 140°F)



Simple set-up for PT,
camera and zoom lens



CCTV PRODUCTS

www.videotec.com

email:info@videotec.com

 Made in Italy, since 1986



- 'real assets'. The global issuance of Sukus for 2013 exceeded US\$115bn.
- Takaful (Islamic insurance) literally means "mutual guarantee". It operates on the basis of periodic contributions of funds by policyholders into a collective pool, which is administered by a Takaful company. The latter acts as the manager of entrusted funds responsible for admitting participants, collecting premiums, re-investing in Islamic-compliant assets and paying benefits on General, Life, Health and Pension policies.
- Bal'Salam (forward sales of commodities) represents purchase with deferred delivery, where a buyer pays the seller the full-negotiated price of a product deliverable at a future date. This instrument only applies to products whose quality and quantity can be fully specified at the time the contract is signed and mostly applies to agricultural or manufactured products. The rate of return depends on cash transaction rather than time dimension.
- Bal'Mua'jjal represents deferred payment sales agreement, where the seller permits a buyer to pay for a product at future prices in either a lump sum or instalments. Fixed price can be same as spot price, or higher/lower than spot price; contract should not include charges for deferring payments.

Iconic, innovative Islamic finance players awarded

The 9th London Sukuk Summit Awards, held recently at as part of the annual London Sukuk Summit in the UK, once again honoured market players at a time when the proliferation of Sukuk issuances continues unabated, led especially by Sovereigns and corporates, from both traditional and new markets.

The Sukuk Summit theme, 'Globalising Sukuk Beyond Traditional Markets, Structures and Asset Pools', aptly reflected the impressive developments in 2014 and 2015 and highlighted encouraging opportunities for the maturing and sustainable global and domestic Sukuk market, which has also been marked by exciting new innovation in Shariah and asset pool structures. The clarion call from speakers and participants is "more of the same, but much more" in terms of Sukuk issuances, size of volume, types of structures and frequency of offerings.

Developing the market

Indeed, the 2015 London Sukuk Summit Awards, whose main objective is to recognise the outstanding contribution and achievements of individuals, institutions, supra-nationals and financial centres serving the global Islamic financial services industry, especially the proliferating global Sukuk market, could not be more deserving to those recipients who have played their role in helping to further develop the market.

This year's guest speaker was Jerome Cle, a veteran of the mobile payments industry, a serial entrepreneur and Founder & CEO of Rising Sun Merchant Services. Mr Cle highlighted the huge advances made in mobile payments, e-commerce and the use of IT in the financial services industry. Other prominent guests included: Jaseem Ahmed, Secretary General of the Islamic Financial Services Board (IFSB), the prudential and supervisory standard setting board for the global Islamic finance industry; Prof Datuk Rifaat Abdel Karim, CEO of the International



Financial services intermediary DDCAP won two awards at the ICG 9th London Sukuk Summit Awards Ceremony 2015, for Best Shariah Compliant Asset Facilitation Platform and for Best Facilitator of Secondary Market Sukuk Transactions

Islamic Liquidity management Corporation (IILM); Dr Nik Ramlah Mahmood, deputy CEO of the Securities Commission Malaysia, and a bevy of top bankers, lawyers, accountants, business executives and academics.

The 2015 London Sukuk Summit Awards acknowledged a wide-ranging number of deserved recipients honoured in 18 categories from countries. This year's awards commenced with the recognition of four institutions that have contributed invaluable in the field of prudential regulation, liquidity management, capital markets supervision and private sector development.

The Islamic Financial Services Board (IFSB) was honoured with for Excellence for Outstanding Contribution to the Development of Prudential & Supervisory Standards for the Global Islamic Finance Industry. Jaseem Ahmed, secretary general of the IFSB accepted the award on behalf of the IFSB, which - under his watch - has issued seven key standards in recent times including the Core Principles for the Supervision of Islamic Banking and a Guidance note on Quantitative Measures for Liquidity Risk.

Another institution honoured was the International Islamic Liquidity Management Corporation (IILM) for Outstanding Contribution to the Development of International Islamic Liquidity Management Markets. The award was in recognition of the IILM's success in facilitating a global US dollar Shariah-compliant short-term money market for the Islamic financial services industry.

Another institution that is playing a huge role in promoting Islamic finance in the private sector and is also emerging as a major player in advising sovereigns from the developing countries, primarily with a below investment grade rating, to issue Sukuk is the Islamic Corporation for the Development of the Private Sector (ICD), which received an award for Outstanding Contribution to the Development of Islamic Finance in the Private Sector. The ICD was one of the arrangers of the debut Sukuk by Senegal and has since won mandates from the governments of Cote d'Ivoire and Niger to advise them on similar issuances. It is also talking to Senegal, Nigeria, Egypt, Tunisia and Togo on the possibility of future such issuances.

Advantage India in Nigeria

Confederation of Indian Industry (CII), in association with High Commission of India, Nigeria, and supported by India's Ministry of Commerce and Industry will be organising 'The India Show' in Lagos from 25-27 August 2015. The show is India's effort to promote 'Brand India' in countries and emerging markets with a demand for Indian products and technologies.

With a population of 175mn, Nigeria is Africa's most populous nation and is considered a political and economic powerhouse in the continent. The key US partner is rich in oil, a major trading partner with China, as well as the hub of global business in the region. Nigeria has been among the fastest growing economies in the world in the past decade with an annual average growth of 6.7 per cent.

Throughout the last decade, Nigeria's economy has responded with strong growth between 2003 and 2010, averaging 7.6 per

cent. It is ranked 30th in the world in terms of GDP purchasing power parity (PPP) as of 2013. In the continent, Nigeria continues to be a leading player in the African Union, the New Partnership for Africa's Development (NEPAD), and in the Economic Community of West African States (ECOWAS).

The Nigerian government is working toward developing stronger public-private partnerships for roads, agriculture, and power. Since 2008, the government has begun to show the political will to implement the market-oriented reforms urged by the IMF, such as modernising the banking system, removing subsidies, and resolving regional disputes over the distribution of earnings from the oil industry. GDP rose strongly in 2007-12 because of growth in non-oil sectors and robust global crude oil prices. Then Nigeria's President Jonathan Goodluck established an economic team that includes experienced and reputable members and has announced plans

to increase transparency, diversify economic growth, and improve fiscal management.

India at its best

India is one of the fastest growing economies in the world and has emerged as a key destination for foreign investors in recent years. The improved efficiency is in the economy and adoption of international best practices in the production of a range of goods and services. A third outcome is India ranking amongst the top ten investment destinations since 2007-08, attracting US\$195bn in FDI and US\$97bn in FII over the past five years.

The Indian government has recently opened up multi-brand retail and civil aviation markets to 51 and 49 per cent FDI respectively and with more reforms expected in insurance and pension sectors, among others, India will continue to offer compelling opportunities to the global investment community, Nigeria in particular. ■

NUMBER ONE FOR SATISFACTION

CARMIX INNOVATION

The number one self-independent off-road mobile batching plant that loads (and weighs) all the material, itself (water included), mixes and delivers concrete wherever and whenever required. Ideal for production of concrete on the roughest jobsite. Successfully at work in more than 140 Countries Worldwide.

CARMIX
Self-Independent Off-Road Mobile Batching Plant

METALGALANTE S.p.A. - Via A. Volta 2 - Novate di Pavia (Milano) Italy - T +39 0421 65101 - F +39 0421 658838
carmix.com

Driving new operational efficiencies with IT

Cloud technology creates a competitive advantage, increasing returns on investment and lowering the total cost of ownership

Cloud computing has the potential to deliver significant business benefit by turning IT into an operational cost rather than a capital expense.

The foundation of cutting-edge technologies such as mobility and collaboration, which are essential for competitiveness in today's business world, cloud also helps to simplify offsite disaster recovery (DR), enhance flexibility and scalability of technology, and ensure organisations can leverage the latest and greatest solutions and software updates without additional investment.

All of these benefits combine to deliver improved operational efficiency, allowing for a significant return on investment (ROI), lower total cost of ownership (TCO) of IT and, most importantly, the creation of a competitive advantage.

Flexibility is key

However, leveraging these benefits to their full extent requires flexible, self-service

IT service provisioning. Making sure this is in place and available is critical to the success of cloud implementations.

Cloud underpins a dynamic infrastructure service, of which flexible IT service provisioning is a vital component. As IT becomes increasingly consumerised and commoditised, self-service provisioning becomes essential in allowing users to fully leverage the flexibility of the cloud.

Self-service provisioning enables customers, or tech-savvy IT administrators, to provision their own virtual machines, as well as increase or decrease processing power and storage as and when required.

It can also be extended to enable customers to provision operating systems or even databases. This is made possible by the virtualised nature of cloud computing, whereby there is no need to go through lengthy procurement cycles to obtain physical hardware or software licenses, as all

components are delivered as a single service, creating a significant competitive advantage, while improving TCO and ROI.

Take, for example, a company that is responding to a market demand for a new service. In order to develop and deliver this service, four new servers may be required.

In order to commission these servers and go through the procurement channels and procedures, it could take up to six months for the servers to be ordered, delivered, configured and operational.

By then, the window of opportunity has probably passed and competitors that make use of IT service provisioning will have already delivered this same service to market.

Furthermore, the compute and storage requirements are usually inflated, as the developers will want to ensure they do not underestimate them.

This entails a hefty price tag and, by the time the project is completed, the capacity and computing power of these servers may not necessarily be fully utilised when absorbed back into the main IT infrastructure.

Something else which is often overlooked is the fact that operating systems become outdated, as does the server technology. What must be considered is the IT cost involved that contributes to the overall cost of the new service.

This is factored into establishing the price of the new service as an indirect cost, resulting in a higher price, which further hinders competitive advantage.

Staying one step ahead

Flexible, self-service IT provisioning effectively addresses all of these challenges.

The necessary additional servers can be provisioned in a matter of minutes, as opposed to months, allowing an organisation to take immediate advantage of opportunities.

Compute and storage capability can be added exactly to the required specifications,



A J Hartenberg, portfolio manager, data centre services at T Systems in South Africa

as this can be up- or down-scaled dynamically should the estimated requirement be inaccurate.

The cost of the additional capacity is added to the monthly cloud service fee, rather than requiring initial investment, and if it becomes obsolete in the future, this capacity can simply be removed from the virtual services basket.

Server and operating system technology will always be the latest solutions. As a result, organisations are empowered to take advantage of market opportunities quickly, and deliver more cost effective and agile solutions to their end customers.

With flexible self-service provisioning enabled by the cloud, organisations can dynamically scale IT infrastructure in both directions to add or remove servers, applications and other IT resources on demand.

The cloud and virtualisation effectively enable IT infrastructure and services to become commodities, to be consumed as services on demand. In addition, the IT department now becomes an IT service aggregator, rather than its traditional role as a procurement house for technology.

Cloud has become essential in creating a competitive advantage, as profits now rely on how quickly an organisation can get to the customer with services they need to become, and remain, engaged. ■

A J Hartenberg, portfolio manager, data centre services at T Systems (South Africa)



Surveillant Fire Ltd.

Fire & Security Systems Engineers



- Fire Fighting Equipment: Fire Pumps & Hoses
- Fire Extinguishers, Trucks & Ambulances
- Fire Detection & Suppression Systems, Passive Fire Protection.
- C.C.T.V. Access Control and P.P.E.

We are proud official representative of:



www.surveillantfire.com | info@surveillantfire.com

Head Office: Surveillant House 15B, Kasumu Street, Shangisha Magodo, Lagos Nigeria.

Hotline: +234-1-3427085 Mobile Tel: +2348023127298, +2347039098080, +2348093613092.

An East African integration initiative

Solutions on the table to enable development of key trading corridors to landlocked countries

The East African Community (EAC) and the World Bank have been assessing the challenges and opportunities in improving connectivity along key trading corridors to facilitate regional integration in East Africa. The 2015 Integrated Corridor Development convention, held at the UNESCO headquarters in June, brought together representatives from major bilateral and multi-lateral donor organisations to discuss solutions to facilitate the funding of corridor development in land-locked countries, such as Burundi, Rwanda and Uganda.

The cost of competitiveness

"In East Africa, high transport costs, poor infrastructure and underdeveloped logistics services limit the competitiveness and inhibit the integration of both the landlocked and

transit countries into the regional and global market. Increasing the integration between the different modes of transport through development corridors can significantly improve connectivity and contribute to higher growth in the region," said Pierre Guislain, senior director for the World Bank's transport and ICT global practice.

The event followed on from the third EAC Heads of State retreat on infrastructure development and financing, held in Kenya in November 2014, where EAC leaders endorsed a strategy and action plan to improve the quality of service, and reduce the costs of transport, through developing better links between the different modes of transport along the key trading corridors of the region. The attendant heads of state underscored their commitment to lead in the implementation of infrastructure

programmes and projects and endorsed the proposed 10-year investment strategy for priority projects, and directed the Council of Ministers to mobilise resources for its implementation. The Council is committed now to holding an annual roundtable for infrastructure investors and financiers in order to mobilise the required resources for infrastructure priorities. The next Infrastructure Retreat will concentrate on civil aviation and airports. The strategy itself, which the EAC Secretariat was tasked to implement, focuses on improving intermodality for freight transport along the Northern and Central Corridors, from the maritime ports to the inland lakes of Victoria and Tanganyika.

"The EAC views the implementation of the Intermodal Strategy projects as a critical input in the reduction of transport costs in the region," said Richard Sezibera, EAC secretary general. "The realisation of a strong EAC Common Market is predicated on the development of efficient infrastructure in the region. Our partnership with the World Bank, therefore, is greatly appreciated."

Collaboration and acceleration

During the convention, development partners and country representatives presented their institutional priorities, and discussed potential collaboration in accelerating the implementation of development corridor projects such as the Lake Victoria and the Lake Tanganyika transport programmes, which will require a total investment of US\$1.8bn, of which the World Bank has committed US\$850mn to date.

Development partners who participated in the convention included: the European Union (EU), the United Kingdom Department for International Development (DfID), JICA, the African Development Bank, the OPEC Fund for International Development, TradeMark East Africa, and the Development Bank of Southern Africa. ■

The Kampala-Jinja highway as it passes through Mabira Forest (Photo: TradeMark East Africa)



Work along the new line

Collaboration along the delivery chain is the key to success, as new demands on logistics companies, in terms of technology and as regards customer requirements, are having an effect on the delivery chain. Responding efficiently to these demands is the key. The challenges include transparency and cooperation in the delivery chain, e-commerce, big data and also sustainability.

Cooperation and transparency in the delivery chain is a hot topic. With globalisation, new technology and increasing competition, logistics companies are becoming part of a larger supply chain, operating in networks along with customers, suppliers and cooperation partners. As a result, logistics is continuing to increase in importance - in trade, industry, manufacturing and services.

Digital logistics boosts business in transport

Intelligent information and communication systems are core components in the logistics business: not surprisingly, then, digitalization is a key topic for all logistics companies.

Industry 4.0, 'Big Data', the 'Cloud' and e-commerce are just some of the terms and concepts that logistics professionals are tackling nowadays. In a globalised sector such as logistics, digitalisation offers great potential: for example, through cost-reduction, more flexibility and higher transparency. But it also presents challenges such as data security and communication infrastructure.

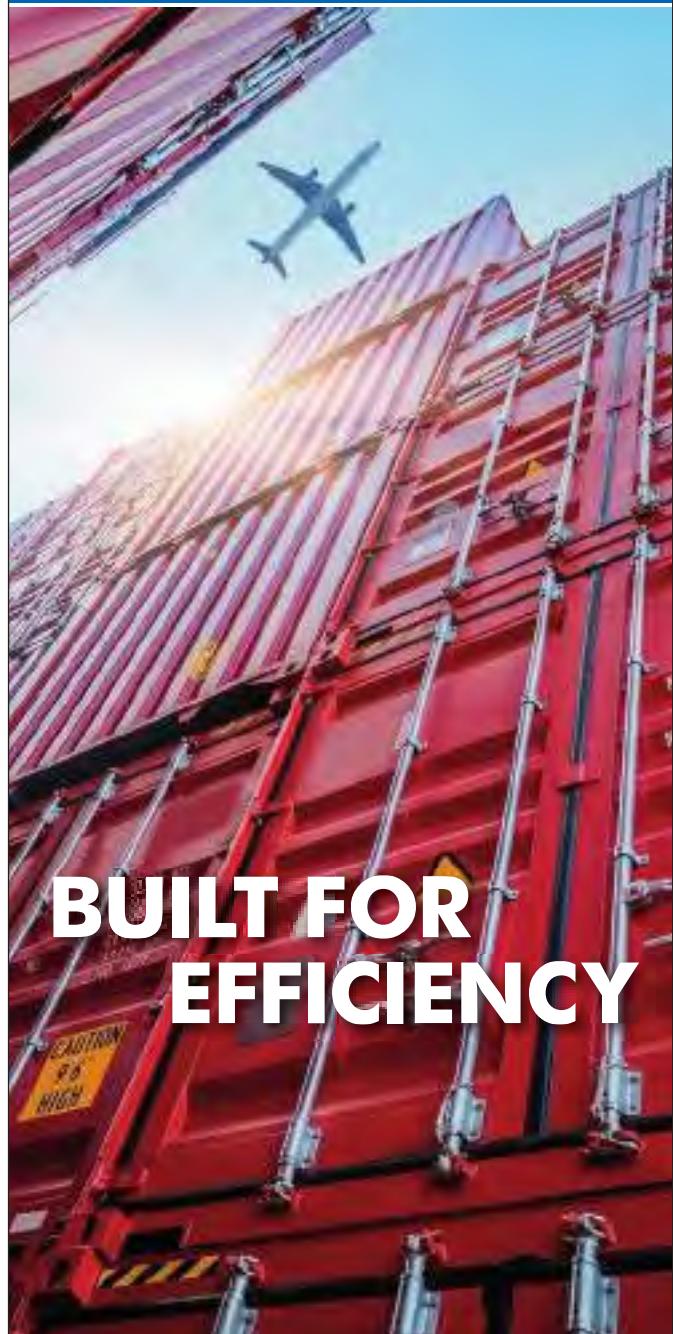
The applications being used today feed into the trends that are shaping the market, transforming business values for companies and their customers.

Amongst the enterprises to embrace the new, BLG has been sought to develop contract logistics constantly. BLG boasts around 16,000 employees at over 100 locations in Europe, North and South America, Africa and Asia. For an example of the company's investment in advanced operations, BLG's people point to the Frankfurt Logistics Center in Germany as an example of one of the most modern warehousing and order picking systems in the world. "G-Com" is the name of the highly dynamic and scalable warehousing and order picking system developed by Grenzebach Automation GmbH, which was acknowledged by AKJ Automotive's 'e-logistics award 2015' for the robot-aided intralogistics concept on which it is based. ■



Grenzebach automates logistics

SPEDAG INTERFREIGHT
Logistics connecting continents®



BUILT FOR EFFICIENCY

A dependable supply chain, based on highest quality and maximum efficiency, is a key ingredient for success. We are your dependable partner for transport and logistics solutions.

Spedag Interfreight Ltd.
4132 Muttenz / Basel
Switzerland

+41 58 677 77 77

**Worldwide Network.
Skilled Professionals.
Logistics connecting continents.**

www.spedaginterfreight.com

The potential for biogas in Africa

The business of renewable energy can be built around the almost limitless opportunities for processing the continent's rich natural resources

When thinking about renewable energy it's common to think of wind power and solar. However there is massive potential in Africa for the utilisation of renewable gas for power generation. Some naturally occurring microbes are able to break down organic material in the absence of oxygen to produce different types of biologically created gas – 'biogas' that consists primarily of methane and carbon dioxide. Renewable energy from biogas has the added benefit of being able to produce a consistent source of power, 'base-load', rather than just when the sun shines or wind blows. It can also be utilised for high efficiency combined heat and power generation – giving a useful source of renewable heating or cooling.

The organic material that is required to produce biogas is available in a wide range of forms on the African continent – some



Africa has vast untapped potential for the production of renewable, decentralised power (Photo: Philip Schedler)

uniquely so. This includes biogas from dumpsites – landfill gas, biogas from human waste – sewage gas, biogas from food wastes or agricultural materials and finally naturally occurring biogas, such as that found in lakes in Rwanda and Cameroon, or some mine sites in South Africa.

Biogas is a gas that is formed by a variety of anaerobic microorganisms. These microbes feed off carbohydrates and fats, producing methane and carbon dioxides as metabolic waste products. This gas can be harnessed by man as a source of sustainable energy. Biogas is considered to be a renewable fuel as it originates from organic material that has been created from atmospheric carbon by plants grown within recent growing seasons. Biogas creation is also called biomethanation. Biologically derived gases are produced as metabolic products of two groups of microorganisms called bacteria and Archaea. These microorganisms feed off carbohydrates, fats and proteins, then through a complex series of reactions including hydrolysis, acetogenesis, acidogenesis and methanogenesis produce biogas comprising of carbon dioxide and methane.

Extraction and utilisation

The organic component of household waste consists mainly of food waste and paper. When this is sent to a landfill (an engineered dumpsite) and waste reaches a depth of ~10 metres, is compacted and becomes anaerobic. Under anaerobic conditions the microorganisms which create biogas thrive. If the landfill site is correctly designed and managed the resulting landfill gas can be

YelloGen

New diesel generating sets with Perkins engines 20 - 2500 KVA



**Units are UK Built
Acoustic canopy machines 80 Dba
@ 1 metre Fully EU compliant**

Please visit our website www.yellogen.com
or call us for further details

YelloGen Diesel Generators
Specialist supplier of Power Generation Products
Tel: 0044(0)1430 850001
Fax: 0044(0)1430 850002
www.yellogen.com
mail@yellogen.com

- extracted, captured and utilised for power generation. At Bisassar Road in Durban, the gas from the landfill site is extracted and utilised to generate 6.4MW of renewable electricity supplied to the local power grid. In a geographically small country like the UK, Clarke Energy has supplied almost 500MW of landfill gas fuelled power generation equipment.

Food waste from factories or households can be separately collected from other waste streams. The fat and carbohydrate in the waste is a valuable potential source of food for the anaerobic microbes to utilise. An anaerobic digester or biogas plant is a man-made treatment facility for organic material. It typically consists of a reception area, a pre-treatment area to remove contaminants such as paper or plastic, shredders and a series of tanks for the creation of biogas under controlled conditions. As a rule of thumb 20,000 tonnes of food waste per year gives ~1MW of electricity Elgin Fruit in South Africa utilises the fruit pulp left over in the juice production process as a feedstock for anaerobic digestion with a facility that produces 500kW of renewable electricity. Waste materials from the farming industry can also be used in this manner. Tropical Power's biogas plant near Lake Naivasha in Kenya is able to produce 2.6MW of power from agricultural materials for local utilisation.

In the case of human waste its utilisation for the creation of sewage gas typically relies on the centralised collection of the material through a sewerage system. As human waste has already been digested by a person, a large amount of the carbohydrates and fats have already been utilised. There is also a high water content. This means you need a large amount of human waste to create biogas. Centralised collection and treatment of human

waste has the added benefits of improved sanitation and reduced pollution. If the waste water treatment plant includes anaerobic digesters, the biogas formation processes can be artificially harnessed in order to capture and utilise the gas for power generation. In Marrakesh and Fez in Morocco there are a number of sewage treatment works that process human waste for 5.4MW of renewable electricity.

Natural potential

The African continent also has highly unusual, naturally occurring sources of biogas, such as that which occurs in the depths of Lake Kivu in Rwanda and the Democratic Republic of the Congo. This lake produces biogas from the combined actions of anaerobic microorganisms at depth feeding off decaying organic matter, alongside processes associated with geothermal activity. In addition other forms of naturally occurring biogas are present in mine sites in South Africa. Archaea are one group of microorganisms that are able to feed off inorganic compounds in the rocks in mine sites to produce high quality biogas. This gas is typically extracted by ventilation systems but has also been flared to help ensure worker safety, but it can also be used as a valuable source of fuel for power generation.

In summary, Africa has vast untapped potential for the utilisation of various different organic and inorganic materials for the production of renewable, decentralised power.

In the coming years biogas will play a significant component in the continent's power generation mix. ■

Alex Marshall, Clarke Energy, alex_marshall@clarke-energy.com

The advertisement features a large image of a power generation facility with several large industrial buildings. In the foreground, a group of workers in dark uniforms and hard hats are gathered around a large piece of machinery, possibly a generator or engine. The facility has a prominent blue and green color scheme with the 'aksa POWER GENERATION' logo. A QR code is located in the bottom right corner, with the text 'Scan Me' above it and 'www.aksa.com.tr/aksa-service' below it. The overall theme is industrial and professional.

The emerging solar energy economy

Collapsing technology costs and fresh project finance are factors in the next revolution in power generation, storage and distribution

The advantages of solar power in Africa have not been fully exploited



The African continent, whose middle is squarely straddled by the tropics, is blessed with the highest concentration of sunlight in the world. Some 12.96mn sq km of Africa, more than 85 per cent of the continent, receives more than 2,000kW hours per sq metre per year ($\text{kWh}/\text{m}^2/\text{y}$) of incoming solar energy.

This is equivalent to around 49 per cent of the world's solar energy; more than double that of Australia - the second highest receiver - where 6.08mn sq km of its territory receives more than 2,000 $\text{kWh}/\text{m}^2/\text{y}$ of solar energy per year. In the Middle East, 2.59mn sq km of land receives more than 2,000 $\text{kWh}/\text{m}^2/\text{y}$ of solar energy per year; while in Central and South America the land area drops to 1.19mn sq km.

By contrast, in the whole of the European Union (EU), just 23,957sq km of its territory receives more than the requisite 2,000 $\text{kWh}/\text{m}^2/\text{y}$ of solar energy per year - from which it nonetheless

manages to tap more energy from the sun than the entire African continent.

The sheer paucity of solar power installations in Africa means that over the decades the continent has essentially rendered to waste the potential benefits of an endlessly renewable energy resource.

With a population of 910mn, the whole of sub-Saharan Africa, currently consumes only 145 terawatt hours of electricity a year - the equivalent of one incandescent light bulb per person for three hours a day.

A notable exception has been South Africa - the only country in the continent with a photovoltaic power station of more than 50 megawatts (MW).

But there are tantalising signs that this could be the year when things begin to change and Africa's woeful decades-long history of 'under-electrification' could soon be a thing of the past.



BIOCASH

Make sure that your biogas produces the most biocash

Biogas is a renewable fuel, but if your gas engine isn't running you are losing valuable revenue. Clarke Energy delivers quality combined heat and power (CHP) installations, backed up by a large African network of gas engine service engineers. We offer a high quality, reliable service, minimising equipment downtime and maximising your long-term revenues. For more information on the benefits of CHP go to clarke-energy.com or contact our sales dept using the details below. Clarke Energy is an authorised distributor for GE's reciprocating engines in Africa and 17 countries globally.

- + Clarke Energy provides high quality gas and diesel fuelled power plant solutions
- + We support the product with a highly trained network of African service engineers
- + This combination delivers the highest levels of equipment availability for our customers



► An electrical revolution

Underpinning this 'electrical revolution' is the collapsing cost of solar power and the fall in the price of light-emitting diodes (LEDs) that are the source of the new generation of light bulbs. The third crucial revolution is in power storage.

An Economist report suggests that the capacity needed to produce a watt of solar power (enough to run a small light) has now come down to US\$1 from US\$4 in 2008. And the simplest solar-powered lamps now cost around US\$8.

The sales of devices that are approved by the IFC/World Bank's 'Lighting Africa' programme are believed to be nearly doubling annually. In 2009, just one per cent of un-electrified sub-Saharan Africans used solar lighting. Now, says the International Energy Agency (IEA), it is nearly five per cent. It estimates that by 2030, 500mn people who are currently without electricity will have at least 200 watts per head because of solar power.

The benefits of solar power will augment virtually every aspect of African society, says Charlie Miller of the charity SolarAid. SolarNow, a Ugandan company has developed a US\$200 low-voltage television

set that runs on the direct current (DC) used by solar systems. And a British-designed fridge called Sure Chill that needs only a few hours of power a day to sustain a temperature of four degrees centigrade has been unveiled. In South Africa, a company has even succeeded in launching solar-powered ATMs for rural areas with intermittent mains power.

A pipeline of projects

In a recent article for the National Law Review, Mipe Okunseinde of the law firm Covington & Burling LLP and Adele Faure wrote that an impressive number of solar projects are now coming online across the continent and, crucially, more are in the pipeline.

In Rwanda, Gigawatt Global has completed the construction of the first utility-scale PV plant in the East Africa region. In West Africa, construction is underway at the Nzema solar plant in Ghana, which, with a projected capacity of 155MW, will be one of the top ten largest PV plants in the world when completed. ■

Nnamdi Anyadike

Scatec Solar to build first large-scale solar plant in West Africa

An historic agreement to Build-Own-and Operate West Africa's first utility-scale solar power plant was signed here today by Norwegian company Scatec Solar (<http://www.scatecsolar.com>) and its partners, the Malian Ministry of Energy and Water and Electricité du Mali (EDM), the electricity utility of Mali. To be located near the ancient city of Segou in South-East Mali, 240 kms from Bamako, the 33 MW solar project is being developed in partnership with IFC InfraVentures and the local developer Africa Power 1.

Speaking on the occasion, the Malian Minister of Energy and Water, Mr. Mamadou Frankaly Keita said, "This landmark agreement signals the Government's

commitment to meet the nation's growing energy demand and to provide clean, renewable and affordable energy to our people".

Today's agreements include a Power Purchase Agreement (PPA) between EDM and Segou Solaire SA, the local project company controlled by Scatec Solar, for the delivery of solar power over the next 25 years. The PPA with the utility is complemented by a Concession Contract with the Government of Mali, granting license to Segou Solaire to operate.

With this PPA, Scatec strengthens its position as the leading, integrated solar IPP (Independent Power Producer) in Africa. The Oslo-headquartered company's CEO

Raymond Carlsen said, "This project is another great milestone for Scatec Solar. After several years of development efforts in the region, we can now move forward with the first utility-scale solar plant in West Africa. The Malian Authorities have demonstrated decisive will to tackle the nagging issue of power supply."

Scatec Solar ('SSO') will own 50 percent of the power plant and World Bank's project development fund, IFC InfraVentures will hold 32.5 percent, while the local project development company, Africa Power 1, headed by Dr Ibrahim Togola, will hold 17.5 percent. Scatec Solar will construct the plant, and in addition provide operation and maintenance services after the plant is connected to the grid.

"One of the pillars of the World Bank's Country Assistance Strategy for Mali is to increase access to energy, a development fundamental. IFC InfraVentures' partnership with Scatec Solar and Africa Power 1 helps advance this strategy through Scatec Segou, part of a series of renewable energy projects we are developing in the country," said Alain Ebobisse, Global Head of IFC InfraVentures.

Dr Ibrahim Togola, the chairman of Africa Power 1 SA and General Administrator of Scatec Solar West Africa says: "Today's event is historic because Mali now becomes the first country to install the largest solar grid-connected power plant in the region. This high profile joint-venture in which Malian citizens participate will serve as a model to launch the solar era in West Africa"



Linde's solar power plant in South Africa



EKO Signature **EKO SUITES** **EKO HOTEL** **EKO GARDENS**

Plot 1415 Adetokunbo Ademola Street, PMB 12724
Victoria Island, Lagos, Nigeria, Tel: +23412772700-5
(ext,6124) +23414606100 -29 Fax +234 1 2704071
sales@ekohotels.com, reservation@ekohotels.com
banquet@ekohotels.com, www.ekohotels.com

...nesting international standards with African hospitality

A vital force for the future

The economic conditions and industrial factors affecting the introduction of renewable energy

As South Africa's embattled energy utility Eskom struggles to keep the country's power supply afloat, the economy is losing billions of rand due to scheduled blackouts (load shedding) intended to relieve the ever-increasing pressure to the grid.

Eskom has cited maintenance to its base load power plants, along with escalating demand, as the main reasons for the crisis. The completion of the Medupi and Kusile power stations, which will become the biggest coal-powered plants in the country, is running four years late, and the projected cost of construction has risen from around R150bn (US\$12bn) to over R320bn. It is foreseen that electricity supply will continue to be highly constrained for at least the next five years as the build programme catches up with demand.

Internal squabbles amongst Eskom's top brass, as well as huge debt and unrecovered municipal bills, have added to the bleak situation, prompting the parastatal to request tariff hikes of up to 25 per cent for 2015/16. The National Energy Regulator of South Africa (NERSA) approved a 12.69 per cent increase, but this is unlikely to raise Eskom from what is looking like a deepening black hole.

In the face of this predicament, it has become more important than ever for South Africa to focus on using renewable energy to supplement power supply. The government's Renewable Energy Independent Power Producer Procurement (REIPPPP) programme, currently in its fourth bidding window, is surging ahead with a number of wind, solar, biomass and hydro projects, and 37 projects have been connected to the grid to date. The bidding rounds attracted a wide variety of domestic and international interest, and have successfully channelled substantial private sector expertise and investment in renewable energy, at competitive prices.

To alleviate the electrical energy shortfall South Africa is facing, the National Department of Energy (DoE) has expanded and accelerated their IPPP programme. A public commitment by the Minister of Energy indicated that a total of 17,000MW new operational capacity from renewable energy, coal, gas and cogeneration will be targeted over the next seven years.



Large energy intensive users still require supplemental energy supply overnight

“Household solar together with local battery storage is the way forward in most economies in Africa”

Although coal will continue to be the main energy source for the foreseeable future, the long-term goal is to have renewables supplying 19 per cent of South Africa's electricity (17,800MW) by 2030, a target which the country's Department of Energy (DoE) says is well within reach. To date, the IPPPP has successfully procured 6,327MW in Bid Window. By end March 2015, 1,827MW of the procured capacity had already started operations (including two projects in early operations). In terms of national targets, this represents 10 per cent towards the 2030 target and 25 per cent towards the 2020 target,” the Department's media desk said in response to enquiries.

Programming for the power environment

It has been widely recognised that South Africa's potential for producing renewable energy is massive.

The United Nations Environment Programme ranked the country among the top ten renewable energy investing countries in the world for 2014 in its March 2015 Global Trends in Renewable Energy Investment publication. The World Wildlife Fund also lauded the project in a recent assessment, describing it as “a flagship public-private partnership model for South Africa, and indeed the rest of Africa, and is helping alleviate Eskom's current power crisis while also reducing greenhouse gas emissions”.

The first wind and solar IPP projects have reportedly saved the country more than R3.7bn in diesel and fuel costs, while 120 hours of unreserved energy has saved an additional R1.6bn.

“In 2014, the renewable energy REIPPPP already generated net financial benefits of R800mn. This amount is expected to increase sharply as more projects become operational and supply electricity to the energy grid,” said the DoE.

However, while the REIPPPP is alleviating South Africa's insufficient electricity generation capacity, in isolation, renewable sources will not be enough to ensure the sustainability and reliability of electricity generation and supply.

“Therefore, the programme has been extended to also include the procurement electricity from coal, cogeneration and gas sources. In combination, it is this mix of electrical power provision by the private sector that will solve South Africa's electrical energy crisis,” the DoE observed.

Along with the massive scope of the programme comes several risk factors, including investor confidence and alignment between generation and transmission planning. According to the DoE, “High renewable energy potential zones are not necessarily aligned with existing grid networks. In the case of South Africa, the alignment between generation and transmission planning and implementation remains an issue”.

The design of the IPPPP as a rolling competitive bid window programme established market confidence early on. But to maintain this confidence, investors require an enabling investment environment and a line of sight into the roll-out of the procurement programme.

"Certainty on grid connections and continuous improvements through lesson learning from previous bid windows are some of the key issues for minimising investor uncertainty," the DoE said.

Energy analyst Chris Yelland refers to the programme as one of the biggest of its kind in the world, and is a positive example of the influence private sector investment can have.

"Driven by government, the programme has brought in enormous expertise and capital from the private sector, at no burden to the taxpayer. IPPs are bringing in 15 times more renewable energy than Eskom, and this proves the power of multiple projects running parallel to each other, rather than relying on one vertically-integrated monopoly," Yelland explained. He further emphasised the importance of moving away from coal as the primary source of energy, but warns that renewable energy is not a silver bullet," Yelland pointed out. "Coal isn't going away anytime soon, and we mustn't look to renewable as a magical solution. But there is a need to diversify to other sources, which are abundant. The programme has been very effective in doing this, with projects being completed on time and to budget."

There are however several critics of the programme, such as energy consultant Ted Blom, who believes that restrictive regulations on household-generated solar power have hampered the progress of renewable energy provision.

"Since the start of the REIPPP process, independent household solar has become far more affordable, and current calculations indicate that if allowed, between 8-10GW of new renewable solar could be added to



Technological breakthroughs have removed the hurdles from self-generation via renewables

the grid in under 12 months. If implemented equitably, this would generate a return of around 20 per cent per year for households," Blom said. He adds that, in a largely sunny country such as South Africa, household solar could generate meaningful cash flow to the poor and unemployed, especially with the advent of technological breakthroughs that allow self-generation.

"Household solar together with local battery storage is the way forward in most economies in Africa - and it will break the stranglehold most electricity utilities have had on adequate and cheap supply to households," Blom noted. ■




HELUKABEL®
 Your Partner in High-Performance Cables

Cable Solutions for Photovoltaic Systems

- **SOLARFLEX®- X PV1-F**
Ozone and UV resistant, rodent protection available, halogen-free
- **Copper and Aluminum Power Cables: NYY - NAYY**
Connecting the inverter to the grid
- **HELUKAT® 600AE S/FTP, armoured**
Monitoring photovoltaic systems, for outdoor installation or direct burial
- **PV MC4 Coupling Connector**
Connecting Technology for Solar Cables
- **Pre-assembled Cable Solutions**





HELUKABEL® South Africa
 Doug Gunneweg · PH: +27 (0)11 462 8752
sales@helukabel.co.za

HELUKABEL® Headquarters, Germany
 Laurent Gimenez · PH: +49 7150 9209 928
Laurent.Gimenez@helukabel.de

www.africanreview.com

African Review of Business and Technology - August 2015

41

Côte d'Ivoire's new energy capabilities

The inauguration of the third and final phase of the Azito power plant marks a milestone in West African economic development

In 1996, with discoveries of oil and gas in Côte d'Ivoire's offshore waters and the emergence of new infrastructure financing models, the Ivorian government sought to attract the private sector to increase electricity generation. An international tender was launched for this purpose, and the state established a private company, Azito Energie (formerly called Cinergy) in a concession agreement for the financing, construction and operation of a new power plant. Fuelled by natural gas, a location at Azito was selected in the Yopougon district – about 5km from the centre of the Ivorian commercial capital, Abidjan. As the director general of Azito Energie, Luc Ayé, explained to African Review, the objectives were threefold.

"The plant was designed principally to meet the country's growing electricity demand; to use the natural resources of Côte d'Ivoire's offshore reserves; and to position the Côte d'Ivoire as electricity exporting country in the West Africa sub-region," he says.

Azito Energie was established as an independent power producer (IPP) with a mission to utilise natural gas to generate electricity. Since 2000, it generated 300MW operating two combustion turbines. But the recent inauguration of a new steam unit will substantially increase that production.

"All the energy we produce is made available to the state utility company, the Ivorian Electricity Company that transports and distributes it to customers through their grid," Ayé explained. "Our company's shareholders include Globaleq (a subsidiary of CDC), and the Ivorian industrial group IPS WA (a subsidiary of the Aga Khan Fund for Economic Development, AKFED)."

Ayé's background includes several years of experience in the development of similar projects in the sub-region with the industrial group IPS West Africa, and the co-ordination of privatisation projects in public administration, in particular the Ministry of Economic Infrastructure.

"After an engineering training program in mechanical engineering in Europe, I had the opportunity at the beginning of my professional career to be associated with this important infrastructure project, one of the first infrastructure projects in Africa to benefit from an entirely private 'build, own and operate' (BOO) funding structure involving no state backing," he said. "I have had the privilege and responsibility to lead Azito Energie since 2007."

Before the first electricity was generated, or even the first steps were taken to build the power station, Ayé says the project faced considerable challenges.

"Before talking about the operational stage, I would first like to revisit a crucial step, which was decisive for the implementation of this project. This was the design and contractual structuring of the project," he says. "In fact it was necessary to establish a new framework to govern the relationship between the state, the private concessionaires



With a 50 per cent increase of Côte d'Ivoire's annual electricity production, the country will have more than 3,000GWh available by 2016

responsible for managing the electricity service, the independent power producers, and donors involved in financing," he adds. "The implementation of this type of BOO contract was unknown at that time, and the viability of the project required an adaptation of the institutional and regulatory legislation, particularly regarding the transparency and management of financial flows to the sector, the setting up of a specific tax and customs arrangements, etc. – measures that were sometimes at odds with all the different actors, but were made possible thanks to a strong political will."

In short, it was not always easy to introduce the framework and conditions conducive to private sector involvement.

