



CEMENT & BUILDING MATERIALS REVIEW

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صيانة الحرارية مرة واحدة كل سنتين ؟





Arab Union for Cement and Building Materials



**24th Arab International Cement Conference and Exhibition
(AICCE24)**

المؤتمر والمعرض العربي الدولي الرابع والعتشرون لصناعة الإسمنت

القاهرة - جمهورية مصر العربية

November 2019

Cairo - Egypt

**AUCBM
General Secretariat**

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- *The Magazine editorial staff welcome the contribution of experts to enrich the contents of the magazine .*
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- **Rawmix Chemical Control**
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AUCBM's *Quarterly Cement and Building Materials Review (CBMR)*

EDITORIAL SCHEDULE FOR 2019

ISSUE	THEMES	EVENTS
March 2019	<ul style="list-style-type: none"> - Sustainable Development - Environment Protection - Alternative Fuels - RDFs / SRFs - Cleaner Production in Cement Industry - Filters, Baghouses & Dedusting Equipment - Emission Monitoring & Gas Analysis - Energy Saving - Case Studies 	
June 2019	<ul style="list-style-type: none"> - Bagging, Packaging & Dispatch - Loaders & Unloaders - Feeder Technology - Bulk Storage and Handling - Storage of fuel - Conveyors, Bucket Elevators - Occupational Health & Safety - Coal Preparation and Firing 	
* September 2019	<ul style="list-style-type: none"> - New types of cement - Low carbon cement - White cement - Concrete - XRF and XRD analysis - Chemistry of cement - Cement additives - Silo Cleaning & Blockages - Silo design consideration - Drive systems - Weighing technologies - Sampling Techniques & Samplers 	<p>AUCBM's 24th Arab International Cement Conference and Exhibition (AICCE24)</p> <p>Cairo, Egypt November 2019</p>
December 2019	<ul style="list-style-type: none"> - Lubrication Systems - Maintenance in Cement Plants <ul style="list-style-type: none"> - RCM (Reliability Centered Maintenance) - Computerized Maintenance System CMS - Repair and welding techniques - Spare-parts Management 	

	<ul style="list-style-type: none"> - Vertical Mills - Crushers - Coolers - Burner Technology - Refractories & testing of refractories 	
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* September is a bonus issue that will be distributed to the Conference participants

Deadlines for receiving articles, press releases, or advert materials for 2019 issues are as follows:

March issue: **1st March 2019**

June issue: **28th May 2019**

September (bonus) issue: **30th August 2019**

December issue: **6th December 2019**

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ARAB NEWS

ALGERIA

Cilas Group exports cement from Algeria to West Africa

Cilas Group, a partnership between Algerian investors and LafargeHolcim, dispatched 20,000 tons produced in Djemoura commune via railway to Annaba to be exported through the Port of Djendjen.

The batch is the first of a total of 60,000 tons to be exported to West Africa by the company. Cilas Group intends to reach a cement production capacity of 2.7 million tons per annum by 2020, with two million tons going to the export market.

Cemweek

Zahana Cement orders crusher from Bedeschi

Zahana Cement, part of Groupe des Ciments d'Algérie (GICA), has ordered a RL 850/1500 double roller crusher from Italy's Bedeschi. The contract is on an engineering, procurement and construction (EPC) basis and it includes the supply of the new machine, designed for 500t/hr of marl, the removal of the existing machine and the installation of the new crusher with the revamping of the existing electrical board. Commissioning is expected by mid-2018.

Global Cement

EGYPT

Kima to sell National Cement land to pay off debts

The Egyptian Chemical Industries Company (Kima) plans to sell the land belonging to National Cement within the next year. Company CEO said that the bankrupt cement producer owns over 300 hectares of land. Selling the assets is part of the Ministry of Public Business Sector's strategy to pay the former cement producer's debts including worker salaries. The sale is expected to generate up to US\$39m.

Global Cement

Suez Cement procures evaluation of Helwan Cement

Evaluation is a step in the process of selling a white cement plant owned by Helwan Cement. However, the now closed facility's future remains uncertain.

CemWeek

Gebr. Pfeiffer expands subsidiary in Egypt

Germany's Gebr. Pfeiffer is expanding its Gebr. Pfeiffer Egypt subsidiary. The local company was founded in 2015 after a sustained presence in the country. The engineering company has now decided to enlarge its

subsidiary to meet current and anticipated customer demand. It intends to turn Gebr. Pfeiffer Egypt into a regional hub for Gebr. Pfeiffer customers from across the Middle East and African (MEA) area.

The local company is led by managing director Ahmed Essam. The services offered by the office team will now include sales, production and delivery, project management, supervision and aftersales and additional customer services.

Global Cement

IRAQ

Al-Rafidain cement plant (Iraq) recovers from war damage

Factory was stripped down by the Islamic State.

CemWeek

OMAN

Oman cement presents new brand identity

Oman Cement presented its new brand identity, which also includes a new logo. The company introduced a new way of conveying the strength and usefulness of its products.

"Our vision and goal can be stated in two simple words – Building Oman. We want to be the leading producer of cement in Oman and the larger Gulf region, respected for the quality of its products and services and for the way it conducts its business", said the chairperson of the company.

On the other hand, the Company's board of directors agreed to move ahead with the construction of an integrated cement plant at Duqum. The unit will have a clinker production capacity of 5000t/day and an expected investment of US\$212m. The project is being financed by the company and its shareholders. Previously the project was linked to Raysut Cement as a joint venture run under the Al Wusta Cement brand. The company also inked agreement with Oman Environmental Services Holding to use tires as alternative fuel.

Raysut Cement to set up waste-heat recovery unit

With the help of Chinese contractor Sinoma Overseas Development, Raysut Cement will install the first waste-heat recovery unit in Oman. With this investment, the company hopes to slash its current power costs by 30 percent.

CemWeek



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Raysut Cement to invest in India

Raysut Cement Company wants to invest USD 700 million in India by 2022, including USD 200 million that will be used in the acquisition of a majority stake in two Indian cement producers, to take place in the first quarter of 2019.

The large investment in India is part of the Company's plans to expand its production capacity to 20 million tons. Raysut Cement is also scouting opportunities in the African market.

The Company is also looking to acquire ARM Cement of Kenya for an estimated value of \$100 million.