Having achieved that part of the project's development, Ayé encountered a new set of tests. "In the operational phase our challenges were, and still are, to maintain a high level of reliability and the optimum performance of our facilities to meet the needs of the utility company to fulfil our contractual obligations.

"Besides a rigorous daily maintenance programme, we also carry out regular inspections and major revisions to the main equipment in agreement with our principle subcontractor Alstom of Switzerland."

Between 2000 and 2010, Ayé explains, little investment had been made in the power sector due to the conflict that the country endured. But from 2011, the government restored the confidence of private investors and reinvigorated the sector with vigorous proactive policies. Ayé put it this way: "We had the obligation to produce electricity, but we also needed to guarantee to our investors that we could secure the payment by the local utility for the electricity we were generating." ■

Stephen Williams



Clean energy for life.[™]

No Boundaries



When it comes to deep-cycle batteries, no one goes to the extremes of performance like Trojan Battery Company. Our full line of deep-cycle flooded, AGM and gel batteries are ideal for all of your energy storage needs.

We'll keep breaking the boundaries. Where you go after that is up to you.



RE

Renewable Energy / Backup



For more information about purchasing Trojan batteries, visit www.trojanbattery.com. To inquire about Trojan products or distribution opportunities in Africa, call +27 (0) 71 5222 001, or email REsales@trojanbattery.com.

The underdeveloped energy industry

The continent's capacity for electricity generation lags behind the soaring increases in demand

It is an unquestionable fact that sub-Saharan Africa is starved for electricity and the consequences for the region's economic growth are grave. A recent report into Africa's electricity sector by McKinsey & Company - the American management consulting firm - reported that, from an electricity-access point of view, sub-Saharan Africa's situation is the world's worst. The region has 13 per cent of the world's population, but 48 per cent of the share of the global population without access to electricity. The only other region with a similar imbalance is South Asia, with 23 per cent of the world's population and 34 per cent of the people without access to electricity.

Developing industry infrastructure

However, Africa's power sector troubles are also compounded, says McKinsey, by the fact that the underdevelopment is spread right across energy access, installed capacity and overall consumption. And because of the direct correlation between economic growth and electricity supply much of the region, despite an abundance of raw material resources, is yet to fulfill its development promise.

Only seven countries - Cameroon, Côte d'Ivoire, Gabon, Ghana, Namibia, Senegal and South Africa - have electricity access rates exceeding 50 per cent. The rest of the region has an average grid access rate of just 20 per cent. The only countries that have electrification rates of less than 80 per cent with GDP per capita greater than US\$3,500 are those with significant wealth in natural resources - such as Angola, Botswana, and Gabon. However, even these countries fall well short of economic prosperity.

Average electricity consumption in sub-Saharan Africa, excluding South Africa, is only about 150 kilowatt-hours per capita - a fraction of consumption rates in Brazil,

India, and South Africa. So with almost 600 million people in sub-Saharan Africa lacking access to electricity the task of electrifying the region is truly enormous.

But there is room for optimism in the longer term. Demand is rising and the outlook, based on a demand-driven approach, is that by 2040 sub-Saharan Africa will consume nearly 1,600 terawatt hours, four times what was used in 2010. This forecast by McKinsey is predicated on a fivefold increase in GDP; a doubling of population; electricity-access levels reaching more than 70 per cent; and increased urbanisation. If this trend is indeed borne out then sub-Saharan Africa will consume as much electricity by 2040 as India and Latin America combined did in 2010.

Satisfying this level of demand though will be extremely challenging. And the likelihood is that electrification levels in the region will only reach 70 to 80 percent by 2040. McKinsey's research found that it takes on average 25 years to progress from a 20 percent electrification rate to 80 percent electrification rate.

Nonetheless, sub-Saharan Africa is well endowed with natural resources for future power generation. Excluding solar, the estimate is of a potential 1.2 terawatts of capacity. But when solar is included this potential capacity leaps to a staggering 10 terawatts or more.

There is also a potential for about 400 gigawatts of gas-generated power, with Mozambique, Nigeria, and Tanzania alone representing 60 per cent of the total capacity.

Hydro power can supply about 350 gigawatts of hydro with 50 per cent coming from the Democratic Republic of the Congo (DRC). The massive Grand Inga 40 gigawatt hydroelectric project in the DRC - if it were to happen - would be the largest infrastructure project in history and with

the ability to deliver more than 200 terawatt-hours of electricity. This is the equivalent of 13 per cent of all of sub-Saharan Africa's total power demand by 2040. No one is sure exactly how much it will cost, but the estimate accepted by McKinsey is about US\$80bn, comprising roughly US\$40bn for generation and US\$40bn for transmission.

Promisingly, there are now moves to expand the sub-continent's hydro capacity into the Sahel region. In June, the Eranove Group - a major pan-African player in the electricity and water sectors - signed a 30-year concession agreement with the government of the Republic of Mali through its subsidiary Kénié Energie Renouvelable.

Under the terms of the agreement, the group will finance, develop, build and operate the Kénié hydro-electric dam located in Baguinéda on the Niger River, 35 km east of the capital Bamako. Construction is due to begin in 2016 and the dam is scheduled to be in operation by 2020.

This development is an important one for power-hungry Mali. According to World Bank estimates, the country's current installed power capacity of approximately 414MW covers only half of potential demand. Initial simulations suggest that the Kénié dam could produce around 175GWh, which is equivalent to the average annual consumption of 175,000 households.

Marc Albérola, CEO of the Eranove Group said, "As part of the regional integration of power transmission networks, hydro-electricity can play a key role in increasing power generation capacity. And we mustn't forget micro and pico hydro-electricity either. These small hydro-electric facilities can supply power to villages or groups of villages in remote areas far away from interconnected transmission systems." ■

Nnamdi Anyadike



VERY SPECIAL
B&B SGL/DBL
SÓ / ONLY
230 USD

OFFER

Relaxaway WEEKENDS

TARIFA DE FIM DE SEMANA SUPER ESPECIAL WEEKEND VERY SPECIAL RATE

230 USD Por Noite, Por Casal em Quarto Duplo com Pequeno-almoço
Per Night. Per Couple in Double Room with Breakfast Included

Válido De Sexta a Domingo / Valid From Friday to Sunday
Quarto /Room: Standard, Deluxe, Studio

Book Now: Reservations@serena.co.mz & +258 21 241 700

Aplicam-se os Termos e Condições das Reservas / Reservations Terms And Conditions Apply
Oferta Valida até / Offer Valid until: 31.08.2015



POLANA SERENA
HOTEL

FG Wilson's model for network expansion

Chinese dealer network grows following the introduction of the new F Model range of generator sets



Less than a year since FG Wilson launched its hugely-successful F Model range, the leading global manufacturer of diesel and gas generator sets will be expanding the range further throughout the next 18 months.

The 32–125kVA range of generator sets, which complements the existing suite of FG Wilson product ranges, has proved extremely popular with customers across the world with its design providing a more diverse and competitive product offering across multiple customer segments such as domestic, retail and industrial.

Meeting the market with quality models
Uncompromising on quality, availability and expert local support, these models deliver uncomplicated power assurance with the quality excellence which the world has come to expect from FG Wilson. Until recently the 32–125kVA range had only been available in 50Hz but customers are now able to be purchase this range in 60Hz also.

Plans are also advanced for the launch of the F Model range in a number of different sizes – both smaller and larger – to meet the rising demand for the product in countries such as China, Brazil, Russia and Africa. Over the next 18 months the range will become available in 9.5–22kVA, 150–165kVA, 200–220kVA, 275kVA, and 340–390kVA.

An exclusive feature of the F Model range which has been an important factor in its success during the first year on the market is the introduction of the FG Wilson engines to the proven and trusted FG Wilson generator

set core design. Coupled with robust, world-renowned components, the F models deliver a high quality, ready-to-run product that meets industry standards for the value-utility market.

Dealers in new business

Running in tandem with the successful launch of the F Model range has been the growth of FG Wilson's official dealer network across China. During 2014 FG Wilson expanded its dealer network in China with the recruitment of five high-quality companies which has improved its reach across four key provinces – Shandong, Jiangsu, Hunan and Sichuan. These new dealers will work alongside one of the most long-standing dealers in the region, FG Wilson Hong Kong, who have been providing high-quality diesel and gas generator sets as well as expert advice and specialist technical support to Hong Kong, China, Macau and Taiwan since 1991.

Dealer recruitment is ongoing and we are engaging with a number of firms with a proven pedigree to establish new dealers in areas including Jiangsu, Anhui, Fujian, Jiangxi, Hubei, Henan, Hainan, Guizhou, Yunnan, Gansu, Shanxi, Inner Mongolia, Jilin, Heilongjiang, and Ningxia.

Neil McDougall, Retail Global Sales Director, commented, "FG Wilson is continually searching for opportunities to consolidate our position as the leading global manufacturer of diesel and gas generator sets. The expansion of our dealer network in China and the

upcoming launches of our ever-popular F model range in a number of new sizes are very tangible examples of FG Wilson ensuring all of our customers' needs are fully met.

"The F Model product range has delivered on our promise of providing performance, serviceability and durability with a FG Wilson engine and a simplified choice of options. The forthcoming introductions of the new F model sizes will allow us to compete in even more new markets and broaden our customer base further.

"Such new product introductions are part of Caterpillar's strategic plans to position FG Wilson as the volume brand within its Electric Power Division for all diesel and gas generator sets from 6.8–750kVA.

"The expansion of our dealer network in China comes just six years after the relocation of FG Wilson's Asia Power Systems (APS) to a 28,000m² world class facility in Tianjin, purpose built to fulfil increasing demand. Highlighting our policy of continued investment in our world-class manufacturing facilities across the globe, the APS plant in China is one of the main source plants for the recently-opened Product Distribution Centre (PDC), located at Antwerp, Belgium."

With manufacturing plants located in the UK, Brazil, China, India and the USA, FG Wilson's 'One Global Standard' guarantee ensures that every one of its generator sets is designed and manufactured to the same global standard. ■

For more information, visit www.fgwilson.com



**POWER
NIGERIA**
EXHIBITION & CONFERENCE

3 - 5 NOVEMBER 2015
EKO HOTEL, LAGOS – NIGERIA



Are you a manufacturer/supplier of power, lighting,
water, renewables or nuclear solutions?

If so, meet the buyers for Africa's largest economy
at Power Nigeria.

BOOK YOUR STAND TODAY

www.power-nigeria.com

Volvo's African expansion

The Swedish manufacturer of construction machinery is looking to conquer the market in a continent full of potential



The new L120Gz in action - the G series is designed primarily for application in quarries and mines. (Photo: Volvo CE)

Volvo Construction Equipment (Volvo CE) is one of the largest manufacturers of construction machinery in the world.

The company's status as a premium brand has traditionally made Europe and North America its biggest markets, but the relative slow-down in the construction sector in these heartlands, combined with the proliferation of infrastructure projects across the emerging markets has led it to turn its attention to the potential of areas like the Middle East and Africa.

While construction in the former has been more explosive and immediate, the sector on the African continent is set to grow more steadily.

"Africa continues to be important to Volvo CE in the long-term," says Johan Haglund, Volvo CE's vice president Hub South (Africa). "We don't expect the market to take off 'like a hockey stick', but we expect long-term continuous growth."

Mining and energy firms continue to drive the demand for infrastructure across the

region, with business research group BMI recently predicting the continued proliferation of industrial facilities, particularly in coastal regions.

"We find that South Africa and Algeria are the biggest purchasers of construction equipment," says Haglund, confirming that "in South Africa our machinery is mainly used for coal and hard rock mining, whereas in Algeria, road machinery and excavators are especially popular for infrastructure projects."

Haglund says Volvo CE's sales in Africa therefore centre on three main pieces of machinery; excavators, wheel loaders and articulated haulers.

Wheel Loaders

"As a percentage of the global construction equipment market, value brands have gradually been growing towards 70 per cent of the total world market, while you can see the percentage and proportion of the premium brands has been gradually decreasing," explains Tomas Kuta, president of

Volvo CE for the EMEA (Europe-Middle East-Africa) region. "That's a trend we see developing basically everywhere; to a lesser extent in some of the more mature markets but definitely extreme development in many of the emerging markets – particularly in Africa."

With this in mind, the company recently released a new range of wheel loaders, designed specifically for the region; the 'G-series'.

Volvo say the three new models, the L60Gz, L90Gz and L120Gz, are tailored to increase productivity in the most demanding conditions, featuring load-sensing hydraulics, a powerful and durable Z-bar linkage and a well-matched powertrain.

"Our research has shown that a significant number of African customers are using the wheel loaders with the bucket only, often fitted at the factory, so they don't require the flexibility of the TP linkage," Haglund explains. "The Z-bar linkage offers a higher breakout force when using buckets and because of this

► it will be better optimized for African working conditions."

The G-series machines also have the same transmission, engine and axles used in Volvo's other wheel loaders, such as the F Series, but with certain other aspects of the specification made optional in order to minimize the base cost.

As well as their application in mines and quarries, Volvo said the G Series machines are ideal for use in cement factories – another growth industry for Africa, where the expansion of the construction sector is feeding a growing demand for building materials.

Articulated Haulers

Volvo's range of highly adaptable articulated haulers are well-suited to both construction and mining, and so, are popular across the continent – particularly the A35 model which is a favourite in South Africa.

The machines are produced at the company's factory in Braås – dubbed "the home of articulated haulers" by site manager Jörgen Sjöstrand – where more than 72,000 units of various designs have been produced since 1966.

The haulers have a robotically-welded, heavy-duty frame, which is shot blasted with steel pellets rather than sand to reduce the need for after welding, providing additional strength and durability.

The frames have a high ground clearance and multiple oil-cooled disc breaks on all three axles, making them ideal for off-road applications, and all models come equipped with hydro-mechanical steering for precise turning and maneuverability.

The haulers can also be fitted with a number of optional extras to better adapt them to one or more of Africa's wide range of extreme environments.

"Each country, or at least



Robotic welding at Volvo's Braås plant.
(Photo: Volvo CE)

each region has its own standard package, and then it can vary a bit," explains Par-Olof Gaard, Volvo's articulated hauler product manager.

Machines destined for Volvo's second largest African market Algeria, for example, can be fitted with an oil bath air cleaner to filter out sand more effectively – a popular addition for the MENA (Middle East & North Africa) region.

Customers also have the choice of two different tyre types, for hard and soft ground, by four different brands; Bridgestone, Michelin, Goodyear and Yokohama.

"It's very important to choose the right tires for sand," Gaard explains. "You need floatation rather than traction in sand."

Excavators

When it comes to excavators, Volvo offers a multitude in a number of varieties – wheeled, compact and crawler – for the African market.

In South Africa, Haglund says the largest models, such as the EC 480E and the EC 700C, are especially popular with mining contractors due to their strength, power and durability.

The EC 700C has a powerful 458hp D16E engine for high torque, even at low RPMs, as well as high breakout force, crowding forces and slew speed.

The EC 480E has a D13 Stage IV/Tier 4 Final engine and a reinforced three-piece undercarriage with a X-shaped frame made from high-strength tensile steel for a long life and high uptime.

Volvo say both models come equipped with advanced hydraulics systems for high digging capacity, allowing for increased productivity as well as fuel economy.

African conquest

So how does Volvo CE see the African market evolving, and how does the company plan to meet the challenges that conquering it poses?

"South Africa and Algeria are likely to remain the largest markets," says Haglund, "but Nigeria will also grow in importance. We also see a lot of growth in Egypt and the East African markets."

Articulated hauler product manager Gaard is also keen to point to the many other countries which Volvo has yet to crack, expanding into which is "absolutely" a key part of the company's African, and indeed global strategy.

"There are also many potentially big markets where we currently don't sell much, but which have huge potential," says Gaard. "As it's a fairly new concept, it takes some time for it to settle like it once did in many other countries."

So how does Volvo plan to go about its planned expansion?

"Our strategy is to continue to build our distribution using multi-country dealers, in many cases together with our sister company Volvo Trucks," explains Haglund. "By creating this critical mass for dealer investments, we also enable good coverage in smaller markets."



Par-Olof Gaard and Jörgen Sjöstrand with an articulated hauler.

Construction & Mining Buyers' Guide

Section One: Listings by Category

Section Two: Suppliers

Section Three: Agents & Subsidiaries in Africa

Please mention African Review
when contacting your supplier

Section One: Listings by Category

AIR COMPRESSORS

Coelmo SpA
Doosan Portable Power
(Doosan Benelux SA)
Voith Turbo (Pty) Ltd.

Diesel Driven

Aggreko
Atlas Copco Portable Energy
Division
Doosan Portable Power
(Doosan Benelux SA)
MAN Truck & Bus AG
Yellogen Ltd.

Electric

Altaqa Global CAT Rental
Power
Atlas Copco Portable Energy
Division
DHYBRID Power Systems
GmbH
HELUKABEL South Africa (Pty)
Ltd.
HIMOINSA
Kohler Power Systems
Lovato Electric S.p.A.
Marelli Motori S.p.A.
Pr Industrial S.r.l.

AIR CONDITIONING

KTI - Plersch Kaltetechnik
GmbH

BUILDINGS

Cavatorta France SAS
CONMIX Ltd.
Kirloskar Brothers Ltd.
KwikBuild (Pty) Ltd.
MERLO S.p.A.
Topcon Positioning Middle
East and Africa FZE
Weiler GmbH
Zamil Steel Building Co. Egypt

CERAMIC AND HEAVY CLAY MACHINERY

ACIMAC-Association of Italian
Manufacturers of Machinery
and Equipment for Ceramics
ANIVI Ingenieria SA
MECCANICA 2P S.r.l.

COMPONENTS AND SPARE PARTS

Babacan Rubber Industry
C.C.JENSEN AS
Cat Lift Trucks
DEM Group
ELB Equipment
ERLAU AG
Filtration Ltd.
habermann materials GmbH
IREM S.p.A. a socio unico
Jungheinrich AG
Kirloskar Oil Engines Ltd.
Kohler Power Systems
Maitek S.r.l.
MAN Truck & Bus AG
Marelli Motori S.p.A.

MECCANICA 2P S.r.l.

Pr Industrial S.r.l.
Rossi S.p.A.
Shandong Shantui
Construction Machinery
Import & Export Co. Ltd.
SMT Group
Spare Power
Trading (Pty) Ltd.
Specialinsert S.r.l.
Wear and Spare Parts

CONCRETE EQUIPMENT

Amog S.r.l.
ANIVI Ingenieria SA
Bobcat (Doosan Benelux SA)
Elkon Concrete Batching
Plants
HawkeyePedershaab
HMD Africa (Offshore)
Kraft Tool Co.
KTI - Plersch Kaltetechnik
GmbH
Liebherr- Export AG
Meka Crushing & Concrete
Batching Technology
MERLO S.p.A.
Parker Plant Ltd.
Shandong Shantui
Construction Machinery
Import & Export Co. Ltd.
Spiroll Precast Services Ltd.
SRS Finlay
Trelawny SPT Ltd.
Vortex Hydra S.r.l.
Wacker Neuson (Pty) Ltd.
Weiler GmbH

Batching Plant

Carmix - Metalgalante S.p.A.
Elkon Concrete Batching
Plants
Ermont SAS / Marini-Ermont
Fiori Group S.p.A.
habermann materials GmbH
HMD Africa (Offshore)
Jessop & Associates (Pty) Ltd.
LINTEC GmbH & Co. KG
Marini S.p.A.
Meka Crushing & Concrete
Batching Technology
Voith Turbo (Pty) Ltd.
Vortex Hydra S.r.l.
Weiler GmbH

Block/Tile- Making Equipment

Jessop & Associates (Pty) Ltd.
MECCANICA 2P S.r.l.
Ormonde Machinery Ltd.
SRS Finlay
Vortex Hydra S.r.l.

Breakers

Bobcat (Doosan Benelux SA)
ELB Equipment
Fritsch GmbH Milling and
Sizing
HMD Africa (Offshore)
Indeco Ind S.p.A.
Jubaili Bros
Lovato Electric S.p.A.

Soosan Heavy Industries Co. Ltd.
Wacker Neuson (Pty) Ltd.

Concrete Pumps

Elkon Concrete Batching
Plants
HMD Africa (Offshore)
Kirloskar Brothers Ltd.
RATEC GmbH
Wonder Moldplast Pvt. Ltd.

Formwork

Agria Machinery Services & Co.
Ltd.
Doka Industries GmbH
Form - Scaff
HMD Africa (Offshore)
RATEC GmbH
Wonder Moldplast Pvt. Ltd.

Mobile Mixing Plant

ANIVI Ingenieria SA
Bobcat (Doosan Benelux SA)
Carmix - Metalgalante S.p.A.
Elkon Concrete Batching
Plants
Ermont SAS / Marini-Ermont
Fiori Group S.p.A.
HMD Africa (Offshore)
LINTEC GmbH & Co. KG
Marini S.p.A.

Pipe Making Equipment

Dowson & Dobson Industrial
habermann materials GmbH
HawkeyePedershaab

Recycling

ELB Equipment
Elkon Concrete Batching
Plants
HMD Africa (Offshore)
Indeco Ind S.p.A.
Keestrack n.v.
Marini S.p.A.
Ormonde Machinery Ltd.

Concrete Equipment - Other

Amog S.r.l.
Babacan Rubber Industry
Carmix - Metalgalante S.p.A.
Cavatorta France SAS
Doosan Portable Power
(Doosan Benelux SA)
Fiori Group S.p.A.
habermann materials GmbH
HMD Africa (Offshore)
Jessop & Associates (Pty) Ltd.
KTI - Plersch Kaltetechnik
GmbH
LINTEC GmbH & Co. KG
RATEC GmbH
Vortex Hydra S.r.l.
Weiler GmbH

CONSTRUCTION VEHICLES

Aquamec Ltd.
Bell Equipment Co. SA (Pty) Ltd
Caterpillar SARL
DEM Group
Filtration Ltd.
HMD Africa (Offshore)
JCB World Head Quarters
MAN Truck & Bus AG

Ritchie Bros. Auctioneers

Shandong Shantui
Construction Machinery
Import & Export Co. Ltd.
SMT Group
Terex Trucks
Van Vliet Trucks Holland
Volvo Construction Equipment

Dump Trucks and Haulers

BKT Tires
Caterpillar SARL
HMD Africa (Offshore)
Iveco S.p.A.
MAN Truck & Bus AG
Mantrac Group
Ormonde Machinery Ltd.
PANAFRICAN GROUP

Engines, Components and Accessories

C.C.JENSEN AS
Caterpillar SARL
Filtration Ltd.
HIMOINSA
Jubaili Bros
Kirloskar Oil Engines Ltd.
Mahindra & Mahindra Ltd.
MAN Truck & Bus AG
Motorenfabrik Hatz GmbH &
Co. KG
MTU South Africa (Pty) Ltd.
Perkins Engines Co. Ltd.
Volvo Penta

Site Dumpers

Carmix - Metalgalante S.p.A.
Caterpillar SARL
HMD Africa (Offshore)
MAN Truck & Bus AG
Wacker Neuson (Pty) Ltd.

Tractors

Action Construction
Equipment Ltd.
BKT Tires
Caterpillar SARL
Grupos Electrógenos Europa
SA (GESAN)
Iveco S.p.A.
MAN Truck & Bus AG
Mantrac Group
MERLO S.p.A.
PANAFRICAN GROUP
TVH

Trailers

BEDELCO SPRL
BKT Tires
Goldhofer Aktiengesellschaft
Iveco S.p.A.
MAN Truck & Bus AG
Wacker Neuson (Pty) Ltd.

Truck Mounted Platforms

ANIVI Ingenieria SA
Iveco S.p.A.

MAN Truck & Bus AG

Construction Vehicles - Other

Babacan Rubber Industry
Caterpillar SARL
HMD Africa (Offshore)

CONSULTANCY SERVICES

Allott (Nigeria) Ltd.
Doka Industries GmbH
RATEC GmbH
Spiroll Precast Services Ltd.
The Development Initiative
Ltd.

CONVEYOR SYSTEMS

Aury Africa (Pty) Ltd
ELB Equipment
FLSmidth
Keestrack n.v.
Magni Telescopic Handlers
MECCANICA 2P S.r.l.
Ormonde Machinery Ltd.
Parker Plant Ltd.
Phoenix Conveyor Belt
Systems GmbH
QUARRY MINING LLC
Terex Minerals Processing
Systems

DEMOLITION EQUIPMENT

Bobcat (Doosan Benelux SA)
Doosan Portable Power
(Doosan Benelux SA)
GEFCO Inc.
Indeco Ind S.p.A.
JCB World Head Quarters
MB Crusher S.p.A.
Rockster Recycler
Volvo Construction Equipment

DRILLING

ELB Equipment
MAN Truck & Bus AG
Soilmec S.p.A.
Soosan Heavy Industries Co.
Ltd.

Components and Accessories

ERLAU AG
Filtration Ltd.
HELUKABEL South Africa (Pty)
Ltd.

Drilling Machinery and Plant

Bauer Maschinen GmbH
Doosan Portable Power
(Doosan Benelux SA)
Soilmec S.p.A.

Piling

Amog S.r.l.
Aquamec Ltd.
Bauer Maschinen GmbH
CONMIX Ltd.

Trenching and Pipe Laying

ELB Equipment
Tunnelling
3D Laser Mapping Ltd.
Liebherr- Export AG
Soilmec S.p.A.
Topcon Positioning Middle
East and Africa FZE

Drilling - Other

Doosan Portable Power
(Doosan Benelux SA)

EARTHMOVING EQUIPMENT

Action Construction Equipment Ltd.
Bell Equipment Co. SA (Pty) Ltd
Bobcat (Doosan Benelux SA)
Caterpillar SRL
DEM Group
ELB Equipment
GEFCO Inc.
HMD Africa (Offshore)
JCB World Head Quarters
Liebherr- Export AG
MB Crusher S.p.A.
PANAFRICAN GROUP
Ritchie Bros. Auctioneers
Shandong Shantui Construction Machinery Import & Export Co. Ltd.
SMT Group
Spare Power Trading (Pty) Ltd.
Terex Trucks
Van Vliet Trucks Holland
Volvo Construction Equipment

Attachments and Accessories

Bobcat (Doosan Benelux SA)
C.C.JENSEN AS
Caterpillar SRL
Indeco Ind S.p.A.
Magni Telescopic Handlers
MB Crusher S.p.A.
SENNEBOGEN
Maschinenfabrik GmbH
SRS Finlay

Backhoe Loaders

Action Construction Equipment Ltd.
Amog S.r.l.
BKT Tires
Case Construction Machinery
Caterpillar SRL
ELB Equipment
HMD Africa (Offshore)
JCB World Head Quarters
Mantrac Group
New Holland Construction Machinery
PANAFRICAN GROUP
Swazi-Trac (Pty) Ltd.

Dozers

BKT Tires
Case Construction Machinery
Caterpillar SRL
ELB Equipment
HMD Africa (Offshore)
Liebherr- Export AG
Mantrac Group
New Holland Construction Machinery
PANAFRICAN GROUP

Dumpsters

Mantrac Group
SRS Finlay
Swazi-Trac (Pty) Ltd.

Excavators

Aquamec Ltd.
BKT Tires
Case Construction Machinery
Caterpillar SRL
ELB Equipment
JCB World Head Quarters
Liebherr- Export AG
Mantrac Group
New Holland Construction Machinery
PANAFRICAN GROUP
Spare Power Trading (Pty) Ltd.
Swazi-Trac (Pty) Ltd.
Wacker Neuson (Pty) Ltd.

Loaders - Other

BKT Tires
Bobcat (Doosan Benelux SA)
Case Construction Machinery

Caterpillar SRL
ELB Equipment
Fiori Group S.p.A.
HMD Africa (Offshore)
Mantrac Group
New Holland Construction Machinery
PANAFRICAN GROUP
Wacker Neuson (Pty) Ltd.

Mini-Excavators

Bobcat (Doosan Benelux SA)
Case Construction Machinery
Caterpillar SRL
Fiori Group S.p.A.
HMD Africa (Offshore)
JCB World Head Quarters
Liebherr- Export AG
Mantrac Group
New Holland Construction Machinery
Wacker Neuson (Pty) Ltd.

Motor Graders

Action Construction Equipment Ltd.
BKT Tires
Case Construction Machinery
Caterpillar SRL
ELB Equipment
HMD Africa (Offshore)
Mantrac Group
New Holland Construction Machinery
PANAFRICAN GROUP
Swazi-Trac (Pty) Ltd.

Scrapers

Caterpillar SRL
HMD Africa (Offshore)
Mantrac Group

Skidsteer Loaders

BKT Tires
Bobcat (Doosan Benelux SA)
Case Construction Machinery
Caterpillar SRL
ELB Equipment
HMD Africa (Offshore)
JCB World Head Quarters
Mantrac Group
New Holland Construction Machinery
Swazi-Trac (Pty) Ltd.
Wacker Neuson (Pty) Ltd.

Earthmoving Equipment - Other

BEDELCO SPRL
BKT Tires
Caterpillar SRL
Liebherr- Export AG
Ritchie Bros. Auctioneers

FREIGHT/LOGISTICS

MAN Truck & Bus AG

FINISHING

Kraft Tool Co.
Equipment
Action Construction Equipment Ltd.
Altaaqa Global CAT Rental Power
HIMOINSA
Kohler Power Systems

Insulation Panels

C.C.JENSEN AS
KwikBuild (Pty) Ltd.

Materials

CONMIX Ltd.
Interplast Ltd.
Lafarge
SENNEBOGEN
Maschinenfabrik GmbH

Paints

CONMIX Ltd.

Services

The Development Initiative Ltd.

GEOIMAGING

3D Laser Mapping Ltd.
KTI - Plersch Kaltetechnik GmbH
Topcon Positioning Middle East and Africa FZE

LIFTING EQUIPMENT

Action Construction Equipment Ltd.
Bell Equipment Co. SA (Pty) Ltd
ERLAU AG
Grupos Electrógenos Europa SA (GESAN)
HMD Africa (Offshore)
JCB World Head Quarters
Kresta Laurel Ltd.
Liebherr- Export AG
Magni Telescopic Handlers
Pr Industrial S.r.l.
Terex Trucks
Van Vliet Trucks Holland
Volvo Penta

Access

TVH

Components and Accessories

ERLAU AG
HELUKABEL South Africa (Pty) Ltd.
Rossi S.p.A.

Cranes

Action Construction Equipment Ltd.
HMD Africa (Offshore)
Kresta Laurel Ltd.
Liebherr- Export AG
SENNEBOGEN
Maschinenfabrik GmbH
Soilmec S.p.A.
Soosan Heavy Industries Co. Ltd.

Hoists

FLSmidth
HMD Africa (Offshore)
Kresta Laurel Ltd.
Liebherr- Export AG
Voith Turbo (Pty) Ltd.

Hydraulic

Voith Turbo (Pty) Ltd.

Lift Trucks

BKT Tires
Cat Lift Trucks
Jungheinrich AG
Mantrac Group
TVH

Mechanical

Voith Turbo (Pty) Ltd.

Other Materials Handling

Action Construction Equipment Ltd.
ANIVI Ingenieria SA
Aury Africa (Pty) Ltd
Cat Lift Trucks
Jungheinrich AG
MECCANICA 2P S.r.l.
QUARRY MINING LLC
SRS Finlay

Pneumatic

BEDELCO SPRL

Telescopic Handlers

BKT Tires
Bobcat (Doosan Benelux SA)
Case Construction Machinery
ELB Equipment
HMD Africa (Offshore)
JCB World Head Quarters
Magni Telescopic Handlers
MERLO S.p.A.
New Holland Construction Machinery
SENNEBOGEN
Maschinenfabrik GmbH
TVH
Wacker Neuson (Pty) Ltd.

MOTORS/DRIVERS/CONTROLS

Adroit Technologies

OTHER SITE EQUIPMENT AND MATERIALS

Altaaqa Global CAT Rental Power
ANIVI Ingenieria SA
Bobcat (Doosan Benelux SA)
Coelmo SpA
DHYBRID Power Systems GmbH
Doosan Portable Power (Doosan Benelux SA)
QUARRY MINING LLC

Fencing

Cavatorta France SAS
Interplast Ltd.

Lighting Masts/Towers

Atlas Copco Portable Energy Division
Doosan Portable Power (Doosan Benelux SA)
Green Power Systems S.r.l.
HIMOINSA
Jubaili Bros

Morris Site Machinery

SDMO Industries
SOL Inc. (Solar Outdoor Lighting)
Wacker Neuson (Pty) Ltd.

Pipe and Cable Detecting Systems

Dowson & Dobson Industrial HELUKABEL South Africa (Pty) Ltd.
Interplast Ltd.

Sand Blasting Equipment

Doosan Portable Power (Doosan Benelux SA)

Scaffolding

Doka Industries GmbH
Form - Scaff
HMD Africa (Offshore)
Wonder Moldplast Pvt. Ltd.

Silos

ANIVI Ingenieria SA
QUARRY MINING LLC

Surveying Equipment

3D Laser Mapping Ltd.
Topcon Positioning Middle East and Africa FZE

Temporary Housing and Offices

KwikBuild (Pty) Ltd.

MOBILE POWER SUPPLY UNITS

Aggreko
Coelmo SpA
Doosan Portable Power (Doosan Benelux SA)
FG Wilson
Firefly

Green Power Systems S.r.l.
JMG

Kirloskar Oil Engines Ltd.

Kohler Power Systems

SDMO Industries
Van Vliet Trucks Holland

Visa S.p.A.

YorPower Ltd.

Generator Sets

Aggreko
Altaaqa Global CAT Rental Power
Coelmo SpA
Cummins Power Generation
DHYBRID Power Systems GmbH
FG Wilson
Firefly
Fronius International GmbH
Green Power Systems S.r.l.
HIMOINSA

HMD Africa (Offshore)
JCB World Head Quarters
JMG

Jubaili Bros

Kirloskar Oil Engines Ltd.

Kohler Power Systems

Kresta Laurel Ltd.

Lovato Electric S.p.A.

Mahindra & Mahindra Ltd.

Morris Site Machinery
Motorenfabrik Hatz GmbH & Co. KG

MTU South Africa (Pty) Ltd.

Pr Industrial S.r.l.

SDMO Industries

Visa S.p.A.

Weiler GmbH

Yellogen Ltd.

PUMPING EQUIPMENT

Aquamec Ltd.

HMD Africa (Offshore)

Kirloskar Brothers Ltd.

Morris Site Machinery

Varisco S.p.A.

Wacker Neuson (Pty) Ltd.

Weir Minerals Africa (Pty) Ltd.

Concrete

Agria Machinery Services & Co. Ltd.

Bobcat (Doosan Benelux SA)

CONMIX Ltd.

Elkon Concrete Batching Plants

Lafarge

Meka Crushing & Concrete Batching Technology

Submersible

Atlas Copco Portable Energy Division

Kirloskar Brothers Ltd.

Varisco S.p.A.

Wacker Neuson (Pty) Ltd.

Weir Minerals Africa (Pty) Ltd.

Truck Mounted

Action Construction Equipment Ltd.

BKT Tires

HMD Africa (Offshore)

MAN Truck & Bus AG

Pumping Equipment - Other

FLSmidth

HMD Africa (Offshore)

Interplast Ltd.

Kirloskar Oil Engines Ltd.

Maitek S.r.l.

Motorenfabrik Hatz GmbH & Co. KG

Varisco S.p.A.

RAW MATERIALS

Aury Africa (Pty) Ltd

DEM Group

Lafarge

SMT Group

Wear and Spare Parts

Crushing, Screening and Washing

ANIVI Ingenieria SA

Aury Africa (Pty) Ltd

ELB Equipment

FLSmidth

Fritsch GmbH Milling and Sizing

HMD Africa (Offshore)

Keestrack n.v.

Maitek S.r.l.

MB Crusher S.p.A.

Meka Crushing & Concrete Batching Technology

Minyu Machinery Corp.

Ormonde Machinery Ltd.

PANAFRICAN GROUP

Parker Plant Ltd.

Powerscreen

QUARRY MINING LLC

Rockster Recycler

Spare Power Trading (Pty) Ltd.

Talleres Nunez SA

Terex Minerals Processing Systems
Volvo Penta
Wear and Spare Parts
Weir Minerals Africa (Pty) Ltd.

Grinding Equipment

ANIVI Ingenieria SA
FLSmidth
Fritsch GmbH Milling and Sizing
HMD Africa (Offshore)
Trelawny SPT Ltd.
Weir Minerals Africa (Pty) Ltd.

Mixing

Fritsch GmbH Milling and Sizing
habermann materials GmbH
HMD Africa (Offshore)
MAN Truck & Bus AG

Quarrying

Aury Africa (Pty) Ltd
Doosan Portable Power (Doosan Benelux SA)
Filtration Ltd.
HMD Africa (Offshore)
Keestrack n.v.
Liebherr- Export AG
Magni Telescopic Handlers
Meka Crushing & Concrete Batching Technology
Minyu Machinery Corp.
PANAfrican GROUP
Ritchie Bros. Auctioneers
Soosan Heavy Industries Co. Ltd.
Terex Minerals Processing Systems
Wear and Spare Parts
Yellogen Ltd.

Testing

Aggreko

Raw Materials - Other

ANIVI Ingenieria SA

HMD Africa (Offshore)

Lafarge

ROAD BUILDING EQUIPMENT

Action Construction Equipment Ltd.
BKT Tires
BOMAG GmbH
Caterpillar SRL
Cavatorta France SAS
Ciber Equipamentos Rodoviarios Ltda.
Doosan Portable Power (Doosan Benelux SA)
ELB Equipment
Ermont SAS / Marini-Ermont HMD Africa (Offshore)
JCB World Head Quarters
Kraft Tool Co.
Liebherr- Export AG
MB Crusher S.p.A.
PANAfrican GROUP
Shandong Shantui Construction Machinery Import & Export Co. Ltd.
Van Vliet Trucks Holland
Volvo Construction Equipment
Wacker Neuson (Pty) Ltd.

Asphalt Plant

Ciber Equipamentos Rodoviarios Ltda.
Ermont SAS / Marini-Ermont LINTEC GmbH & Co. KG
Marini S.p.A.
Parker Plant Ltd.

Compaction Equipment

Action Construction Equipment Ltd.
Agria Machinery Services & Co. Ltd.
BOMAG GmbH
Caterpillar SRL
ELB Equipment
JCB World Head Quarters
Mantrac Group
PANAfrican GROUP

Wacker Neuson (Pty) Ltd.

Pavers

BOMAG GmbH
Caterpillar SRL
ELB Equipment
Mantrac Group
PANAfrican GROUP

Recycling

Bobcat (Doosan Benelux SA)
BOMAG GmbH
Fritsch GmbH Milling and Sizing
Liebherr- Export AG
LINTEC GmbH & Co. KG
Maitek S.r.l.
Rockster Recycler
SENNEBOGEN

Maschinenfabrik GmbH
Soosan Heavy Industries Co. Ltd.
Terex Minerals Processing Systems

Rollers

Action Construction Equipment Ltd.
Agria Machinery Services & Co. Ltd.
BOMAG GmbH
Caterpillar SRL
ELB Equipment
HMD Africa (Offshore)
Wacker Neuson (Pty) Ltd.

Road Building Equipment - Other

Agria Machinery Services & Co. Ltd.
Babacan Rubber Industry
BEDELCO SPRL
Bobcat (Doosan Benelux SA)
Caterpillar SRL
Cavatorta France SAS
Doosan Portable Power (Doosan Benelux SA)
HMD Africa (Offshore)

SAFETY EQUIPMENT

3D Laser Mapping Ltd.
Doka Industries GmbH

SOFTWARE

3D Laser Mapping Ltd.
Adroit Technologies
DHYBRID Power Systems GmbH

Software - Other

3D Laser Mapping Ltd.

STEEL

Dowson & Dobson Industrial
Magni Telescopic Handlers
Zamil Steel Building Co. Egypt

Fabrication and Structures

Form - Scaff
KwikBuild (Pty) Ltd.
QUARRY MINING LLC

Steel - Other

ERLAU AG
Zamil Steel Building Co. Egypt

TOOLS

DEM Group
Doosan Portable Power (Doosan Benelux SA)
Dowson & Dobson Industrial
MERLO S.p.A.
SMT Group
TVH

Hydraulic

Babacan Rubber Industry
Kirloskar Brothers Ltd.

Mechanical

KTI - Plersch Kaltetechnik GmbH
Yellogen Ltd.

Pneumatic

BEDELCO SPRL
Doosan Portable Power (Doosan Benelux SA)
Dowson & Dobson Industrial
Trelawny SPT Ltd.

Tools - Other

Doosan Portable Power (Doosan Benelux SA)
Grupos Electrógenos Europa SA (GESAN)
Specialinsert S.r.l.
Trelawny SPT Ltd.

UNDERGROUND & MINING MACHINERY

Aggreko
Bell Equipment Co. SA (Pty) Ltd
BKT Tires
Iveco S.p.A.
JCB World Head Quarters
Liebherr- Export AG
Magni Telescopic Handlers
MAN Truck & Bus AG
PANAfrican GROUP
Soilmec S.p.A.
Topcon Positioning Middle East and Africa FZE

USED EQUIPMENT

Atlas Copco Portable Energy Division
Bauer Maschinen GmbH
Bell Equipment Co. SA (Pty) Ltd
Cat Lift Trucks
Caterpillar SRL
Doka Industries GmbH
ELB Equipment
Grupos Electrógenos Europa SA (GESAN)
JCB World Head Quarters
Jungheinrich AG
Maitek S.r.l.
MAN Truck & Bus AG
Mantrac Group
Morris Site Machinery
PANAfrican GROUP
Ritchie Bros. Auctioneers
Spare Power Trading (Pty) Ltd.
Visa S.p.A.
Vortex Hydra S.r.l.
Yellogen Ltd.

Rental Equipment

Altaqa Global CAT Rental Power
Bauer Maschinen GmbH
Cat Lift Trucks
Caterpillar SRL
FG Wilson
JCB World Head Quarters
Jungheinrich AG
Kohler Power Systems
Pr Industrial S.r.l.
SDMO Industries
Trelawny SPT Ltd.
Visa S.p.A.
Weir Minerals Africa (Pty) Ltd.
Wonder Moldplast Pvt. Ltd.

Complete Solutions for Electrical Needs

Altaqa Global CAT Rental Power
DHYBRID Power Systems GmbH
Fronius International GmbH
GEFCO Inc.
HELUKABEL South Africa (Pty) Ltd.
Jubaili Bros
Lovato Electric S.p.A.

WELDING EQUIPMENT

Coelmo SpA
Green Power Systems S.r.l.
Grupos Electrógenos Europa SA (GESAN)
Interplast Ltd.
Kresta Laurel Ltd.
Morris Site Machinery

Section Two: Suppliers

3D Laser Mapping Ltd.

Unit 1 Moorbridge Court

Moorbridge Road East

Bingham

Nottingham

NG13 8GG

United Kingdom

Tel: +44 1949 838004

Fax: +44 8701 214605

Web:

www.3dlasermapping.com

E-mail: info@3dlasermapping.com

time software for the industrial automation markets for over 25 years. Principal activities are product development, consulting and solution development primarily in the industrial sector. In March 2011 Mitsubishi Electric Europe BV acquired 14.9% shareholding in Adroit, resulting in Adroit's appointment as Authorised Distributor of Mitsubishi factory Automation products for sub-Saharan Africa in 2012.

Agents:

Botswana - Cinstrap

Zimbabwe - Autocontrol Systems

Aggreko

PO Box 17576

Jebel Ali Dubai

United Arab Emirates

Tel: +971 4 8086200

Fax: +971 4 8834145

Web:

www.africa.aggreko.com

E-mail: enquiries@aggreko.com

Aggreko is the world leader in temporary power and temperature control. We provide innovative power and temperature control solutions that enable customers to react rapidly to changing needs. When you choose us, you choose a proven highly qualified team with over 50 years' experience.

Agents:

Angola - Aggreko

Kenya - Aggreko

Namibia - Aggreko

Nigeria - Aggreko

South Africa - Aggreko

Tanzania - Aggreko

Agria Machinery Services & Co. Ltd.

PO Box AN5280

No. 5 Royal Castle Road

Kokomlemle (Adjc. SSNIT)

Kokomlemle Branch

Accra North

Ghana

Tel: +233 30 2222169

Fax: +233 30 2222621

Web:

www.agriamachinerygh.com

E-mail: sales@agriamachinerygh.com

Distributors of construction, agric, horticulture equipment with after sales service & space parts support.

Allott (Nigeria) Ltd.



Allott (Nigeria) Limited

PO Box 515

Marina, Lagos

Nigeria

Tel: +234 1 2951122

Fax: +234 1 2951122

Web: www.allottnigeria.com

E-mail: info@allottnigeria.com

Allott (Nigeria) Ltd. established over 35 years ago has carried out over 350 projects in technical consulting on major infrastructure projects in Highway, Railways, Marine Terminals and Inland waterways in Nigeria.

Altaaq Global CAT Rental Power
PO Box 262989, Dubai United Arab Emirates
Tel: +971 4 8808006
Fax: +971 4 8808007
Web: www.altaaqglobal.com
E-mail: rbagatsing@altaaqglobal.com

Altaaq Global, subsidiary of Zahid Group, has been selected by Caterpillar Inc. to deliver multi-megawatt turnkey temporary power solutions. The company owns, mobilizes, installs and operates temporary independent power plants at customer sites, focusing on markets in Sub-Saharan Africa, Central Asia, Indian Subcontinent, Latin America, South East Asia and MENA.

Ammann (SA)

Private Bag 43, Suite 253 Benoni, 1500 South Africa
Tel: +27 11 8493939/3333
Fax: +27 86 5033971
Web: www.ammann-group.com
E-mail: info.aza@ammann-group.com

Ammann (Switzerland)

Eisenbahnstrasse 25 Langenthal, CH-4901 Switzerland
Tel: +41 62 9166161
Fax: +41 62 9166402
Web: www.ammann-group.com
E-mail: info.aag@ammann-group.com

Amog S.r.l.

Via Padula 102 Brusciano (Italia) 80031 Italy
Tel: +39 081 6588361
Fax: +39 081 8863398
Web: www.davinomixer.com
E-mail: sales@davinogroup.com

Since 1975 Davinomixer has been bringing to the market the most innovative self-loading mobile concrete mixers range being the Davino 360DELTA4, the ultimate, unique and the only load and cast all rounder mixer today available: 360° visibility mixer to produce high quality certifiable concrete thanks to the very advanced Davino weighing system.

ANIVI Ingenieria SA

Avenida Txorierri 8 Loiu 48180 Spain
Tel: +34 94 4531900
Fax: +34 94 4532175
Web: www.anivi.com
E-mail: info@anivi.com

Founded in 1939 in Spain, has been manufacturing machines, equipment and complete plants for the treatment of cement, ore and chemical products. Providing to our customers ROI's of less than 10 months on modular & portable cement grinding plants and reduction of investment risks.

Aquamec Ltd.

PO Box 260 Säkylä 27801 Finland
Tel: +358 10 4026400
Fax: +358 10 4026422
Web: www.watermaster.fi
E-mail: watermaster@watermaster.fi

Watermaster is an amphibious multipurpose dredger designed for all shallow water work. Watermaster's capabilities include: suction dredging, backhoe dredging, raking & piling. Watermaster is suitable for numerous applications: restoring shallow waterways and shores, preventing floods, construction work in water environment and maintenance of process-and wastewater ponds in mines.

Atlas Copco Portable Energy Division

Ingbertoeveeweg 7 Aartselaar 2630 Belgium
Tel: +32 3 7508550
Web: www.atlascopco.com
E-mail: paul.humphreys@be.atlascopco.com

Atlas Copco is a world-leading provider of sustainable productivity solutions. We serve customers in more than 180 countries with products and services focused on

productivity, energy efficiency, safety and ergonomics. The Portable Energy division develops, manufactures and markets portable compressors, high pressure boosters, generators, light towers and portable dewatering pumps.

Agents:

Algeria - Atlas Copco Algeria S.p.A
Angola - Atlas Copco Angola, Lda.
Benin - Atlas Copco Senegal SARL
Botswana - Atlas Copco South Africa (Pty) Ltd. Construction Technique
Burkina Faso - Atlas Copco Senegal SARL
Burundi - Atlas Copco Tanzania Ltd.
Cameroon - Atlas Copco Senegal SARL
Central African Republic - Atlas Copco Senegal SARL
Chad - Atlas Copco Senegal SARL
Congo DR - Atlas Copco Zambia Ltd.
Cote D'Ivoire - Atlas Copco Senegal SARL
Djibouti - Atlas Copco Tanzania Ltd.
Eritrea - Atlas Copco Tanzania Ltd.
Ethiopia - Atlas Copco Tanzania Ltd.
Gabon - Atlas Copco Senegal SARL
Gambia - Atlas Copco Senegal SARL
Guinea - Atlas Copco Senegal SARL
Guinea Bissau - Atlas Copco Senegal SARL

Kenya - Atlas Copco Tanzania Ltd.

Liberia - Atlas Copco Senegal SARL
Madagascar - Atlas Copco Tanzania Ltd.
Malawi - Atlas Copco Zambia Ltd.
Mali - Atlas Copco Senegal SARL
Mauritania - Atlas Copco Senegal SARL
Mauritius - Atlas Copco Tanzania Ltd.
Morocco - Atlas Copco Maroc SA
Mozambique - Atlas Copco South Africa (Pty) Ltd. Construction Technique

Namibia - Atlas Copco South Africa (Pty) Ltd. Construction Technique
Niger - Atlas Copco Senegal SARL
Nigeria - Atlas Copco Nigeria Ltd.
Rwanda - Atlas Copco Tanzania Ltd.
Senegal - Atlas Copco Senegal SARL
Seychelles - Atlas Copco Tanzania Ltd.
Sierra Leone - Atlas Copco Senegal SARL
Somalia - Atlas Copco Tanzania Ltd.
South Africa - Atlas Copco South Africa (Pty) Ltd. Construction Technique
Tanzania - Atlas Copco Tanzania Ltd.
Togo - Atlas Copco Senegal SARL
Uganda - Atlas Copco Tanzania Ltd.
Zambia - Atlas Copco Zambia Ltd.
Zimbabwe - Atlas Copco Zimbabwe Pvt. Ltd.

Aury Africa (Pty) Ltd.

19 Graniet Road Jet Park Boksburg Johannesburg South Africa
Tel: +27 11 0266642
Web: www.auryafrica.co.za
E-mail: matt@auryafrica.co.za

Aury Africa is made up of a dedicated team of professionals. The company goal is to provide the best innovative screening media, vibrating equipment solutions and services to the global mining market. Aury specialises in screening media and consumables, crushing equipment and conveyor systems.

LEGRAND UPS**PROTECTION WHERE YOU NEED IT**

Ideal for data security at home, in the office or in industry

KEOR MULTIPLUG

At home:
• Protects electronic equipment from surges
• Provides protection from lightning strikes
• Protects against power fluctuations

NIKY**NIKY LINE INTERACTIVE RANGE OF UPS**

In the office:
• Protects sensitive electronic equipment
• Provides protection from lightning strikes
• Protects against power fluctuations

DAKER DK**COMPACT MODULAR UPS**

In industry:
For IT applications (servers, routers, etc.)
industrial control systems and other
applications in oil & gas, telecommunication
facilities, data centers, etc.

www.export.legrand.com



Babacan Rubber Industry



1173 Sokak
No:20-22
Ostim
Ankara
Turkey
Tel: +90 312 3854910
Fax: +90 312 3540194
Web:
www.babacanrubber.com
E-mail: info@babacanrubber.com

Babacan Rubber Industry is the one of major manufacturer of high-quality rubber spare parts for heavy equipment, construction and special machinery in the territory of Turkey. We produce chevrons, concrete pump pistons, shock absorbers, engine mounts, upper shock absorbers (for beakers), couplings, bellows, diaphragms, seals and specially ordered rubber products.

Barloworld Equipamentos Angola Lda.

Estrada do Golf S/N
Sector Talatona
Luanda
Angola
Tel: +244 222 460220/237
Fax: +244 222 460605/538
Web: www.barloworld-equipment.com
E-mail: info@barloworld-angola.com

Barloworld Equipment

Electron Ave
Isando
Gauteng
1600
South Africa
Tel: +27 11 9290000
Fax: +27 11 9290044
Web: www.barloworld-equipment.com
E-mail: marketing2@barloworld-equipment.com

Bauer Maschinen GmbH

Bauer-Strasse 1
Schrobenhausen
86529
Germany
Tel: +49 8252 971888
Fax: +49 8252 971896
Web: www.bauer.de
E-mail: hermann.schrattenthaler@bauer.de

Supplier of equipment for piling and mining.

Agents:
South Africa - BAUER Technologies South Africa

Baumaschinen Fink GmbH

Kirschenleite 25
Schnaittach
91220
Germany
Tel: +49 9153 970970
Fax: +49 9153 9709720
Web: www.bm-fink.de
E-mail: info@bm-fink.de

BEDELCO SPRL

Rue de l'Environnement 22
Seraing, 4100
Belgium
Tel: +32 4 3301860
Fax: +32 4 3301866
Web: www.bedelco.com
E-mail: info@bedelco.com

BEDELCO is a European tyre dealer, based in Belgium we deliver OTR and truck tyres in mines and careers all over the world with a large stock in Belgium, we can react quickly to customers demands. Customers satisfaction and timely deliveries are our main targets.

Bell Equipment Co. SA (Pty) Ltd

Private Bag X20046
Empangeni, 3880
South Africa
Tel: +27 35 9079431
Web:
www.bellequipment.com
E-mail: stephenj@bell.co.za

OEM manufacturer and distributor of heavy duty equipment for the Mining, Construction and Forestry industries.

Agents:

South Africa - Bell Equipment Co. SA (Pty) Ltd

Benninghoven GmbH & Co. KG

Industriegebiet
Muelheim
Mosel, 54486
Germany
Tel: +49 6534 1890
Fax: +49 6534 8970
Web:
www.benninghoven.com
E-mail: info@benninghoven.com

BKT Tires

BKT House, C/15
Trade World Kamala Mills Compound
Senapati Bapat Marg
Lower Parel, Mumbai
400013
India
Tel: +91 22 66663800
Fax: +91 22 66663898/99
Web: www.bkt-tires.com
E-mail: apandit@bkt-tires.com

We are one of the largest manufacturers and exporters of off highway tires from India. Our company exports tires to more than 130 countries globally. We mainly manufacture OTR, agricultural, industrial and construction tires.

Bobcat (Doosan Benelux SA)


Bobcat
PO Box 262688
JLT Platinum Tower Cluster I
Level 18, Office 1802, Dubai United Arab Emirates
Tel: +971 4 2767206 / 214
Fax: +971 4 2767204
Web: www.bobcat.eu
E-mail: gaby.rhayem@doosan.com

Bobcat manufactures the widest range of market leading compact equipment including Skid-Steer and Compact Tracked

Loaders, Compact Excavators and Telescopic Handlers. The impressive selection of Bobcat attachments for use on these machines includes Wheel Saws, Trenchers Planers, Hydraulic Breakers and Graders, saving time, effort and cost in carrying out an increasing range of applications throughout Africa.

BOMAG GmbH

Hellerwald
Boppard
56154
Germany
Tel: +49 6742 1000
Fax: +49 6742 3090
Web: www.bomag.com
E-mail: info@bomag.com

BOMAG is a manufacturer of machines for the compaction of soils, asphalt and refuse; Stabilizers/Recyclers, Milling machines as well as pavers. The company employs approx. 2,200 people (including 1,400 at its headquarters in Boppard, Germany) and is represented with its machines in approx. 120 countries.

Contact for African Region:
BOMAG GmbH
Daniel Werner-Meier
Area Sales Manager Africa
Hellerwald
56154 Boppard
Germany
Email: daniel.werner-meier@bomag.com

Breaker Technology Ltd.

PO Box 130, 35 Elgin Street
Thornbury, ON
N0H 2P0
Canada
Tel: +1 519 5992015
Fax: +1 519 5996803
Web: www.rockbreaker.com

C.C.JENSEN AS

Loevholmen 13
Svendborg
5700, Denmark
Tel: +45 63212014
Fax: +45 62224615
Web: www.cjc.dk
E-mail: ccjensen@cjc.dk

C.C.JENSEN is a global leader in offline oil filtration with more than 60 years of experience in oil filtration. Effective oil filtration is the key in order to maintain the oil clean in crushers, mills, earth moving machinery etc. Avoid unforeseen breakdowns, excessive wear on components and frequent oil changes. Install a CJC Offline Oil Filter

Agents:

Ghana - Multi-Tech Services (WA) Ltd.
South Africa - IQ Oil Filtration

Carmix - Metalgalante S.p.A.



Via A Volta 2
Noventa di Piave
VeneziaVeneto

30020
Italy
Tel: +39 0421 65191
Fax: +39 0421 658838
Web: www.carmix.com
E-mail: info@carmix.com

Metalgalante is specialized on the manufacture of off-road self-loading mobile concrete mixers with over 30 years of experience. Our mixers are ideal for all job-sites where medium or small quantities of

concrete are continuously needed during the day such as: sewage systems, water, telephone and electricity lines constructions, side road and low cost housing. In all those situations where ready mix system is not available and in all job sites which are not accessible to transit mixers.

With our system, there is no waiting, no expensive, cost and quality of concrete is assured because the client can control the production directly.

Agents:

Angola - Cl & MA Comp. Ind.
Cameroon - Bernabe Cameroun
Congo Republic - Bernabe Congo
Alucongo
Cote D'Ivoire - Bernabe Cote D'Ivoire
Gabon - Bernabe Gabon Libreville
Mauritius - Mecom Mechanisation Co. Ltd.
Morocco - SBMH
Mozambique - Sotema Lda.
Namibia - Carmix Namibia Hire & Sales
Senegal - Bernabe Senegal

Case Construction Machinery

Riva Paradiso 14

Lugano
6901

Switzerland

Tel: +41 91 9853800
Fax: +41 91 9853647
Web: www.cnh.com
E-mail: international.ce.media@cnh.com

Case Construction Equipment sells and supports a full line of construction equipment around the world. Through Case dealers, customers have access to a true professional partner—with world-class equipment and aftermarket support. Case is a division of CNH Global NV, a majority-owned subsidiary of Fiat Industrial S.p.A. More information is available at www.casece.com.

Agents:

Algeria - ARC Trucks
Algeria - EURL C.N.H.A.
Angola - Tracto-Lena
Egypt - Unimar Egypt
Kenya - CMC Motors Group Ltd.
Libya - Tamia Haditha Co.
Madagascar - Entreposto Comercial De Mocambique SARL
Madagascar - Hughes Motors (Tanzania) Ltd.

Mauritius - Entreposto Comercial De Mocambique SARL

Mauritius - Hughes Motors (Tanzania) Ltd.

Morocco - Soberma

Mozambique - Entreposto Comercial De Mocambique SARL

Nigeria - Roots Equipment and Material Ltd.

Reunion - Entreposto Comercial De Mocambique SARL

Reunion - Hughes Motors (Tanzania) Ltd.

Senegal - ADC Africa Distribution Co. b.v.

South Africa - CSE Cape Town

South Africa - CSE George

South Africa - CSE Isando

South Africa - CSE Pinetown

South Africa - CSE Port Elizabeth

Sudan - The Central Trading Co. Ltd.

Tanzania - Hughes Motors (Tanzania) Ltd.

Tunisia - Sotradies

Zambia - Proshaw (Pty) Ltd.

Zimbabwe - Univern Enterprises Pvt. Ltd.

Cat Lift Trucks

Hefbrugweg 77

Almere

1332AC

The Netherlands

Tel: +31 36 5494311

Fax: +31 36 5495697

Web: www.catlifttruck.com

E-mail: info@catlifttruck.com

Cat Lift Trucks, based in the Netherlands, is one of the factories on Cat forklift trucks and warehouse equipment. We are serving the EAME market with high quality products and a broad global dealer network.

Agents:

Algeria - Attractors SARL

Côte D'Ivoire - Matforce (F.G. Industries SAS)

Egypt - Mantrac

Ethiopia - Ries Engineering S. Co. (Ethiopia - Cat Lift)

Ghana - Mantrac Ghana Ltd. (Ghana - Cat Lift)

Kenya - Mantrac Kenya Ltd. (Nairobi - Kenya - Cat Lift)

Libya - Free Libya Tractors

Nigeria - Mantrac Nigeria Ltd. (Lagos - Nigeria - Cat Lift)

Sierra Leone - Mantrac Sierra Leone Ltd. (Freetown) [Sierra Leone - Cat Lift]

South Sudan - Ezentus FZE Co. Ltd.

Tanzania - Mantrac Tanzania Ltd. (Dar Es Salaam) [Tanzania - Cat Lift]

Tunisia - Parenin SA (Tunisia - Cat Lift)

Uganda - Mantrac Uganda Ltd. (Kampala) [Uganda - Cat Lift]

Zambia - Industrial Equipment Ltd

Caterpillar SARL

76 Route de Frontenex

Geneva 6

12116

Switzerland

Tel: +41 22 8494444

Web: www.cat.com

For more than 85 years, Caterpillar Inc. has been making sustainable progress possible and driving positive change on every continent. Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. www.caterpillar.com

Agents:

Algeria - Bergerat Monnoyeur

Angola - Barloworld Equipamentos Angola Lda.

Botswana - Barloworld Equipment Botswana Pvt. Ltd.

Burkina Faso - Burkina Equipements

Cameroon - Tractrafic Equipement Cameroun

Chad - Tractrafic Equipment

Congo DR - Tractrafic Equipment RDC

Congo Republic - Tractrafic Equipment Congo

Côte D'Ivoire - Manutention Africaine

Djibouti - Anciens Comptoirs Ries

Egypt - Mantrac Egypt

Eritrea - Eritrea Equipment PLC

Ethiopia - Ries Engineering S. Co. (Caterpillar SARL)

Gabon - Tractrafic Equipment Gabon

Gambia - JA Delmas Export

Ghana - Mantrac Ghana Ltd.

Guinea - Manutention Guineenne

Guinea Bissau - Bissau Equipamentos

Guinea Equatoriale - Tractrafic Equipment (Guineequ)

Kenya - Mantrac SAE

Lesotho - Barloworld(LESOTHO)

Liberia - Liberia Equipment Ltd.
 Madagascar - Henri Fraise Fils & Co.
 Malawi - Barloworld Equipment Malawi Ltd.
 Malawi - Barloworld
 Mali - Manutention Africaine
 Mauritania - Societe Mauritanienne Des Tracteurs SARL
 Mauritius - Ireland Blyth Ltd.
 Mauritius - Tractrafic Equipment International (mauritius)
 Morocco - Tractrafic Equipment Maroc
 Mozambique - Barloworld
 Namibia - Barloworld Namibia (Pty) Ltd.
 Niger - Manutention Africaine
 Nigeria - Mantrac Nigeria Ltd.
 Reunion - Societe Commerciale Industrielle de Materiels
 Rwanda - Tractrafic Equipment Rwanda
 Senegal - Societe Auxiliaire (Senegal) D'Equipements (Saudequip)
 Sierra Leone - Mantrac Sierra Loene Ltd.
 South Africa - Barloworld Equipment
 Swaziland - Barloworld Equipment
 Swaziland (Pty) Ltd.
 Tanzania - Mantrac SAE
 Togo - Togo Equipment
 Tunisia - Parenin SA
 Uganda - Mantrac Uganda Ltd.
 Yemen - Tehama Trading
 Zambia - Barloworld Equipment
 Zambia Ltd.
 Zimbabwe - Barzem Enterprises Pvt. Ltd.

Cavatorta France SAS

Rue Jean-Baptiste Godin
 ZI de Villeneuve St Germain
 Villeneuve St. Germain
 02200
 France
 Tel: +39 3 484121305
 Web: www.cavatorta.it
 E-mail: s.cavatorta@cavatorta.it

Galvanised and PVC coated welded mesh producer leader in Europe.

Ciber Equipamentos Rodoviarios Ltda.

 
Rua Senhor do Bom Fim
177 Porto Alegre/RS
Brazil
 Tel: +55 51 33649200
 Fax: +55 51 33649228
 Web: www.ciber.com.br
 E-mail: ciber@ciber.com.br

Ciber is a company in the road building and equipment industry; a member of the Wirtgen Group, that also comprises the brands Wirtgen, Vögele, Hamm and Kleeman. Ciber offers a complete line of equipment for carrying out all the highway building process for building, maintaining and repairing pavements.

Agents:
 Algeria - TPS - Tractor Parts Services SARL
 Angola - Moviter Equipamentos Lda
 Morocco - SMDM - Societe Marocaine de Distribution Materiel
 Nigeria - SCOA Trac
 South Africa - Wirtgen South Africa (Pty) Ltd.

Coelmo SpA

Agglomerato Industriale ASI
Acerra (NA), 80011
Italy
 Tel: +39 081 8039731
 Fax: +39 081 8039724
 Web: www.coelmo.it
 E-mail: sales@coelmo.it

Coelmo is one of the oldest European manufacturers of industrial and marine generators from 3 kVA up to 3000 kVA. Based in Italy, with a large stock available to be shipped overnight to any destination in the world. Company profile products and modules are available online at www.coelmo.it.

Agents:

Togo - ADTF SARL

CONMIX Ltd.

PO Box 5936
Sharjah
United Arab Emirates
 Tel: +971 6 5314155
 Fax: +971 6 5314332
 Web: www.conmix.com
 E-mail: conmix@conmix.com

The business portfolio of CONMIX Ltd. includes - Ready Mix Concrete, Pre Mix Plaster, Construction Chemicals, Piling & Water Treatment and Oilfield Additives. Company has multiple manufacturing facilities.

Conrico International

Hanworth Lane Business Park, Chertsey, Surrey KT16 9LA
United Kingdom
 Tel: +44 1932 567321
 Web: www.conrico.com
 E-mail: info@conrico.com

Convergent Group SA

Zoning Industriel de Mariembourg
Rue des Mousquetaires Gris 35, 5660
Mariembourg
Belgium
Europe
 Tel: +32 60 390752
 Fax: +32 60 390751
 Web: www.convergent-group.com
 E-mail: info@convergent-group.com

Cummins Power Generation

8 Harrowdene Office Park
Western Service Road
Woodmead
Johannesburg
South Africa
 Tel: +27 11 5898400
 Fax: +27 11 5898450
 Web:

www.cummins.com
 E-mail: cpg.uk@cummins.com

Agents:

Algeria - Cummins Energie Algeria
 Angola - Cummins Angola
 Congo DR - BIA Overseas
 Congo Republic - Approvisionnement Congo Service
 Kenya - Car & General
 Morocco - Soberma Groupe Auto Hall
 Nigeria - Cummins West Africa Ltd.
 South Africa - Cummins South Africa
 Tunisia - Sotudis

Dangote Group

Union Marble House
1 Alfred Rewane Road
Falomo Iköyi
Lagos, 40032
Nigeria
 Tel: +234 1 4480815/4480816
 Fax: +234 1 4630316/2712231
 Web: www.dangote.com
 E-mail: corporate.communications@dangote.com

DEM Group

Rue Atthur Maes
100 - 1130, Haren
Belgium
 Tel: +32 2 7249030
 Fax: +32 2 7249079
 Web: www.dem-group.com
 E-mail: info@dem-group.com

DEM Group is the official John Deere Construction & Forestry, Hitachi Construction Machinery and Wirtgen group distributor for north, west and central Africa. The undisputed quality and performance of our equipment, our commitment to local service and the expertise of our after-sales service provide essential support for the development of your activities.
 DEM Subsidiaries: -
 DEM Algeria, DEM Congo, DEM DRC, DEM Côte d'Ivoire, DEM Ghana, DEM Mauritania, DEM Maroc, DEM Nigeria and DEM Senegal.

DHYBRID Power Systems GmbH

Perchtiner Strasse 1A
82131
Germany
 Tel: +49 89 8994810
 Fax: +49 89 899481200
 Web: www.dhybrid.de
 E-mail: contact@dhybrid.de

DHYBRID Power Systems is your worldwide solution provider for industrial-scale Diesel-Photovoltaic-Hybrid-Systems & self-consumption energy solutions. Fuel Reduction up to 40%, energy cost reduction up to 70%. With over 17 years of experience, DHYBRID offers German quality products & is your reliable partner for successful energy projects, with a global partner network.

Doka Industries GmbH


Josef Umdasch Platz 1
Amstetten, 3300
Austria
 Tel: +43 7472 6050
 Fax: +43 7472 64430
 Web: www.doka.com
 E-mail: info@doka.com

Doka is one of the world's market – leading formwork systems and solutions supplier. Doka's pathbreaking solutions assure an efficient construction process for all challenges of the clients, residential; highrise; transport and energy projects.

General sales agent for:
 Senegal, South Sudan, Ethiopia, Kenya, Uganda, Chad, DRC, Gabon, Tanzania, Ivory Coast, Equatorial Guinea, Ruanda, Burundi, Ghana, Niger, Mali, Burkina Faso and Mauritania

Tel: +43 7472 6052659
 Fax: +43 7472 64430
 Web Site: www.doka.com
 E-mail: stefan.zoefel@doka.com
 Contact: Stefan Zoefel

Agents:

Algeria - Doka Algerie SARL
 Angola - Carlos Spinola
 Egypt - Doka Egypt Doka GmbH
 Ethiopia - Orchid Business Group Plc
 Ghana - Luca Chiappa
 Kenya - Kimpton Ltd.
 Morocco - Doka Maroc SARL-AU
 Mozambique - Doka Mozambique Lda.
 ledy South Africa (Pty)
 Nigeria - Doka GmbH Nigeria
 Senegal - 2S BTP
 South Africa - Doka South Africa (Pty)
 Uganda - Dynaco Engineering and Civil Works Contractors

Doosan Portable Power (Doosan Benelux SA)

PO Box 262688
JLT Platinum Tower
Cluster I, Level 18
Office 1802, Dubai
United Arab Emirates
 Tel: +971 4 2767206
 Fax: +971 4 2767204
 Web: www.doosanportablepower.com
 E-mail: gaby.rhayem@doosan.com

Doosan Portable Power is a market leading manufacturer of portable compressors and mobile lighting systems for the African market. All Doosan Portable Power products are designed and rigorously tested to ensure they give outstanding operation on the toughest sites and in the most extreme conditions around the world, for applications in construction, roads, utilities, rental, quarrying and many other industries.

Dowson & Dobson Industrial

MOBY House
128 Loper Avenue
Aeroport
Spartan
Kempton Park
1619
South Africa
 Tel: +27 11 3922367
 Fax: +27 11 3923573
 Web: www.dowson.co.za
 E-mail: enquiry@dowson.co.za

Distributors of top quality industrial products, including air tools, air motors, pipe working equipment, pipe and flange jointing compound, compressed air filtration, industrial automation products, stainless steel strapping, clamps and cable ties, mild and galvanized steel strapping.

ELB Equipment

14 Atlas Road
Anderbolt Boksburg
1508
South Africa
 Tel: +27 11 3060700
 Fax: +27 11 9187208
 Web:

www.elbequipment.com
 E-mail: dalenew@elquip.co.za

ELB Equipment, South Africa, is one of those few companies that can offer world-class quality earthmoving, construction, mining and recycling equipment to customers in the RSA, Southern Africa & East Africa.

A comprehensive parts department, aftermarket field service and workshop

staff, ensures trouble free operation of equipment supplied by ELB.

ELB Equipment is a member of the ELB Group, listed on the Johannesburg Stock Exchange.

Agents:

Kenya - ELB East Africa Ltd. (ELB Equipment)

Elkon Concrete Batching Plants

Esentepe Mah.

Dergiler Sok.

Sisli

Istanbul

34394

Turkey

Tel: +90 212 2889633

Fax: +90 212 2746310

Web: www.elkonmix.com

E-mail: info@elkomix.com

Elkon is one of the leading manufacturer of stationary concrete batching plants, mobile concrete batching plants, compact concrete batching plants, trailer type concrete pumps, concrete recycling plants and mixers: Pan, planetary and twinshaft. Company assures quality of its products with following certificates: NSF (ISO9001: 2008), TUV (ISO9001: 2008), Gost-R, CE, and Ukrsepro.

ERLAU AG

Erlau 16, Aalen
73431

Germany

Tel: +49 73615950

Fax: +49 73615953214

Web: www.erlau.com

Erlau Tyre Protection Chains are used in over 150 countries around the world.

Agents:

South Africa - TCS RUD (Pty) Ltd.

Ermont SAS / Marini-Ermont

Rue Jean-Pierre Timbaud
BP 1 - 42420, Lorette
France
 Tel: +33 4 77735265
 Fax: +33 4 77734885
 Web: www.marini-ermont.fayat.com
 E-mail: info@marini-ermont.fayat.com

Integrated into the mixing plant unit of road building equipment of Fayat Group, designer and manufacturer for all equipment involved in the road life cycles, MARINI_ERMONT is the world leader in supermobile and continuous asphalt and batch plants. It offers a large range of hot-mix asphalt plants (from 35 to 630 TPH).

Agents:

Algeria - Serpic

Cote D'Ivoire - Premium Cote D'Ivoire

Morocco - Berenger Maroc

Senegal - Premium Senegal

Faymonville Distribution AG

8, Duarrefstrooss

L - 9990 WEISWAMPACH

Luxembourg

Tel: +352 26 9004155

Fax: +352 26 9004425

Web: www.faymonville.com

E-mail: sales@faymonville.com

FG Wilson



1 Millennium Way
Springvale Business Park
Springfield Road
Belfast
BT12 7AL
United Kingdom
Tel: +44 28 90495000
Fax: +44 28 28261111
Web: www.fgwilson.com

FG Wilson is a world leading manufacturer of diesel and gas generator sets from 5.5 – 2,500 kVA. From our global facilities, we have the capacity to produce over 130,000 generator sets each year. Our network of over 370 dealers in more than 150 countries provide full lifecycle support at a local level.

Filtration Ltd.

Unit 3038 Dean Road
Avonmouth Bristol, England
BS11 8AT
United Kingdom
Tel: +44 117 9822206
Fax: +44 117 9382272
Web: www.filtration-ltd.co.uk
E-mail: info@filtration-ltd.co.uk

Filtration Ltd has been supplying filtration products for over 25 years. We have 1,000's of different filters in our warehouse in Bristol. These serve many different industries and include all the leading brands for both original equipments parts and their alternatives. We also supply bulk lube and fuel filtration solutions.

Fiori Group S.p.A.

Via Per Ferrara No 7
Finale Emilia (MO)
Italy
Tel: +39 0535 92357
Fax: +39 0535 90960
Web: www.fiorigroup.com
E-mail: putifarri.nunzio@fiorigroup.com

Fiori S.p.A. is leader in self-loading concrete mixers and dumpers. The original concrete batching vehicle from 1 cu.m. till 4 cu.m. meters can produce up to 120 cubic meters a day of certifiable concrete in any location, for all job sites applications.

Agents:

Algeria - Almexol Algerie
Ethiopia - Abulkhase Pvt. Ltd. Co.
Kenya - Engineering Supplies 2001 Ltd.
Libya - Tannim Haditha Co.
Mauritania - Mauritanie SARL
(Importateur MAN Truck & Bus AG)
Morocco - Maroc Trading AA
Nigeria - Scoa Nigeria
South Africa - Pan Mixer SA (Pty) Ltd.
Tanzania - Mining Agricultural Construction Services (MACS)
Tunisia - Le Materiel SA

Firefly

Unit 20, Cliffe Industrial Estate, South Street Lewes, East Sussex BN8 6JL
United Kingdom
Tel: +44 1273 409595
Fax: +44 1273 409596
Web:
www.fireflycleanenergy.co.uk
E-mail: info@fireflycleanenergy.co.uk

Firefly's Cygnus® Hybrid Power Generator is a clean energy storage solution that

integrates a range of power sources for Base Load Management, Off Grid and UPS. Cygnus® can be linked to any diesel generator to optimise energy efficiency and save up to 50% in diesel fuel consumption, CO2 and runtime.

FLSmidth

PO Box 5073
Weltevredenpark
Gauteng
1715
South Africa
Tel: +27 10 2104000
Fax: +27 10 2104050
Web: www.flsmidth.com
E-mail: flsm-za@flsmidth.com

Utilizing the latest in equipment technology, resources and material. FLSmidth delivers optimum design and process support with a complete flowsheet of products for the minerals processing industries. FLSmidth is the industry's one source for crushing, grinding, classifying, thickening, clarifying, slurry handling, floatation, underground mining, pyroprocessing, material handling, automation, engineering and modernization services.

Form - Scaff

PO Box 669, Isando
181 Barbara Road
Elandsfontein, 1600
South Africa
Tel: +27 11 8424000
Fax: +27 11 8424288/3884550
Web: www.formscraft.com
E-mail: formscraft@formscraft.com

We supply formwork and scaffolding to the building and civil industries - designed and made in South Africa.

Fritsch GmbH Milling and Sizing

Industriestrasse 8
Idar - Oberstein, 55743
Germany
Tel: +49 6784 700
Fax: +49 6784 7011
Web: www.fritsch.de
E-mail: info@fritsch.de

Fritsch is an internationally respected manufacturer of application – oriented laboratory instruments:

- Sample preparation for size-reduction for all kinds of materials – dry or in suspension.
- Particle sizing by means of laser diffraction, dynamic image analysis and sieving.
- Sample dividing of dry and wet samples, controlled sample feeding, ultrasonic cleaning.

Agents:

South Africa - Labotec (Pty) Ltd.

Fronius International GmbH



Froniusplatz 1, 4600, Wels
Austria
Tel: +43 7272 2410
Web: www.fronius.com
E-mail: pv-sales@fronius.com

Fronius combines diesel gensets and photovoltaic technology perfectly. Bringing the two generation systems together has

now become extremely beneficial technically and especially economically. Supporting power generation with photovoltaics saves fuel costs and spares the generator parts. Ideal for mining operations in remote areas. Fronius also provides support in planning the PV-Genset solution.

Agents:

Austria - Fronius International GmbH

GEFCO Inc.

2215 S. Van Buren
Enid
OK, 73703
USA
Tel: +1 580 2344141
Web: www.gefcocom
E-mail: intsales@gefcocom

Goldhofer Aktiengesellschaft

Donaustrasse 95
Memmingen
87700
Germany
Tel: +49 8331 150
Web: www.goldhofer.de
E-mail: info@goldhofer.de

Goldhofer is the world market leader for transport equipment in the field of general and heavy-duty road haulage and oversized cargo transportation. With a full and technologically mature range of products, Goldhofer meets an extremely wide variety of needs in almost every transport situation.

Green Power Systems S.r.l.

Localita Maiano
Caprazzino di Sassocorvaro
(PU)
61028
Italy
Tel: +39 0722 726411
Fax: +39 0722 720092
Web:
www.greenpowergen.com
E-mail: giovanni@greenpowergen.com

Manufacture of generating sets up to 2200 kVA. Different engine types: Perkins-Cummins-Deutz-Volvo-John Deere-Iveco-Lombardini Yanmar-Mitsubishi-Honda, Telecommunications Power Solutions, Customized generators, Natural Gas and LPG gen sets, Lighting towers, Welding Machines. ISO 9001/2011-ISO 14001/2004

Grupos Electrógenos Europa SA (GESAN)

Pólígono Pitarco II
Parcela, 20
Muel (Zaragoza)
50450
Spain
Tel: +34 902 110316/976 145432
Fax: +34 902 110318
Web: www.gesan.com
E-mail: info@gesan.com
export@gesan.com

Founded in 1986, GESAN is today an energy solutions integrator, engaged in the manufacture of water & air - cooled diesel generators, welders, petrol units and lighting towers. Offering a complete range of products up to 3,100 kVA, we are able to supply over 778,000 kVA per annum in 90 countries around the world.

habermann materials GmbH

Wullenfeld 73
Witten
58454
Germany
Tel: +49 2302 6606139
Fax: +49 2302 6606141
Web: www.habermann-materials.de
E-mail: mail@hbm-materials.de

habermann materials GmbH supplies extremely wear resistant mixer spare parts of concrete mixer, wear parts and linings for concrete plants. We supply to ready mix, precast concrete block, pipe and roof tile plants in co-operation with local dealers.

Hamm AG

Hammstraße 1
Tirschenreuth, 95643
Germany
Tel: +49 9631 800
Fax: +49 9631 80111
Web: www.hamm.eu
E-mail: info@hamm.eu

HawkeyePedershaab

Saltumvej 25
Bronderslev
9700
Denmark
Tel: +45 9645 4000
Fax: +45 9645 4040
E-mail: info@hcpt.com

HawkeyePedershaab is a worldwide supplier of machinery and production equipment for concrete pipes, culverts and manhole products. We sell to and service our customers from a global network of offices and service centres and we are committed to make individual solutions to fit every customer.

HELUKABEL South Africa (Pty) Ltd.



164 Gigantic Road
Northlands Business Park
Randburg, 2169
South Africa
Tel: +27 11 4628752
Fax: +27 11 4628638
Web: www.helukabel.co.za
E-mail:

sales@helukabel.co.za

- Flexiblcontrol & data cables
- Power infrastructurable
- Instrumentaciobles
- Higflex cables for drag chains & motors
- Cablaccessories
- Custom cables solutions

Established in 1978, HELUKABEL is one of the world's leading cable manufacturers with 50 global warehouse locations and 30,000+ products in stock.