CemWeek

Fives and Suez part of consortium to develop industrial complex at Duqm

Four French investors and technology suppliers, including Fives and Suez, have created a syndicate to develop business opportunities in the Special Economic Zone Authority of Duqm. The other partners are CMA CGM and EDF Renewables. The companies intend to assess various investment options in the area and develop them. In particular, the syndicate has an interest in a 'global approach to cement factory ecosystems' and related facilities including transport facilities, a solar power generation plant and the production of alternative fuels.

Global Cement

PALESTINE**Al Jouf Cement signs exports deal to Palestine**

Saudi Arabia's Al Jouf Cement has signed a deal with Sanad Trading and Marketing to export 50,000t/yr of cement and clinker. The deal follows a memorandum of understanding that was signed between the companies in August 2018.

Global Cement

Northern Cement to turn Saudi Arabia into white cement net exporter

Company wants to reach neighboring markets, but also places like Australia and the Americas.

CemWeek

QATAR**Qatar National Cement starts production of white cement**

Qatar National Cement Company has started producing white cement after it obtained the necessary licenses for the product. It will be sold in 50kg bags and in bulk.

Global Cement

SAUDI ARABIA**Al Jouf Cement makes first export to Yemen**

Saudi Arabia's Al Jouf Cement says it has completed its first export to Yemen. It transported 9000t of cement.

Global Cement 01/10

Southern Province Cement signs deal to sell 20,000t of cement to Yemen

Southern Province Cement has signed a deal to sell 20,000t of cement to Yemen. The deal will last for three months. It started in early December 2018 with the export of a 7000t consignment.

Global Cement

Tabuk Cement signs deal to export 6000t of cement to Yemen

Tabuk Cement has signed a memorandum of understanding to export 6000t of cement to Yemen. The agreement has a duration of three months.

Global Cement

City Cement reaches settlement with Sinoma International

City Cement's Al Madina Cement subsidiary says it has reached a final settlement with China's Sinoma International about the construction of a second production line. The parties have agreed an 8% discount on the total cost of the project worth around US\$11m. Trial operation on the second line at the plant was originally announced in late 2014.

Global Cement

UAE**Ras Al Kaimah (UAE) turns to renewable energy**

Ras Al Khaimah is the northernmost Emirate of the UAE, with a relatively small population (300,000 people compared to three million in Dubai), the Emirate is known for its power intensive industries, including cement.

The Emirate hopes to increase the renewable's share on its energy mix to 20 percent in the coming years, saving 30 percent in generation costs. Ras Al Khaimah is a latecomer on UAE's plans to boost renewable power generation.

The industrial sector consumes around 40 to 45 percent of the 5.3 terawatt-hours generated in the Emirate every year.

CemWeek

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Brief

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Maintenance

- Quick intervention.
- Good preparation.
- Planning of shutdowns.
- Very short time execution period.



GM, National Cement Company: We Pay Keen Attention to Occupational Health and Safety in Yemen.

National Cement Company (NCC) attaches great importance to occupational health and safety. NCC even believes that its leadership must bear the primary responsibility for providing care and paying particular attention to its staff.

From that standpoint, NCC is committed to providing a safe and healthy working environment for all its employees and workers within its production lines as well as technical, administrative and service departments. NCC also applies all preventive measures in order to minimize and reduce incidents, injuries and damage that may threaten the safety of the employees.

Add to this, NCC adopts an aspirational philosophy and a vision, focusing its primal attention on the cadres. Therefore, NCC implements intensive and sustainable programs to promote and establish the concept of safety as responsibility that should be seen as the culture, practice and behavior of all NCC employees from the lowest end to the top of the employment hierarchy.

In his interview with Cement & Building Materials Review, during 23rd Arab International Cement Conference and Exhibition held in Jordan during November 2018, Eng. Abdul-Jalil Abdullah Al-Maqraei, NCC General Manager, said that in order to provide health care and occupational safety for its employees and workers and to preserve its assets, properties and the rights of the owners, NCC has been working on "training and qualifying its employees in the field of occupational safety through internal and external courses. It continuously carries out quality courses and keeps abreast of qualification and training programs that are constantly evolving and creative". Eng. Al-Maqraei affirmed that NCC, a company affiliated to Hayel Saeed Anam Group in Yemen, is providing integrated medical care to all employees, including the provision of central medical clinics with a distinguished medical staff working for 24 hours. In addition, NCC conducted contracts with 60 hospitals in all Yemeni governorates.

He added, "An early warning fire network has been installed in accordance with the American specifications of the National Fire Protection Association (NFPA). Moreover, FM-200 internal fire suppression network and system have been set up in accordance with the American specifications of NFPA".

All required types of personal protective equipment have also been provided for workers and employees in the production and technical sites. This contributes to the enhancement of efficiency and readiness of security and safety services in accordance with international conditions and standards.

He also pointed out that a Fire Unit has been established and equipped with a trained fire-fighting team to deal with emergencies such as fire, natural disasters and industrial incidents.

NCC General Manager stated that the Company has emergency plans, and it constantly analyzes functional risks and takes remedial actions. It aims at creating a safe and healthy working environment to minimize incidents and injuries among its workers and employees. He aptly remarked that the concept, "Safety is everybody's responsibility", lies here.

Eng. Al-Maqraei concluded by stating that, "NCC places its potential in the field of occupational health and safety. It contributes to serving the surrounding community by providing help and assistance in the event of any fire or disasters, whether on the roads or elsewhere".

Mondi wins multiple honours for its printing expertise

French & Italian flexo printing associations recognise Mondi with three awards

Vienna, 16 January 2019 - Mondi's printing prowess – on both paper and plastic – is garnering attention for the third year in a row from Europe's leading flexo printing associations.

The juries of the French Association of Flexography (ATF Flexo) and the Italian Technical Association of Flexography (ATIF) both bestowed awards on Mondi recently, in recognition of the company's bag-printing quality and expertise.

Paper offers a natural look, and, of course, is a renewable resource, adding to a product's sustainability story. However, it still needs to look good – and the judges agreed that Mondi achieved that through its precision printing.

Printing quality is vital, as the look and feel of the package – whether on store shelves or when delivered to customers via e-commerce – is a direct reflection on the brand in the minds of end consumers. Projecting a quality image helps to reinforce brand credibility and can help to boost sales.