HIMOINSA

Ctra. Murcia-San Javier
Km. 23.6
San Javier/Murcia
30730
Spain
Tel: +34 968 191128
Fax: +34 968 191217
Web: www.himoinsa.com
E-mail: info@himoinsa.com

Founded in 1982, HIMOINSA is multinational specializing in the

manufacture of generator sets and lighting towers. Thanks to an effective internationalization policy, the company is now present in over 100 countries. One of HIMOINSA's main strengths is that it is a vertical manufacturer. It can guarantee the reliability and excellent performance of our products because we manufacture all of the components in the generator set, and only use engines from leading manufacturers. HIMOINSA has supplied power to major international projects across the five continents, providing power solutions in the construction, rental, telecommunications, data center, mining sector and developing high power solutions in medium and low voltage.

Agents:
Angola - Himoinsa Angola

HMD Africa (Offshore)

Plot # 38
Dbayeh Highway
Cap 41 Bldg 6th Floor Matn
Lebanon
Tel: +961 4 444248/9
Fax: +961 4 444248/9 Ext 116
Web: www.hmd-africa.com
E-mail: info@hmd-africa.com

HMD Africa (Offshore) is a dynamic network of leading machinery and equipment distributor in West Africa that caters to the needs of mining, construction, earthmoving, asphalt, roadwork, recycling, transportation and agriculture industries, operating in more than 20 African countries and International Markets. Our dedicated team provides African and International Markets with excellent service and first-class productivity through certified after-sales and spare parts services.

Indeco Ind S.p.A.

Viale Lindemann 10
Bari
70132
Italy
Tel: +39 080 5313370
Fax: +39 080 5377976
Web: www.indeco.it
E-mail: marketing@indeco.it

Indeco provides the greatest expression in the world of Italian technologies applied to the demolition industry. A revolutionary system enables all Indeco breakers to automatically vary the ratio between energy per blow and blows per minute, according to the material being demolished. Indeco produces hydraulic breakers, pedestal articulated booms, hydraulic compactors, and other demolition and recycling attachments.

Agents:

South Africa - CTC Plant Company Pty Ltd.

Interplast Ltd.

PO Box AD 330
Accra
Ghana
Tel: +233 30 2819000
Fax: +233 30 2813490
Web:

www.interplastghana.com

E-mail:

pipes@interplastghana.com
Producers of high quality HDPE Pipes, UPVC Pipes, PPR Pipes for hot and cold water applications, Borehole Pipes- Profiles, UPVC windows and doors.

IREM S.p.A. a socio unico

Via Abegg 75
Borgone (Torino), 10050 Italy
Tel: +39 011 9648211
Fax: +39 011 9648222
Web: www.irem.it
E-mail: svm@irem.it

IREM S.p.A. specialises in design and manufacture of 1PH and 3PH electro-dynamic voltage regulators and line conditioners - in standard and customized versions - with power ratings from 1 to 4750 kVA for indoor and outdoor installation. In business since 1947, IREM is a medium size company (staff 110 people) exporting all over the world. Company according to ISO9001 (since 1983), and ISO 14001 (since 2000) and BS OHSAS 18001 (since 2014) standards. Typical application fields: broadcast, telecommunication, industrial applications, electromedical appliances, machine tools, manufacturing plants, banks and insurance companies, construction, oil and gas, mining, a.s.o.

Agents:

Ghana - Modern Age Technologies Ltd.
Kenya - Specialised Power Systems Ltd.

Iveco S.p.A.

Via Puglia, 35, Torino, 10156 Italy
Tel: +39 011 0072111
Fax: +39 011 0075849
Web: www.iveco.com

Iveco is a world leading truck manufacturer, including mining trucks, with a full range of models engineered to be performing with any cargo and mission and suitable to any transport applications, especially ASTRA trucks that continue to be the leader in terms of heavy duty chassis, performance and suited for tough African condition.

JCB World Head Quarters

Lakeside Staffordshire, England ST14 5JP United Kingdom
Tel: +44 1889 590312
Web: www.jcb.com

JCB is the world's third largest construction equipment brand, has 22 plants on four continents. JCB is privately-owned by the Bamford family and was founded in 1945. The company is a world leading manufacturer of backhoe loaders, telescopic handlers, excavators, loaders, compaction equipment and generators. JCB's customer support network covers Africa, where we have been for 50 years.

African Agents:
All countries in Africa
www.JCBAfrica.com

Jessop & Associates (Pty) Ltd.

PO Box 265398 Three Rivers, 1935 South Africa
Tel: +27 16 4212521
Fax: +27 16 4212539
Web: www.profile-equipment.com
E-mail: info@profile.co.za

Manufacture and install PROFILE concrete roof tile machinery and equipment. Manufacture turn key plants from 1000 tiles to 50000 tiles per shift.

JMG

15A Redemption Crescent Road Apapa - Oshodi Express Way Gbagada, Lagos Nigeria
Tel: +234 80 66999071
Web: www.jmglimited.com
E-mail: marketing@jmglimited.com

POWER UP. We deliver integrated solutions for critical back up power, continuous powers and distributed generation. Our application range from stand-alone generators to medium and high capacity power plants using reciprocating engines or turbine technology. We are the official distributors of world leading brands FG Wilson, Mitsubishi, GE Lighting and Legrand.

John Deere Power Systems

Orléans - Saran Unit La Foulonnerie BP 11013 Fleury Les Aubrais Cedex 45401 France
Tel: +33 2 38826119
Fax: +33 2 38846266
Web: www.johndeere.com
E-mail: jdengine@johndeere.com

Agents:

Angola - Jembas Assistencia Technica Lda.
Egypt - Orascom Trading Co. SAE
Morocco - Societe de Realisations
Mecaniques
Nigeria - Stag Engineering (Nigeria) Ltd.
South Africa - Power 02

JOSEPH VÖGELE AG

Joseph-Vögele-Str. 1 Ludwigshafen, 67075 Germany
Tel: +49 621 81050
Fax: +49 621 8105461
Web: www.voegele.info/en

Jubaili Bros

Jebel Ali Free Zone United Arab Emirates
Tel: +971 4 8832023
Fax: +971 4 8832053
Web: www.JubailiBros.com
E-mail: jbdubai@jubailibros.com

Jubaili Bros, a leading supplier of power solutions, serves its customers throughout the Middle East, Africa and Asia, one key factor that sets Jubaili Bros apart from other providers, is the company's dedication to customer satisfaction, backed with over 35 years of experience in the electromechanical field.

Agents:

Ghana - Jubaili Bros
Nigeria - Jubaili Bros (Engineering) Ltd.
Uganda - Jubaili Bros

Jungheinrich AG

Am Stadtrand 35, Hamburg 22047, Germany
Tel: +49 40 69480
Fax: +49 40 69481777
Web:

www.jungheinrich.com/

Jungheinrich is world's three leading material handling equipment company. Established in 1953 in Germany. Jungheinrich offers the full range of products and services with distribution partners all over Africa. Rather than taking

the "One size fits all" approach, we focus on providing the best solution for your enterprise.

Agents:

Angola - Maqman
Mauritius - LEAL Equipements Compagnie LTEE
Nigeria - Eleven Thirteen Ventures (Jungheinrich)
South Africa - BME Packaging cc
Tanzania - Ports & Rail Equipment (T) Ltd.
Uganda - ENGSOL (Engineering Solutions)

Keestrack n.v.

Taunusweg 2 Bilzen, B3740 Belgium
Tel: +32 89 515851
Fax: +32 89 515850
Web: www.keestrack.com
E-mail: info@keestrack.net

Keestrack designs and produces mobile screening and crushing equipment.

Agents:

South Africa - Keestrack SA

Kemach Equipment (Pty) Ltd.

Portion 6 Aerostar Park Jet Park Road Witfield South Africa
Tel: +27 86 1536224
Fax: +27 11 8266710
Web: www.kemachjcb.co.za

Kirloskar Brothers Ltd.

Enriching Lives

Yamuna Survey No. 98/(3-7)

Baner Pune 411045 India
Tel: +91 20 27214444
Fax: +91 20 27211117
Web:

www.kirloskarpumps.com
E-mail: kblin@kbl.co.in

KBL is globally known as a reliable, innovative and cost effective solutions provider with Triple A Technology - appropriate, adaptable and affordable advantage. The core business of KBL are manufacturing of centrifugal pumps for industrial, agricultural and domestic applications, valves, hydro turbines and concrete volute, metallic volute pumps for turnkey projects in water management. KBL's product range covers pumps from 0.1 kW up to 26000 kW, valves up to the size of 4000mm and hydro turbines up to 25mV.

Agents:

South Africa - SPP Pumps Ltd.

Kirloskar Oil Engines Ltd.

Enriching Lives

Laxmanrao Kirloskar Road

Khadki Pune 411003 India
Tel: +91 20 66084574
Fax: +91 20 25813208/0209
Web: www.koel.co.in

Kirloskar group is counted amongst India's largest multi-product, multi-location diversified engineering conglomerates with annual sales of US \$ 1.6 Billion. Kirloskar Oil Engines Ltd. was incorporated in 1946 and is the flagship company of the Kirloskar Group. Today KOEL is an acknowledged leader in the manufacturing of diesel engines, agricultural pump sets and 'Kirloskar Green' generating sets. Our company has state-of-the-art manufacturing units in India that offer world-class products. KOEL has a sizable presence in international markets, with offices in Dubai, South Africa and Kenya and resident representatives in Nigeria. KOEL also has a strong distribution network throughout the Middle East and Africa.

Agents:

Ethiopia - Ultimate Motors PLC
Kenya - Kirloskar Kenya Limited
Malawi - HISCO House
Morocco - El Midhat Rotaxe
Morocco - HIB Agricole SA
Nigeria - Bhojsons PLC
South Africa - Kirloskar Engines South Africa (PTY) Ltd.
South Africa - Kirs ons Trading SA (Pty) Ltd.
Sudan - CTC Group
Tanzania - Incar Tanzania Ltd.
Zambia - Saro Agro

Kohler Power Systems

Kristallaan 1 Zevenbergen 4761 ZC The Netherlands
Tel: +31 168 331630
Web:

www.kohlerpower.com

E-mail:

powersystems.emea@kohler.com

For every aspect of your critical load requirements, Kohler has engineered the product: UL and EPA-compliant generators from 20 to 3300 kVA, a full line of automatic transfer switches, custom paralleling switchgear, controls managing a multitude of power systems applications, along with remote monitoring.

Komatsu Ltd.**KOMATSU****2-3-6 Akasaka Minato-ku Tokyo 107-8414 Japan**

Tel: +81 3 55612778

Fax: +81 3 55614761

Web: www.komatsu.com

E-mail: marketing.id.ce@komatsu.co.jp

Komatsu Ltd. Company, established in 1981, manufactures Quality trowel trade Tools for concrete, Masonry, Asphalt, Drywall, Plaster & Tile professionals. As a trusted name in hand tools, kraft tool is proud of the "Hand Crafted" workmanship attributed to every product. Maintaining quality, good service and innovative products are our goals.

Congo Republic - Bia Pointe - Noire SA
Cote D'Ivoire - Bia Côte d'Ivoire
Egypt - Egyptian International Motors Co. Ltd. (E.I.M.)

Eritrea - Anberber Share Co.

Ethiopia - The Motor And Engineering Company of Ethiopia

Ghana - Panafriican Equipment (Ghana) Ltd.

Guinea - Bia Guinee S. A.

Kenya - Panafriican Equipment (Kenya) Ltd.

Lesotho - Komatsu Southern Africa (Pty) Ltd.

Liberia - Bia Liberia Inc.

Libya - Mafaza Africa

Madagascar - SMTP- Groupe

Malawi - Farming & Engineering Services

Mauritania - Bia Equipments & Service

Mauritanie SARL

Mauritius - Mechanisation Co. Ltd. (M.E.C.O.M.)

Morocco - Stokvis Nord-Afrique S. A.

Mozambique - Trak-Auto LDA

Namibia - Komatsu Namibia (Pty) Ltd.

Niger - Bia Equipments & Services

Niamey

Nigeria - Panafriican Equipment (Nigeria) Ltd.

Senegal - Bia Dakar

Sierra Leone - Panafriican Equipment (Sierra Leone) Ltd.

South Africa - Komatsu Southern Africa (Pty) Ltd.

Swaziland - Atlas Motors

Tanzania - Panafriican Equipment (Tanzania) Ltd.

Uganda - Victoria Equipment Ltd.

Zambia - Komatsu Zambia (Pty) Ltd.

Zimbabwe - LOAD Agropower

Kraft Tool Co.

8325 Hedge Lane Terrace Shawnee Kansas 66227 USA

Tel: +1 913 4224848

Fax: +1 913 4221018

Web: www.krafttool.com

E-mail: sales@krafttool.com

Kraft Tool Company, established in 1981, manufactures Quality trowel trade Tools for concrete, Masonry, Asphalt, Drywall, Plaster & Tile professionals. As a trusted name in hand tools, kraft tool is proud of the "Hand Crafted" workmanship attributed to every product. Maintaining quality, good service and innovative products are our goals.

Kresta Laurel Ltd.

Kresta Laurel Complex 376 Ikorodu Road Maryland Lagos Nigeria

Tel: +234 81 87150220 / 809 5152624

Web: www.krestalaurel.com

E-mail: kresta@krestalaurel.com

Kresta Laurel Ltd. Nigeria is a total engineering company with distinctive competence & knowledge in the field of electro-mechanical systems such as elevators, overhead travelling cranes & hoist, uninterrupted power systems, welding machines, building maintenance units, data centre enclosures & mobile shelving systems.

**KTI - Plersch
Kältetechnik GmbH**
Carl - Otto - Weg 14/2
Balzheim, 88481
Germany
Tel: +49 7347 95720
Fax: +49 7347 957222
Web: www.kti-plersch.com
E-mail: ice@kti-plersch.com

For over 25 years, major players in the construction and mining sectors have relied on KTI-Plersch Kältetechnik GmbH for refrigeration. KTI is a world leader for concrete cooling as well as surface ice cooling systems for deep mines. Our product catalogue includes large capacity industrial ice plants and water chillers.

Agents:
South Africa - Readymix Consultant Services

KUHN Holding GmbH
A-5301 Eugendorf b. Sbg.
Gewerbestraße 7
Austria
Tel: +43 62 2582060
Web: www.kuhn.at
E-mail: office-bm@kuhn.at

KwikBuild (Pty) Ltd.
8A Brentford Close
Beaconvale, Cape Town, 7530
South Africa
Tel: +27 21 9318130
Fax: +27 21 9314781
Web: www.kwikbuild.co.za
E-mail: info@e-kwikbuild.co.za

Lafarge
61 rue des Belles Feuilles
Paris Cedex 16, BP 40, 75782
France
Tel: +33 1 44341111
Fax: +33 1 44341200
Web: www.lafarge.com

Lafarge is the world leader in building materials, with top ranking positions in all of its businesses, Cement, Aggregates and Concrete and Gypsum with 76,000 employees in 78 countries.

Agents:
Kenya - Bamburi Cement
South Africa - Lafarge Gypsum (Pty) Ltd.
South Africa - Lafarge Industries South Africa (Pty) Ltd.
Tanzania - MBEYA
Zambia - Lafarge Zambia
Zimbabwe - Lafarge Cement Zimbabwe

Liebherr- Export AG

LIEBHERR
General-Guisan-Straße 14
CH - 5415, Nussbaumen
Switzerland
Web: www.liebherr.com
www.facebook.com/LiebherrConstruction
E-mail: info.lex@liebherr.com

The Liebherr Group comprises more than 130 companies in every continent of the world and employs a workforce of about 41,000 people. In 2014, the Liebherr Group achieved a total consolidated turnover of more than 8.8 billion Euros. The Liebherr Group's holding company is Liebherr-International AG in Bulle, Switzerland, which is entirely owned by members of the Liebherr family.

LINTEC GmbH & Co. KG
Alter Postweg 28
Buxtehude
21614
Germany
Tel: +49 41 618660
Fax: +49 41 61866188
Web: www.lintec-gmbh.de
E-mail: info@lintec-gmbh.de

LINTEC is a German manufacturer of containerized asphalt and concrete mixing plants and related equipment. The modular construction permits easy and economic transport and a fast set-up at the jobsite. New: Innovative aggregate cooling system for concrete without using ice. Energy saving technology - perfect solution for retrofit and new plants.

Loadtech Loadcells (Pty) Ltd.



134 Sarel Baard Crescent
Gateway Industrial Park
Centurion
South Africa
Tel: +27 12 6610830
Web: www.loadtech.co.za
E-mail: sales@loadtech.co.za

lovato Electric S.p.A.

Via Don E. Mazza 12, Gorle
Bergamo, 24020
Italy
Tel: +39 035 4282111
Fax: +39 035 4282200
Web:
www.lovatoelectric.com
E-mail: info@lovatoelectric.com

Electrical components for industrial automation and energy efficiency since 1922.

Magni Telescopic Handlers



Via Magellano 22
Localita' Cavazzona
41013 Castelfranco Emilia
Modena
Italy
Tel: +39 059 8630811
Fax: +39 059 8638012
Web: www.magnith.com
E-mail: commerciale@magnith.com

Manufacturer of heavy and rotating telescopic handlers for mining, construction, industry and quarries.

Agents:
Kenya - ELB East Africa Ltd.
South Africa - Eazi Sales & Service

Mahindra & Mahindra Ltd.

Mahindra Powerol
Gate No.2 Akurli Road
Kandivali East
Mumbai
400101
India
Tel: +91 22 67504054
Web:
www.mahindrapowerol.com
E-mail: iyer.suresh@mahindra.com

Agents:

Burkina Faso - Sapex SA
Ghana - Svani Ltd.
Malawi - ETC Agro Tractors and Implements Ltd.
Niger - Sapex SA
Nigeria - SCOA Trac
Rwanda - I Engineering Rwanda Ltd.
Sierra Leone - Escon Services Ltd.
Tanzania - ETC Agro Tractors and Implements Ltd.
Uganda - ETC Agro Tractors and Implements Ltd.

Maitek S.r.l.

Via Vittorio Alfieri
8-61039, Ponterio
Disan Costanlo (PU)
Italy
Tel: +39 0721 959340
Fax: +39 0721 936623
Web: www.maiteksrl.com
E-mail: info@maiteksrl.com

Maitek manufactures aggregates crushing, screening and washing plants for quarry and mine, including water clarifying and sludge treatment plants, dust suppression systems. Turnkey projects from engineering to after-sale assistance and spare parts. Warehouse of new and second-hand machines in prompt delivery.

MAN Truck & Bus AG

Oskar-Schlemmer-Strasse
19-21, Munich, 80807
Germany
Tel: +49 1515 7115790
Fax: +49 8915 8097904
Web: www.man-northernafrica.com
E-mail: paul.pfeffer@man.eu
carole.oddoux-enzian@man.eu

Engineering the future since 1758: Focused on key technologies transport and energy the MAN Group offers innovative products such as trucks, buses, diesel engines, turbomachinery and complete power plant & business solutions. The MAN Group is your partner for win-win solutions, get to know us.

Manitou Southern Africa (Pty) Ltd.

PO Box 1310
Isando, 1600
South Africa
Tel: +27 11 9757770
Fax: +27 11 9754646
Web: www.manitou.co.za
E-mail: info.msa@manitou-group.com

Mantrac Group

(B-17) Smart Village Km 28
Cairo Alexandria Desert
Road, Giza, 12577
Egypt
Tel: +20 2 35370798
Fax: +20 2 35314000
Web:
www.mantracgroup.com
E-mail: info@mantracgroup.com
lbasiony@mantrac.com.eg

Agents:

Egypt - Mantrac Egypt Ltd. (Cairo)
Ghana - Mantrac Ghana Ltd. (Accra)
Kenya - Mantrac Kenya Ltd. (Nairobi)
Nigeria - Mantrac Nigeria Ltd. (Lagos)
Sierra Leone - Mantrac Sierra Leone Ltd. (Freetown)
Tanzania - Mantrac Tanzania Ltd. (Dar Es Salaam)
Uganda - Mantrac Uganda Ltd. (Kampala)

Marelli Motori S.p.A.

Via Sabbionara 1
Arzignano (VI), 36071
Italy
Tel: +39 0444 479711
Fax: +39 0444 479888
Web:
www.marellimotori.com
E-mail: sales@marellimotori.com

Marelli Motori designs and manufactures a wide range of generators and electric motors in low, medium and high voltage (up to 15kV), 50-60 Hz or suitable for variable speed operation. Generators up to 12,500 kVA. Motors up to 10,000 kW.

Agents:

South Africa - Marelli Electrical Machines
South Africa (Pty) Ltd.

Marini S.p.A.

Via Roma
50 Alfonso (RA)
Italy
Tel: +39 0544 88111
Fax: +39 0544 81341
Web: www.marini.fayat.com
E-mail:
info@marini.fayat.com

Marini is a worldwide leader in the manufacture of batch mix asphalt plants

(production 60 to 500 TPH), both stationary and mobile, plants for recycling of asphalt pavements and for production of cement mixes. Its products are the result of the most modern technologies and 50 years of experience.

Agents:

Algeria - EUR METEC
Egypt - M.S.E._Modern Structures & Equipment
Ethiopia - Ries Engineering Share Co.
Kenya - Achelis Materials Handling (Kenya) Ltd.
Morocco - ETS L Berenger
Nigeria - HDM Nigeria

MASA GmbH

Masa-Str. 2
Andernach
56626
Germany
Tel: +49 2632 92920
Fax: +49 2632 929211
Web: www.masa-group.com
E-mail: info@masa-group.com

Maxim Lifting Equipment (Pty) Ltd.

133 Craig Street
Anvil Park
Unit 7
Boksburg North
1456
South Africa
Tel: +27 87 2357966
Fax: +27 86 5756331
Web: www.maximlifting.co.za
E-mail: info@maximlifting.co.za

MB Crusher S.p.A.

Via Astico 30/A
Fara Vicentino (VI)
36030
Italy
Tel: +39 0445 308148
Fax: +39 0445 308179
Web: www.mbcrusher.com
E-mail: info@mbcrusher.com

MB is a global leader in the production and marketing of equipment, machinery and accessories for the earthmovement, demolition and recycling sectors. MB's products are crusher and screening buckets, iron separator and grapple rotary movement.

MECCANICA 2P S.r.l.

Via Ponticello 20
Casavo Del Tomba - TV
31034
Italy
Tel: +39 0423 543362
Fax: +39 0423 942881
Web: www.meccanica2p.it
E-mail: commerciale@meccanica2p.com

MECCANICA 2P plans and realizes machines and automatisms for the heavy clay industry: dies and cutters for roof tiles, blocks and hollow bricks, tiles, bricks, wall and floor material and automatic systems for the handling and the packing of dried and fired product.

The Company is working in the sector from more than 30 years and it has accumulated a long experience and a solid know-how. MECCANICA 2P staff is concretely beside the client in every phase of the work: from the planning to the production, from the installation to the post-sale assistance, offering products highly personalized according to the precise demands of every customer.

Meka Crushing & Concrete Batching Technology

Camlica Mah, Anadolu Bul
147 Sok (Eski 15)
Atlas is Merkezi No: 5/9
Gimat Ankara
Turkey
Tel: +90 312 3979133
Fax: +90 312 3971034
Web:
www.mekaconcreteplants.com
E-mail: sales@meka.com.tr

MEKA has been a reputable manufacturer of concrete plant, concrete mixer and crushing & screening equipment for more than 25 years.

Agents:

Morocco - Fenie Brossette

MERLO S.p.A.

Via Nazionale N 9
San Defendente di Cervasca
12010
Italy
Tel: +39 0171 1614111
Fax: +39 0171 1684101
Web: www.merlo.com
E-mail: info@merlo.com

Minyu Machinery Corp.

4F No. 431
Rui guang Road
Neihu Dist.
Taipei City
11492
Taiwan
Tel: +886 2 87512022
Fax: +886 2 87512051
Web: www.minyu.com
E-mail: office@minyu.com

Established nearly 50 years ago, MINYU has since become a world leader in crushing and screening equipments manufacturing. MINYU manufactures and provides technological cutting-edge crushers and screens to the construction, mining and quarry industries at the best quality to price ratio.

Morris Site Machinery

Station Road
Four Ashes
Wolverhampton
West Midlands
WV10 7DB
United Kingdom
Tel: +44 1902 790824
Fax: +44 1902 790355
Web:
www.morrismachinery.co.uk
E-mail: nickavill@morrismachinery.co.uk

We are a market leader in supply of the following product ranges to international plant hire and rental markets; the product areas include:

- ArcGen, trusted diesel welder generators & generators
- SMC, innovative mobile lighting towers
- Hilti, reliable site pumps and power washers
- Alcon, trusted agricultural & fuel transfer pumps

Motorenfabrik Hatz GmbH & Co. KG

Ernst-Hatz-Strasse 16
Ruhstorf
94099
Germany
Tel: +49 8531 3190
Fax: +49 8531 319418
Web: www.hatz-diesel.com
E-mail: marketing@hatz-diesel.de

Hatz is a specialist in 1 to 4 cylinder diesel engines which are used in all manner of applications such as construction machinery, compressors and utility vehicles. Besides, Hatz produces complete systems like generating sets, smart grid systems, pumps and special systems based on customer demand

Agents:

Algeria - Dieselec SARL
Burundi - Metalubia
Cameroon - EMEI Diesel SARL
Cote D'Ivoire - Prestige-Auto
Gabon - MIAG - Matériel Industriel et Automobile Gabonais
Ghana - Agria Machinery Services & Company Ltd
Kenya - First Machineries Ltd.
Mali - Dupe SA
Mauritania - Sodeq SA
Morocco - Sonacom
Nigeria - A1 Multi Services Ltd.
Senegal - Mat Force (CRE Technology)
South Africa - Hatz Diesel SA (Pty) Ltd.
Tunisia - S.I.A. Ben Djemaa & Cie

MTU South Africa (Pty) Ltd.

36 Marconi Road
Montague Gardens
Cape Town
7441
South Africa
Tel: +27 21 5295760
Web: www.mtu-online.co.za
E-mail: info@mtu-online.co.za

As one of Rolls-Royce Power Systems core brands, MTU is one of the world's leading manufacturers of large diesel engines and complete propulsion systems. From the latest emissions technology to precision-tailored service and repowering solutions, you can count on MTU's experience. We are your reliable partner today and well into the future.

Agents:

South Africa - MTU South Africa (Pty) Ltd

Multotec

PO Box 224
28 Forge Road
Spartan
Kempton Park
1620
South Africa
Tel: +27 11 9236285
Fax: +27 11 3945099/8701
Web: www.multotec.com
E-mail: marketing@multotec.co.za

New Holland Construction Machinery

Via Plava 80
Gate 31
Turin
10135
Italy
Web: www.newholland.com
E-mail: international.ce.media@cnh.com

New Holland Construction is a global, full-line construction equipment brand, with a network of 800 dealers and over 2,100 outlets. The company brings together the strength and resources of its worldwide commercial, industrial and finance organizations. New Holland Construction is a brand of CNH Global NV, a majority-owned subsidiary of Fiat Industrial S.p.A. For more information www.newholland.com.

Agents:

Algeria - ALGERIA-NEGOCE AUTO SERVICE SARL
Congo DR - ITALMOTORS
Ethiopia - TANA ENGINEERING
Kenya - ACELIS
Libya - ATTRANS
Mauritius - AUTODIFFUSION (GROUP SODIAT)
Morocco - FENIE BROSETTE
Namibia - REX QUIP
Nigeria - SCOATRACK
Senegal - AFCO
South Africa - NEW HOLLAND REPRESENTATIVE OFFICE
Tanzania - ACELIS
Tunisia - LE MOTEUR DIESEL
Uganda - ACELIS

NLMK Clabecq SA

Rue de Clabecq 101
Ittre, 1460
Belgium
Tel: +32 2 3919100
Fax: +32 2 3919890
Web: www.eu.nlmk.com

Ormonde Machinery Ltd.

Unit 7
First Floor
Cillin Hill Centre
Dublin Road, Kilkenny
Ireland
Tel: +353 56 7777401
Fax: +353 56 7777402
Web:
www.ormondemachinery.com
E-mail: sales@ormondemachinery.com

Ormonde Machinery are leading suppliers of Terex Finlay Crushing, Screening and Washing Equipment in West Africa. The company also supplies Conveyors, Dump trucks, Recycling Equipment and Block Making Machines.

Agents:

Nigeria - Finlay Nigeria Ltd.

Pan Mixers SA (Pty) Ltd.

PO Box 75098
Gardenview
2047
South Africa
Tel: +27 11 5788741
Fax: +27 11 5788720
Web: www.pmsa.com
E-mail: sales@panmixers.co.za

PANAFRICAN GROUP

PO Box 392163
Office 2603 – 2605
1 Lake Plaza Tower
Jumeirah Lake Towers
Dubai
United Arab Emirates
Web:
www.panafriicangroup.com
E-mail: info@panafriicangroup.com

The PANAFRICAN GROUP operates in 7 countries across Africa where they are recognized leaders in providing equipment and after sales support solutions to the heavy mining, light and alluvial, cement and quarry, agriculture, civil infrastructure and power and energy sectors.

Agents:

Ghana - Panafrican Equipment (Ghana) Ltd. (PANAFRICAN)
Kenya - Panafrican Equipment (Kenya) Ltd. (PANAFRICAN)
Nigeria - Panafrican Equipment (Nigeria) Ltd. (PANAFRICAN)
Sierra Leone - Panafrican Equipment (SL) Ltd. (PANAFRICAN)
Tanzania - Panafrican Equipment (T) Ltd. (PANAFRICAN)

Parker Plant Ltd.

Canon Street, Leicester
LE4 6GH
United Kingdom
Tel: +44 116 2665999
Fax: +44 116 2664422
Web: www.parkerplant.com
E-mail: sales@parkerplant.com

Parker Plant manufactures and supplies a comprehensive range of crushing, screening, asphalt and concrete plants as well as bitumen / road surfacing equipment and bulk handling conveyor systems.

Partglobal Corp Sdn Bhd

No. 29-30, Jalan 5/116B
Kuchai Ent. Park
Off Jalan Kuchai Lama
Kuala Lumpur, 58200
Malaysia
Tel: +60 3 79816511
Fax: +60 3 79811426

Perkins Engines Co. Ltd.

Frank Perkins Way
Peterborough
Cambridgeshire, PE1 5FQ
United Kingdom
Tel: +44 1733 583000
Web: www.perkins.com
E-mail: webmaster_perkins@perkins.com

Perkins is a leading supplier of off-highway diesel and gas engines in the 4 – 2000 kW (5 – 2800 hp) market. Our dependable, productive and fuel efficient engines are trusted by leading manufacturers in the construction, industrial, materials handling and electrical power generation markets.

Phoenix Conveyor Belt Systems GmbH

Hannoversche Straße 100
Hamburg, 21079
Germany
Tel: +49 40 766703
Fax: +49 40 76672413
Web: www.phoenix-conveyor-belts.com
E-mail: info@phoenix-cbs.com

Phoenix conveyor belts, headquartered in German Hamburg, is an international group company that is more than 150 years old. Phoenix Conveyor Belt Systems GmbH has produced significant advancements in conveyor belt design, which include world records such as the Strongest Belts, the Steepest Overland and the World's Heaviest Belt, to name a few.

Powerscreen

200 Coalisland Road
Dungannon, Co. Tyrone
Northern Ireland
BT71 4DR
United Kingdom
Tel: +44 2887 718500
Fax: +44 2887 747231
Web: www.powerscreen.com
E-mail: sales@powerscreen.com

Powerscreen is an expert in the design and manufacture of mobile crushing and screening equipment. With a rich heritage of design and manufacturing excellence, Powerscreen has grown to become a leading force in the original equipment manufacturing sector. Powerscreen machines cover the full range of material processing requirements for the mining, quarrying, demolition and recycling industries.

Pr Industrial S.r.l.

Località il Piano Snc
Casole d'Elsa, Siena, 53031
Italy
Tel: +39 0577 9651
Fax: +39 0577 949076
Web: www.pramac.com
E-mail: info@pramac.com

PRAMAC is an Italy-based Co. engaged in the manufacturing of the power generation equipment and materials handling equipment. The Co. divides its activities into two business sectors: Power Systems, e- Power Engineering, which comprises generators for electric power, including low voltage portable generators and medium and high voltage generators and similar machineries; Handling, which includes the manufacturing and distribution of the machinery for handling logistic.

Agents:

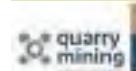
Senegal - Pramac Lifter Afrique Trading SARL

Putzmeister South Africa (Pty) Ltd.

PO Box 5146
Corner Braam + Citrus Street
Honeydew, Ext. 21, ZA 2118
South Africa
Tel: +27 11 7943790
Fax: +27 11 7944119
Web:
www.putzmeister.co.za
E-mail: geyserl@putzmeister.co.za

Agents:

Algeria - Putzmeister Concrete Pumps GmbH

QUARRY MINING LLC

PO Box 9593, Ras Al Khaimah UAE
Tel: +971 7 2689799
Fax: +971 7 2689499
Web: www.quarrymining.net
E-mail: info@quarrymining.net

QUARRY MINING LLC design and manufacture to European standards of design and construction and at the same time adopt the same safety standards and features as you would expect if you purchased the equipment from Europe. QUARRY MINING LLC received ISO Certificate 9001:2008 but also ISO Certificate 14001:2004 from Tuv Rheinland/Germany, while all updates are continuously integrated.

RATEC GmbH

Karlsruher Str. 32
Hockenheim, 68766 Germany
Tel: +49 6205 940729
Fax: +49 6205 940730
Web: www.ratec.org
E-mail: info@ratec.org

Meet the better ideas for your precast concrete housing and building projects. RATEC is a well-known supplier of magnetic shuttering systems, magnet boxes, batter formwork systems and concrete pumps. Furthermore, with Reymann Technik as partner it offers plant design and consultancy for new and existing precast concrete plants.

Agents:

South Africa - UkuZwana

**Ritchie Bros.
Auctioneers**

Concordiastraat 20, Breda
4811 NB
The Netherlands
Tel: +31 76 5242600
Fax: +31 76 5242650
Web: www.rbauction.com

Rockster Recycler

Wirtschaftszeile
West 2, Ennsdorf, 4482
Austria
Tel: +43 7223 81000
Fax: +43 7223 81000329
Web: www.rockster.at
E-mail: office@rockster.at

Rockster Recycler is a specialist in the development and manufacture of mobile crushing and screening plants for profitable recycling of asphalt, concrete and other construction waste, and the efficient processing of natural stone. With innovations such as the patented duplex systems or the unique hybrid crusher, the company repeatedly demonstrates its progressive approach.

Agents:
South Africa - Mfangano Solutions

Rossi S.p.A.

Via Emilia Ovest 915/A
Modena, 41123
Italy
Tel: + 39 059 330288
Fax: + 39 059 827774
Web: www.rossi-group.com
E-mail: info@rossi-group.com

Rossi is a global leading provider of Power Transmission Drives (Gearboxes and Gearmotors) with a high value/price ratio. Rossi has been developing its business in the most demanding applications, becoming one of the world's leading gearbox specialist in strategic segments, such as Mining, Metal, Plastic and Rubber.

Agents:
South Africa - Rossi Southern Africa

RUD Ketten Rieger & Dietz GmbH u. Co. KG

Friedensinsel, Aalen, 73432
Germany
Tel: +49 7361 5040
Fax: +49 7361 5041450
Web: www.rud.com
E-mail: rudketten@rud.com

SDMO Industries

12 bis rue de la Villeneuve
Brest Cedex 2, CS92848
29228, France
Tel: +33 2 98414141
Fax: +33 2 98416307
Web: www.smdo.com
E-mail: smdo@smdo.com

SDMO Industries is one of the world's leading generating set manufacturers. A wide range of standard products from 1 kVA to several Megawatts. Through an efficient engineering department, SDMO meets non-standard requirements. Present in over 150 countries through a dense network, SDMO Industries devotes its energy to supporting you in the successful completion of each of your projects world wide.

Agents:
Algérie - SDMO
Egypt - SDMO Cairo
South Africa - SDMO Johannesburg
Togo - SDMO Lome

Secmair Fayat Group

Rue des Frères Lumière
Cossé-le-Vivien, 53230
France
Tel: +33 2 43982776
Fax: +33 2 43643390
Web:
www.secmair.fayat.com
E-mail: e.braisiaux@secmair.fayat.com

Secmair Fayat Group, complete range for road maintenance.

**SENNEBOGEN
Maschinenfabrik GmbH**

Hebbelstraße 30
Straubing
94315
Germany
Tel: +49 9421 5400
Fax: +49 9421 540888
Web:
www.sennebogen.com
E-mail: marketing@sennebogen.de

As a family-owned company - strengthened by more than 60 years of experience - SENNEBOGEN will remain an approachable company. SENNEBOGEN is in a leading position as a globally established innovation driver and manufacturer in the areas of material handling and crane engineering. The focus on the various product segments is consistently applied in development, product management, sales organization and our production plants in Germany. In product development, we focus on availability and reliability of our products.

**SEVA Switchgear Pvt.
Ltd.**

97, Magadi Road
Metro pillar # 219
Bangalore, 560023
India
Tel: +91 80 23383047/
23380233
Web: www.sevaspl.com
E-mail: info@sevaspl.com

**Shandong Shantui
Construction Machinery
Import & Export Co. Ltd.**

No. 58 Highway, G327
Jining, Shandong
China
Tel: +86 537 2909369
Fax: +86 537 2311219
Web: www.shantui.com
E-mail: trade@shantui.com

Shantui is the world's largest producer of bulldozers and a leading diversified manufacturer of construction, road and cement handling machinery. A top Chinese brand, Shantui products are sold in more than 170 countries and regions worldwide. Contact us for information on how Valve That Works can work for you.

Agents:
Benin - Heavymat Industry
Botswana - Parts Sales Botswana
Burkina Faso - Heavymat Industry
Cameroon - Sun Cam Industry Develop Co. Ltd.
Congo DR - Group Chanic
Congo Republic - Trabec SARL
Cote D'Ivoire - Heavymat Industry
Gabon - Gambonaise de Matériels et d'Équipements (G.M.)
Madagascar - Equipment Provider Solution Co. Ltd. (EPSCO)
Mali - Heavymat Industry
Mauritius - Equipment Provider Solution Co. Ltd. (EPSCO)

Niger - Heavymat Industry
Togo - Heavymat Industry
Zambia - Delta Auto & Equipment Ltd.
Zimbabwe - Machinery Exchange

SMT Group

Avenue Fleming 4
Wavre, 1300
Belgium
Tel: +32 10 476120
Fax: +32 10 476148
Web: www.smt-europe.eu
E-mail: info@smt-group.com

SMT Group is the exclusive distributor of Volvo Construction & Equipment, Volvo Trucks and Volvo Penta in a dozen countries in Central and West Africa. We operate an outstanding own sales and service network with operational agility and entrepreneurial spirit. By engaging in partnerships with our customers, we create value delivering state of the art services and products. Our ambition in both territory coverage and product portfolio is a strong commitment to support our customers growth.

African Agents and Subsidiaries:-
SMT Benin, SMT Burkina Faso, SMT Cameroun, SMT Congo, SMT Côte d'Ivoire, SMT Gabon, SMT Ghana, SMT Liberia, SMT Nigeria, SMT RD Congo, SMT Togo

Soilmec S.p.A.

Via Dismano
47522 Cesena
Forlì Cesena, 5819
Italy
Tel: +39 0547 319111
Fax: +39 0547 318548
Web: www.soilmec.it
E-mail: info@soilmec.it

Soilmec is an international company leader in design, manufacture and distribution of equipment for ground engineering, established in 1969. Since its inception, Soilmec has developed safe, innovative, cutting-edge technologies and equipment solutions. Soilmec equipment is used everyday on jobsites all around the world for bridges, motorways, tunnels, underground lines, railways and buildings of all types. Thanks to a constantly upgraded and broadening range of products and a greatly increased production capability, we are an established landmark in the international ground engineering field.

Agents:

Algeria - Soilmec Algeria
Nigeria - Mining & Construction Equipment Ltd.

**SOL Inc. (Solar Outdoor
Lighting)**

819 S. Federal Highway
Suite 103
Stuart
Florida
34994
USA
Tel: +1 772 2869461
Fax: +1 772 2869616
Web:
www.solarlighting.com
E-mail: info@solarlighting.com

SOL is the leading manufacturer of solar lighting solutions since 1990 with 50,000+ systems installed worldwide. SOL develops innovative LED solar solutions that are well-engineered, easy to install and exceed standards for: Roadways, Parking Lots, Parks, Pathways, Trails, Perimeter Security, Signs, Billboards and Shelters. SOL is ISO 9001:2008 compliant.

**Soosan Heavy
Industries Co. Ltd.**

260 Jeongmunsongsan-RO
Yanggam-Myeon
Hwaseong-SiGyeonggi-Do
Korea
Tel: +31 18 1697640
Fax: +31 18 1641038
Web:
www.soosanheavy.com
E-mail: kimht@soosan.co.kr

A specialized manufacturer for breaker, drill and crane since 1984. Developed and manufactured the Korea's first hydraulic breaker in 1984. Ready to support you with best product and support
Cannot find local distributor? Please ask us to be our distributor.

**Spare Power Trading
(Pty) Ltd.**

162 Range View Road
Apex Industrial
Benoni
Gauteng
South Africa
Tel: +27 11 8454184
Web:
www.sparepowerafrica.com
E-mail: sales@sparepowerafrica.com

Sales and services of agricultural and construction equipment, sugarcane mechanization from field to furnace, offers solutions and services.

SRS Finlay

140 Dungannon Road
Dungannon
Northern Ireland
BT70 2JX
United Kingdom
Tel: +44 2885 568888
Fax: +44 2885 567983
Web: www.srsfinlay.com
E-mail: sales@srsfinlay.com

Finlay block making equipment is renowned for its reliability and longevity to meet the requirements of both the small and large scale producer. Located in the United Kingdom the company has been designing and manufacturing equipment to manufacture and handle concrete building bricks and blocks for 60 years.

Swazi-Trac (Pty) Ltd.

PO Box 170
Matsapha
M202
Swaziland
Tel: +268 5184555
Fax: +268 5184556
Web: www.swazitrac.co.sz
E-mail: reception@swazitrac.co.sz
william@swazitrac.co.sz

Sales and services of agricultural and construction equipment, sugarcane mechanization from field to furnace, offers solutions and services.

Talleres Nunez SA



Calle Plasencia 35
Mostoles
Madrid
28935
Spain
Tel: +34 91 6160500
Fax: +34 91 6165030
Web:
www.mallascrybras.com
E-mail: tn.international@mallascrybras.com

Talleres Nunez is one of Europe's most important manufacturers of screening media and accessories for the aggregate and mining industries, encompassing all the products related with screening and classification. At the same time we are constantly concerned to maintain the best quality and service that has characterised Talleres Nunez since its very outset.

Telestack Ltd.

Bankmore Way East
Omagh
Co. Tyrone
Northern Ireland
BT79 0NZ
United Kingdom
Tel: +44 2882 251100
Fax: +44 2882 252211
Web: www.telestack.com
E-mail: salesenquiries@telestack.com
info@telestack.com

Terex Minerals Processing Systems

32 Farlough Road
Dungannon Co. Tyrone
Northern Ireland
BT71 4DR
United Kingdom
Web: www.terexmps.com
E-mail: mpsmarketing@terex.com

Terex Minerals Processing Systems provides a complete range of crushing & screening equipment to customers around the world. With over 100 years in the minerals processing industry. We understand your business and are dedicated to offering cost-effective solutions for the long term.

Terex Trucks

New House Industrial Estate
Motherwell
Scotland
ML1 5RY
United Kingdom
Tel: +27 82 4411278 /
+44 1698 732121
Web: www.terextrucks.com
E-mail:
peter.thompson@terex.com

Agents:

Nigeria - Hol-Taj
South Africa - Egstra Construction and
Mining Equipment

Terex Washing Systems

200 Coalisland Road
Dungannon
Co. Tyrone
N. Ireland
BT71 4DR
United Kingdom
Tel: +44 28 87718500
Web: <http://www.terex.com/washing-systems/en>
E-mail: TWS.sales@terex.com

The Development Initiative Ltd.

Mercury House
101 Front Street
Hamilton
HM12, Bermuda
Tel: +44 870 8901815
Fax: +44 870 9289855
Web:
www.thedevelopmentinitiative.com
E-mail: info@thedevelopmentinitiative.com

TDI provides commercial landmine and unexploded ordnance clearance in post conflict environments across Africa and the Middle East. With over ten years of experience, TDI have worked extensively for governmental, non-governmental and commercial organisations in multiple theatres.

TMS Technical Mechanical Services

Rue Saint-Vincent 14
Liège
4020
Belgium
Tel: +32 4 3642500
Fax: +32 4 2462341
Web: www.tms-worldwide.com
E-mail: info@tms-worldwide.com

Topcon Positioning Middle East and Africa FZE

PO Box 371028, LIU J-11
Dubai Airport Free Zone
Dubai
United Arab Emirates
Tel: +971 4 2990203
Fax: +971 4 2990403
Web:
www.topconpositioningmea.com
E-mail: marketing@topcongulf.com

Topcon Positioning Middle East and Africa FZE (TPMA) is located in Dubai, United Arab Emirates. TPMA is a subsidiary of Topcon Corporation, a Japanese multinational company who is a world leader in the manufacture of optical and electronic instruments for surveying, construction, machine control, medical and ophthalmic applications. Topcon Corporation was established in 1932 specializing in the manufacture of optical instruments. TPMA was established in November 2010 and business activities started in January 2011 to coordinate the sales and marketing activities of Topcon group in Middle East and Africa for positioning business under Topcon, Sokkia and 2ls brands. Distribution, sales, technical service and support / development of the sales network are coordinated by TPMA as well as the vital feedback flow of information from the Middle East and Africa market to the factory.

Trelawny SPT Ltd.

United Kingdom
Tel: +44 1926 883781
Fax: +44 1926 450352
Web:
www.trelawneyspt.co.uk
E-mail: sales@trelawny.co.uk

Trelawny SPT Ltd. is an independent manufacturer of pneumatic tools and surface preparation equipment operating from its headquarters in the engineering heart of the UK in Leamington Spa. For over 60 years, Trelawny has been offering a range of equipment for the preparation of concrete, steel and stone in various industries. For details visit www.trelawneyspt.co.uk/

TVH

Brabantstraat 15
Waregem
8790
Belgium
Tel: +32 5 6434211
Fax: +32 5 6434488
Web: www.tvh.com
E-mail: info@tvh.com

TVH is your all-round supplier of quality parts and accessories for material handling and agricultural equipment. You get fast answers on any offer, order or technical question from our dedicated sales and technical departments. We continually expand our product range by following new trends and looking for new partnerships.

Agents:

South Africa - TVH Parts South Africa

Vale

Av. Graça Aranha 26
26 - Centro
Rio de Janeiro
20030-900
Brazil
Tel: +55 21 38146204/
+55 21 38144477
Web: www.vale.com.br
E-mail: rio@vale.com

Van Vliet Trucks Holland

Parallelweg Zuid, 215
The Netherlands
Tel: +31 180 312644
Fax: +31 180 319158
Web: www.vanvliet.com
E-mail: mining@vanvliet.com
info@vanvliet.com

Van Vliet Trucks is specialist in export to Africa of customized new, used and reconditioned trucks, trailers, 4WD's heavy equipment, spare parts and all related (project) services, since 1953.

Varisco S.p.A.


Terza Strada 9, Z.I., Nord
35129, Padova
Italy
Tel: +39 049 8294111
Fax: +39 049 8076762
Web: www.variscospa.com
E-mail:
export@variscospa.com

Varisco is known around the world for high quality pump design and manufacturing: self-priming and high efficiency semi-open impeller centrifugal pumps suitable for liquids with solids in suspension. They are used in construction sector (drainage, ground water dewatering) and industry, agriculture and naval sectors.

Visa S.p.A.

Via I° Maggio, 55
Fontanelle (TV), 31043
Italy
Tel: +39 0422 5091
Fax: +39 0422 509350
Web: www.visa.it
E-mail: visa@visa.it

Visa S.p.A. is a modern Italian company manufacturing around 4000 gensets per year, for continuous and emergency service, ranging from 9 to 3000 kVA, in standard or customized versions (constructions, telecommunication). It has a network of distributors in more than 80 countries in the world. Visa is amongst the most qualified companies in the sector, guaranteeing a highly operational flexibility and qualitative standards which has become a leader in the market for more than 50 years.

Voith Turbo (Pty) Ltd.

16 Saligna Street
Hughes Business Park
Witfield Boksburg
1459
South Africa
Tel: +27 11 4184000
Fax: +27 11 4184080
Web:
www.rsa.voithturbo.com
E-mail: info@rsa.voithturbo.com

Voith Turbo, the specialist for hydrodynamic drive, coupling and braking systems for road, rail, industrial applications and ship propulsion systems supplies Hydrodynamic Fluid Couplings; Safety Couplings and Overload Devices; Connecting Coupling Technology; Hydraulic Disk Brakes; Conveyor Belt Motion Monitors; Cardan Shafts; Internal High Pressure Gear Pumps; Keyless Locking Elements; Shaft Mounted Speed Reducing Gear Boxes and Industrial Thruster Operated Drum Brakes to the Mining Industry.

Volvo Construction Equipment



Eskilstuna, 63185
Sweden
Tel: +46 16 544384
Fax: +46 16 152989
Web: www.volvoce.com
E-mail:
asa.alstrom@volvo.com

Agents:

Algeria - SMT
Angola - Auto-Maquinaria Lda. Auto Sueco (Angola) SARL
Botswana - Rola Botswana
Burkina Faso - SMT
Burundi - SMT
Cameroon - SMT
Congo DR - SMT
Congo Republic - SMT
Cote D'Ivoire - SMT
Egypt - Ghabbour Egypt
Ethiopia - Equatorial Business Group Pvt. Ltd. Co.
Gabon - SMT
Ghana - SMT
Liberia - SMT
Madagascar - Leal Equipements Compagnie LTEE
Mauritius - Leal Equipements Compagnie LTEE
Morocco - Volvo Maroc SA
Mozambique - Babcock International
Nigeria - SMT
Rwanda - SMT
Seychelles - Leal Equipements Compagnie LTEE
Sierra Leone - A. Yazbeck & Sons Ltd.
South Africa - Babcock International
Sudan - Al Barajoub Engineering Co. Ltd.
Tanzania - Auto Sueco Tanzania
Togo - SMT Benin
Tunisia - Nordic Machinery
Uganda - Auto Sueco Ltd Kenya
Zambia - Babcock International
Zimbabwe - Conquip

Volvo Penta

Region International
Gothenburg
40508
Sweden
Tel: +46 31 235460
Fax: +46 31 508187
Web: www.volvpenta.com
E-mail: info.volvpenta@volvo.com

Volvo Penta, with more than 4,000 dealers in over 130 countries, is a world-leading and global manufacturer of engines and complete power systems for both marine and industrial applications. The engine program comprises diesel and gasoline engines with power outputs between 10 and 900 hp. The Volvo Penta Industrial engine range covers: diesel engines for electrical power generation, 50 and 60 Hz and industrial diesel engines for different stationary and off-road applications. These engines have now been developed to meet future stringent exhaust emission levels. Volvo penta is part of the Volvo Group, one of the world's leading manufacturers of trucks, buses, construction material & equipment, drive systems for marine and industrial applications, aerospace components and services.

Agents:

Mauritius - Talbot Engineering
Nigeria - ATC Nigeria
Nigeria - Marine And Land Logistics Limited

Reunion - Societe Dexploitation

Mascareignes Materiel (SE2M) SA

Seychelles - Adesho Marine

Sierra Leone - A. Yazbeck & Sons Ltd.

South Africa - Engineering Marine Services

South Africa - Magnum Marine

South Africa - Northern Marine SA

South Africa - Russell Chard Marine

South Africa - Southern Marine Workshop

South Africa - Southern Power Products (Pty) Ltd.

South Africa - Volvo Southern Africa Pty Ltd

Sudan - Al Barajoub Engineering Co. Ltd.

Tunisia - Bateaumed

Zambia - Swedish Trucks & Buses Ltd.

Zimbabwe - Avoca Marine

Zimbabwe - Avoca Power

Vortex Hydra S.r.l.

Via Argine Volano, 355

Fossalta di Capparo(FE)

Italy

Tel: +39 0532 879411

Fax: +39 0532 866766

Web: www.vortexhydra.com

E-mail: vh.sales@vortexhydra.com

Based in Italy, Vortex Hydra have obtained the enviable reputation of being world leaders in the specialist field of concrete roof tile manufacture. Renowned for their "state of the art" large scale, fully automatic production plants, the company has applied its expertise in developing the new Uno Evoluzione lower volume affordable plants.

Wacker Neuson (Pty) Ltd.

1031 Katrol Avenue
Robertville
Florida

Gauteng
South Africa

Tel: +27 11 6720847

Fax: +27 11 6720916

Web:

www.wackerneuson.com

E-mail: tessu.debruyn@wackerneuson.com

Wear and Spare Parts

Appleton Thorn Trading Estate

Warrington
Cheshire

WA4 4SN

United Kingdom

Tel: +44 845 5050060 /
+44 1925 505000

Web:

www.wearandspareparts.com

E-mail: sales@wearandspareparts.com

Wear and Spare Parts are worldwide suppliers of premium quality wear parts. Our range includes concaves and mantles, jaw plates, cheek plates, blow bars and all other crusher wear parts for all Kue Ken, Extec, Nordberg, Metso, Sandvik, Fintec, Kleeman and other crushers.

Weiler GmbH

Rheinstr. 40
Gau-Algesheim, D-55435
Germany
Tel: +49 6725 9195490
Fax: +49 6725 9195491
Web: www.weiler.net
E-mail: info@weiler.net

Turnkey Precast Concrete Plants Smart Precast Technology for modern Building System for the entire construction including foundations, skeleton, walls, floors and roofs. Application for low cost residential, social, commercial and industrial buildings. Machines, equipment, tailor-made turn-key plants, engineering, consultation and after sales service. All from one experienced hand - weiler made in Germany.

Weir Minerals Africa (Pty) Ltd.

31 Isando Road, Isando
Gauteng, 1600
South Africa
Tel: +27 11 9292600
Fax: +27 11 9292960 / 2950
Web: www.weirminerals.com
E-mail: sales-za@weirminerals.com

Weir Minerals Africa is a global supplier of excellent minerals solutions, including pumps, valves, hydrocyclones, wear-resistant linings, dewatering products and comminution solutions, including crushers, screens and high pressure grinding rolls. With the addition of Linatek, this product offering extends to include a range of world class rubber products. All products are backed by a superior technical service.

Wirtgen GmbH

52 Maple Street, Pomona
Kempton Park 1619, 1619
South Africa
Tel: +27 11 0533800
Fax: +27 11 0533851
Web: www.wirtgen.co.za
E-mail: heinrichs@wirtgen.co.za

Wonder Moldplast Pvt. Ltd.

A-7/21-23
SSGT Road Industrial Area
Opp. Rathi Steel Udyog
Ghaziabad, Uttar Pradesh
India

Tel: +91 9810695440/

+91 9910764416

Web: www.novaformwork.com

E-mail: vm@plasticformwork.co.in

Nova Formwork System is a plastic modular reusable formwork or shuttering system manufactured in India and is very easy to use, light weight, excellent finish, water resistant, economical, no need to plaster, safe and fast system which can be used for (retaining, boundary, shear) walls, slabs, columns, pile caps, rafts, low cost housing and even monolithic construction.

Agents:

Ghana - Intermove

Yellogen Ltd.



24 Ooroory Hill, Dromore
County Down
Northern Ireland

BT25 1LE

United Kingdom

Tel: +44 1430 850001

Fax: +44 1430 850002

Web: www.yellogen.com

E-mail: mail@yellogen.com

Yellogen Ltd. is a specialist supplier of power generation products and carry large stocks of used equipment from 10 to 2000 kVA.

All our used machines are located in the UK Mainland, New York.

We can also provide new Diesel Generators utilizing all major engines such as Perkins, Cummins, Volvo and JCB to complement our extensive stock we also provide a full range of spare parts for engines, alternators and Control Systems.

We pride ourselves on supplying a prompt, reliable and helpful service at all times and are confident that the quality of our equipment and standard of service is second to none.

For more information, please contact us or visit our website at www.yellogen.com

YorPower Ltd.

Unit 2 Hurricane Close
Sherburn Industrial Estate
Sherburn in Elmet, Yorkshire
LS25 6PB
United Kingdom
Tel: +44 1977 688155
Fax: +44 1977 688158
Web: www.yorpower.com
E-mail: sales@yorpower.com

YorPower has become one of the most successful UK suppliers of diesel generators. Their growth is based on a simple approach - providing rapid and comprehensive customer service, whatever and wherever the requirement may be. YorPower generators are supplied throughout the UK and are exported to over 60 countries worldwide.

Zamil Steel Building Co.

Egypt

PO Box 11 - Main Post Office

5th Industrial Zone

6th of October City

Egypt

Tel: +20 2 38283333

Fax: +20 2 38283399 / 97

Web: www.zamilsteel.com

E-mail: egyptmarketing@zamilsteel.com

Zamil Steel established in 1977 in Saudi Arabia, specializes in the design, manufacture and supply of pre-engineered steel buildings. Since its inception, Zamil Steel has supplied more than 50,000 buildings to over 90 countries worldwide, through a dedicated network of 65 direct sales offices in 36 countries.

Zest WEG Group



21 Galaxy Avenue
Linbro Business Park
Johannesburg
South Africa
Tel: +27 11 7236000
Web: www.zestenergy.co.za
E-mail: coenraadv@zestenergy.co.za

Section Three: Agents & Subsidiaries in Africa

Algeria

ALGERIA-NEGOCE AUTO SERVICE SARL

Almexol Algerie
18 Cite-Comunale
Alger
Tel: +213 21 754960
Fax: +213 21 754449
Web: www.almex.fr
E-mail: info@almex.fr

Altractors SARL

Lot n° 4, Route des Dunes
Cheraga
Tel: +213 21 821625
Fax: +213 661 545181
E-mail: abdenaf@gmail.com

ARC Trucks

Z.I Ouled
Yaich - Lot Benamor
Route d'Alger
BLIDA
Tel: +213 25 439922/2299
Fax: +213 25 436060
E-mail: contact@arc-trucks.com

ARC Trucks

Route de Zeboudja
Oum Drou-Chlef
Tel: +213 27 718994
Fax: +213 27 718993
E-mail: contact@arc-trucks.com

ARC Trucks

Z.I Khessibia
Route de Tizi - Mascara
Tel: +213 45 737368
Fax: +213 45 737368
E-mail: contact@arc-trucks.com

Atlas Copco Algeria S.p.A

Tel: +213 770 539585/539612
E-mail: azzedine.achour@dz.atlascopco.com

Bergerat Monnoyeur

Zone Industrielle Lot No. 121
Route de dar Beida
Oued Smar, Alger, 16270
Tel: +213 21 513210
Web: www.bm-a.com
E-mail: contact.cat@bm-a.com

Cummins Energie Algeria

Tel: +213 21 751186/46

Dieselec SARL

7 Rue Kaddour Rahim
Hussein-Dey, Alger, 16040
Tel: +213 2377 6568
Fax: +213 2377 6721
E-mail: info@dieselet-dz.com

Doka Algerie SARL

Route de Dar El Beida
Domaine Bakalem
Rouiba, 16017
Tel: +213 98 112540
Fax: +213 98 2501885
Web: www.doka.com
E-mail: algerie@doka.com

EURL C.N.H.A.

41 Avenue Mohammed
Rabia - Kouba, Alger
Tel: +213 21 233437
Fax: +213 21 234030
E-mail: fiatalgerie@yahoo.fr

EURL METEC

07 Route De Dar El Beida
BP74-CP 16061, Sidi Moussa
Alger
Tel: +213 661 454839
E-mail: eurlmetec@gmail.com

Gh- Komatsu

Direction Commerciale
Zone Industrielle Division 07
Propriete 16, Rouiba
Alger
Tel: +213 21 816668/69/70
Fax: +213 21 851606
E-mail: khaouane.hasnaoui@groupehasnaoui.com

Putzmeister Concrete Pumps GmbH

Bureau de Liaison
33, av Kerouche Slimane
Birkhadem, Alger, Algérie
Tel: +213 21 554841
Web: www.pmw.de
E-mail: [tagzoutf@pmw.de](mailto>tagzoutf@pmw.de)

SDMO

5 rue Girardin, Alger Centre
16004
Tel: +213 21 681212
Web: www.sdmo.com

Serpic

Cite Garidi II
Cooperative El Bessma
Kouba, Alger
Tel: +213 21 542057
Fax: +213 21 542057
E-mail: serpic96@hotmail.com

SMT

Tel: +213 56 0078851
E-mail: info@smt-algeria.com

Soilmec Algeria

17 Rue Djurdjura
El Mohammadia, Alger
Tel: +213 21 826042
Fax: +213 21 826042
Web: www.soilmec.fr
E-mail: h.morel@soilmec.fr

TPS - Tractor Parts Services SARL

77, lot Zouatna les Verges
BP 466, Bir Mourad Raïs, 16300
Tel: +213 21 445431
Fax: +213 21 448172
E-mail: tps-algeria@tps-algeria.com

Angola

Aggreko

Tel: +224 227 280280
Web: www.africa.aggreko.com

Atlas Copco Angola, Lda.

Tel: +351 961 750828
Web: www.atlascopco.com
E-mail: rodrolfo.neves@pt.atlascopco.com

Auto-Maquinaria Lda. Auto Sueco (Angola) SARL

Rua Comandante Gika
Alvalade
Garden TowersTorre B
10º Andar Luanda
Tel: +244 927 824434
E-mail: adavid@autosueco.co.ao

Barloworld Equipamentos Angola Lda.

Estrada do Golf S/N
Sector Talatona - Luanda Sul
Luanda
Tel: +244 22 2460220
E-mail: info@barloworld-angola.com

Carlos Spinola

Tel: +351 919 982354
Web: www.doka.com
E-mail: carlos.spinola@doka.com

CI & MA Comp. Ind.

Rua Monsenhor
Mendes Das Neves 3014
Luanda, 2737
Tel: +244 22 2290886/
923425538

Fax: +244 22 2290789
E-mail: contabilidade@grupomopic.com

Cimertex Angola Lda

Zona Industrial de Viana
Viana, Luanda
Tel: +244 923 588840 / 917
678847
E-mail: info@cimertexangola.com

Cummins Angola

Tel: +244 930 530223

Himoinsa Angola

B°Vila Alice
Rue Alda Lara
n° 27
Luanda
Tel: +244 222 447279
Fax: +244 222 446163
Web: www.himoinsa.com
E-mail: angola@himoinsa.com

Jembas Assistencia Technica Lda.
 PO Box 10013
 Largo do Soweto 88
 Luanda
 Tel: +244 22 2637000
 Web: www.jembas.com
 E-mail: jembas@jembas.com

Maqman
 Estrada de Catete, Km 44
 Bom Jesus - Bengo

Moviter Equipamentos Lda

Parque Movicortes
 Azoia
 Leiria
 Portugal
 2404-006
 Tel: 351 244 850 240
 Fax: 351 244 850 241
 Web: www.moviter.pt
 E-mail:
 paulo.fidalgo@movicortes.pt

Tracto-Lena
 Estrada Do Catete
 Km 38 Municipio Do Catete
 Provincia Do Bengo
 Luanda
 Tel: +244 933 946006
 E-mail:
 geral@tractolenaangola.com

Austria

Fronius International GmbH
 Froniusplatz 1, 4600 Wels
 Tel: +43 6646 100774
 E-mail: Wendeler.hannes@fronius.com

Benin

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Heavymat Industry
 BP 1409, Zone Portuaire
 Lome
 Tel: +228 22 712278
 Web: www.heavymat-industry.com
 E-mail: deborah.togo@heavymat-industry.com

Botswana

Atlas Copco South Africa (Pty) Ltd. Construction Technique
 Tel: +27 11 8219000/
 83 6312429
 E-mail: david.stanford@za.atlascopco.com

Barloworld Equipment Botswana Pvt. Ltd.
 PO Box 1616
 Gaborone South-East
 Tel: +267 3951781

Cinstrap
 Plot 4898 No 2, Light Industrial
 Francistown
 Tel: +267 2402990
 Fax: +267 2402990
 E-mail: cinstrap@gmail.com

Komatsu Botswana (Pty) Ltd.
 Plot 58, Gaborone
 International Commerce Park
 Private Bag 00137
 Gaborone
 Botswana
 Tel: +267 392 8343
 Fax: +267 392 8515

Parts Sales Botswana
 Plot 10199 Mokolwane Road
 Broadhurst
 Gaborone
 Tel: +267 395 7044/
 121/71774237

Rola Botswana
 PO Box 403445, Broadhurst
 Gaborone
 Tel: +267 3163200
 Fax: +267 3163199
 E-mail: markides@rolabotswana.co.bw

Burkina Faso

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Bia Burkina SARL
 01 BP 5620, Ouagadougou 01
 Voie B, N° 259, ZAD
 Secteur 15
 Tel: +226 50 377440
 Web: www.biaoverseas.com
 E-mail: info@bia.bf

Burkina Equipements
 3238, Route De Fada
 Km6 Secteur 28, Dassagho
 Ouagadougou Kadiogo
 Province
 Tel: +226 50 364766
 Web:
 www.burkinaequipements.com
 E-mail: info@burkinaequipements.com

Heavymat Industry
 BP 1409, Zone Portuaire
 Lome
 Tel: +228 22 712278
 Web: www.heavymat-industry.com
 E-mail: deborah.togo@heavymat-industry.com

Sapex SA
 BP 11584, Niamey
 Tel: +227 90905858
 E-mail: olivier.merenne@sapex.com

SMT
 Tel: +226 66 770101
 E-mail: info@smt-bf.com

Burundi

Atlas Copco Tanzania Ltd.
 Tel: +255 787 740021
 E-mail: jessie.kamau@tz.atlascopco.com

Bia Metalubia
 Boulevard du 1er Novembre
 Bujumbura
 BP3028
 Tel: +257 22 213775
 Web: www.biaoverseas.com
 E-mail: metalubia@yahoo.fr

Metalubia
 Boulevard du 1er Novembré
 Bujumbura
 BP 3028
 Tel: +257 22 213775

SMT
 Tel: +32 10 476124
 E-mail: info@smt-europe.eu

Cameroon

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Bernabe Cameroun

Tel: +237 3342 9020
 Fax: +237 9876 5518
 E-mail: nicolas.dlb@bernabeafricue.com

EMEI Diesel SARL
 777 Rue Drouot, Douala
 BP 4509
 Tel: +237 3428751
 Fax: +237 3426843
 E-mail: emei.diesel@yahoo.fr

SMT
 Tel: +237 33 372746
 E-mail: info@smt-cameroun.com

Sun Cam Industry Develop Co. Ltd.
 BP 627, Douala
 Tel: +237 99003099
 E-mail: psiewes@hotmail.com

Tractrafric Equipment Cameroun
 Rue Du Cinema Etoile
 Garoua Nord
 Tel: +237 217556
 Web: www.tractrafric.com
 E-mail: sho.cameroun@camnet.cm

Tractrafric Equipment Cameroun
 Aeroport - Rue 8029
 Yaounde Centre
 Tel: +237 304681
 Web: www.tractrafric.com

Central African Republic

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Chad

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Tractrafric Equipment
 Bd De La Corniche, N'djamena
 Tel: +235 514171

Congo DR

Atlas Copco Zambia Ltd.
 Tel: +260 212311562/978 999175
 E-mail: daniel.banister@zm.atlascopco.com

BIA Overseas
 Tel: +32 10 488062

Bureau Technique Bia SPRL
 Avenue Hewa Bora 17
 Quartier industriel
 Lubumbashi - RDC
 Tel: +243 99 7027918
 Web: www.biaoverseas.com
 E-mail: bia@bia.cd

Group Chanic
 Avenue de la Montage
 No. 2297, Kinshasa, Ngaliema
 8512
 Tel: +243 817152720

SMT
 Tel: +32 10 476124
 E-mail: clive.davenport@chanic.com

ITALMOTORS

SMT
 Tel: +243 815 656565
 E-mail: info@smt-rdc.com

Tractrafric Equipment RDC
 2798 Boulevard Du 30
 Juin Kinshasa Km
 Tel: +243 98 166244

Congo Republic

Approvisionnement Congo Service
 Tel: +242 6670670

Bernabe Congo Alucongo
 Tel: +242 2 22940412
 Fax: +242 5 7666663
 E-mail: wilfrid.deroome@bernabeafricue.com

Bia Pointe - Noire S.A.

BP5429, Pointe-Noire
 Tel: +242 06 9385352
 Web: www.biaoverseas.com
 E-mail: ovr@biaoverseas.com

SMT

Tel: +242 06 5082713
 E-mail: info@smt-congo.com

Trabec SARL

BP 4428, Mont Kamba
 Pointe Noire
 Tel: +242 66615399
 E-mail: giostra@trabec.com
 dircom@trabec.com

Tractrafric Equipment Congo

Avenue Edith Bongo
 Ondimba Z.I. Mpila
 Brazzaville Federal Dist
 Tel: +242 6 9799330
 E-mail: secretariat-bzv@sho-congo.com

Tractrafric Equipment Congo

Bd. President Marien Ngouabi
 Pointe-Noire Kouilou
 Tel: +242 940958

Cote D'Ivoire

Atlas Copco Senegal SARL
 Tel: +221 338 698770/773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Bernabe Cote D'Ivoire

Bvd de Marseille km 4
 01 BP 1867, Abidjan 101

Tel: +225 21 351150
 Fax: +225 21 354884

E-mail: ricci@bernabeafricue.com

Bia Côte D'Ivoire

Rue des Lumières
 Zone 4, Abidjan
 Côte d'Ivoire
 Tel: +225 21 358541
 Web: www.biaoverseas.com
 E-mail: alexandre.barbary@bia.cd

Heavymat Industry

BP 1409, Zone Portuaire
 Lome
 Tel: +228 22 712278

Web: www.heavymat-industry.com
 E-mail: deborah.togo@heavymat-industry.com

Manutention Africaine Côte D'Ivoire

Zone Industrielle, Batiment 138
 04 BP 945
 San Pedro Bas-Sassandra

Tel: +225 34 711565
 Web: www.manutafci.com
 E-mail: info@manutafci.com

Manutention Africaine Côte D'Ivoire

Route De Dabou
 Yopougon, Abidjan, Lagunes, 01
 Tel: +225 23 535580
 Web: www.manutafci.com
 E-mail: info@manutafci.com

Matforce (F.G. Industries SAS)

Rue de la Pointe aux Fumeurs
 Zone Industrielle de Vride
 Abidjan, 01 BO 1844
 Ivory Coast
 Tel: +225 21 2758890
 Fax: +225 21 275196
 E-mail: jraffoul@matforce.ci

Premium Cote D'Ivoire

07 BP 813, Abidjan 07
 Ivory Coast
 Tel: +225 21 759336
 Web: www.groupe-premium.com
 E-mail:
 edmond.niepsujewicz@premium.net.ma

Prestige-Auto

Département Agricole
 BTP Industriel
 Boulevard de Vridi
 Abidjan 11 BP 1691
 Tel: +225 21 756555
 Fax: +225 21 756569

SMT

Tel: +225 21 751627
 E-mail: info@smt-ci.com

Djibouti

Anciens Comptoirs Ries
 Zone Industrielle De Boulaos
 Tel: +253 352656
 E-mail: acr3@intnet.dj

Atlas Copco Tanzania Ltd.

Tel: +255 787 740021
 E-mail: jessie.kamau@tz.atlascopco.com

Egypt

Doka Egypt Doka GmbH
 24 Salah Zaki St., Sq 1143
 Sheraton Helipolis, Cairo
 Tel: +20 2 22677216
 Fax: +20 2 22671588
 Web: www.doka.com
 E-mail: egypt@doka.com

Egyptian International Motors Co. Ltd. (E.I.M.)

PO Box 33, El Kalaa
 Autostrad Road
 Mokattam, Cairo
 Tel: +20 2 5061600/601/602/603
 Fax: +20 2 5126526
 Web: www.eim-eg.com

Ghabbour Egypt

Qualioub km 8 Cairo
 Alex. Agricultural Road
 Cairo
 Tel: +20 2 42155314
 Web: www.ghabbour.com
 E-mail: aelgammal@ghabbour.com

M.S.E. Modern Structures & Equipment

PO Box 133, 4 Ahmed Nessim
 St. El-Orman, Giza
 Tel: +20 2 3749 5498
 Fax: +20 2 3748 4329
 E-mail: zeyadhabib@yahoo.co.uk

Mantrac

PO Box 1054, Km. 28 Alexandria
 Cairo Desert Road, Amreya
 Alexandria, 21111
 Tel: +20 3 4481043
 Fax: +20 3 4481042
 Web: www.mantracegypt.com

Mantrac

PO Box 182
30 Lebanon St. Mohandessin
El Gezira, Cairo
Tel: +20 2 33039640
Fax: +20 2 33039648
Web: www.mantracegypt.com
E-mail: thakim@
mantrac.com.eg

Mantrac Egypt Ltd. (Cairo)

30 Lebanon Street, Cairo
Tel: +20 12 23914146
Web: www.mantracegypt.com
E-mail: tsamir@
mantracegypt.com

Mantrac Egypt (Caterpillar SARL)

Elnasr St. Eldhar Hurghada
Al Bahr Al Ahma, 11511
Tel: +20 65 3541571
Web: www.mantracegypt.com
E-mail: info@mantrac.com.eg

Mantrac Egypt (Caterpillar SARL)

2 Abdel Latif Eldosouky St
Off Talkha St., Mansoura Dk
35516
Tel: +20 50 2529512
Web: www.mantracegypt.com
E-mail: info@mantrac.com.eg

Mantrac Egypt (Caterpillar SARL)

PO Box 1054, Alexandria
21111
Tel: +20 3 4541000
Web: www.mantracegypt.com
E-mail: info@mantrac.com.eg

Mantrac Egypt (Caterpillar SARL)

30 Lebanon St El
Mohandessen, Giza Gz
Giza Gz, 12411
Tel: +20 2 33004000
Web: www.mantracegypt.com
E-mail: info@mantrac.com.eg

Orascom Trading Co. SAE

160 26th July Street, Cairo
Agouza
Tel: +20 2 3440201
Fax: +20 2 3015555
Web: www.orascom.com
E-mail: mariannm@
orascom.com

SDMO Cairo

22 Mohamed Saeed
Al-Halawani Street, Sheraton
Heliopolis
Tel: +202 22671278

Unimar Egypt

55 Moussa Galal sq,
Off Shehab st. Mohandessien
Giza
Tel: +202 3 3465180
Fax: +202 3 3025655
E-mail: hichamhafez@
unimaregypt.com

Unimar Egypt

20 Markaz khadamat
Al Tagmoa Al Awal, New Cairo
Tel: +202 2247 8072/73
Fax: +202 2247 8075
E-mail: info@unimaregypt.com

Eritrea

Anberbeb Share Co.

PO Box 5616
Marsa Teklay Street No. 75
Asmara
Tel: +291 1 126482/127450
Fax: +291 1 200242
E-mail: asco0101@eol.com.er

Atlas Copco Tanzania Ltd.

Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

Eritrea Equipment PLC

PO Box 1040
Tegadelti St. No 111-113
Asmara Erit
Tel: +291 1 184548

Ethiopia

Abulkhase Pvt. Ltd. Co.

PO Box 4422
Addis ababa
Tel: +251 91 1200106
Web: www.abulkhase.com
E-mail: abdulrahman.a@
abulkhase.com

Atlas Copco Tanzania Ltd.

Tel: +255 787 74002
E-mail: jessie.kamau@
tz.atlascopco.com

Equatorial Business Group Pvt. Ltd. Co.

Debre Zeit Road
Saris
Addis Ababa
Tel: +251 11 4424955
Fax: +251 11 4422148
E-mail: ebg-
eab.msm@ethionet.et

Orchid Business Group Plc

Sub City - Nifas Silk Lafto
Woreda - 4
House no. 485
Addis Ababa
Tel: +251 113716352
Web: www.doka.com
E-mail: hailealem@
orchidbg.com

Ries Engineering S. Co. (Ethiopia - Cat Lift)

P.O. Box 1116
Debrezeit Road
Addis Ababa
Tel: +251 11 4421133
Fax: +251 11 4420667
Web: www.riesethiopia.com
E-mail: resco.eng@ethionet.et

Ries Engineering S. Co. (Caterpillar SARL)

PO Box 1116
Addis Ababa

Tel: +251 11 4421133

Fax: +251 11 4420667

Web: www.riesethiopia.com

E-mail: resco.gmo@ethionet.et

Ries Engineering Share Co.

Akaki Kaliti S.S
K 13 H 1044
Debrezeit Road
Addis Ababa

5686
Tel: +251 1 421133

E-mail: yeheyes.e@
riesengineering.com

TANA ENGINEERING

The Motor And Engineering Company of Ethiopia

PO Box 5727
Bole to Magenaga Road
Addis Ababa
Tel: +251 11 6613688/3704

Fax: +251 11 6611766

Ultimate Motors PLC

PO Box 3900
Addis Ababa
Tel: +251 1 1655350
E-mail: ummarketing@
ethionet.et

Gabon

Atlas Copco Senegal SARL

Tel: +221 338 698770/
773 337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Bernabe Gabon Libreville

Tel: +241 1 1761023
E-mail: patrick.dufaud@
bernabeafrique.com

Gambonaise de Materiels et d'Equipments (G.M.)

BP 13209, Nomba Domaine
Libreville
Tel: +241 7409669
E-mail: patrice.zavrosa@
groupeack-ga.com

MIAG - Matériel Industriel et Automobile Gabonais

BP 186
Libreville
Tel: +241 7 60031
Fax: +241 7 41889
E-mail: societemiac@
ifrance.com

SMT

Tel: +241 07 515008
E-mail: info@smt-gabon.com

Tractrafric Equipment Gabon

Z.I. Doloumi
Libreville Estuaire
Tel: +241 760140
E-mail: sho12@calva.com

Gambia

Atlas Copco Senegal SARL

Tel: +221 338 698770/
773 337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

JA Delmas Export

Tel: +33 556 796200

Ghana

Agria Machinery Services & Company Ltd

No. 5 Royal Castel Road
Kokomlemle, Accra
Tel: +233 302 222169
Web: .
E-mail: info@
agriamachinerygh.com

Atlas Copco Ghana Ltd.

Tel: +233 540 119845
E-mail: nicholas.yamoah@
gh.atlascopco.com

Intermove

Tel: +233 26 6334747
E-mail: intermove-90@
hotmail.com

Jubaili Bros

Accra
Tel: +233 30 2817700
Fax: +233 30 2817700
Web: www.jubailibros.com
E-mail: jbghana@
jubailibros.com

Luca Chiappa

Tel: +39 3666614388
Web: www.doka.com
E-mail: luca.chiappa@
doka.com

Mantrac Ghana Ltd. (Accra)

PO Box 5207, North Industrial
Area, Accra North
Tel: +233 544 336932
Web: www.mantracghana.com
E-mail: eeworyi@
mantracghana.com

Mantrac Ghana Ltd. (Caterpillar SARL)

Harper Road
Kumasi Ashanti
Tel: +233 32 2023161
Web: www.mantracghana.com
E-mail: info@
mantracghana.com

Mantrac Ghana Ltd. (Ghana - Cat Lift)

PO Box 5207
Ring Road West
Accra-North
Tel: +233 302 213720
Fax: +233 302 221950
Web: www.mantracghana.com

Mantrac Ghana Ltd.(Caterpillar SARL)

Ring Road West
North Industrial Area
Accra North Greater Accra
Tel: +233 30 2213720
Web: www.mantracghana.com
E-mail: info@
mantracghana.com

Mantrac Ghana Ltd.(Caterpillar SARL)

Tarkwa-Esiama Road
Tarkwa Wp
Tel: +233 31 2320706
Web: www.mantracghana.com

Modern Age Technologies Ltd.

PO Box 16125
Accra Airport
Tel: +233 21 778841
Fax: +233 21 778038
Web: www.modernage
technologies.com
E-mail: support@
matghana.com

Multi-Tech Services (WA) Ltd. (Ghana - CJC)

PO Box KN 3634
Kaneshie
89 Fadama Road
South Industrial Area
Accra
Tel: +233 302 662436/
474/476/249 31
Fax: +233 302 662423
Web: www.cjc.dk
E-mail: info@multitechwa.com
ulrik.jacobsen@multitechwa.co

Panafrican Equipment (Ghana) Ltd.

PO Box P.M.B. KA80
Kotoka International Airport
Accra
No. 10 Agbaamo Street
Airport Residential Area
Accra
Tel: +233 302 215840/24435636
Web: www.panafrican group.com
E-mail: info.gh@
panafrican group.com

Panafrican Equipment (Ghana) Ltd. (PANAFRICAN)

No. 16 NME LANE
Airport Residential Area
Accra
Tel: +233 30 2215840
Web: www.panafrican group.com
E-mail: info.gh@
panafrican group.com

SMT

Tel: +233 30 283351-58
E-mail: info@smt-ghana.com

Svani Ltd.

PO Box 9916
Crystal Plaza building
Airport
Accra
Tel: +233 540 105737
E-mail: gm@svanigroup.com

Guinea

Atlas Copco Senegal SARL

Tel: +221 338 698770/773
337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Bia Guinee S. A.