On December 13 in Paris, ATF Flexo presented Mondi with two awards – a Gold Flexostar award in the “Printing on Paper” category

for its Dog'Croc Chien Adult bag made for French animal nutrition specialist Sopral. It also took home a Silver Flexostar in the “Printing on PE Film” category for its hybrid film/paper Canicaf dog-food bag made for Paris-based customer Néodis. The French competition attracted 135 entries from 38 companies.

The Dog'Croc Chien Adult bag stood out for its extremely precise printing of a dog and child image on the package. The glossy, four-ply, pinch-bottom bag incorporated seven colours as well as lamination. The two-ply, pinch hybrid open Canicaf bag for Néodis, meanwhile, involved accurately printing seven colours on polyethylene film.

“We are proud to win these awards,” said Christian Latorre, Managing Director of Mondi Lembacel SAS in Bétheniville, France, “because the jury consists of printing professionals from across our industry. These honours also shine a further light on our Bétheniville plant, which already has an excellent reputation for its printing quality. “Mondi is devoted to leveraging its printing expertise to help its customers and their products look their very best,” added Latorre. This marks the third straight year

that Mondi has been honoured by ATF Flexo for its printing excellence. (Press release April 2017)

Separately, ATIF in Italy bestowed honours on Mondi in the “Printing on Paper” category for its innovative line of dog food packaging based on Mondi's FlexziBox concept. The awards ceremony took place on November 20 in the venue known as Spazio Hera in Bologna, Italy.

This is the second year in a row Mondi has won a printing award from ATIF in the category “Printing on Paper,” after taking home the first-place prize in 2017 for the high-quality printing on one of its self-standing, open-mouth bags. This year, the award-winning product (REAL NATURE Crafted Choice) was produced for our customer Mera Tiernahrung GmbH, which supplies private-label pet food to the German retailer Fressnapf Tiernahrungs GmbH.

Mondi Padova, near Bologna, did the award-winning printing and laminating onto paper reels and then shipped the material to Mondi's plant in Steinfeld, Germany, to be converted into bags.

ATIF's annual “Best in Flexo” printing awards competition in Italy



Photo with Mondi people:

On the left: Thierry Usaluppi, Ink Technician, Mondi Lembacel SAS

On the right: Christian Latorre, Managing Director, Mondi Lembacel SAS

includes 12 different categories (printing on film, paper, and corrugated paperboard, in different widths), and the 2018 ATIF jury assessed more than 130 total entries. For each category, a jury of experts analysed the main printing parameters and quality, before selecting first-, second- and third-place winners.

About Mondi Industrial Bags

Mondi Industrial Bags, a business segment of Mondi Group, is the leading international producer

of industrial paper bags¹, selling around 5 billion bags per year. Thanks to its broad range of bag specifications, Mondi Industrial Bags serves major industries including cement and building materials, chemicals, food, feed and seed. The business segment operates a dense sales and service network, the specialised filling equipment department Natro Tech, as well as its Bag Application Centre, where researchers develop and test innovative packaging solutions.

¹ Based on sales volume. Source: Eurosac, Freedonia World Industrial Bags 2016 study prepared for Mondi and management estimates.

About Mondi

Mondi is a global leader in packaging and paper, delighting its customers and consumers with innovative and sustainable packaging and paper solutions. Mondi is fully integrated across the packaging and paper value chain - from managing forests and producing pulp, paper and plastic films, to developing and manufacturing effective industrial and consumer packaging solutions. Sustainability is embedded in everything Mondi does. In 2017, Mondi had revenues of €7.10 billion and underlying EBITDA of €1.48 billion.

Mondi has a dual listed company structure, with a primary listing on the JSE Limited for Mondi Limited under the ticker MND, and a premium listing on the London Stock Exchange for Mondi plc, under the ticker MNDI. Mondi is a FTSE 100 constituent, and has been included in the FTSE4Good Index Series since 2008 and the FTSE/JSE Responsible Investment Index Series since 2007.

www.mondigroup.com

LATEST CHALLENGING EPC PROJECT IN MALAYSIA WITH YTL CEMENT SHORT TIME EXECUTION AND THE BEST TECHNOLOGY BY CTP

CTP Team have been awarded a turnkey project for air pollution control in Malaysia for the conversion of Existing PL1 Raw Mill Electrostatic Precipitator to Fabric Filter and Upgrading of Existing Exhaust Fan

CTP Team has just signed a turnkey contract with YTL Cement, for the conversion to bag filter of an electrostatic precipitator of Perak-Hanjoong Simen's cement plant in Pedang Rengas, Malaysia. YTL Cement is the fastest growing cement company in Malaysia specialized in the production of Cement products, with fully integrated operations across the complete manufacturing value chain.

The challenging project consists of a full turn-key solution for the conversion into a more efficient Bag Filter of the existing ESP, a 740,000 m³/hr Unit installed downstream Kiln & Raw Mills of Line 1. The conversion will abide to the current footprint on foundations with the minimum impact on steel structures, ducting and dust transport system. The new filter will reduce the emission limits below 10mg/Nm³ within June 2019. Countdown is already started. The target is to meet the government requirement for the control of dust emissions within a very short period of time and drive the cement plant to a safe and competitive position.

As part of an environmentally friendly strategy, YTL Cement has chosen CTP as provider of the Best Available Technology in the market, with the aim to reduce the dust emissions well below the limits imposed by the local regulation. In this respect, the unit will be equipped with SWAP technology, that is CTP's advanced cleaning system with low pressure air. The system reduces pressure drop of bags with minimum consumption of compressed air, with further benefit to OPEX for the Operator.

With the fundamental support of its own local agent, Shinco Industrial Equipment Sdn Bhd, CTP has maximized the cooperation with local suppliers and authorities, in order to shorten the execution time and provide a competitive solution, an important step forward for CTP and Shinco strategies in the Malaysian market.

About CTP Team Italy

CTP is a leading engineering and manufacturing Company with 50 years of experience in components to Cement Plants for their EP & EPC projects, in the field of Air Pollution Control Systems, Dust Collectors, Filtration and equipments, Chemical Treatments, Heat Exchangers and Waste Heat Recovery (WHR).

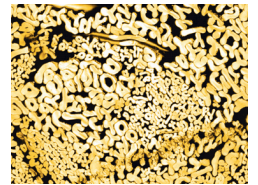
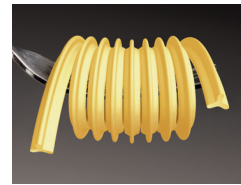
CTP designs different types of customized installations to meet Customer's needs and expectations, with strong understanding of cement production process and relative equipment. In addition to its headquarters in Milan, Italy, its manufacturing workshop is located in Turkey with a team of 140 personnel. CTP can ensure its customers prompt assistance from its qualified teams that can operate in emergency to minimize downtime of the plant.

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HYCONTROL New Website

Level measurement experts Hycontrol are pleased to announce the launch of the company's new, totally re-designed website. The site, www.hycontrol.com, has been completely rebuilt to provide users with a faster, modern browsing experience.

Besides showcasing Hycontrol's extensive level control, silo protection and foam management product ranges, the website has been created to provide far more industry- and application-specific information. The site also features extensive video content, easily-navigable downloads, and much more. The site has been built to respond to increasing web use on mobile and tablet devices, as well as desktop computers.

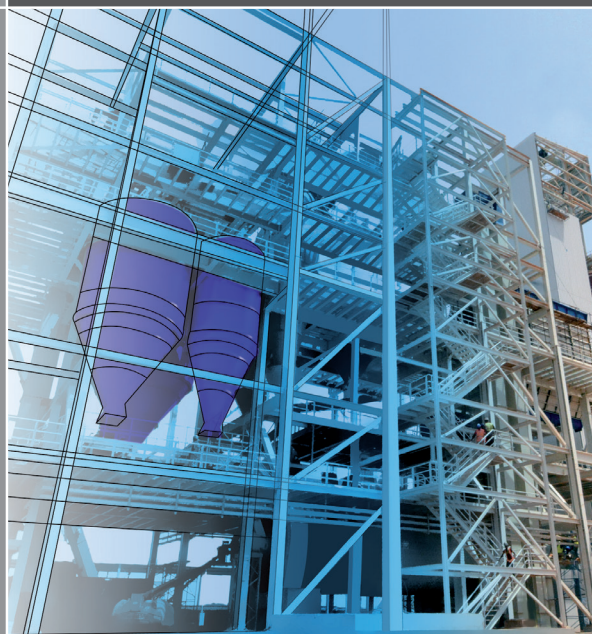
Over time, Hycontrol will be adding even more content to the site, including further videos, FAQs, applications and white papers. The intent is to develop a comprehensive online depository of Hycontrol's four decades of knowledge and experience.

Hycontrol's Managing Director, Nigel Allen, said: "The new website gives us an opportunity to not only provide a better web experience for our customers, but to actively engage with users from a whole range of industries around the world. Feedback from our customers and distributors has been fantastic so far!"

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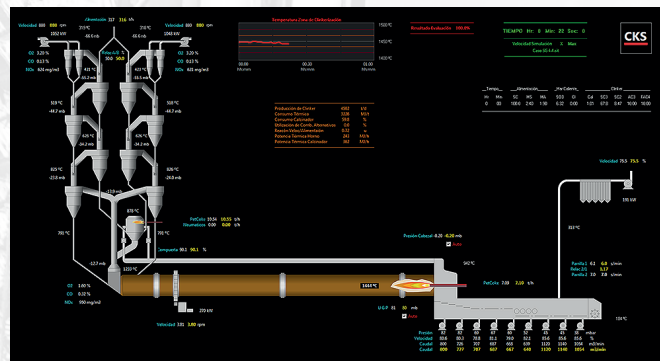
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VORTEX APPOINTS NEW REPRESENTATIVE AGENT FOR EGYPT

Vortex Global Limited, a solids and bulk handling components company, is pleased to announce the appointment of ALRIAD International Agencies & Trading as its new representative agent for Egypt.

Founded in 1982, ALRIAD International Agencies & Trading is an Egyptian Ltd. headquartered in Cairo, Egypt. The company's mission is to be a trusted agent that represents high-quality, international brands. ALRIAD takes pride in being accessible to its customers, in order to deliver guidance, consultation and support in choosing industrial machines and technologies. With leading innovation brands and technologies, ALRIAD is Egypt's leader for industrial applications across different manufacturing sectors.

Primarily, ALRIAD operates in the pharmaceutical, cosmetics, chemical, commodities, fast-moving consumer goods (FMCGs), and textile industries. They work closely with customers that come from different backgrounds, in order to cater to their needs through customized solutions for sophisticated projects.

Mr. Ashraf Salama at ALRIAD International Agencies & Trading will be the main point of contact for Vortex's Egyptian customers. He can be contacted directly via mobile at +2 0122 213 4751, or by email at ashraf.salama@alriad.org.

For more information about ALRIAD International Agencies & Trading:

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Cairo, Egypt 11361

Tel: +2 02 24150964

Email: ashraf.salama@alriad.org

Web: www.alriad.org

Fax: +2 02 2291 8236

About Vortex:

For more than 40 years, Vortex has provided slide gates, diverter valves and loading solutions specifically designed for the handling of dry bulk solids in gravity, vacuum, dilute or dense phase applications. Vortex products are engineered for quality, dependability, durability, and ease of maintenance, making them proven material handling solutions for issues in process efficiency. Through the expertise of Vortex engineers, valves can be completely customized for individual applications or special installations.

Vortex Global Limited

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DL1 1GY – United Kingdom

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VORTEX ANNOUNCES NEW REPRESENTATIVE AGENT FOR THE UNITED ARAB EMIRATES, OMAN & QATAR

Vortex Global Limited, a solids and bulk handling components company, is pleased to announce the appointment of Renene CPE Service (FZE) as its new representative agent for the United Arab Emirates, Oman and Qatar. With this appointment, Renene CPE Service (FZE) will now be responsible for creating customer relationships, arranging site visits, and following up on Vortex customer enquiries received throughout these countries.

Renene CPE Service (FZE) was established in 2015 and currently employs a staff of 12 process engineers. Renene engineers have extensive experience in the dry bulk solids industry, as they have serviced the cement, steel, aluminum, food and mining process industries for nearly 14 years. Renene's expertise includes process engineering and design, plant layouts and mechanical design, instrumentation and control engineering, retrofit engineering services, and fabrication and welding engineering.