030 BP
732 Kipé
Conakry
Tel: +224 62 1356635
Web: www.biaoverseas.com
E-mail: amdl@biaoverseas.com

Manutention Guineenne

Carrefour Miniere Belle Vue
Route De Hamdallaye
Commune De Diwinn
Conakry
Tel: +224 63 303030
Web: www.manuguinee.com
E-mail: info@manuguinee.com

Guinea Bissau

Atlas Copco Senegal SARL
Tel: +221 338 698770/773 337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Bissau Equipamentos

Rua Eng Quinhones
Bissau
1000
Tel: +245 5538344
Web: www.delmasexport.com
E-mail: info@
delmasexport.com

Guinee Equatoriale

Tractrafric Equipment (Guinee equ)

Kenya

ACHELIS

Achelis Materials Handling (Kenya) Ltd.
PO Box 30378
Funzi Road
Nairobi
00100
Tel: +254 20 6532777
Fax: +254 20 555691
E-mail: jnddo@
acheliskenya.co.ke

Aggreko

Tel: +254 707 000888
Web: www.africa.aggreko.com

Atlas Copco Tanzania Ltd.

Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

Bamburi Cement

PO Box 10921
6th Floor - Kenya Re Towers
Upperhill
Ragati Road
Nairobi
00100
Tel: +254 20 2893300
Fax: +254 20 2710581/2
Web: www.bamburicement.com

Car & General

Tel: +254 20 554055/8/15

CMC Motors Group Ltd.
 Chepkeri Rd
 Off Lusaka Rd
 Industrial Area, Nairobi
 00100
 Tel: +254 724 333319
 E-mail: cnh.customerCare@cmcmotors.com

ELB East Africa Ltd.
 PO Box 767-00502
 RCI Godown No. 4
 North Airport Road
 Embakasi
 Nairobi
 Tel: +254 20 8070728
 E-mail: elb@elbeastafrika.com

ELB East Africa Ltd. (ELB Equipment)
 Nairobi
 Tel: +254 719 497200
 E-mail: elb@elbeastafrika.com

Engineering Supplies 2001 Ltd.
 PO Box 17518
 Dunga Road
 Nairobi
 00500
 Tel: +254 73 3619931
 E-mail: fiori@eslgroup.co.ke

First Machineries Ltd.
 PO Box 48415
 Lusaka Close off Lusaka Road
 Nairobi, 00100
 Tel: +254 20 557786
 Fax: +254 20 557785
 E-mail:
 info@firstmachineries.com

Kimpton Ltd.
 PO Box 40408
 0100 Kampala Road
 Industrial Area, Nairobi
 Tel: +254 722511895
 Web: www.doka.com
 E-mail: dipan@trigg.co.ke

Kirkoskar Kenya Limited
 PO Box 60061
 Off Dunga Road, Nairobi
 Tel: +254 20 533421
 Fax: +254 20 533390
 E-mail: rspatil@kirkoskar.co.ke

Mantrac Kenya Ltd. (Nairobi)
 PO Box 30067
 Nairobi
 00100
 Tel: +254 20 4995300
 Web: www.mantrackenya.com
 E-mail: afarouk@mantrackenya.com

Mantrac Kenya Ltd. (Nairobi) [Kenya - Cat Lift]
 PO Box 30067, Witu Road
 Mansour Complex
 Nairobi
 Tel: +254 20 4995000
 Fax: +254 20 557594
 Web: www.mantrackenya.com
 E-mail: info@mantrackenya.com

Mantrac SAE
 15 Dar-Es-Salam Road
 Mombasa Coast, 80100
 Tel: +254 41 2223442
 Web: www.mantrackenya.com
 E-mail: info@mantrackenya.com

Mantrac SAE
 46 Obote Road, Kisumu Nyanza
 40100
 Tel: +254 57 2023284
 Web: www.mantrackenya.com
 E-mail: info@mantrackenya.com

Mantrac SAE
 Mansour Complex
 Witu Road Off Lusaka Road
 Nairobi
 00100
 Tel: +254 41 2223442
 Web: www.mantrackenya.com
 E-mail: info@mantrackenya.com

Panafrican Equipment (Kenya) Ltd.
 PO Box 44927- 00100
 Nairobi
 Tel: +254 73 2151000/101
 Web: www.panafriicangroup.com
 E-mail: info.ke@panafriicangroup.com

Panafrican Equipment (Kenya) Ltd. (PANAFRICAN)
 PO Box 44927-00100
 Nairobi
 Tel: +254 73 2151000/101
 Web:
 www.panafriicangroup.com
 E-mail: info.ke@panafriicangroup.com

Poweron (East Africa) Ltd.
 Isiolo Road
 Off Enterprise Road
 Industrial Area
 Nairobi
 Tel: +254 78 9245459/78 6444554
 Fax: +254 72 7214000
 Web: www.poweronkenya.com
 E-mail: ashish.kampani@poweronkenya.com;
 ash.kampani@gmail

Specialised Power Systems Ltd.
 PO Box 18435
 Nairobi
 00500
 Tel: +254 20 2077219
 Fax: +254 20 3532986
 Web: www.spsafrica.com
 E-mail: info@spsafrica.com

Lesotho

Barloworld
 Tel: +27 11 8980450
Komatsu Southern Africa (Pty) Ltd.
 PO Box 196
 Corner Diesel & Isando Roads
 Isando
 Gauteng
 Isando 1600
 Lesotho
 Tel: +27 11 923 1000
 Fax: +27 11 923 1111
 E-mail: info@komatsu.co.za

Liberia

Atlas Copco Senegal SARL
 Tel: +221 338 698770/
 773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Bia Liberia Inc.
 Tubman Boulevard
 Congo Town
 (Opposite YWCA), Monrovia
 Tel: +231 888 278861
 E-mail: liberia@biagroup.com

Liberia Equipment Ltd.
 Duala Market
 Bushrod Island
 Monrovia, Montserrado
 Tel: +231 7 7793369
 E-mail: info@liberiaequip.com

SMT - Groupe
 Tel: +231 888071000
 E-mail: info@smt-liberia.com

Libya

ATTRANS

Free Libya Tractors
 Bouatni Airport Road 10 Km
 Benghazi
 Tel: +218 91 6590402/61
 4726813
 E-mail: malek.benaissa@fl-tractors.com
 contact@fl-tractors

Free Libya Tractors
 Alyahya Behind oil Institute
 Tripoli
 Tel: +218 91 6590402/021
 4839954
 Fax: +218 21 4839954
 Web: www.fltractors.com
 E-mail: malek.benaissa@fl-tractors.com
 info@fl-tractors.co

Mafaza Africa
 KM1 Sahili Road
 Beview
 Tajoura
 Tripoli
 Tel: +218 21 3696767
 Fax: +218 21 3696230
 Web: www.mafaza.com

Tanmia Haditha Co.
 Swani Road
 Tripoli
 Tel: +218 91 3834154
 E-mail: l.mourali@tanmia-ly.com

Madagascar

Atlas Copco Tanzania Ltd.
 Tel: +255 787 740021
 E-mail: jessie.kamau@tz.atlascopco.com

Entreposto Comercial De Mocambique SARL
 Av. Do Zimbabwe No. 614
 Matola
 Tel: +258 21 901201
 E-mail: paulo.ferreira@entroposto.co.mz

Equipment Provider Solution Co. Ltd. (EPSCO)
 Motorway M1
 Pailles
 Tel: +230 207 2100
 Web: www.lec.mu
 E-mail: grlagesse@lec.lealgroup.com

Henri Fraise Fils & Co.
 PO Box 28
 Ankorondrano
 Antananarivo, 101
 Tel: +261 20 2222721
 E-mail:
 henri.fraise@wanadoo.mg

Hughes Motors (Tanzania) Ltd.
 PO Box 711
 Usa River
 Arusha
 Tel: +255 27 2553682/3
 Fax: +255 27 2553708
 E-mail: salesinfo@hughesmotorstz.com

Leal Equipements Compagnie LTEE
 Tel: +230 2072100
 E-mail: djaufrret@lec.lealgroup.com

SMTP- Groupe
 LOT 01 A Ambohibao
 BP 11107
 Tel: +261 20 2244220

Malawi

Atlas Copco Zambia Ltd.
 Tel: +260 2 12311562/
 978 999175
 E-mail: daniel.banister@zm.atlascopco.com

Barloworld Equipment Malawi Ltd.
 Ali Hassan Mwinyi Road
 Chichiri
 Blantyre 3 Southern
 Tel: +265 1 870666
 Web: www.bec.co.za
 E-mail: amgwadira@barloworld-ma

Barloworld
 PO Box 30643
 Blantyre, 3
 Tel: +265 1 870666
 Web: www.bec.co.za
 E-mail: amgwadira@barloworld-ma

ETC Agro Tractors and Implements Ltd.
 PO Box 2540, Area 5
 Opp. Maua Prison
 Lilongwe
 Tel: +265 99302984
 E-mail: cm.malawi@etcagro.com

Farming & Engineering Services

PO Box 918
 Kaohsuing Road
 Top Mandala
 Blantyre
 Tel: +265 187 9111/070/077
 Fax: +265 187 9088

HISCO House
 Mausuko Chipembere
 Highway
 Kristwick
 Blantyre
 Tel: +265 1 871720/820
 E-mail: mahesh@hiscohouse.com

Mali

Atlas Copco Senegal SARL
 Tel: +221 338 698770/
 773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Dupe SA
 BP 680, Bamako
 Tel: +223 2 215230
 Fax: +223 2 218301
 E-mail: dupesa@ikaso.net

Heavymat Industry
 BP 1409
 Zone Portuaire
 Lome
 Tel: +228 22 712278
 Web: www.heavymat-industry.com
 E-mail: deborah.togo@heavymat-industry.com

Manutention Africaine
 Zone Industrielle Sotuba
 Rue 957
 Porte 260 Commune II
 Bamako Capital Dist
 Tel: +223 2212549
 Web: www.manutafmali.com
 E-mail: info@manutafmali.com

Mauritania

Atlas Copco Senegal SARL
 Tel: +221 338 698770/
 773 337384
 E-mail: ibrahima.ndao@sn.atlascopco.com

Bia Equipments & Service Mauritanie SARL
 Ilôt B 151 Nord
 Tevragh Zeina
 Nouakchott
 Tel: +222 45 252394
 Web: www.biaoverseas.com
 E-mail: pierre.boutry@biaoverseas.com

Mauritanie SARL (Importateur MAN Truck & Bus AG)
 BP 4679
 Nouakchott
 Tel: +222 45 253018
 Fax: +222 45 253028
 E-mail: f.heible@convena-mauritanie.com

Societe Mauritanienne Des Tracteurs SARL
 ILOT 12 Las Palmas
 Nouakchott
 Tel: +222 5259501
 Web: www.mauritrac.com
 E-mail: info@mauritrac.com

Sodeq SA
 BP 40250
 Nouakchott
 Tel: +222 5 254730
 Fax: +222 5 250632
 E-mail: sodeq.sa@gmail.com

Mauritius

Atlas Copco Tanzania Ltd.
 Tel: +255 787 740021
 E-mail: jessie.kamau@tz.atlascopco.com

AUTODIFFUSION (GROUP SODIAT)
Entreponto Comercial De Mocambique SARL (Mauritius - Case Construction)

Av. Do Zimbabwe no. 614
 Matola
 Tel: +258 21 901201
 Web: http://www.
 E-mail: paulo.ferreira@entroposto.co.mz

Equipment Provider Solution Co. Ltd. (EPSCO)
 Motorway M1
 Pailles
 Tel: +230 207 2100
 Web: www.lec.mu
 E-mail: grlagesse@lec.lealgroup.com

Hughes Motors (Tanzania) Ltd.
 PO Box 711
 Usa River
 Arusha
 Tel: +255 27 2553682/3
 Fax: +255 27 2553708
 E-mail: salesinfo@hughesmotorstz.com

Ireland Blyth Ltd.
 BP 662 Bell Village
 Pailles Port Louis
 Tel: +230 2060444
 Web: www.scomat.com
 E-mail: scomat@scomat.com

LEAL Equipements Compagnie LTEE
 Motorway 1
 Pailles
 Tel: +230 2072470
 Fax: +230 2072437

**Leal Equipements
Compagnie LTEE**
Motorway M 1 Paillles
Tel: +230 2072100
Fax: +230 2072100
E-mail: djauffret@leclagroup.com

**Mechanisation Co. Ltd.
(M.E.C.O.M)**
3rd Floor Mecom Building
Royal Road
Grand River North West
Tel: +230 2084873
Fax: +230 2084876

**Mecom Mechanisation Co.
Ltd.**
3rd Floor Mecom Bldg
Grand River
North West
Port Louis
Tel: +230 208 4873/549 91415

Talbot Engineering
Albion Docks
Port Louis
Tel: +230 2174100
Fax: +230 2415067
E-mail: info@talboholding.com

**Tractrafric Equipment
International**
9th Floor Raffles Tower 19
Cybercity Ebene Pw
Tel: +33 1 49064400

Morocco

Atlas Copco Maroc SA
Tel: +212 522 600522
E-mail: mounir.laaribi@ma.atlascopco.com

Berenger Maroc
Route D'El Jadida
KM 14 RN 1
Commune Ouled Azouz
BP 25593
Province De Nouaceur
Lissasfa
Casablanca
Tel: +212 5 22592101/02/03
Fax: +212 5 22592107/08
Web: www.groupe-premium.com
E-mail: oussama.lahla@premium.net.ma

Doka Maroc SARL-AU
La Commune Rurale
Sebbah
BP 4439
Sikhrit
12050
Tel: +212 53 8004097
Fax: +212 53 8004089
Web: www.doka.com
E-mail: maroc@doka.com

El Midakhat Rotaxe
64 Angle Rue Bachir Al
Ibrahimi ET Hammam El Ang
Casablanca
20500
Tel: +220 306970/440111/12
E-mail: rotaxe@marocnet.net.ma
rotaxe@wanadoo.net.ma

ETS L Berenger
Parc Industriel
Lot No. 55
Casablanca
Tel: +212 522 592101
Fax: +212 522 592107
E-mail: berenger@berenger.com

FENIE BROSSETTE

Fenie Brossette
284, boulevard Zerkouni
Casablanca
Tel: +212 5 29022869
Fax: +212 5 22490227
Web: www.feniebrossette.ma
E-mail: fenie@fenie-brossette.ma

HIB Agricole SA
18 BD Mohamed V
Kenitra
E-mail: hibagri@menara.ma

Maroc Trading AA
119, Bd de Bourgogne
Tel: +212 522 235790
Fax: +212 522 235797
Web: www.marotrading.ma
E-mail: contact@marotrading.ma

SBMH
103 Zi Bir Rami
Kenitra
Tel: +212 6 61161275
E-mail: b.boudali@sbmh.com

**SMDM - Societe Marocaine
de Distribution Materiel**
Av. Hassan II, Mohammedia
Tel: +212 523 318800/05
Fax: +212 523 326396
E-mail: contact@smdm.ma

Soberma
Chemin Ain-Borja-Beau Site
Ain-Sebaa, Casablanca
Tel: +212 5 22666640/41022
Fax: +212 5 22666645
E-mail: soberma@soberma.ma

Soberma Groupe Auto Hall
Tel: +212 52 2789866

**Societe de Realisations
Mecaniques**
Route d'el Jadida
Km 14, RP 1
Casablanca, 20300
Tel: +212 522 633700
Fax: +212 522 636839
E-mail: mohammed.derouich@premium.net.ma

Sonacom
14 Bd Ba Hmad
MA-Casablanca
Tel: +212 52 2249700
Fax: +212 52 2245776
E-mail: sonacom1@menara.ma

Stokvis Nord-Afrique S. A.
Lot 17 11 - Zone Industrielle
Ouled Salah Bouskoura
BP 2183, Casablanca
Tel: +212 22 654600
Fax: +212 22 334573/320452
Web: www.stokvis.ma
E-mail: contact@stokvis-maroc.com

Tractrafric Equipment Maroc
Route Desserte des Usines
KM 11 6 Autoroute Casa-Rabat
Ain Sebaa Grd, Casablanca
20250
Tel: +212 2 2763000
E-mail: tamcasa@magrebnets.net.ma

Volvo Maroc SA
Km 13, 6 Autoroute
Casa-Rabat
Ain Hamouda
Casablanca, Maroc
20600
Tel: +212 522 764800
Fax: +212 522 764888
E-mail: vcmaroc@volvo.com

Mozambique

**Atlas Copco South Africa
(Pty) Ltd. Construction
Technique**
Tel: +27 11 8219000/83 6312429
E-mail: david.stanford@za.atlascopco.com

Babcock International
Tel: +258 21 321824/25
E-mail: anil.sumaraj@babcock.co.za

Barloworld
Parcela 728C Av Da Namaacha
11.144 Esquero Estrada N2
Matola Maputo
1114
Tel: +258 21 720343

**Doka Mozambique Lda.
ledby South Africa (Pty)**
Rua dos Elefantes
Talhao "B" Parcela 730
Cidade da Matola
Maputo
Tel: +258 84 8313456
Fax: +27 11 3109711
Web: www.doka.com
E-mail: mocambique@doka.com

**Entreponto Comercial De
Mozambique SARL**
Av. Do Zimbabwe no. 614
Matola, 2106
Tel: +258 21 901201
E-mail: paulo.ferreira@entreponto.co.mz

Sotema Lda.
Av De Mozambique
N 4524/4438
Maputo
Tel: +258 21 470398
Fax: +258 21 471017
E-mail: sotema@sotema.co.mz

Trak-Auto LDA
Rua Paulino Santos Gil
56
Caixa Postal 4076
Maputo
Tel: +258 84 3981084
Fax: +258 84 9702739

Namibia

Aggreko
Tel: +264 64 227451
Web: www.africa.aggreko.com

**Atlas Copco South Africa
(Pty) Ltd. Construction
Technique**

Tel: +27 11 8219000/
83 6312429
E-mail: david.stanford@za.atlascopco.com

**Barloworld Namibia (Pty)
Ltd.**

166 Mandume Ndemufayo Rd
Southern Industrial Area
Windhoek
Tel: +264 61 2804600

Carmix Namibia Hire & Sales

PO Box 9305
C/o Harvey & Hosea Kutako
Drive, Windhoek Noord
Windhoek, 9000
Tel: +264 81 1401198

Komatsu Namibia (Pty) Ltd.

PO Box 5094
43 Nordland Street
Windhoek, 9000
Tel: +264 61 261281/2/3
Fax: +264 61 216530

REX QUIP

Niger

Atlas Copco Senegal SARL
Tel: +221 338 698770/
773 337384
E-mail: ibrahima.ndao@sn.atlascopco.com

**Bia Equipments & Services
Niamey**
675 Rue IB-42
BP 559
Yantala
Tel: +227 23 900379
Web: www.biaoverseas.com
E-mail: esn@bia.ne

Heavymat Industry
BP 1409
Zone Portuaire
Lome
Tel: +228 22 712278
Web: www.heavymat-industry.com
E-mail: deborah.togo@heavymat-industry.com

Manutention Africaine
2 Avenue
De la Chambre de Commerce
Niamey
Tel: +227 733610
Web: www.manutafniger.com
E-mail: info@manutafniger.com

Sapex SA
BP 11584, Niamey
Tel: +227 90905858
E-mail: olivier.merenne@sapex.com

Nigeria

A1 Multi Services Ltd.
PO Box 80277
32 Olorunfunmi Street
Lafiaji Lagos
101223

Tel: +234 8037 123006
Fax: +234 1345 0588
Web: www.a1ip.com
E-mail: ip@a1ip.com

Aggreko
Tel: +234 1 4041009
Web: www.africa.aggreko.com

ATC Nigeria

Ikorodu Road, 322A
Tel: +234 705
4627174/6287902
Web: www.atcnigeria.com
E-mail: info@atcnigeria.com

Atlas Copco Nigeria Ltd.
Tel: +234 70 68621253/
817 7183400
E-mail: stanley.musau@ng.atlascopco.com

Bhajoins PLC
29C Kofo Abayomi Street
Victoria Island
Lagos
Tel: +234 1 2618322
E-mail: pra123@yahoo.com

Cummins West Africa Ltd.
Tel: +234 1 2272880

Doka GmbH Nigeria
Doka Formwork Nigeria Ltd.
Block 101
Plot 21
Lagos
Tel: +234 806 4840408
Web: www.doka.com
E-mail: nigeria@doka.com

Mantrac Nigeria Ltd. (Lagos)

2, Billingsway
(Off Secretariat Road)
Oregun Industrial Estate
PMB 21480
Ikeja - Lagos
Tel: +234 80 23201013
Web:
www.mantracnigeria.com
E-mail: anwoko@mantracnigeria.com

Eleven Thirteen Ventures (Jungheinrich)

Moleye Street 17
Off Herbert Macaulay Street
By Alagomeji Junction
Yaba
Lagos
Tel: +234 803 3098902
Web: www.eleven-thirteen.net
E-mail: info@eleven-thirteen.net

Finlay Nigeria Ltd.
Block C Unit 3
5 Oro Ago Street
Gakari 2
Abuja FCT
Tel: +234 805 3530011
Web: www.finlaynigeria.com
E-mail:
ibrahim@finlaynigeria.com

HDM Nigeria
Plot B93/B94
Dawaki District
Along Kubwa Expressway
Abuja
Tel: +234 81 8502222
Web: www.hdm-nigeria.cm
E-mail: info@hdm-nigeria.com

Hol-Taj
9B Rev.Ogunbiyi Street
Ikeja
Lagos
Tel: +234 803 8343631

**Jubaili Bros (Engineering)
Ltd.**
Jubaili Buiding, Plot 2
Ikosi Road
Oregun
Ikeja, Lagos State
Tel: +234 81 40111111
Fax: +234 1 4977784/5
Web: www.JubailiBros.com
E-mail: jb.ikeja@jubailibros.com

Mantrac Nigeria Ltd.
2 Billingsway
Off Secretariat Road
Oregun Industrial Estate
Ikeja
Lagos PMB 21480
Tel: +234 80 23201013
Web: www.mantracnigeria.com
E-mail: anwoko@mantracnigeria.com

Mantrac Nigeria Ltd.
Km 20 Kaduna North Road
Kaduna, 800001
Tel: +234 62 889168
Web:
www.mantracnigeria.com
E-mail: info@mantracnigeria.com

Mantrac Nigeria Ltd.
41/43 Tafawa Balewa Road
Kano Kn, 700001
Tel: +234 64 927345
Web:
www.mantracnigeria.com
E-mail: info@mantracnigeria.com

Mantrac Nigeria Ltd. (Lagos)
2, Billingsway
(Off Secretariat Road)
Oregun Industrial Estate
PMB 21480
Ikeja - Lagos
Tel: +234 80 23201013
Web:
www.mantracnigeria.com
E-mail: anwoko@mantracnigeria.com

**Mantrac Nigeria Ltd. (Lagos)
[Nigeria - Cat Lift]**
PMB 21480, 2, Billingsway
Oregun Industrial Estate
Oreg
Ikeja, Lagos
Tel: +234 1 2716300
Fax: +234 1 2716300/Ext 50196
Web:
www.mantracnigeria.com
E-mail:
info@mantracnigeria.com

Mantrac Nigeria Ltd.
30 Onitsha Road
Trans-Amadi Industrial Layout
Port Harcourt Ri, 500001
Tel: +234 84 238853
Web:
www.mantracnigeria.com
E-mail: info@
mantracnigeria.com

Marine And Land Logistics Limited
12D Osborne Road Ikoyi
Lagos
Tel: +234 13205028
E-mail: info@
marineandland.com

Mining & Construction Equipment Ltd.
5th Floor Mulliner Towers
39 Alfred Rewane Road
(formerly Kingsway Road)
Ikoyi, Lagos
Tel: +234 80 66940111
Fax: +234 1 264578
Web: www.mcequipment.info
E-mail: ceo@
mcequipment.info

Panafrican Equipment (Nigeria) Ltd.
31 Vono Road
Off Agege Motor Road
Mushin / Ilupeju, Lagos
Tel: +234 1 9034511
Web:
www.panafriangroup.com
E-mail: info.ng@
panafriangroup.com

Panafrican Equipment (Nigeria) Ltd. (PANAFRICAN)
31 Vono Road
Off Agege Motor Road
Mushin / Ilupeju, Lagos
Tel: +234 1 9034508
Web:
www.panafriangroup.com
E-mail: info.ng@
panafriangroup.com

Roots Equipment and Material Ltd. (Nigeria - Case Construction)
Plot 796 IDU, Industrial Area
FCT, Abuja
Tel: +234 70 6778264
Fax: +234 818403
E-mail: asalhani@arabian-roots.com

Scoa Nigeria
157 Apapa Oshodi
Isolo Industrial Area
Isolo, Lagos
Tel: +234 1 4521774
Fax: +234 1 4521803
Web: www.scoapl.com
E-mail: scoatracscoapl.com

SCOA Trac
PO Box 21108
157, Isolo-Oshodi Expressway
Isolo Industrial Estate
Ikeja, Lagos
Tel: +234 803 4027262
E-mail: scoatracscoapl.com

SCO TRACK

Seagle International Ltd.
6/8 Obagun Avenue
Matori Industrial Estate
Off Fatai Atere Way
Mushin Lagos
Tel: +234 1 7755020/
803 5713572
Fax: +27 86 6929282
E-mail: info@seagletools.com
seagleint@yahoo.com

SMT

Tel: +234 802 3747678
E-mail: info@smt-nigeria.com

Stag Engineering Ltd.
Plot 5, Benson Anoruf Street
Oshodi, Victoria Island
Tel: +234 1 4522917
Fax: +234 1 4523391
E-mail: info@
stagengineering.com

Reunion

Entreposto Comercial De Mocambique SARL (La Reunion - Case Construction)

Av. Do Zimbabwe No. 614
Matola
Tel: +258 21 901201
E-mail: paulo.ferreira@
entrepoto.co.mz

Hughes Motors (Tanzania) Ltd.

PO Box 711
Usa River, Arusha
Tel: +255 27 2553682/3
Fax: +255 27 2553708
E-mail: salesinfo@
hughesmotorstz.com

Societe Commerciale Industrielle de Materiels

3 Rue Charles Darwin
Zac 2000, Le Port
97420

Societe Dexploitation Mascareignes Materiel (SE2M) SA

28 Rue Mahatma Gandhi
Tel: +262 550440
Fax: +262 550433
E-mail: bossalini.didier@
wanadoo.fr

Rwanda

Atlas Copco Tanzania Ltd.

Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

I Engineering Rwanda Ltd.

PO Box 6295, Nyarutarama
Kigali

Tel: +250 788384446
E-mail: cjimenez@
ieng-group.com

SMT

Tel: +32 10 476124
E-mail: info@smt-europe.eu

Tractrafric Equipment Rwanda

District Kicukiro
Kigali Ville De
Tel: +33 1 49064400

Senegal

2S BTP
406 B, BP 7250, Sicap Mbao
Dakar
Tel: +221 775692927
Web: www.doka.com
E-mail: bgsakho@gmail.com

ADC Africa Distribution Co. b.v

Central Park Office - L306
Avenue Malick
Sy Pour l'Autoroute
Dakar
Tel: +221 78 1653396
E-mail: d.mertens@af-co.com

AFCO

Atlas Copco Senegal SARL

Tel: +221 338 698770/
773 337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Bernabe Senegal

Tel: +221 33 8490101
E-mail: ali.arzouni@
bernabeafrigue.com

Bia Dakar

Km 18.5 Route de Rufisque
Zone Franche de Mbao
Tel: +221 33 8790030
Fax: +221 33 853238
Web: www.biaoverseas.com
E-mail: esdak@bia.sn

Mat Force (CRE Technology)

Belair Route de, Hydrocarbures
Dahar, BP 397
Tel: +221 33864 49500
Fax: +221 3386 73736
Web: www.matforce.sn

Pramac Lifter Afrique Trading SARL

Route de l'Aéroport
VDN
BP 8959
Tel: +221 33 8693121
Fax: +221 33 8208598
Web: www.pramac.com
E-mail: info@pramac.com

Premium Senegal

KM-7, BD DU
Centenaire
BP 21742
Ponty
Tel: +221 33 8322291
Fax: +221 33 8322319
Web: www.groupe-premium.com
E-mail: christophe.muller@
premium.net.ma

Societe Auxiliaire (Senegal) D Equipements (Saudequip)

Km 5 Boulevard Du Centenaire
De La Commune De Dakar
Tel: +221 33 8320683
Web: www.saudequip.com
E-mail: info@saudequip.com

Seychelles

Adesho Marine
Latinier Road, Victoria
Mahe
Tel: +248 224216
Fax: +248 224216
E-mail: adesho@seychelles.sc

SMT

Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

Atlas Copco Tanzania Ltd.

Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

Leal Equipements Compagnie LTEE

Tel: +230 2072100
E-mail: djauffret@
lec.lealgroup.com

Sierra Leone

A. Yazbeck & Sons Ltd.
Tel: +232 77 303042
E-mail: joe@
ayazbeckandsons.com

A. Yazbeck & Sons Ltd. (Volvo Penta)

32 Wilkinson Road
Tel: +232 22 232324

Atlas Copco Senegal SARL

Tel: +221 338 698770/
773 337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Esscon Services Ltd.

26, Steward Street, Freetown
Tel: +232 76 613907
E-mail: esscon_sl@yahoo.co.uk

Mantrac Sierra Leone Ltd. (Freetown)

PO Box 127
6-8 Blackhall Road
Freetown
Tel: +232 30 250010
Web: www.mantrac-sl.com
E-mail: ybockarie@mantrac-sl.com

Mantrac Sierra Leone Ltd. (Freetown) [Sierra Leone - CAT Lift]

PO Box 127
6-8 Blackhall Road
Tel: +232 22 223317
Web:
www.mantracsierreleone.com
E-mail: info@
mantracsierreleone.com

Mantrac Sierra Leone Ltd.

PO Box 127
6-8 Blackhall Road
Freetown Western
Tel: +232 22 223317
Web:
www.mantracsierreleone.com
E-mail: info@
mantracsierreleone.com

Panafrican Equipment (Sierra Leone) Ltd.

C/o Ellen Chambers
Barrister & Solicitor
1st Floor, 16 Adelaide Street
Freetown
Tel: +233 302 215840
Web:
www.panafriangroup.com
E-mail: info.sl@
panafriangroup.com

Panafrican Equipment (SL) Ltd. (PANAFRICAN)

No. 16, NME LANE
Airport Residential Area
Accra
Tel: +233 30 2215840
Web:
www.panafriangroup.com
E-mail: info.sl@
panafriangroup.com

Somalia

Atlas Copco Tanzania Ltd.
Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

South Africa

3D Laser Mapping

Unit 2
Oxford Office Park
3 Bauhinia Street
Highveld Techno Park
Centurion, 0046
Tel: +27 12 9400515
Fax: +27 12 9400517
Aggreko
Johannesburg
Tel: +27 11 3578900
Web: www.africa.aggreko.com

Atlas Copco South Africa (Pty) Ltd. Construction Technique

Tel: +27 11 8219000/83
631249
E-mail: david.stanford@
za.atlascopco.com

Babcock International

19 Taljaard Rd
Bartlett, Gauteng
Tel: +27 11 2307300
E-mail: enquiries@
babcock.co.za

Barloworld Equipment

PO Box 781291, Sandton
2146
Tel: +27 11 3014000
Web: www.barloworld-equipment.com

Barloworld Equipment

CNR Quinn & Villiers Streets
Kimberley
8300
Tel: +27 53 8329300
Web: www.barloworld-equipment.com

BAUER Technologies South Africa

17 Thornhill Office Park
92 Bekker Road
Midrand
1686

Tel: +27 11 8053307
Fax: +27 11 8053313
Web: www.bauersa.co.za

Bell Equipment Co. SA (Pty) Ltd

Private Bag X20046
Empangeni
3880

Tel: +27 35 9079431
Web: www.bellequipment.com
E-mail: stephenj@bell.co.za

BME Packaging cc

Angus Crescent 6
Longmeadow Business Estate
Eas Edenvale
1609
Tel: +27 11 8073069
Fax: +27 11 8073957
Web: www.bmegroup.co.za

CSE Cape Town

57A Aviation Crescent
Airport City
Bellville
7535
Tel: +27 21 3802600
Fax: +27 21 3802630
E-mail: des@cse.co.za

CSE George

Erf 14978, Building 1
Section 3, Blanco, George
6531
Tel: +27 44 8781606
Fax: +27 44 8781619
E-mail: johnhd@cse.co.za

CSE Isando

14 Industry Road
Kempton Park
Isando, 1600
Tel: +27 11 9222000
Fax: +27 11 9222108
E-mail: brentonk@cse.co.za

CSE Pinetown

14 Otto Volek Rd
New Germany, Pinetown
3600
Tel: +27 31 7053390
Fax: +27 31 7053399
E-mail: ursula@cse.co.za

CSE Port Elizabeth
134 Paterson St
North End, PE
Sidwell
6062
Tel: +27 41 4846240
Fax: +27 41 4841836
E-mail: johans@cse.co.za

CTC Plant Company Pty Ltd.
Corner of Michigan and Manchester Road ARPT Industria Cape Town
Tel: +27 21 3862190
Web: www.ctcplant.co.za

Cummins South Africa
Tel: +27 11 3218700

Doka South Africa (Pty)
PO Box 8337, Halfway House Midrand, Johannesburg 1685
Tel: +27 11 3109709
Fax: +27 11 3109711
Web: www.doka.co.za
E-mail: south-africa@doka.com

Eazi Sales & Service
Unit 3, No 2 Swart Drive President Park, Midrand Johannesburg 1685
Tel: +27 86 1005540
Fax: +27 11 3127381
Web: www.eazisals.co.za
E-mail: sales@eazi.co.za

Engineering Marine Services
Dom Pedro Jetty
Port Elizabeth
Tel: +27 41 5823769
Fax: +27 41 5822705
E-mail: peter@engmarine.com

Eqstra Construction and Mining Equipment
1619 PO Box 1050
61 Maple Street
Pomona, Kempton Park Bedfordview
2008
Tel: +27 11 9662000

Hatz Diesel SA (Pty) Ltd.
9 Jersey Drive
Longmeadow East Business Estate Edenvale
Tel: +27 11 5740900
Fax: +27 11 5740939
Web: www.hatz.co.za
E-mail: info@hatz.co.za

IQ Oil Filtration (SA - CJC)
Pero Road
Jupiter Extension 3
Germiston
Tel: +27 11 8250230/1/2/3
Fax: +27 11 8256225
Web: www.cjc.dk
E-mail: info@iqoil.co.za

Keestrack SA
PO Box 5094
Unit 78 The Kanyincnr Nalin and Leeukop Roads Rivonia, 2128
Tel: +27 73 7606962
Web: www.keestrack.com
E-mail: sales.africa@keestrack.net

Kirloskar Engines South Africa (Pty) Ltd.
PO Box 35168
Los Angeles Road
Johannesburg
Tel: +27 11 4933330
Fax: +27 11 4933336
E-mail: dieselelec@icon.co.za

Kirsons Trading SA (Pty) Ltd.
Unit B1The Stables Business Cnr. Of 3rd Road & 2nd Avenue Linbro Park Modderfontein PO Box 652492 Johannesburg 2065
Tel: +27 11 5536900
Fax: +27 11 6664745
E-mail: kirson@kirloskar.co.za

Komatsu Southern Africa (Pty) Ltd.
PO Box 196 Corner Diesel & Isando Roads Isando, Gauteng, Isando 1600 Republic of South Africa
Tel: +27 11 9231000
Fax: +27 11 9231111
E-mail: info@komatsu.co.za

Labotec (Pty) Ltd.
Labotec Park, 21 Bavaria Ave Randjespark, Midrand 1685
Tel: +27 11 3155434
Fax: +27 11 3155882/7/9
Web: www.labotec.co.za
E-mail: lyleh@labotec.co.za

Lafarge Gypsum (Pty) Ltd.
PO Box 167025 Brackendowns 1454 Johannesburg
Tel: +27 11 3894500
Fax: +27 11 8646816
Web: www.lafarge.co.za

Lafarge Industries South Africa (Pty) Ltd.
35 Westfield Road Longmeadow Business Estate, Ex, Edenvale 1609
Tel: +27 11 6571000
Web: www.lafarge.co.za

Magnum Marine
34 Leeds Crescent, Pinetown Tel: +27 31 7023191
Fax: +27 31 7010094
E-mail: jburndbn@global.co.za

Marelli Electrical Machines South Africa (Pty) Ltd.
Unit 4, 55 Activia Road Activia Park Elandsfontein Gauteng, 1406
Tel: +27 11 8225566
Fax: +27 11 8288089
Web: www.marellimotori.com
E-mail: southafrica@marellimotori.com

Mfangano Solutions
No 19 Sixth Street Wynberg Johannesburg, 2090
Tel: +27 11 4402072
Web: www.mfangano.co.za
E-mail: james@mfangano.co.za

MTU South Africa (Pty) Ltd.
38 Loper Avenue Kempton Park Johannesburg 1619
Tel: +27 11 5704900
Web: www.mtu-online.co.za
E-mail: info@mtu-online.co.za

NEW HOLLAND REPRESENTATIVE OFFICE

Northern Marine SA
18 Rist Avenue Havenside Durban
Tel: +27 31 4051289
Fax: +27 31 4004265
E-mail: candyshop@telkomrsa.net

Pan Mixer SA (Pty) Ltd.
Graniet St. Jet Park
Tel: +27 13 973754
Fax: +27 13 974721
Web: www.pannmixers.co.za
E-mail: sales@panmixers.co.za

Power 02
30-38, Jacoba Street Alberton North, 1779
Tel: +27 10 2162699
E-mail: paulb@power02.co.za

Readymix Consultant Services
15 Nova Avenue Morehill Glen Morehill, Benoni
Tel: +27 810 255022
Fax: +27 11 4255284
Web: www.kti-pliersch.com
E-mail: ice@kti-pliersch.com

Rossi Southern Africa
2 Umlazi Close Trade Zone Dube Tradeport King Shaka International Airport La Mercy 4405
Tel: +27 32 8150380
Fax: +27 32 8150389
Web: www.rossi-group.co.za
E-mail: info.southafrica@rossi-group.com

Russell Chard Marine
21 Rupee RIF, CBD, Natal
Tel: +27 35 7897088
Fax: +27 35 7893230
E-mail: russell@hireanything.co.za
SDMO Johannesburg
PO Box 5201 40 Rawbone Street Ophirton 2091 Weltevredenpark 1715
Tel: +33 6 31594701 Web: www.sdmo.com

Southern Marine Workshop
3 Carlisle Street Cape Town
Tel: +27 21 5102420
Fax: +27 21 5102467
E-mail: clive@southernmarine.co.za

Southern Power Products (Pty) Ltd.

PO Box 48, Cape Town
Tel: +27 21 5110653
Fax: +27 21 5103049
E-mail: noel@southernpower.co.za

SPP Pumps Ltd.
Sterling Fluid Systems (SA) (P
39 Forge Road, Spartan Johannesburg 1625
Tel: +27 11 3943922
Fax: +27 11 9702472

TCS RUD (Pty) Ltd.
PO Box 590, Fochville 2515
Web: www.tcs-rud.com
E-mail: tcsrud@lantic.net

TOMA Equipment
198 High Road Bredell Johannesburg
Tel: +27 79 5069999/83 4485658
Fax: +27 86 6929282
E-mail: tony.scott@toma.co.za

TVH Parts South Africa

PO Box 886 Isando Johannesburg, 1600
Tel: +27 11 3923557
Fax: +27 11 3923599
Web: www.tvh.com
E-mail: warren.farland@tvh.com

UkuZwana
73 Stock Road Beautiful Gate Security Complex Philippi East Cape Town, 7755
Tel: +27 21 7975905
Fax: +27 21 7622203
Web: www.ukuzwana.com

Volvo Southern Africa Pty Ltd
CNR Jetpark Road, Gauteng
Tel: +27 11 8425034/8425033
Fax: +27 11 8739845
E-mail: jonks.roedolf@volvo.com

Wirtgen South Africa (Pty) Ltd.
PO Box 8820 Cnr Simba & Buwbes Streets Edenglen 1613
Tel: +27 11 4521838
Fax: +27 11 4524886
Web: www.wirtgen.co.za
E-mail: heinrichs@wirtgen.co.za

South Sudan

Ezentus FZE Co. Ltd.
Plot 1 Industrial Juba North Terekaka Rd, Juba Sudan
Tel: +211 920001818/912344450
Web: www.ezentus.com
E-mail: eltayeb.osman@ezentus.com

Sudan

Al Barajoub Engineering Co. Ltd.
PO Box 11961 Khartoum
Tel: +249 183 778413
Fax: +249 183 778334
Web: www.albarajoub.com
E-mail: info@albarajoub.com

Al Barajoub Engineering Co. Ltd.
PO Box 11961, Khartoum
Tel: +249 183 778413
Fax: +249 183 778334
Web: www.albarajoub.com
E-mail: info@albarajoub.com

CTC Group
PO Box 980
CTC Group Building Zubeir Pasha Street Kartoum 1111
Tel: +249 187 144132
Fax: +249 183 787638
E-mail: yahya.gasim@ctcgroup ltd.com

The Central Trading Co. Ltd.
PO Box 980
Zubeir Pasha Street
Khartoum

Tel: +249 18 3772671
Fax: +249 18 3772671
E-mail: info@ctcgroup ltd.com

Swaziland

Atlas Motors
PO Box 622, Stores Road Industrial Sites, Mbabane
Tel: +268 404 3001
Fax: +268 404 1190
Barloworld Equipment Swaziland (Pty) Ltd.
PO Box 120, Manzini, 200 Tel: +268 5187049

Tanzania

ACHELIS
Aggreko
Tel: +255 222 773521
Web: www.africa.aggreko.com
Atlas Copco Tanzania Ltd.
Tel: +255 787 740021
E-mail: Jessie.kamau@tz.atlascopco.com
Auto Sueco Tanzania
Plot 114, Nyerere Road PO Box 9303, Dar Es Salaam Tel: +255 222 866 333
E-mail: rui.pires@autosueco.co.tz
ETC Agro Tractors and Implements Ltd.
PO Box 63228 Light Industrial Area, Coca Cola Road Micochemi-B Industrial Area Mwenge, Dar es Salaam Tel: +255 684222484 E-mail: cm.tanzania@etcagro.com
Hughes Motors (Tanzania) Ltd.
PO Box 711 Usa River, Arusha Tel: +255 27 2553682/3 Fax: +255 27 2553708 E-mail: salesinfo@hughesmotorstz.com

Incar Tanzania Ltd.

PO Box 20479, Dar Es Salaam Tel: +255 22 2861668/78 4388969 E-mail: gm@incartz.com

Mantrac SAE
Plot No 60 & 61 Nyakato Road Mwanza Tel: +255 28 2572205 Web: www.mantrac tanzania.com E-mail: info@mantrac tanzania.com

Mantrac SAE

Plot 4A Nyerere Road Dar Es Salaam Tel: +255 22 2860161/2 Web: www.mantrac tanzania.com E-mail: info@mantrac tanzania.com

Mantrac SAE

Gofu Area Plot #11 Bolton Tanga Tel: +255 27 2642987 Web: www.mantrac tanzania.com E-mail: info@mantrac tanzania.com

Mantrac SAE

Boma Rd Plot #5 Moshi Kilimanjaro Tel: +255 27 2751711 Web: www.mantrac tanzania.com E-mail: info@mantrac tanzania.com

YOUR WORLD, OUR CHALLENGE

We design, manufacture and install superior grade processing plants for quarry, mining and construction industry

With our specialized structural steel fabrication to European standards, we design, manufacture and install conveyors and conveyors systems, of any width and load capacity to handle bulk materials

We can provide you ...

- > MINERAL PROCESSING PLANTS
- > BULK HANDLING SYSTEMS
- > ENVIRONMENTAL TECHNOLOGIES



www.quarrymining.net

QUARRY MINING LLC
P O BOX 9593, Ras Al Khaimah,
United Arab Emirates
Tel. +971 7 2689799
Fax. +971 7 2689499
Email. info@quarrymining.net



 **quarry
mining**
your world, our challenge

Mantrac SAE

Centuary Plaza Plot No 2A
Block O Mafiat Mwanjelwa
Mbeya
Tel: +255 28 2500992
Web: www.mantractanzania.com
E-mail: info@
mantractanzania.com

Mantrac Tanzania Ltd. (Dar Es Salaam)

PO Box 9262
Plot No. 4A
Nyerere Road
Dar Es Salaam
Tel: +255 784 469999
Web: www.mantractanzania.com
E-mail: gmalya@
mantractanzania.com

Mantrac Tanzania Ltd. (Dar Es Salaam) [Tanzania - Cat Lift]

PO Box 9262
Nyerere Road
Plot no 4A
Dar es Salaam
Tel: +255 22 2860161/2
Fax: +255 22 2864284
Web:
www.mantractanzania.com
E-mail: info@
mantractanzania.com

MBEYA

PO Box 46452
Oyster Plaza
3rd Floor
Plot 1196 Haile Selassie Road
Dar Es Salaam
Web: www.lafarge.com

Mining Agricultural Construction Services (MACS)

PO Box 40624
3 Mbezi Industrial Area
Dar es Salaam
E-mail: abdulla@macs.co.tz

Panafrican Equipment (T) Ltd (PANAFRICAN)

PO Box 40575
Dar es salaam
E-mail:
info.tz@panafricangroup.com

Panafrican Equipment (Tanzania) Ltd.

PO Box 40575
Dar es Salaam
Tel: +255 22 2864636/34/33/
5512000/
Fax: +255 779 888 240
Web:
www.panafricangroup.com
E-mail: info.tz@
panafricangroup.com

Ports & Rail Equipment (T) Ltd.

Aggrey Street 140
Ismailia Building
Dar es Salaam
Tel: +255 22 2115004
Fax: +255 22 2112370
Web: www.jungheinrich.com

Togo

ADTF SARL

128BD Jean Paul 2°
BP 30720
Lomo
Tel: +228 325 6005
E-mail: dsitou@caramail.com

Atlas Copco Senegal SARL

Tel: +221 338 698770/773
337384
E-mail: ibrahima.ndao@
sn.atlascopco.com

Heavymat Industry

BP 1409
Zone Portuaire
Lome
Tel: +228 22 712278
Web: www.heavymat-industry.com
E-mail: deborah.togo@
heavymat-industry.com

SDMO Lome

Ensemble Immobilier RAMC
7 boulevard du 24 janvier
Quartier Assivito
Lome
Tel: +228 92437933

SMT Benin

Tel: +228 99 999215
Togo Equipment
Boite Postal 13300
Lome Maritime
Tel: +228 2270312
Web:
www.togoequipements.com
E-mail: info@
togoequipements.com

Tunisia

Bateaumed

De L Energie, Tunis
8610
Tel: +216 71 840807
Fax: +216 71 848536
E-mail: bateaumed@planet.tn

Le Materiel SA

45 Rue Ibn Khaldoun
Tel: +216 79 408484
Fax: +216 79 408483
Web: www.lemateriel.com.tn

LE MOTEUR DIESEL

Nordic Machinery

Rue Fouchana
Lot 22
Zone Industrielle El-M'ghira I
Ben Arous
2082
Tel: +216 71 409260
Fax: +216 71 409270
E-mail: khaled.haddad@
nordic.tn

Parenin SA

Boite Postale 44
Cite Ezzouhour Tunis
2052
Tel: +216 71 592300
Web: [www\)parenin.com.tn](http://www)parenin.com.tn)
E-mail: parenin@
parenin.com.tn

Parenin SA (Tunisia - Cat Lift)

Route de Mornaguia KM 5.5
Sedjoumi 2052
Tunis
Tel: +216 93 656513
Fax: +216 71 591900
Web: [www\)parenin.com.tn](http://www)parenin.com.tn)
E-mail: karim.smati@
parenin.com.tn

S.I.A. Ben Djemaa & Cie

28 Rue de Turquie, Tunis
1001
Tel: +216 71 242566
Fax: +216 71 351215
E-mail: bendjemaa@topnet.tn

Sotradies

Rue 8611, ZI La Charguia
BP 54, Tunis, 1080

Tel: +216 71 771188

Fax: +216 71 798966

E-mail: sotradies@utic.com.tn

Sotudis

Tel: +216 71 384000

Uganda

ACHELIS

Atlas Copco Tanzania Ltd.
Tel: +255 787 740021
E-mail: jessie.kamau@
tz.atlascopco.com

Auto Sueco Ltd Kenya

Plot 59-65
6th Street
Industrial Area
Kampala
12080
Tel: +256 756 168261
E-mail: elvis.duran@auto-
sueco.co.ke

Dynaco Engineering and Civil Works Contractors

PO Box 37585
Najeera-Kiira Road
Wypars Courts Plot 5270
Kampala
Tel: +256 772630834
Web: www.doka.com
E-mail: jtugume@gmail.com

ENGSO (Engineering Solutions)

7 Spring Close
Off 5th Street Industrial Area
Kampala
Tel: +256 414 259216
Fax: +256 414 347208
Web: www.engsol.co.ug
E-mail: info@engsol.co.ug

ETC Agro Tractors and Implements Ltd. (Uganda)

Plot No. 1367
Block 236
Jinja Road
Opp. Shire Fuel Station
Kampala
Tel: +256 751237669
E-mail: sales.ug@etcagro.com

Jubaili Bros

Kampala
Tel: +256 779443360 /
776999920
Web: www.JubailiBros.com
E-mail:
jb.uganda@jubailibros.com

Mantrac Uganda Ltd. (Kampala)

PO Box 7126
Kampala
Tel: +256 772 498439
Web: www.mantracuganda.com
E-mail: fyiga@
mantracuganda.com

Mantrac Uganda Ltd. (Kampala) [Uganda - Cat Lift]

PO Box 7126
Plot 17/41
7th Street Industrial Area
Kampala
Tel: +256 414 304000
Fax: +256 414 235425
Web: www.mantracuganda.com
E-mail: info@
mantracuganda.com

Mantrac Uganda Ltd.

Plot 17/41
7th Street Industrial Area
Kampala Central
Tel: +256 41 4304000
Web:
www.mantracuganda.com

Victoria Equipment Ltd.

PO Box 620, Plot 2-4
Mulwana Road Industrial Area
Kampala
Tel: +256 41 256025
Fax: +256 41 256025
E-mail: vicequip@
infocom.com.ug

Yemen

Tehama Trading

PO Box 5370
Maalla Adan
Tel: +967 2 241736

Zambia

Atlas Copco Zambia Ltd.

Tel: +260 2 12311562/978 999175
E-mail: daniel.banister@
zm.atlascopco.com

Babcock International

Tel: +260 2 611693
E-mail: garth@babcock.co.zm

Barloworld Equipment Zambia Ltd.

PO Box 20810
Kitwe Copperbelt
10101
Tel: +260 2 2113111
E-mail: barkit@zamnet.zm

Delta Auto & Equipment Ltd.

F/609/E/56/A
Chamba Valley
Lusaka
Tel: +260 211 282583
E-mail: topmotors@yahoo.cn

Industrial Equipment Ltd

Plot 1312
Mulilakwenda Rd.
PO Box 20189
Kitwe
Tel: +260 21 212216014
Fax: +260 21 2217035
E-mail: iel@zamnet.zm

Komatsu Zambia (Pty) Ltd.

PO Box 11193
Plot 314/315
David Kaunda Road
Chingola, 10101
Tel: +260 212 310556/9
Fax: +260 212 310560

Lafarge Zambia

PO Box 32639
Farm No.1880
Kafue Rd
Chilanga, Lusaka
Tel: +260 211 367400
Fax: +260 211 278134
Web: www.lafarge.co.zm

Proshaw (Pty) Ltd.

Plot 12115
Mumbwa Road
Lusaka, 2531
Tel: +260 228971/966825209
E-mail: cobus@proshaw.co.za

Proshaw (Pty) Ltd.

Stand 589, Mkushi
Central Province
E-mail: anita.dubler@
proshaw.co.za

Saro Agro

PO Box 35168
Los Angeles Road
Lusaka
Tel: +260 1 287472
E-mail: ashok@saroagri.co.zm

Swedish Trucks & Buses Ltd.

Plot 5177/78
Lusaka
Tel: +260 1 227077
Fax: +260 1 220895

Zimbabwe

Atlas Copco Zimbabwe Pvt. Ltd.

Tel: +263 4 621761/6/912 425159
E-mail: davis.nongera@
zw.atlascopco.com

Autocontrol Systems

50 Lytton Road
Workington
Harare
Tel: +263 4 753376/7
Fax: +263 4 772210
Web: www.autocontrol.co.zw
E-mail: adam@
autocontrol.co.zw

Avoca Marine

PO Box 121
Kariba
Tel: + 263 772 233468/61 2501
E-mail: avocamarine@
gmail.com

Avoca Power

18 Martin Drive
Unit 4
Msasa
Harare
Tel: +263 4 447220/772 200517
Web: www.volvpenta.co.zw
E-mail: avocapower@
gmail.com

Barzem Enterprises Pvt. Ltd.

PO Box 1192
Bulawayo Matalebeland N
Tel: +263 967781

Conquip

Tel: +263 4485543
E-mail: garym@conquip.co.zw

Lafarge Cement Zimbabwe

PO Box GD160
Greendale, Harare
Tel: +263 7 7214605776
Web: www.lafarge.co.zw

LOAD Agropower

41 Plymouth Rd
Southerton Harare
Tel: +263 4 667421/664418/9

Machinery Exchange

5a Martin Drive
Msasa Harare
Tel: +263 4 4471802/772252992
E-mail: brendan@
machinery-exchange.net

Univern Enterprises Pvt. Ltd.

77, Coventry Road
Workington
Harare, 4604
Tel: +263 8677000130/2
Fax: +263 4 620384
E-mail: jason@srtc.com

Promix from Carmix

Specialists in self-loading concrete mixers, Carmix has introduced digital technology to innovative working with concrete. Its new device, Promix, enables instant control of the mix design, with data available in real time for effective monitoring and increased quality.

Promix is the next-generation device which allows measurement of all concrete parameters for immediate monitoring of its characteristics, is available for the company's 5.5XL, 2.5TT and 3.5TT models. Together with the Load Cells weighing system, already available on request, Carmix machines are now true stand-alone plants for producing concrete directly on the building site.

A portable analysis laboratory

Promix is a measuring instrument composed of a stainless-steel gauge housed inside the cement mixer and powered by a solar panel, with a display in the cabin which receives information in real time. The sensor provides data regarding slump, temperature, humidity, and cement-

mixer rotation speed, as well as featuring a 'mix-ready' indicator. All the data are updated every ten seconds and sent to the receiver which, thanks to an intuitive display, gives the operator details of all parameters of the concrete being prepared. This information can be saved to an external computer or sent to other mobile devices over the GPS network.

A new frontier for a perfect mix design

The ability to monitor numerous parameters quickly and effectively allows direct control over product quality and ensures that this quality is maintained over time, for every batch. Having instant data to assess durability, workability and resistance therefore becomes a competitive factor, because it eliminates the time necessary for analysis and allows preparation of concrete which is perfectly in line with legislation or with the particular requests of clients.

www.carmix.com

Powerful, durable and productive - Cat's new 340D2 L

The Cat 340D2 L hydraulic excavator, replacing the 340D L, builds on the productive performance and durability of its predecessor with a more refined hydraulic system and a fuel-efficient Cat C9 engine. With an operating weight of 40,270kg (88,780lb), it features massive structural components; heavy-duty undercarriage; a selection of booms, sticks, and work tools for optimum versatility; and a spacious, comfortable cab with low-effort, pilot-operated joysticks and a pressurisation system for a dust-free environment.

The 340D2 L's 200kW (270hp) C9 engine, with a field-proven reputation for powerful, reliable performance, is an estimated seven per cent more fuel efficient than the predecessor engine. Fuel savings result from an isochronous engine speed and torque control system that reduces engine speed during no-load or light-load conditions, as well as from a new electric pressure sensor in the implement hydraulic system that can detect pump load demand precisely to improve system efficiency.

Front linkage for the 340D2 L is designed for flexibility, high production, and efficiency in a variety of applications. The 6.5m (21.50ft) heavy-duty reach boom is available with a 3.2m (10.50ft) heavy-duty general purpose stick. In addition, a mass excavation front linkage uses a 6.18m (20.25ft) boom which can be equipped with either a 2.55m



The Cat 340D2 L is fuel-efficient, offers low operating costs, long-term reliability, and hydraulic performance

(8.33ft) or a 2.15m (7.05ft) stick for use with high capacity buckets.

For operator comfort and convenience, the ergonomically designed cab is pressurized with filtered air to keep the interior clean in dusty working environments, and the cab is equipped with standard air conditioning. The monitor is a full-color LCD that presents an intuitive interface for the operator to observe the machine's operating status; information is displayed in 28 languages to meet the needs of a diverse work force.

Most routine maintenance points for the 340D2 L are easily and safely accessible at ground level, with large service doors in the upper structure providing access to hydraulic pumps, pilot filter, fuel filters, and cooling components. A centralized greasing block facilitates lubrication of difficult-to-access areas. A reserve tank and drain cock are attached to the radiator for simplified service. Ports for the 340D2 L's S-O-S (Scheduled Oil Sampling) system allow conveniently drawing samples from circulating fluid.

An easy mixer to move and accommodate

Saving space also means saving time – and money. With more than 50 years of experience in the sector, Lino Sella World offers state-of-the-art production of cement mixers, mortar machinery and building equipment. Its latest version of cement mixers packed in a box is designed to make

transport easier: the machines are disassembled and packaged in a cardboard box that makes it possible to considerably reduce the space required for storage. Company owner Paolo Sella said, "We had the idea of producing a cement mixer that can be disassembled after observing the operative

needs of our dealers. The feedback confirms the economic savings in terms of transport - 40 per cent of space saved that, from initial observations, has an impact on overall costs and many other factors."

Ease of assembly is guaranteed by the fact that assembly only requires the use of bolts and does not require any welding. In addition to the reduced dimensions, its advantages are also related to the new cab that can be supplied with any type of engine - diesel, electric or spark-ignition (the engine does not need to be removed from its housing for maintenance), whereas the packaging makes sure that the operators receive the cement mixers in perfect conditions.

Lino Sella's commercial targets are evolving continuously, with references such as Miami, Qatar, the Arab Emirates as well as the emerging markets of Africa and Asia. The range of Lino Sella building equipment includes all different types of cement mixers, from traditional to silent, hydraulic, with capacities between 140 and 1,500 litres, as well as mortar machinery, plastering machines and plaster sprayers.



Dry cutting on hard tiles with a Jaguar blade

Hard porcelain tiles are becoming an increasingly-popular option for homeowners in South Africa, due to their robust and aesthetically-pleasing characteristics. A range of 115mm Jaguar diamond saw blades simplifies the challenging task of accurately cutting these tiles. An innovative new design makes Jaguar the first blade capable of achieving chip-free dry cutting of porcelain and ceramic tiles. It has been introduced locally by Diamond Products - a leading specialist in the manufacture, assembly and sale of diamond tools and equipment for industrial applications.

The trend of utilising hard porcelain tiles is a challenge for



The Jaguar blade streamlines the cutting process by improving efficiency and minimising costs associated to wastage.

professional contractors such as plumbers, tilers and builders, who consume considerable amounts of water during the cutting process in order to avoid costly chipping.

Diamond products director Brian Clark explained, "The unique and patented Jaguar blade segment design offers improved versatility of application, increased cutting speed and improved cooling to enable dry cutting on porcelain and ceramic tiles, in addition to granite, marble, travertine and artificial stone."

AIR CONDITIONERS BUILT FOR THE WORLD'S MOST DEMANDING CLIMATES

Hazardgard **Engineered to perform in the harshest conditions**

HAZARDGARD FEATURES

- Permanent split capacitor motor
- Hermetically sealed reciprocating compressor is cooled during the refrigeration cycle, which allows the unit to tolerate higher outdoor temperatures up to 130° F (55°C)
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Hot gas bypass allows the air conditioner to operate at low ambient conditions without freezing at outdoor temperatures as low as 45° F (7°C)
- Larger, commercial grade, enclosed fan motor with hermetically sealed overload for arc-free operation. Totally enclosed to assure efficient operation under adverse electrical conditions

UL LISTED

Class 1, Division 2, Groups A, B, C and D.

50 | 60

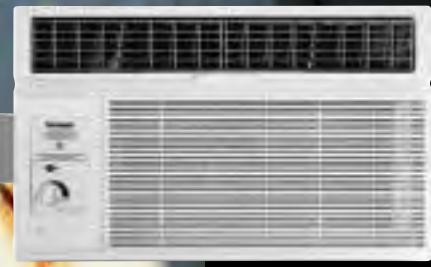
H E R T Z

ATEX/IECEx CERTIFIED

Models for Zones 2, 22

CERTIFIED in accordance with ISA 12.12.01 and NFPA 70 (NATIONAL ELECTRIC CODE), ANSI/UL 484 Room Air Conditioners. KSA REGISTERED and TESTED in accordance with SASO 2681

MEETS T4 TEMPERATURE CLASSIFICATIONS



FRIEDRICH

COMMERCIAL GRADE
ROOM AIR CONDITIONERS



PACKAGED TERMINAL
AIR CONDITIONERS



THE EXPERTS IN ROOM AIR CONDITIONING

www.friedrich.com



www.andercraftglobal.com

Unit D2, Braintree Industrial Estate
Braintree Road | Ruislip | Middlesex, London HA4 0EJ
Tel : +44 (0)20 8427 0707

2207 Concord Pike | Suite 376 | Wilmington, DE 19803 USA
Tel : +1 856 520 2447



CONYBRID

www.conybridworld.com

11, Alhaja Ashabi Cole Street
Central Business District (CBD) Off Lateef Jakande Road
Alausa - Ikeja | Lagos - Nigeria
Tel : 0809 900 6677, 0705 534 5678
+234 (0) 809 900 6677
+234 (0) 705 534 5678

Making roads work with retaining-wall tech

Specifying stable systems for a key highway infrastructure project outside Durban, South Africa

Consultancy services firm SMEC South Africa has been closely involved with the detailed design and project supervision of an innovative mechanically stabilised earth (MSE) wall system on the Ballito Drive road upgrade project in Durban, KwaZulu-Natal. This was one of the first and largest applications of this technology in South Africa to date.

The design of the MSE walls involved close collaboration between SMEC South Africa, Kaytech Engineered Fabrics and Tensar. Developed as an alternative to traditional retaining wall options, the Tensar TW1 system has been introduced to the South African market by Kaytech.

SMEC South Africa undertook the final design checks to ensure the overall stability of the system and its compliance with project specifications and local codes. SMEC South Africa's section manager: geotechnics, Fernando Pequenino explained, "These included integration of the system with the new roadway and New Jersey barriers along the top of the wall. We also had to take cognisance of the overall geotechnical conditions."

Reinforcing and retaining

The geotechnical investigation revealed that the site was underlain by thick coastal dune Berea deposits at the precise location of the MSE walls, with bedrock at depths exceeding 30m. The design of the MSE walls was based on SANS207: 2006: 'The design and construction of reinforced soils and fills'; which provides applicable guidance for the design of reinforced walls.

"A reinforced soil structure must be checked for external and internal stability," said Pequenino. External stability takes into account sliding, bearing/tilt and overturning of the MSE block. Internal stability involves essential checks for failure against pull-out of the geogrid, as well as failure against rupture. Ancillary checks include compressive block failure, block rotation and bulging and connection failures.

"The type of geosynthetic reinforcement selected must also take into account the soil properties of the reinforced, retained and foundation materials," Pequenino remarked. These soil properties contribute to determining the tensile strength, stiffness requirements and spacing of the geogrid.

A key consideration of the design was to optimise the use of lower-quality fill material, while simultaneously reducing the quantity of lateral support required in cutting back and benching into the existing roadway (that is, the back excavation slope).

However, the use of such lower-quality fill material meant that the strip lengths had to be increased, which implied either an increased cut or the use of a near vertical back excavation slope requiring the use of shotcrete and ground anchors or nails.

SMEC South Africa geotechnics engineer Frans van der Merwe said, "After a number of design iterations, the final design of the 11m-high



MSE walls comprise fill material with horizontal layers of reinforcing elements

wall comprised the use of 7m-long strips, a granular (COLTO G6) backfill for most of the height and a 1m-thick granular soil-raft foundation."

Berea sand was used throughout for the upper 3m of the 11m wall and the 5m-high wall.

Building at Ballito

Ballito Drive is located about 40km north-east of Durban. The scope of work on this project entailed widening the two-lane single carriageway to a three-lane dual carriageway. The undulating topography of the site meant that earth-retaining structures had to be built to bring the extra lanes to level.

The lane widening had to be carried out within the road reserve to eliminate encroachment into existing developments. As van der Merwe confirmed, the company proposed "two near-vertical MSE walls of 11m and 5m, covering a total length of over 400m and 2,000m²" in order to achieve this goal.

MSE walls comprise fill material with horizontal layers of reinforcing elements. This may take the form of sheets, grids, strips or meshes. These metallic or polymeric reinforcing elements are capable of sustaining tensile loads and the effects of deformation or soil strains developed in the fill, part of which is transferred to the clad face through some form of positive connection.

Main contractor Afriscan Construction opted for the Tensar TW1 proprietary MSE system, introduced into the South African market by Kaytech. The system provides a number of benefits over other block and mechanically stabilised earth systems.

These include the effective connection between block and geogrid, a near-vertical face inclination, locally manufactured blocks, aesthetic appeal and labour-intensive construction, which eliminates the use of heavy lifting equipment. ■

Experience the Progress.



LIEBHERR
The Group

Rehabilitating the R61 in SA's Eastern Cape

The ability to work across a range of industries on projects that require a diverse set of skills has ensured the sustainability of Murray & Roberts Infrastructure. The company continues to receive a wide variety of project awards in the roadworks and civils arena, a testament to its ability to carry out logically complex infrastructure projects.

According to Eric Wisse, managing director of Murray & Roberts Infrastructure, recent awards for the roadworks teams include a 28-month contract to rehabilitate a section of the R61 in the Eastern Cape region between Bizana and Port Edward (the Magusheni/Mzamba area), led by contracts

director Jay Juganan.

Murray & Roberts Infrastructure has participated in some of the largest and most significant construction projects Africa and the Middle East. These include the Gautrain Rapid Rail Link and Cape Town Stadium in South Africa, and the Burj al Arab Hotel and Dubai International Airport in the UAE. Within Africa, Murray & Roberts is recognised for its leadership in engineering and construction services, and has delivered infrastructure throughout South and Southern Africa for more than 110 years. Its commitment to African infrastructure is underpinned by its engagement in and understanding of the integration of transport and logistics, power

and energy, water and sanitation, telecommunications, health and education, accommodation and facilities, and mineral extraction and beneficiation across the continent and around the globe.

Infrastructure owners rely on the various stakeholders within the built environment to develop, finance, design, engineer, construct, operate and supply inputs for delivery of infrastructure. Utilising its long track record of successfully completed road projects in the Eastern Cape, Murray & Roberts Infrastructure is working on the upgrading of a 27.5km portion of National Road R72 Section 3 between Port Alfred and the Fish River for SANRAL (SOC) Ltd. The project is due for



African Review

of BUSINESS and TECHNOLOGY

Your way to one of the most exciting markets in the world

For over half a century, **African Review** has been putting thousands of sellers in touch with buyers across Africa. They know that the magazine can reach the largest number of decision makers in business and government, guaranteed with an **ABC** audited circulation.



Sign up for the **FREE** fortnightly e-newsletter on
africanreview.com

Circulation claims independently verified by an ABC audit



Alain Charles Publishing
Serving the world of business

MENA
ASIA

Tel: +971 4 448 9260
Tel: +91 80 6533 3362

USA
EUROPE

Tel: +1 203 226 2882
Tel: +44 20 7834 7676

e-mail: post@alaincharles.com
web: www.alaincharles.com
www.africanreview.com

Work underway on the Murray & Roberts Infrastructure N4 Project



completion in late August 2018 and includes the widening of the Rietrivier Bridge at the 13.2km mark of the project. Following on the successful completion of two back-to-back contracts on the N1 outside Hammanskraal for Bakwena Platinum Corridor Concessionaire, the company has secured rehabilitation work for the Northern Toll Roads Venture (NTRV) on the same national roadway between Bela Bela and Polokwane. This work will be done in Joint Venture with Grinaker-LTA and will be the final rehabilitation work for this concession.

Ongoing roadwork

Work on the Murray & Roberts Infrastructure N4 project is progressing according to schedule on the section of this major national route near Middelburg, just east of the Rockdale interchange, and ending just west

of the Arnot interchange. It involves increasing the carrying capacity of an 18 km section of the toll road by constructing a new double-lane eastbound carriageway, with associated civils infrastructure such as a bridge overpass at the Klein Olifants River and various other structures.

Site establishment on the iconic Grayston Road Pedestrian Bridge for the Johannesburg Development Agency has begun. This bridge will link Alexandra township with the business hub of Sandton.

Working with water and wind

Based on its capabilities within the water and waste water sectors, the company has secured the Orange Farm 33mn litre reservoir contract. Contracts director, Lucas Baars said this award follows on the successful completion of the 20ML water

reservoir and 1.2ML water tower in Lanseria for Joburg Water.

Work is ongoing on a number of wind farm contracts for Mainstream. The first bases for Nupoort's 35 wind turbine generator wind farm have been poured and site establishment has begun for the Loeriesfontein and Khobab wind farm contract. Each of these wind farms will have 61 wind turbine generator foundations, with a combined construction period of 30 months.

The company has also been awarded the contract for the design and construction of the civil balance of plant for the De Aar 1 Maanhaarberg Wind Farm for Longyuan Engineering South Africa (Pty) Ltd. When completed, this wind farm will contribute 100 MW into the national grid utilising 66 wind turbines. ■



QUARD® IS A
QUENCHED
AND TEMPERED HOT
ROLLED PLATE WITH
HIGH RESISTANCE
TO ABRASIVE WEAR
AND IMPACTS.

- Available from **3.2mm thickness!**
- Excellent cold forming properties and weldability
- Superior workability, tight tolerances, surface finish, high consistency

Quard®

ABRASION RESISTANT STEEL



WWW.QUARD.ME

Superior structured surfaces

Why strength-to-weight ratio is critical to the construction of floor grating

The strength to weight ratio of floor grating is an important consideration. Used in a number of industries, from process plants to wastewater treatment facilities to petrochemical facilities and oil refineries, industrial floor grating needs to be durable and fit for purpose.

A capacity for quality and safety

As the single largest producer of floor grating in Africa, Andrew Mentis has built an extensive database of customer applications that focus on quality and safety. All manufacturing is undertaken at an advanced facility in Johannesburg, South Africa, in adherence to stringent quality processes, with close tolerances being maintained.



Mentis floor grating is used extensively in the mining industry

Andrew Mentis RS40 floor grating is engineered to take a specific loading, which ensures the safety of people walking or working in those areas. By carefully reviewing the technical specifications and other information relating to the load bearing capacity of the product, superior floor grating is produced for mezzanines, catwalks, platforms and ramps.



LEISTER
PLASTIC WELDING

UNIPLAN E

SEAMTEK 36

Welding in all Dimensions

Leister – The One-Stop Shop for Experts in Technical Textiles and Industrial Fabrics.

Leister Technologies AG
6056 Kägiswil
Switzerland

www.leister.com/techtex
We know how.



Products for processing

Prior to the start of the manufacturing process, a technical representative from Andrew Mentis meets with the customer to determine their precise needs and ensure maximised structural integrity. Thereafter the processing department compiles the layout of required products according to structural drawings supplied.



There are specific non-negotiable factors that Andrew Mentis takes into consideration during the production of floor grating; the manufacturing method used by the company ensures that the transversals are positively and permanently locked to the bearer bars.”

There are specific non-negotiable factors that Andrew Mentis takes into consideration during the production of floor grating. The manufacturing method used by the company ensures that the transversals are positively and permanently locked to the bearer bars.

The compressive pressure locking method at the intersections is engineered to use the full depth of the bearer bar and the grating panels are flat, square and untwisted with a pitch of 40mm by 40mm. As a result there are no cracks or crevices at intersections which could harbour corrosion.

The grating's non-slip characteristics are created by the positive raised sections that produce multi-directional obstructions on the top of each bearer bar, allowing for a far larger surface contact area.

Mentis floor grating is also available with a serrated profile for those customers that have application for this. The company also supplies moulded fibre glass grating which is used in corrosive environments where steel cannot be used. ■



**Concrete Equipment
Solutions and Technology**

**Self-Loading
Concrete Mixers**



**TAKE
CONTROL OF
YOUR CONCRETE**



**Easy-to-Manoeuvre
Four Wheel Drive
True Batching Plant**



PMSA supplies the all new Fiori CBV (Concrete Batching Vehicle).

**Make Certifiable Concrete,
Anywhere, Anytime.**

Contact us today

**Tel: +27 11 578 8741
sales@panmixers.co.za
www.pmsa.com**

Rotating machines that offer added versatility

The multiple models in the Magni series provide African contractors with all the capabilities of a compact lifting device



The versatility of today's compact machines with all their available attachments, including pallet forks and a safe access platform in the case of Italy's Magni Telescopic Handlers*, is now recognised by construction contractors throughout Africa. These are essentially highly manoeuvrable cranes equipped with a rotating function along with a rigid telescopic boom - which incorporates protected hydraulics within its multiple sections - that offer a great deal more. Such as electronics soft ware that ensures a safe load/height/extension combination cannot be exceeded even on uneven ground.



How the HTH meets industry requirements

Reaching to a height of well over 30m, the maxi-spec R5.35S machine which was launched at Intermat this year is believed to be the highest rotating telescopic forklift available anywhere in the world – a boon to building contractors who want to reach maximum height with a serious load anywhere. The company also offers a number of heavy duty HTH models which are designed to meet the special lifting and access requirements of the mining and energy-producing industries.

Key features of the medium-size RTH range (12 recently introduced models of varying handling capacities in terms of the available load chart, including four in the innovative Smart series which was extended this year) include a registered design of cab which incorporates a unique touch-screen control surface in place of the normal hands-on panel. The images displayed all correspond to the machines' special application software. Joystick control is also available via CAN BUS for all movements of the turret, boom and attachments.

Other features of the series' operating environment include a movable steering column and complete climate control.

Reaching out with the RTH

Magni's newly designed, compact outrigger-based stabilising system incorporates both pivoting and telescoping functions to increase the RTH models' lifting performance and safety under all conditions. Built-in software controls an active dynamic "Super Scissor" design which can take full account of uneven ground conditions which may necessitate varying lengths of the four extended legs.

These machines offer a choice between JCB Ecomax (Tier 4i) and Daimler M-B (3B) engines. Chip-enabled Bosch Rexroth transmissions permit on-road travel at up to 40km/hr. All models in the new rotating range are assembled on one of two types of chassis, featuring a rigid structure to eliminate twisting and increase stability, features

J.S. Machine
GLOBAL REQUIREMENTS LOCALIZED SERVICE

JSO

ADVANCED TECHNOLOGY
Innovative Technology for Advanced Handling Solutions
SUPERIOR SERVICE

PIONEERED, ENGINEERED, COMPLETE, GUARANTEED
From a single unit to a multi-unit integrated solution and service

Corrugated Board Production Line
— the easiest machine running liner paper
to different size integrated equipment

Printed paper with case forming line
the most popular high-speed solution in the
paper-based form conversion center

J.S. CORRUGATING MACHINERY CO., LTD
Address: No.25 Jiaojing Road, Jiaozhou Industrial Zone, Weifang, China
Tel: +86-27-83528808 Fax: +86-27-83522189 E-mail: jso@jsmach.com
Peter Tan Mobile: 0086-13471711945 E-mail: pjt@jsmach.com



which are augmented by the extremely sophisticated design of the stabilising outrigger system itself.

The RTH series' built-in load sensing hydraulics comprise a Bosch Rexroth variable displacement pump (main), latest-generation Sauer Danfoss valves incorporating electro-proportional control, and instantaneous spool-position detection in accord with the most up-to-date electronic-control safety requirements.

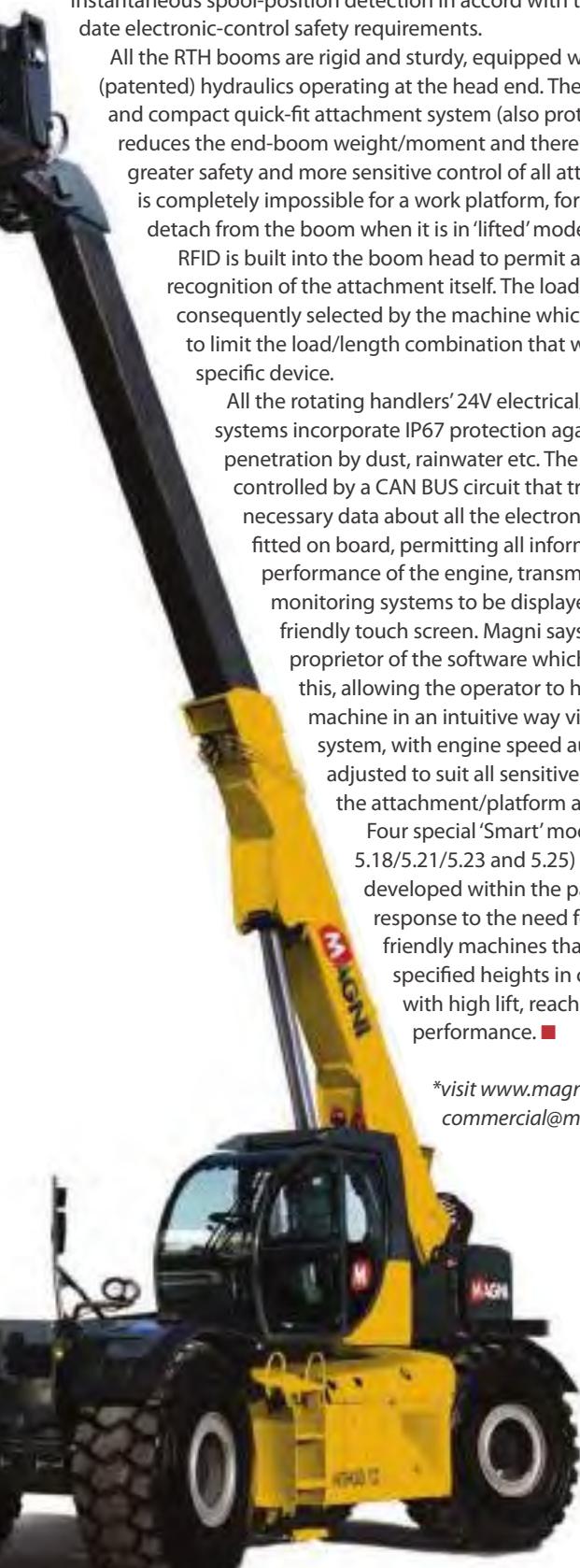
All the RTH booms are rigid and sturdy, equipped with exclusive (patented) hydraulics operating at the head end. The company's neat and compact quick-fit attachment system (also protected by patent) reduces the end-boom weight/moment and thereby facilitates both greater safety and more sensitive control of all attachments. Thus it is completely impossible for a work platform, for example, to detach from the boom when it is in 'lifted' mode.

RFID is built into the boom head to permit automatic recognition of the attachment itself. The load chart is consequently selected by the machine which is pre-disposed to limit the load/length combination that works with that specific device.

All the rotating handlers' 24V electrical/electronics systems incorporate IP67 protection against unwanted penetration by dust, rainwater etc. The telehandlers are controlled by a CAN BUS circuit that transmits all necessary data about all the electronic components fitted on board, permitting all information about the performance of the engine, transmission and load monitoring systems to be displayed on the user-friendly touch screen. Magni says it is the proprietor of the software which actually enables this, allowing the operator to handle the machine in an intuitive way via the flow-sharing system, with engine speed automatically adjusted to suit all sensitive movements of the attachment/platform as required.

Four special 'Smart' models (RTH 5.18/5.21/5.23 and 5.25) have been developed within the past year in response to the need for compact, user-friendly machines that permit work at specified heights in complete safety with high lift, reach and access performance. ■

*visit www.magnith.com or e-mail
commercial@magnith.com



The Magni HTH 30.12 is an extremely versatile machine



ROOF TILE MANUFACTURING MADE EASY

Superior engineering giving our customers the leading edge worldwide

Free basic guide on successful concrete roof tile production



Concrete roof tile equipment Manufactured by

Jessop & Associates (Pty) Ltd

Tel: +27 16 421 2521 Fax: +27 16 421 2539

www protile-equipment.com

Reporting and repairing injection systems

South African Caterpillar customers reduce downtime with in-field fuel system diagnostics

Reef Fuel Injection Services is helping to reduce the downtime of its Caterpillar customers by offering an in-field fuel system diagnosis.

The company's operations manager, Warren Hauser, said, "We can pinpoint what the exact problem is, right down to a specific faulty fuel injector which we can then remove and rebuild, as well as recalibrate the rest. This provides a massive cost-saving for our customers in that we are able to test injectors individually, rather than having to replace or repair a full set."

"This is another example of how Reef Fuel Injection Services' significant investment in the latest repair and diagnostic technology and equipment helps customers reduce their maintenance and repair costs substantially."

Critical service

Incorrectly calibrated or out of specification fuel injectors can result in major problems in terms of fuel efficiency and consumption, and therefore it is important to ensure that these critical components function optimally at all times.

"This is a unique service offering that places us at the forefront of the automotive repair industry in South Africa," Hauser said. The service is available for Caterpillar common rail and electronic fuel injection systems, as well Caterpillar HEUI (Hydraulically Actuated Electronically Controlled Unit Injector) systems.

"An added benefit for customers ensuring their fleet remains operational is that we offer a service exchange on injectors from C6.6 to C32. Instead of having to wait two days for the injectors to be pulled and checked, we

Effective lubrication and maintenance is key to long-term efficiency

Alack of maintenance on electric motors in African industry has resulted in excessive failures, which ultimately lead to unnecessary downtime costs and production stoppages. According to Craig FitzGerald, COO at wear control specialist Filter Focus, the majority of smaller scale electric motors operating locally are never greased or lubricated. He said, "In my experience, most maintenance engineers are not even aware that there are bearings on electric motors. As a result, no lubrication is done, and costly and easily-avoidable failure occurs."