For more information about



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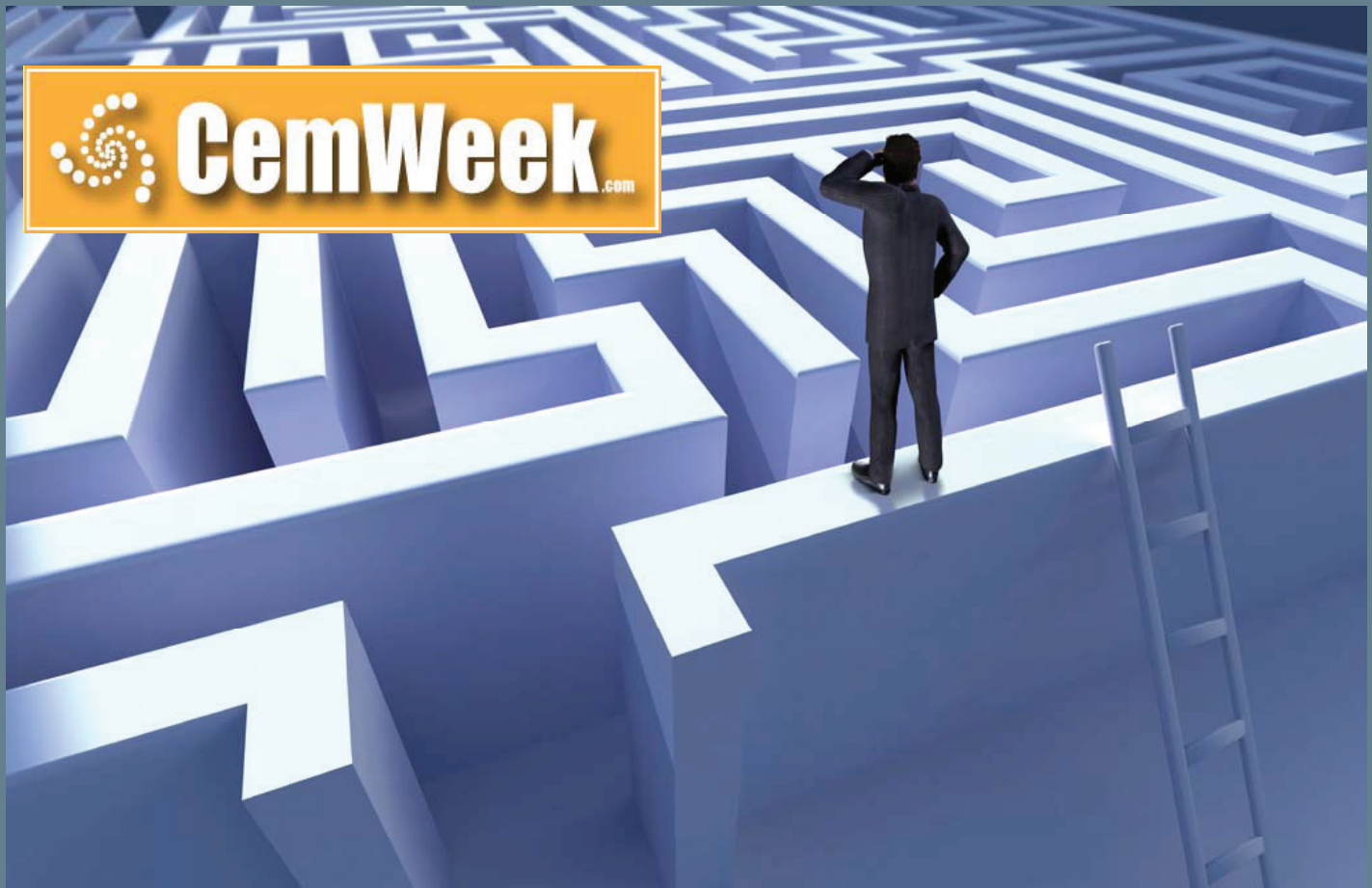
Y1-079, Saif Zone

Sharjah, United Arab Emirates

Tel: 00 971 50 603 9988 & 00 971 55 864 9439

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Schenck Process acquires Process Components Ltd

Industry-leading brands kemutec, KEK-GARDNER, PPS Air Classifier Mills and mucon are now part of Schenck Process' offering

The Schenck Process Group continues its growth: Today, Schenck Process announced the acquisition of Process Components Ltd ("PCL") and its subsidiaries – including Kemutec Group Inc. in the US – with its well-known brands kemutec, KEK-GARDNER, mucon and PPS Air Classifier Mills, from EPIC Private Equity.

PCL is a UK based designer and manufacturer of powder processing and handling equipment, components and spare parts, serving the Food, Pharmaceutical, Chemical and Environmental industries. The product portfolio of PCL comprises the brands:

- KEK- GARDNER: founded in 1860, recognized for milling and sieving as well as mixing and blending technology.
- PPS Air Classifier Mills: founded in 1980.
- mucon: founded in 1946, the "hoover" of the Iris Valve world.
- kemutec: founded in 1980, globally recognized for powder processing equipment and systems.

Jay Brown, President Food, Chemicals & Plastics at Schenck Process, commented: "The acquisition of PCL with its very well established product lines, a large installed base as well as a great reputation of its brands KEK-GARDNER, PPS Air Classifier Mills, mucon and kemutec enriches the expertise and capabilities of Schenck Process. We are delighted to add key process steps in the area of mixing, milling and classification for our customers."

Anthony Goodwin, Managing Director of PCL who will continue to lead the business in its next phase of growth as part of the Schenck Process Group, added: "By consolidating our product portfolios with Schenck Process, we are excited to round off our supplied solutions towards offering complete systems to customers throughout the Food, Chemicals, Pharmaceutical and Environmental Industries, thereby marking an important step in both companies' growth plans."

The parties agreed not to disclose the financial terms of the transaction, which is financed by existing funds on balance sheet.

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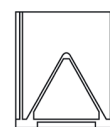
Are you looking to supply markets faster or are you seeking to conquer new markets?

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IBAU HAMBURG is your ideal provider when it comes to cement – whether it is terminals, ship unloaders, EPC-contracting, silo conversions, as well as cement, raw meal or multicompartiment silos. Find out more at ibauhamburg.com

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Spare parts and assistance, all on-line at SACMI S.P.A.C.E.

Provided by the SACMI Customer Service Division, the portal offers a new, advanced package of services: everything from user manuals to support, training and personalised technical, sales and administrative services

SACMI S.P.A.C.E. (Sacmi Portal for Aftersales and Customer service Excellence) is the new integrated system for managing SACMI supplies and orders. Promoted and developed by the SACMI Customer Service Division, the platform consists of an advanced service package that provides customers with close support right from the very first stages of ordering and, subsequently, throughout the working life of the machine or plant.

This operation sees SACMI bring together a set of services already widely available via its Global Network, from assistance - before, during and after sales - to fast spare parts delivery. In addition to Daily Lifetime Support, the range of services includes advanced packages such as Life Extension, Academy and Advanced Lifetime Support, services that can stretch beyond the normal working lifetime of the machine to include replacement and/or revamping of specific parts or entire lines.

This means customers can count on close support right from the

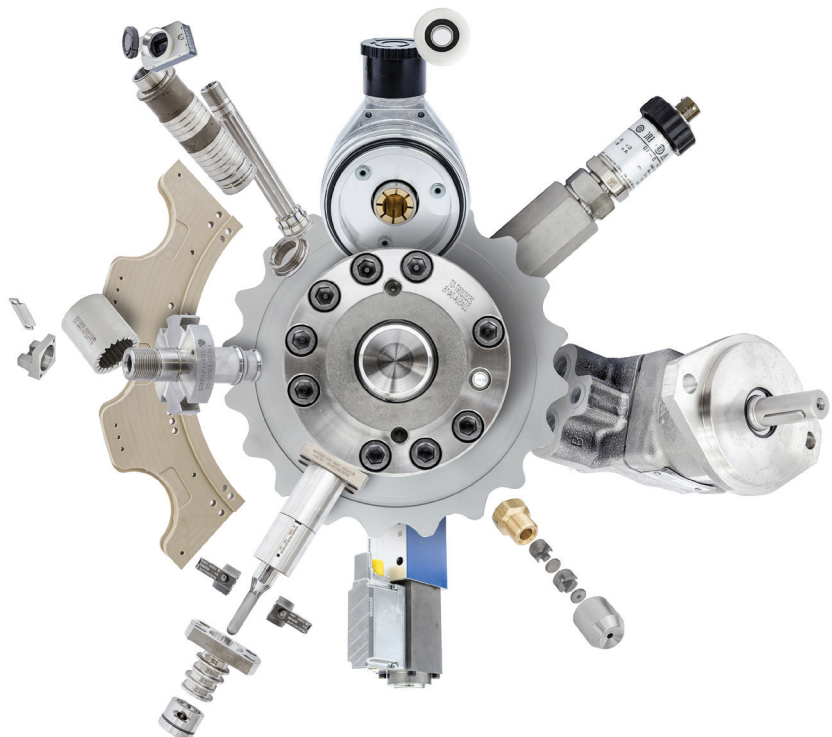
design stage, receiving training and vital info on e-Learning platforms. Later, they receive production management support thanks to Audits performed by senior technicians and dedicated Maintenance Engineering services.

In this sense, the new **SACMI S.P.A.C.E.** portal plays a pivotal role. Its extensive menu provides full technical documentation on all machines (SACMI E-Docs), including upgrades and new implementations, and a complete package of administrative services (E-Invoice, E-Pay). It also comprises E-Support and E-Learning services that, with the assistance of highly qualified SACMI personnel, give worldwide access to assistance and training.

Another key aspect of the SPACE portal is personalisation. Customers can, in fact, access a reserved

area to manage order details and administrative procedures (invoicing etc.) or directly request, on-line, remote or on-site technical assistance services, performed by specialised personnel.

At Tecnargilla 2018, dozens of SACMI customers had the opportunity to attend a presentation of the new services and portal. Now, SACMI's goal is ensure as many customers as possible become familiar with the new platform as SPACE, together with SACMI 4.0 technologies and services, extends smart manufacturing principles and opportunities into every sphere of customer assistance.



VDZ Training Courses Overview 2019

Process Technology of Cement Production

Module 1: Raw Material Preparation and Grinding Technology 11 – 15 March 2019

Topics:

- Raw materials extraction and homogenisation
- Grinding technology
- Impact of grinding systems on cement properties
- Optimisation of grinding equipment



Module 2: Clinker Production and Material Technology 18 – 22 March 2019

Topics:

- Clinker production and burning technology
- Alternative fuels and effects on burning process
- Clinker formation and clinker phases
- Clinker properties and effects on product qualities



Simulator Training

25 – 29 March 2019

Topics:

- Heating up and operating the kiln
- Operation of the raw, cement and coal mills
- Optimising production
- Managing process disturbances and special situations



Plant Maintenance and Refractories Course

3 – 7 June 2019

Topics:

- Maintenance inspection and measurement solutions
- Online machinery diagnostic and vibration analysis
- Non-destructive testing (NDT) and analysis
- Refractory materials and installation



Process Operator Training

2 – 20 September 2019

Topics:

- All main production steps from quarry to cement grinding
- Material technology and emissions abatement
- Simulator training
- Refractories

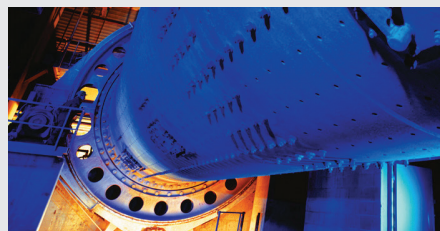


Crash Course for Young Engineers

2 – 6 December 2019

Topics:

- Clinker and cement production
- Chemistry and mineralogy
- Concrete technology
- Product quality assurance



Almost all courses take place at the VDZ's premises in Duesseldorf, Germany.
For further information and booking visit www.vdz-online.de/en/training

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Saving energy across the board

BEUMER Group provides Turkish cement manufacturer OYAK Denizli Çimento Sanayii T.A.Ş. with Pipe Conveyor

By: BEUMER Group GmbH & Co. KG, Germany

Cement manufacturer OYAK Denizli Çimento Sanayii T.A.Ş. relies on BEUMER Group Pipe Conveyors for environmentally safe and fast feed of alternative fuels.