FitzGerald added that an electric motor is typically lubricated once at the manufacturing facility. "Generally it is a medium to low quality lubricant that is applied once only, and this is simply not sufficient for the operational lifespan of the motor. Due to the fact that these motors are often found in confined and hard-to-reach places that are located at-height or under moving conveyor belts, they are



unwittingly neglected by site supervisors too," he said. Lubrication softens the harsh metal-to-metal contact between gears. During this contact, air bubbles are formed when cheap, low-quality lubricants are applied. FitzGerald observed that this is one of the countless forms of destructive contamination. He said, "There is often the belief that using cheaper lubrications will save the operation money, however, the expenses associated with the long-term maintenance and wear problems will prove to be exceptionally costly and disruptive."

Due to the harsh operating conditions in Africa, motors and gearboxes become particularly susceptible to rust, corrosion or deterioration. FitzGerald said, "These threats arise from the climate, dirty operational environments, as well as low level artisans and cleaners that spray the equipment with water during cleaning, inadvertently damaging the equipment, due to a lack of training and knowledge."



Rustprufe can be applied in applications as a permanent anti-corrosion coating

► can put the next set in and the vehicle can be up and running almost straightaway. We welcome any enquiries as to the full range of Caterpillar equipment that we cover," Hauser remarked.

Reef Fuel Injection Services offers the benefit of a full diagnosis and reporting capability, with any rebuild and recalibration service conducted to stringent standards. Hauser said, "That is key to our service offering, so customers have total peace of mind that repairs are carried out according to strict specifications using the latest equipment and technology, and with the highest quality workmanship."

Reef Fuel Injection Services is a subsidiary of heavy diesel engine and component remanufacturer Metric Automotive Engineering. The company tests, repairs, remanufactures and calibrates all makes of diesel injectors and injector pumps and is a specialist in CRI systems. The company is an authorised service agent to all five leading fuel injection systems - Bosch, Denso, Delphi, Stanadyne and Zexel - and is acknowledged as a specialist in Cat fuel injection systems. The company has a strong ethos of investing in both quality equipment and expert personnel. This attitude towards customer



In-field fuel system diagnosis with a CAT C7 injector

service and constant product innovation has sustained the company since its inception.

Parent company Metric Automotive Engineering is able to refurbish large diesel engine components and also offers services

such as cylinder head remanufacturing, cylinder block line boring, milling, honing and boring, camshaft grinding, crankshaft grinding, engine assembly and dynamometer testing. ■

MAGNI

TELESCOPIC HANDLERS

TYRES CLAMP TC16.63

This clamp allows to handle tires from 24" up to tires 63", has got side shift and can be hydraulically widened.





tracce.com

Magni Telescopic Handlers srl - Via Magellano, 22 - 41013 Castelfranco Emilia, Modena, Italia
Tel: +39 059 8630811 - Fax: +39 059 8638012 - commerciale@magnith.com - www.magnith.com

The key to fire safety efficiency

How construction specifiers can support building owners to maximise both the energy and maintenance efficiency of their property safety systems

Fire safety and emergency lighting technology is a key feature of the modern built environment, helping to ensure the wellbeing of building users, and it has long been compulsory across Europe to have this equipment installed in public buildings. Following suit, a growing number of African governments have introduced legislation of their own. In recent years, for example, the South African Part T (Fire Protection) of the National Building Regulations has come into use. However, many businesses are also going one step further to ensure the safety of their staff and customers by actively adopting advanced European legislation as a best practice standard. One such element of the law in place in European countries being adopted by businesses across Africa is a requirement for building owners to perform regular maintenance of their property's equipment to ensure it is working properly.

Poor and irregular maintenance of life safety equipment has a number of consequences for building owners, not the least of which is the increased risk of false alarms. False alarms don't just cause disruption to the building's residents, they also divert fire and rescue services from attending genuine fire incidents. According to recent figures from the UK Government, the country's fire and rescue services attended nearly a quarter of a million false alarms over the last two years, caused by faulty fire safety systems [Hochiki to provide a figure for Africa if available]. This poses a significant risk to the safety and well-being of building occupants.

Occupant wellbeing and the financial cost of false alarms are just as relevant to building owners in Africa as they are to those in Europe. So how can specifiers support building owners to take care of their fire

safety and emergency lighting systems as efficiently as possible?

Streamlining maintenance

Specifiers can help building owners ensure regulatory compliance while optimising operational efficiency by considering the particular maintenance needs of their proposed life safety equipment.

Some technologies require more care and monitoring over their lifetime than others. Some equipment may also be vulnerable to unexpected performance issues that can lead to unplanned downtime or even expensive repairs. Installing such products will cost building owners more time and money to maintain, increasing their total cost of ownership (TCO).

However, by selecting solutions that have minimal aftercare needs, specifiers can help streamline these processes for building owners. Opting for equipment that comes with a comprehensive warranty, for instance, can lower the cost of unplanned maintenance and repairs, while installing self-testing fire safety and emergency lighting technology can cut the time building owners have to spend looking after their systems.

Cutting energy consumption

The energy use of a property's emergency lighting technology is another key factor that specifiers need to address to support building owners in reconciling efficiency with occupant safety.

A system that requires more electricity to operate will end up costing considerably more over its lifetime than one that consumes less. In addition, building owners in rural or emerging economic areas may find themselves vulnerable to brown-outs, when mains electricity is severely reduced for part of the day, relying on personal generators to

limit disruption. With this in mind, emergency lighting that uses a lot of electricity will be a significant drain on resources, affecting the performance of other key equipment in the building.

There are more energy-efficient lighting solutions that can considerably cut operating costs for building owners over their lifetime. Lighting systems incorporating low-voltage cabling and LEDs, for example, consume just five per cent of the energy of standard fluorescent tubes, significantly reducing their TCO. Moreover, LED light fittings only need five per cent of the lamp changes needed by traditional luminaires, further streamlining maintenance for building owners.

Looking for support

Regular maintenance of fire safety and emergency lighting systems is a necessity for building owners to ensure their equipment continues to offer the performance needed to comply with legislation being introduced across Africa. To enable them to achieve this aim with minimal impact on operational efficiency, specifiers need to choose the most appropriate equipment for the building in question.

There is plenty of support available from life safety specialists to guide them in this goal. For example, Hochiki Europe has recently launched an online efficiency calculator that can help users assess the performance of existing equipment and recommend upgrades to maximise efficiency.

Making use of such advice can enable specifiers to select the best technology for a building's needs, not just to reduce operating costs for owners, but to safeguard the health and wellbeing of its users too. ■

Robert Head, Africa regional sales manager at Hochiki Europe

Mantrac Your Caterpillar Authorized Dealer **RELY ON CAT EQUIPMENT WITH OUR WORLD CLASS SUPPORT**

For over 80 years Mantrac Group, Caterpillar authorized dealer in Kenya Tanzania, Uganda, Nigeria, Ghana & Sierra Leone, has been helping customers succeed in their business, Offering them customized Cat equipment solutions backed by technical expertise and in-depth understanding of local markets serving a diverse range of customers from the world's largest commodity producers to numerous local businesses in construction, oil & gas, power generation and forestry.

Through a multicultural team of Caterpillar certified service engineers and a network of 40 branches, with fully equipped service workshops, guaranteed parts availability and supported by nearly 500 well-equipped field service trucks we are able to support Cat equipment customers even in the most remote areas across our dealerships.

BUILT FOR IT.



Mantrac Kenya Ltd.
Mansour Complex
Witu Road, off Lusaka
Road
P.O Box 30067 , Nairobi
Tel: +254 20 4995300

Mantrac Tanzania Ltd.
Plot no 4A,
Nyerere Road,
P.O. Box 9262,
Dar es Salaam
Tel: +255 22 551 5200
Fax: +255 22 286 4284

Mantrac Uganda Ltd.
Plot 17/41, 7th St.
Industrial Area
P.O. Box 7126, Kampala
Tel: +256 312 330 600
Fax: +256 414 235 425

Mantrac Nigeria Ltd.
2, Billingsway,
(Off Secretariat Road)
Oregun Industrial Estate, Oregun
PMB 21480, Ikeja, Lagos
Tel: +234 01 2716300
Fax: +234 01 2716300 Ext. 226

Mantrac Ghana Ltd.
Ring Road West
North Industrial Area
P.O. Box 5207, Accra-North
Tel: +233 30 2213777
Fax: +233 30 2221950

Mantrac Sierra Leone Ltd.
6-8 Blackhall Road
P.O. Box 127, Freetown
Tel: +232 30 223317

Unatrac Ltd.(Offshore Office)
Mansour House
188 Bath Road,
Slough, Berkshire,
SL1 3GA
United Kingdom
Tel.: +44 (0) 1753695555

www.mantracgroup.com

CAT, CATERPILLAR, their respective logos and "Caterpillar Yellow," as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.



Mixtures for making new facilities

As a leading construction chemicals specialist, the Chryso Southern Africa Group continues to implement plans that will see customers across the continent having direct and immediate access to both the entire product range as well as a team of technical product specialists.

An example of this is the establishment of a subsidiary company, known as Chryso Eastern Africa, in Nairobi, Kenya.

An established supplier

The Chryso Southern Africa Group has established a distributor network and distribution outlets across the African continent and Indian Ocean Islands for its concrete and cement admixtures and ancillary products.

Chryso South Africa supplies a vast range of products to the readymix, precast, mining, cement and construction industries that are produced at three of its manufacturing facilities operating in Johannesburg, Cape Town and Durban.



Chryso Southern Africa's operation in Jet Park, Johannesburg.

The company is also the exclusive distributor of Lanxess pigments for the construction industry in South Africa. With the capability to service roughly 80 per cent of the African continent, Chryso products

٢٠ خدمة شركات المحافظة منذ ١٩٨٤
TECHNICAL REVIEW
 النشرة التقنية - الشرق الأوسط MIDDLE EAST

SERVING THE REGION'S BUSINESS SINCE 1984

The region's leading
ABC audited industrial title.



Now in its 31st year of publication, Technical Review Middle East has established an enviable reputation for the breadth and depth of its editorial. It is distributed throughout the MENA region, contains an exceptional range of subjects, and is read by senior managers, key buyers and specifiers.



ABC audited circulation guarantees
your advertisement will be seen
throughout the Middle East

Alain Charles Publishing
Serving the world of business

MENA Tel: +971 4 448 9260

ASIA Tel: +91 80 6533 3362

USA Tel: +1 203 226 2882

EUROPE Tel: +44 20 7834 7676

e-mail: post@alaincharles.com

web: www.alaincharles.com

www.technicalreview.me



are readily available and can be transported to customers using the most appropriate mode of transport, road, air or sea freight.

Chryso Southern Africa has amassed an extensive reference base of projects, with product supplied into Africa for more than 15 years, through close partnerships with its customers.

This is achieved through the company's ability to assess each project on its own merit and then recommend a fit-for-application solution that takes into account all aspects such as climatic conditions, raw materials (including aggregates and cement), the time allocated for the project schedule and any other relevant factors that may affect the timeous completion of the contract.

Research for specialised service

In addition to its own experienced technical team Chryso Southern Africa also has access to extensive global research and development facilities.

An in-house laboratory in Johannesburg, where specialised mix designs are tested to determine the most appropriate solution for



each project, is complemented by alliances with a number of concrete laboratories in various African countries. Chryso Southern Africa is becoming the company's springboard into the African continent and Bauma will provide the company with the opportunity to showcase its capabilities and extensive range products to the African market. ■



AURY JOHANNESBURG

19 Graniet Road
Jet Park,
Boksburg
Tel: +27 (0)11 026 6642
Fax: +27 (0)11 605 0790
Email: sales@auryafrica.co.za



Aury Africa manufactures a complete range of high-quality vibrating screens, centrifuges, crushers and sieve bends for the coal, gold and mineral processing industries.

Our range of consumable products are designed to fit numerous OEM brands, and complement a vast range of mineral process equipment, wear resistant applications and process consumables.

Ultra broadband in the middle of nowhere

Nearly everyone now owns one, but very few people are aware that behind the plastic screen and shiny case of their smartphone is an array of precious metals. An iPhone 5 for example contains \$1.58 of gold, \$0.36 of silver, \$0.05 of platinum and \$0.12 of copper and many "rare earth" elements like Yttrium, Lanthanum, Neodymium, Gadolinium, and Europium.

LCD TVs, electric cars, indeed any modern-day electronic product contains similar elements and there is now huge demand on mines from around the world to deliver these ores in high quantities.

This demand means that the global mining industry is booming. New sites are coming online while existing locations are expanding through deeper excavations.

Many of these mines in Africa, South America, Asia and Australia are located in remote areas. As a result, reliable and effective communications networks are essential for safe and efficient mining operations and processes.

In-pit Autonomous Haulage Systems (AHS), Autonomous Drilling Systems (ADS), driverless freight train control, anti-collision systems, in-pit proximity detection, in-pit CCTV, high precision GPS, and an array of telemetry systems and sensors are now integral components of successful mine sites around the world. They are also connected to command and control centres, which in some cases are around 1000km away from the mine.

From legacy to LTE networks

Many legacy networks based on Wi-Fi, 2G, 3G, proprietary VHF, or PMR can no longer meet these systems' demand for uninterrupted radio coverage, quality of service (QoS) management, and security requirements in the changing topography of an open-pit mine.

They are also unable to deliver the bandwidth required for comprehensive CCTV networks. This was the case at Rio Tinto's West Angelas mine in the Pilbara region of Western Australia. Here Wi-Fi trailers set up around the mine were no longer up to the job of



Modern LTE communications networks serve remote mining operations with ease

supporting the mine's mission-critical applications, and were potentially putting its performance in jeopardy. This led to a rethink of the in-pit, pit-to-port, an in-terminal port radio communications infrastructure, with Rio Tinto tasking Alcatel-Lucent to deliver a private single and converged ultra-broadband 4G LTE network for its pit fields, railways, and ports.

LTE delivers numerous benefits to the mining industry. These include the bandwidth required for video services, even in areas with a disturbed radio environment,

dependable QoS management, as well as intrinsic resiliency and cyberprotection, and a low latency of 10ms, which is essential for mission-critical applications requiring fast response times.

Since coming online in August 2013, the performance of Rio Tinto's LTE network has led some observers to comment that they have a better mobile signal in the middle of the mine, hundreds of miles from the nearest city, than in their office.

Meeting the needs of machines

An LTE network is also contributing to reduced operating costs by using an IP protocol to support all applications on a single converged radio network, and improvements in operational efficiency. And with the solution scalable to accommodate new technologies and services, LTE technology is well placed to meet the M2M demands of the mining industry. ■

Rio Tinto's LTE network offers a better mobile signal in the middle of the mine, hundreds of miles from the nearest city, than in city offices

Thierry Sens, marketing director transportation segment, Alcatel-Lucent



Jaco du Toit - 12 years



Christina Ramotsabi - 9 years



Ricardo Montoya - 25 years



Rejean Foisy - 25 years



Godwin Dzwairo - 26 years



Noel Mills - 33 years



Anthony Yell - 33 years



Roy Roche - 34 years

Putting our heads together

We invest over 40 years of real-field experience and knowledge in mineral processing to create more efficient, profitable plant processes for our customers.

Achieve your mineral processing goals with Multotec.



MULTOTEC

Amplats chute upgrade at Mogalakwena North

Weba Chute Systems recently completed a chute upgrade project at Anglo American Platinum's (Amplat's) Mogalakwena North Mine. The chutes were installed originally in 2006 and subsequently lined with ceramic tiles in 2013 in order to cope with the sticky fines material.

Weba Chute Systems project manager Ted Cruickshank said, "This project showcased the total solutions approach adopted by Weba Chute Systems in being able to respond to specific client problems and challenges.

From temp bypass to upgraded transfer

At the beginning of 2014 Weba Chute Systems installed a temporary bypass leg on one chute



Weba Chute Systems are providing the most appropriate material transfer solution at Mogalakwena North Mine

in order to bypass the material onto a stockpile. Following this, under the auspices of Worley Parsons RSA, it was awarded a contract

to remove the temporary leg and place a permanent fixture on both chutes.

Cruickshank said, "Slight modifications had to be carried out to the existing chutes in order to incorporate the new legs, feeding the outgoing conveyors at various angles. Therefore, this was quite a complex project that required a lot of time and ingenuity on the part of Weba Chute Systems in coming up with an appropriate solution."

The incoming belt was a 1 050 mm conveyor with a speed of 2 m/s and a material bulk density of

2.6t/m³. The maximum material size was 10mm and a required tonnage of 600t/h. However, a maximum tonnage of 1,000t/h is



varisco
solid pumping solutions

the drainage solution!



albatross



muteline



Super Z

- Vacuum prime pumps up to 12"
- Dry-prime pumps up to 12"
- Silenced canopies
- Submersible pumps up to 8"



Open impeller centrifugal pumps
Hinged cover for easy inspection

www.variscospa.com



possible with the solution provided by Weba Chute Systems.

Cruickshank explained that Weba Chute Systems' upfront involvement in projects right from the design stage helps to mitigate many of the problems associated with transfer points.

He said, "Consulting with us during this vital phase means that we can bring the experience and expertise we have gained during thousands of installations to bear on an individual project."

It also eliminates the situation where transfer points need to be redesigned after installation because certain critical factors have not been taken into account.

One of the most common problems associated with conventional chute design is where the product drops from any height directly onto the belt. Cruickshank said, "Such a basic design fault causes the most catastrophic damage and cost, as the impact of product falling directly onto the belt results in excessive wear and, in the worst-case

scenario, can even result in tearing of the belt. In addition to the impact, excessive spillage also results in increased maintenance requirements. This has a direct bearing on both productivity and costs, due to unnecessary downtime and component replacement."

A cascade design

The Weba Chute System is based on a 'supertube' or cascade effect that results from those occasions when material runs on material. This highly innovative approach to the dynamics of bulk materials handling results in significant cost savings for clients. It also showcases the considerable expertise and experience that allows Weba Chute Systems to be able to engineer solutions for specific client requirements.

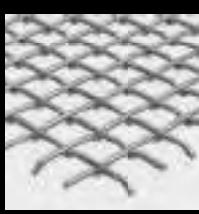
To date the company has engineered over 4,000 transfer chutes that are operating successfully throughout the global mining industry. Irrespective of belt speed, belt width, material size, shape or throughput, the Weba Chute System eliminates the problems associated with conventional transfer chutes as well as providing a cost effective and environmentally friendly solution for material transfer. ■



TALLERES NÚÑEZ

GRUPO NUBA® Since 1968

Screening Media and Accessories for the Aggregate and Mining Industries



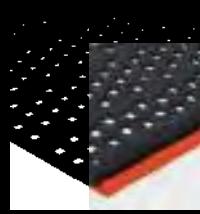
Metallic Screens



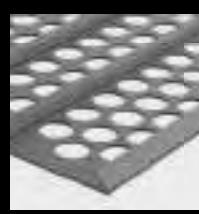
Self-Cleaning Screens



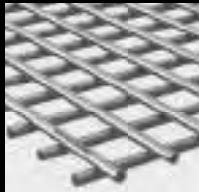
Polyurethane Screens



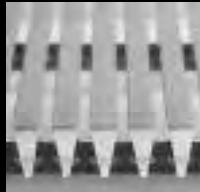
Rubber Screens



Perforated Metal Plate



Electro-welded Screens



Wedge Wire Screens



Vibrating Finger Screens



Other Products and Accessories

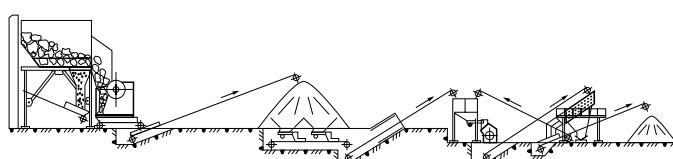


Crusher wear and spare parts



www.mallasycribas.com

Tel: +34 916 160 500
e-mail: tn.international@mallasycribas.com



Consultancy on Crushing and Screening Plants



FREMAP
Nº 28 - 04 - 0044 - 2000

Quality mineral systems from Quarry Mining LLC

Quarry Mining LLC designs and manufactures in compliance with European standards, while adhering to the same safety standards and features that you would expect of equipment produced in Europe. Quarry Mining LLC is certified for quality management with ISO Certificate 9001:2008 and for environmental management with ISO Certificate 14001:2004 from the German Technical Inspection Association TÜV Rhineland/Germany, and includes the continuous integration of all upgrades. A company-wide cross-departmental ERP software system was introduced in the beginning of 2014.

Our qualified and highly motivated team of approximately 150 professionals allows Quarry Mining LLC to offer solutions with no limitation to project size. Quarry Mining LLC is able to design, manufacture and install mineral processing plants, bulk handling systems and environmental technologies in any plant configuration necessary, to meet customer requirements and applications as partial or complete turnkey plant operations.



Quarry & Mining LLC manufactures equipment to enhance mining operations

Quarry Mining LLC has advanced to become a leader in the industrial sector as a result of our commitment to deliver the highest quality and achieve total client satisfaction through world-class professional standards and efficiency. This commitment has helped secure Quarry Mining LLC a reputation as a reliable partner in our business segment throughout the past decades.

Quarry Mining LLC has acquired a high level of expertise within their own dedicated team as well as high-quality machinery and components supplied by its German supply partners. This combined strength helps Quarry Mining LLC to achieve an enviable track record with regard to synergy, intelligent solutions and overall added value for its clients.



The PANAfrican GROUP

operates in 7 countries across Africa where they are recognized leaders in providing equipment and aftersales support solutions to the large mining, light and alluvial mining, cement and aggregates, agriculture and forestry, civil and infrastructure and power and energy sectors.

PANAfrican GROUP

KOMATSU



PIRTEK
fluid transfer solutions

HENSLEY

For more information contact:

Tel: +971 4 212 4750
info@panafricangroup.com
www.panafricangroup.com

GHANA | KENYA | LIBERIA | NIGERIA | SIERRA LEONE | TANZANIA | UGANDA

*Wirtgen Group products available in Kenya, Tanzania, and Uganda. For all other territories, please contact your local Panafrican office for further information.

Minerals

CrC wear plates improve operational efficiency and reduce maintenance costs

The manufacturing of Chromium Carbide (CrC) Liner Plates has vastly improved since the product was first introduced to the market 35 years ago, with top liner plate expert **Rio-Carb** playing a leading role in advancing technology and developing innovative variations in manufacturing methods. What's more, Rio-Carb is the only CrC liner plate and equipment manufacturer whose welding standards are compliant with the internationally-recognised American Welding Society (AWS).

Rio-Carb managing director Martin Maine reveals that local South African welding standards do not make provision for CrC welding, which requires specialised techniques. He warned, "The welding of CrC faces risks if not carried out in accordance to certain specifications."



CrC can affect the quality, consistency, integrity and wear properties of long life liner plates

Maine indicated that the biggest challenge with CrC is to get the weld beads smooth, as rough welds immediately create more cavities and disturbances to the material flow. Mr Maine said, "Customers need to be wary of companies that do not have certified welding processes as this may cause major future problems."

Rio-Carb moved into a new production factory with state-of-the-art equipment and technology, to provide "CrC designers and users with first-hand experience and detailed information for the application of this unique material", Maine said.

Simulators for miners

Virtual learning and the use of simulators has become extremely widespread on a global platform. However, research shows that most mining companies do not use simulation to its full capacity. Tony Pretorius, risk manager at the **Murray & Roberts** Cementation Training Academy, spoke recently of a "targeted and holistic approach by applying simulators in a blended learning experience...in line with the situational leadership development model of Tell Sell Participate and Delegate."



ZEST
WEG Group

LEARNERSHIPS SMALL
DEEP GENERATORS & WORKS
CONTAMINATED SUBSTATION
TRANSMISSION AND HV22 TURNKEY
DISTRIBUTION SOLUTIONS
PROJECTS CABLE &
PACKAGING AFRICA
ZEST 24/7
WEG Group
POWER
SOFT STARTERS
EQUIPMENT
CUSTOM
ENGINEERED
SOLUTIONS
STEAM
TRANSFORMERS
SPECIALISTS
ENERGY
MOBILE
ENGINES
STEAM
CONTROL
AFRICA
TRANSFORMERS
CUSTOM
ENGINEERED
SOLUTIONS
QUALITY
ENCLOSURES
PLATEWORK
MOTORS
INTERACTIVE
WEBSITE
VIBRATING
ELECTRICAL MOTORS
CONSTRUCTION MARS
AUTOMATION
CATERPILLAR PARTS
TRAINING
INDUSTRY
SPECIALISTS
VARIABLE
SPEED
DRIVES
ZEST ENERGY
SERVICES
LOW VOLTAGE
SHAW CONTROLS
MOTOR CONTROL CENTRES
SOCIAL RESPONSIBILITY
WELL TRANSFORMERS AFRICA
HYDRO POWER

years of excellence



www.zest.co.za

BBBEE
LEVEL 4

Health & Safety

Safe and sustainable fire protection in the mining sector

One of the most imminent risks involved with mining operations is fire, which is a constant threat in numerous applications, ranging from the battery operated head lights used for underground mining, to fuel storage for mobile mining equipment.

A major obstacle to fire safety in the mining industry is that standard dry chemical powder (DCP) handheld extinguishers are specified onsite. Although DCP extinguishers are highly-effective in extinguishing flames, they offer minimal cooling properties. This results in re-ignition of flames, particularly in fuel and rubber fires, thereby increasing the risk of property damage and loss of life. Rubber fires can occur on conveyor belts, tyres, and plastic or rubber pipes. In this scenario, a first responder would typically use a number of DCP extinguishers to subdue the recurring flames, while waiting until firefighters extinguish it permanently.

The powder inside DCP extinguishers also compacts as a result of vibration when placed on a moving vehicle. This compacted powder creates the risk of malfunction when activated, creating further health and safety concerns. As a result, DCP extinguishers placed on mobile equipment need to be serviced more frequently, which results in higher costs for mining operations.



The small quantity of water used also results in little to no redundancy or damage

DCP extinguishers also pose serious operator and environmental hazards too. When used in confined spaces, they can affect operator visibility, and excessive powder inhalation can prove to be fatal. Discharged powder often ends up in water ways and filtration systems, causing contamination or blockages, and the discarding and clean-up process can be long and costly.

A more effective and environmentally-friendly alternative

Environmental solutions company I-CAT offers a range of Water Mist handheld fire extinguishers. Utilising water as the main agent and nitrogen as a propellant, this handheld range is capable of extinguishing most types of fire, including; rubber and plastic fires; kitchen cooking oil fires; diesel and petrol fires; and electrical fires rated up to 350kV.

Using patented technology from Europe, the atomised mist generated by the extinguisher gradually cools down a hot surface without causing thermal shock. I-CAT fire division manager Andro Gibhard said recently, "It creates a thermal heat radiation barrier between the operator and the fire, thereby preventing the operator from getting burned when operating the extinguisher."



The Water Mist extinguisher range

The Water Mist range is environmentally-friendly and ensures greater operator safety. Mr Gibhard said, "Each litre of water amounts to 120 m² coverage capability, making it extremely safe and efficient. What's more, the small quantity of water used also results in little to no redundancy or damage."



BABACAN RUBBER INDUSTRY is the one of major manufacturer of high-quality rubber spare parts for heavy equipment, construction and special machinery in the territory of Turkey. We produce chevrons, concrete pump pistons, shock absorbers, engine mounts, upper shock absorbers (for breakers), couplings, bellows, diaphragms, seals and specially ordered rubber products. We would like to invite you to visit us during

Exhibition BAUMA CONEXPO SOUTH AFRICA 2015 (15-18 of September 2015, Johannesburg).

Our stand number H6. A02. For detailed information you can look through our web-site.



1173 st. Num: 20-22 Ostim Ankara / TURKEY
Tel: +90 (0312) 354 23 77 - 385 49 10 - 369 11 11 368 22 22 - 369 33 33 Fax: +90 (0312) 354 01 94
www.babacankaucuk.com E-mail: info@babacankaucuk.com

Tools

SATcase connects oil & gas ops

In the ever-evolving world of the oil and gas industry, ensuring up-to-date communication is vital to aspects of exploration, drilling and production. Dangerous conditions often contribute to volatile situations and the SATcase, a revolutionary new device, can help to improve the safety of all involved on a project by enabling reliable communication.

Because most drill sites are in areas where mobile phone service is poor or even unavailable, the simplest, most cost-effective solution has previously been to employ the use of a satellite phone. However, satellite phones can be bulky and users are often frustrated by the need to carry multiple devices to take care of different tasks.

However, **SATcase** combines the functionality of the common smartphone with the capabilities of a satellite phone into one compact and durable unit, creating the perfect communications tool for both managers and workers. Working in conjunction with an app,

the ruggedised case makes calls simple and seamless. It has also been designed to stand up to the tough working conditions found at drill and exploration sites.

Information can be securely relayed the second conditions erupt that may have long-term consequences, and this enables companies to respond in ways that can save invaluable time and money. Additionally, in the event of a disaster, the device is equipped with multiple emergency functions that can facilitate rescue by land, air or sea. This includes an SOS button, two way rescue communications, online track and trace for live monitoring, silent alarms and infrared strobes.

Jim Thomson, founder and CEO of SATcase, commented, "We've used cutting-edge technology to develop a piece of equipment that will stand up to the impact of extreme outdoor conditions, yet also be capable of exhibiting outstanding performance."

Bosch impact drill and driver delivers performance at an affordable price

The economical **Bosch GSB 1080-2-LI** Professional Cordless Drill/Driver with impact function guarantees excellent performance in a range of applications. Bosch Industrial Power Tools SA senior brand manager Juergen Lauer noted recently that it is ideal for use on many different materials. He said, "The two-speed planetary gearbox producing 11 Nm of soft torque and 28 Nm of hard torque optimises performance for powerful screwdriving and drilling applications in wood and metal, and impact driving in masonry. What's more, 21 clutch settings also allow the user to fine-tune power delivered by the tool, thereby ensuring that it supports precise work."

The longevity of the Bosch GSB 1080-2-LI Professional's operating life is enhanced by Electronic Cell Protection (ECP). This system prevents the battery cells from overload in case of high current draws, monitors battery temperature to avoid overheating, and ensures the battery is not deeply discharged, protecting it against irreparable damage.

Further cost savings are achieved with a flexible power system. Mr Lauer said, "The tool is 100 per cent compatible with all Bosch 10.8V Li-ion battery packs and charges."



The Bosch GSB 1080-2-LI Professional



AECM
 ASSOCIATION
 OF EQUIPMENT
 MANUFACTURERS



Messe München
 International

FREE ENTRANCE FOR
ONLINE REGISTRATIONS
[www.bauma-africa.com/
register](http://www.bauma-africa.com/register)

**MEET.
CONNECT.
EXPAND.**





**bauma
CONEXPO**
AFRICA 2015

September 15-18
JOHANNESBURG EXPO CENTRE.
SOUTH AFRICA

International Trade Fair for
Construction Machinery,
Building Material Machines,
Mining Machines and
Construction Vehicles.

WWW.BCAFRICA.COM




MMI/BCA/Quirk/EM

Manufacturing

Moulding a more competitive future

Having already filled a gap in the market for polyurethane (PU) products in screening applications, **Aury Africa** has acquired an injection moulding machine to keep up with demand while minimising costs through local production. The new machine is being imported from China, and is expected to be fully installed and commissioned at Aury Africa's facility in Johannesburg, South Africa, by end-2015.

PU panels for screening and vibrating equipment are popular across a variety of industries, particularly those that screen materials such as quartz, silica sand and gravel, in addition to those that require panels for dewatering purposes.

Aury Africa MD Mark Houchinsaid, "This is a highly-competitive and price-sensitive market. We are planning to take advantage of this price-sensitivity with the introduction of our PU injection mould machine, which will greatly reduce our overhead costs and, in time, is expected to grow our market share substantially."

The PU products currently imported by Aury Africa, which will be manufactured locally with the new injection moulding machine, include;

- Modular wedge wire panels.
- PU cross-tensioned screen cloths.



- PU long slots.
- Punch plate screen panels with PU borders in 305mm x 305mm and 305mm x 610mm.
- PU screens in 305mm x 305mm and 305mm x 610mm.
- Wedge wire screen panels with PU borders in 305mm x 305mm and 305mm x 610mm.
- PU panels in 305mm x 305mm and 305mm x 610mm, including pin and sleeve.

Voith components for world-class mainline locomotives

A brand new fleet of 32 TG16M series double locomotives, currently being tested in Russia, are all fitted with advanced components manufactured and supplied by **Voith**. All locomotives are fitted with two Voith component sets, consisting of an L 530 breU2 turbo transmission, a cooling system, as well as highly-flexible couplings from the BR 152 and BR 199 range.

For this major order, Voith has equipped its newly developed cooling system with 'SilentVent' high-performance fans and weight and space-saving double block radiators. These parts allow maximum cooling output within the specified small installation space and ensure high power density.

The highly-flexible coupling in the driveline shifts the critical natural frequencies below the operating speed. This protects the system's components against critical vibrations and increases the service life and the availability of the driveline.

At the core of the driveline is the adaptable L 530 breU2 turbo transmission. In combination with the Voith Turbo drive control system and a CAN-Bus interface, it ensures high traction and optimal

efficiency across the entire output range of 1,000kW to 1,700kW. With considerable investment being placed in railway infrastructure upgrades in South Africa, Voith is well-positioned to add substantial value to this market with its tried-and-trusted, and internationally-recognised product offering.

"Voith will actively contribute to the development of regional industry by localising its manufacturing and sourcing of components," said Themba Makoti, projects co-ordinator for the local rail division.

Themba Makoti, rail division projects co-ordinator, speaks of Voith's commitment to local transportation



Demolition

Bobcat loader demonstrates versatility and flexibility

The **Bobcat** S550 skid-steer loader is used effectively around the world for demolition projects. One example is the recent rental by UK firm MTS Plant Hire & Sales Hughes & Salvage Demolition, one of the UK's leading decommissioning companies, to demolish a British landmark, Castle Market in Sheffield.

The Bobcat S550 loader as supplied by MTS, has proved to be a vital piece of equipment. Due to its compact size, it has been able to work easily in the confined spaces inside the market, collecting debris and rubble with the Bobcat grapple attachment also supplied by MTS.

Demolition work began with careful asbestos removal, followed by a 'soft strip', with the superstructure now being demolished down to the concrete, with 98 per cent of the waste material being recycled. Some elements of the demolition have had to be carried out by hand with steel plates utilised to protect and preserve the ground under the structure.

With its ability to turn around in its own length and fast cycle times, the Bobcat S550 skid-steer loader provides the manoeuvrability and productivity needed to do more work in less time than other types of equipment. Together with controls that allow for precise movements



even in the tightest of spaces, Bobcat compact loaders such as the S550 model ensure safe, efficient operation at all times in areas inaccessible to traditional machines.

Watermaster
Amphibious Multipurpose Dredger

- Restore shallow waterways
- Clean urban canals and prevent floods
- Remove invasive vegetation
- Maintain tailings ponds

www.watermaster.nl

SimbaPay offers international access to M-Pesa PayBill

A mobile application transforming the international remittance space, **SimbaPay** now allows Kenyans living abroad to make M-Pesa PayBill payments. M-Pesa PayBill has previously only been available to **Safaricom** M-Pesa subscribers in Kenya and allows the subscribers to pay hundreds of vendors via M-Pesa. By SimbaPay granting PayBill access to its customers, Kenyans abroad can now also pay hundreds of vendors and utility companies in Kenya directly via M-Pesa PayBill.

Nyasinga Onyancha, CEO at SimbaPay, commented, "Our customers want to pay vendors in Kenya faster and without having to go through friends and family. This new product allows them to do just that, especially for time sensitive payments such as those to hospitals, stock brokers and the like."

SimbaPay customers will not require a Safaricom phone number or M-Pesa registration to pay vendors via PayBill as is currently the



A Pay Bill wizard screen in the SimbaPay iOS app

case for M-Pesa subscribers living in Kenya. SimbaPay charges zero fees for its instant money transfers to M-Pesa PayBill numbers.

Kenyans living abroad with a bank account, debit card or credit card will be able to use the SimbaPay app to make M-Pesa PayBill payments from any mobile phone, tablet or computer. Transfers made using SimbaPay to M-Pesa PayBill numbers are credited instantly.

For ease of use, the majority of M-Pesa PayBill numbers and vendors have also been pre-loaded on to the SimbaPay platform which eliminates the need for customers having to remember a vendor's PayBill number. At the time of making an M-Pesa Paybill transfer using SimbaPay, customers will be required to select the

vendor to be paid and then enter their account number with the vendor. For example if paying a hospital bill, the patient number will be required.

Advertiser's Index

Company_name	Page_no	Company_name	Page_no
Aquamec Ltd.....	97	Liebherr Export AG	75
Aury Africa (Pty) Ltd	87	Magni Telescopic	83
Babacan Rubber	94	Handlers Srl	
Industry And Trade Ltd. Co.		MAN Truck & Bus AG.....	19
BCI Banco Comercio e.....	23	Mantrac Egypt.....	85
investimento		Messe München	95
Caterpillar Inc. - Energy.....	2	Metalgalante S.p.A.	29
Ciber Equipamentos	7	Multotec Group	89
Rodoviários Ltd		NLMK Plate Sales SA	77
Clarke Energy Ltd.....	37	Pan Mixers South	79
Conybrid Limited	73	Africa (Pty) Limited	
Doosan Infracore	11	Panafrican Group	92
Eko Hotel and Suites.....	39	Head Office	
Ethiopian Airlines	100	Polana Serena Hotel	45
Enterprise		Quarry and Mining (RAK) LLC ..	69
F G Wilson Engineering Ltd..	15	SDLG - SWE.....	13
Guava International Ltd	25	SDMO Industries	99
Helukabel GmbH	41	Spedag Interfreight Ltd.....	33
IIR Exhibitions	47	Surveillant Fire Ltd	31
J. S. Corrugating	80	Talleres Nunez SA	91
Machinery Co. Ltd.		Trojan Battery Company	43
Jessop & Associates (Pty) Ltd..	81	Varisco Spa	90
Kirloskar Brothers Ltd.	17	Videotec SPA	27
Kirloskar Oil Engines Ltd.....	9	Volvo Construction	5
Komatsu	21	Equipment AB	
Legrand	53	YelloGen Ltd	34
Leister Technologies AG	78	Zest WEG Group	93

Subscription Form

I wish to subscribe to
AFRICAN REVIEW OF BUSINESS AND TECHNOLOGY
 for 1 year (11 issues) starting with the next copy.
 Europe € 107, Kenya Ksh 2400, Nigeria N4400,
 South Africa R299, United Kingdom £73, USA \$140

Enclosed is my cheque/draft Please send us the invoice

Please debit my: Amex Visa Mastercard

Card number:

Expiry date: / Security Code:

(Please note that we will debit your account in sterling).

Name..... Position.....

Organisation.....

Telephone..... Fax.....

Address.....

Country Signed.....

Email: Date:

Send this subscription form by airmail together with cheque payable to:
 Alain Charles Publishing Ltd, University House, 11-13 Lower Grosvenor Place London, SW1W 0EX, UK

Subscription order can also be placed via the web: www.alaincharles.com or email at circulation@alaincharles.com

YOUR JOB TITLE/FUNCTION

- 01 Corporate Management
- 02 Government/Municipal, Public Services Executives
- 03 General Management
- 04 Technical Management
- 05 Others, Please specify

YOUR BUSINESS

- 01 Government/Public/Diplomatic Services
- 02 Infrastructure
- 03 Educational/Research Institutes
- 04 Industry/Manufacturing
- 05 Agricultural & Agro Industries
- 06 Commercial Services
- 07 Building/Construction/Mining
- 08 Import/Export Agents, Distributors
- 10 Commercial Transport
- 16 Others, Please specify



ENERGY SOLUTIONS

Any power rating, Any Application

SDMO can supply electrical energy to meet your every need. SDMO's fifty years of experience in the generating set industry have been dedicated to safety and reliability through innovation. From standard offers to custom products and installations, SDMO provide from 1kVA to 200 MW versatile, high-tech energy solutions which can be tailored to all situations. SDMO, Energy Solutions Provider.



Energy Solutions Provider

www.sdmo.com

SDMO Industries - 12 bis rue de la villeneuve - CS 92 848 - 29 228 Brest Cedex 2 - France - Tel. +33 (0)2 98 41 41 41 - Fax +33 (0)2 98 41 63 07



Cloud Nine
every day we see
the rewards
of success

COME SEE
THE WORLD
AS WE SEE IT

www.ethiopianairlines.com

Enjoy comfort and style that's on a
league of its own aboard our
Cloud Nine - Business class



Ethiopian
ኢትዮጵያ

THE NEW SPIRIT OF AFRICA