The manufacture of cement is particularly energy-intensive and to cement manufacturers energy efficiency is a very important factor. In order to ensure an economical and sustainable operation, the plant Denizli Çimento Sanayii T.A.Ş. of the cement manufacturer OYAK Group therefore opted for alternative fuels and raw materials to ignite the preheater, the calciner and the main burner. Within the scope of this concept, Denizli Çimento decided to invest in an individual system from the AFR systems segment (alternative fuels and raw materials) of BEUMER Group, which stores, mixes and conveys differently composed materials, such as shredded waste tyres. The core of this solution is represented by the two Pipe Conveyors used in this project. These completely enclosed conveying systems ensure an environmentally safe, dust-free and low-energy transport of fuels and raw materials requiring – and this is the most important factor – a minimum level of personnel. This AFR system of BEUMER, investment of the plant Denizli Çimento, has been running since January 2017 and has proved to be a particularly efficient and economical solution.

The Turkish cement market is booming. From the third international airport in Istanbul, to the motorway between Istanbul and Izmir and many other large infrastructure, urban redevelopment and residential construction projects; the need for this building material is immense and is expected to grow continuously in the years to come. Manufacturers like the OYAK Group will obviously have a large share in implementing these infrastructure projects. This important cement manufacturer Denizli Çimento Sanayii T.A.Ş. is located in West Anatolia in the Aegean and is a subsidiary of OYAK Group.

Secondary instead of primary fuels

For the successful production of cement, the manufacturer puts a particular focus on the cost effectiveness of the process. "Our industry has always been energy-intensive," says Mr Berkan Fidan, deputy factory manager at OYAK Denizli Çimento Sanayii. "But it is also a factor that can be adjusted." In 2015, the

company representatives came together and decided to produce more efficiently and sustainably in order to minimise the use of expensive primary fuels such as coal, gas and oil. The aim was to gain a large part of the necessary energy needed from alternative fuels. These materials comprise differently composed fuels for the calciner and the main burner, the so-called residue-derived fuels (RDF), as well as shredded waste tyres whose size usually does not exceed 120 x 120 mm.

The operation's existing plants had not been designed for this. "We needed a partner who supplies and installs a single-source solution. The different materials are to be stored, mixed and conveyed to the preheater tower and the main burner within this system," explains Mr Güngör Aydın, project manager at Denizli. In his search, the cement manufacturer looked to BEUMER Group. "In the past, the system supplier BEUMER had installed a bucket elevator in the plant for a different project," he said. "We are very satisfied with it and have made only good experience so far."

The contract was signed only one month after BEUMER Group had received the customer's inquiry in October 2015.

Ideal solution for each case

In order to support producers of cement in the alternative fuels and raw materials field, BEUMER Group has developed a complete business segment dedicated to AFR systems. "Our know-how and our tailor-made systems permit us to offer optimum support to our customers," says Mr Michal Hrala, Managing Director at BEUMER Group Czech Republic. "We have years of experience and we always consider our customers' specifications". As a system provider, you have to be able to supply and install the entire chain from acceptance and unloading of the delivery vehicle, to the storing, conveying and feeding process of the solid alternative fuels for the specific user. A single source can supply the entire system to the end customer who therefore only needs one contact like BEUMER.

"We evaluated different variants of mechanical transport systems," remembers Mr Berkan Fidan. In the end, OYAK Denizli opted for a single-source solution from BEUMER Group based on the innovative Pipe Conveyor

technology (Pic 1). In May 2016, CTN MAKİNA, a supplier approved by BEUMER, manufactured all of the steel components for the system and started assembling both the imported components and those manufactured on site. BEUMER Group installed two conveyors, 206 and 190 metres long, as well as the corresponding equipment for the two lines. Each Pipe Conveyor reaches a capacity of 15 tons per hour (Pic 6). "This conveying technology is not only eco-friendly but requires low maintenance," describes Mr Michal Hrala of BEUMER Group. "Its enclosed type of construction protects the environment safely from material falling down and from emissions (Pic 2). Another advantage is the lack of dust development on the running line". With its ability to navigate horizontal and vertical curves, the Pipe Conveyor can be optimally adapted to the terrain (Pic 4). In comparison to other belt conveyors, the number of required transfer towers is considerably lower. This allows for substantial capital cost savings for the customer and BEUMER Group can customise the system to the individual routing (Pic 3).

The specialists from BEUMER Group also took care of the project planning of the storehouse and the required equipment as well as numerous conveyors and supply lines. BEUMER also handled the supply of mechanical equipment and the steel structure, the assembly and commissioning. On top of that, BEUMER Group installed two containers with discharge devices in front of each Pipe Conveyor ensuring an optimum mixture of the fuels. A container for distribution is also installed at the end of each conveyor.

Efficient single-source system

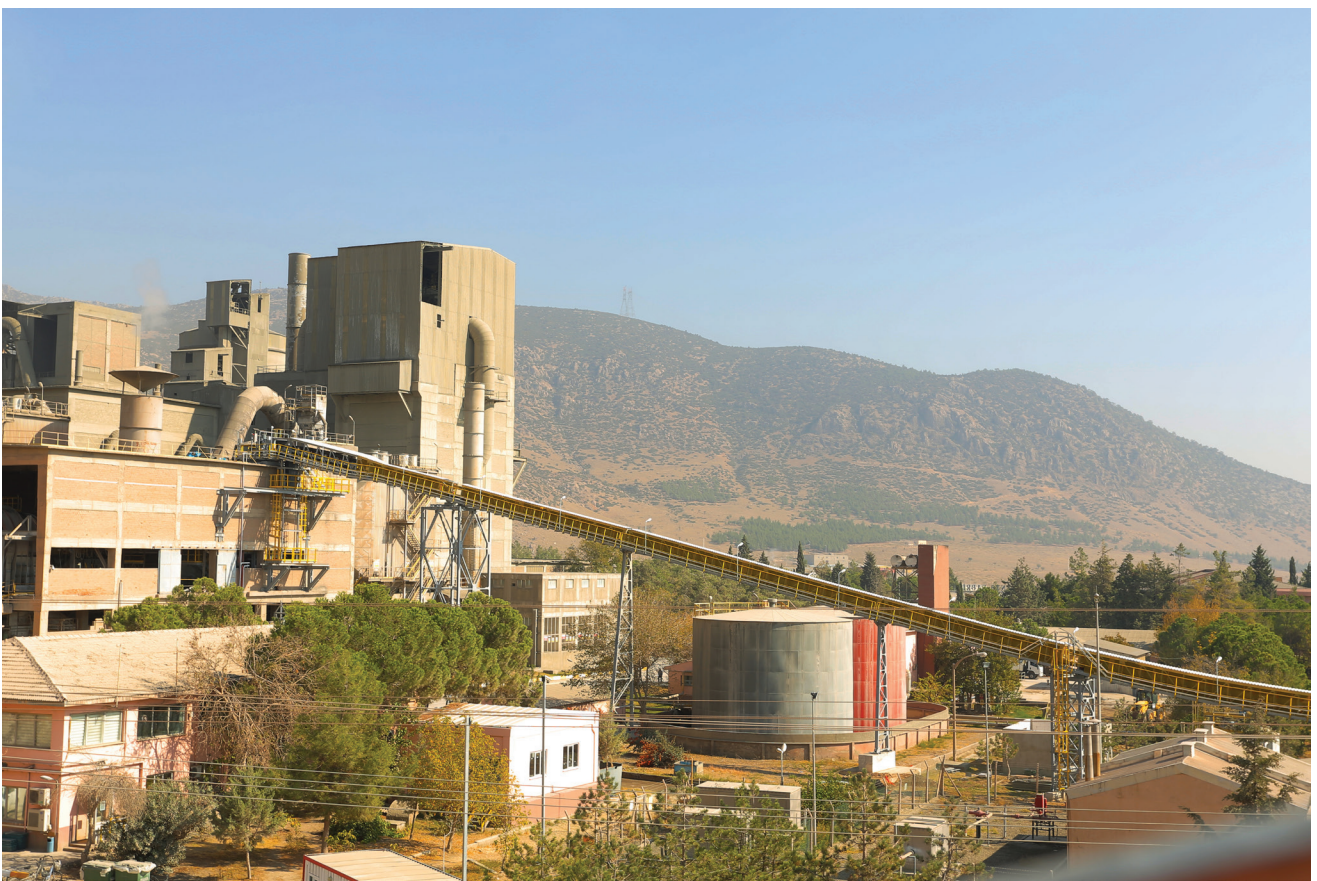
The delivery of the RDF material is carried out in moving-floor trailers. The alternative fuels are unloaded and stored at the receiving station. All four containers for arriving material are fed with material from the storehouse by a grab crane. The different fuels are then burnt in the calciner and the main burner of the kiln (Pic 5).

"However, during the constructive dimensioning of this system we were faced with a particular challenge," remembers Mr Michal Hrala. "Since the cement plant is located in an earthquake-prone area, we had to develop the system accordingly." That means: The design of the Pipe Conveyor ensures that the conveyors withstand not only the dynamic load of an earthquake but also the repercussions. The existing preheater towers represented another hurdle. As they only offered little space, the BEUMER Group employees adapted the required equipment to the narrow conditions.

In October 2016, barely one year after the contract was signed, the commissioning of the system took place. "We are very satisfied with the single-source system of BEUMER Group," Mr Gngr Aydin, project manager at Denizli, sums up. All transport systems supplied and the accompanying equipment are intertwined to ensure steady fuel feeding. "Not only do we save costs by requiring a smaller amount of expensive primary fuels, we also work much more energy-efficiently," he declares. "This means that our capital costs will have paid for themselves in a short amount of time."



Picture 1: BEUMER Group supplied and installed a single-source solution based on the innovative Pipe Conveyor technology.



Picture 2: *The conveying system is eco-friendly, requires low maintenance and its enclosed type of construction protects the environment safely from possible material falling down and emissions.*



Picture 3: *The Pipe Conveyor transports the alternative fuels from the storehouse to the preheater.*



Picture 4: *With its ability to navigate horizontal and vertical curves, the conveyor can be optimally adapted to the terrain.*

Picture 5: *The second line transports fuels to the main burner.*



Picture 6: *Two successive conveyors, 206 and 190 metres long, are used. Each Pipe Conveyor reaches a capacity of 15 tonnes per hour.*

When we look to future....relook to the basics

Rawmix Chemical Control

Eng. Osama Aly Ahmed Engineering Consultant

The chemical control of rawmix is required in order to ensure that the rawmix components (at their simplest, limestone and clay) are in the right ratio to make clinker of the desired Alite content. To achieve this, a feedback control system is almost always used. This consists of taking a sample of the rawmill product, analysing it, and depending upon the deviation of the result from the "set point" value, to make a change to the feeder(s) up-stream of the mill. The strategy for making changes to the mill feed varies considerably with the system of plant employed, but the objective is always to keep the chemistry close to the target value, and equal to the target value on average, without any excessive "cycling".

Control schemes

The chemistry of the rawmix at the mill outlet varies because of random changes in the composition of the components and in the amount of each fed to the mill. Irrespective of the cause of a variation, the purpose of the system is to make appropriate changes to the mill feed to restore the target composition. The time taken by the process critically affects the success of control. A change in the raw material feed may take some time to appear at the outlet. Ball mills have a residence time of 15-25 minutes, and this is considerably increased if a closed-circuit with high recirculation is employed. Other mills have smaller lags: only a few minutes in the case of a roller mill. Once taken, the analysis sample has to be processed and analysed. Simple methods can do this in 10 minutes or so, and instrumental techniques for full analysis can be turned around in a similar time if automated. Finally, a decision must be made as to the feed-rate changes needed, and the changes implemented. The tendency for the system to produce cyclic variations, or even catastrophic out-of-control situations, increases with the "process lag" - the sum of these delay times.

A further complication arises from lack of precision in the chemical analysis. In addition to the "inherent variability" of the system (due to raw material changes and feeder faults), adjustments made on the basis of incorrect information may result in "induced variability", so that the overall "perceived variability" is the vector sum of the inherent and induced variabilities and the measurement error. Analytical errors arise from

three main causes:

- random errors in the actual analysis
- random variations in sample preparation
- random errors in sample gathering

Even in the days of the more primitive test procedures, and certainly today, sampling errors are the most significant, and analysis errors the least. However, sampling is often a "Cinderella" in the allocation of capital spending on analysis systems.

In general, the best way to compensate for the unavoidable measurement errors is always to sample, analyse and adjust the process stream as frequently as is economically feasible. In the automation of the chemical control loop, it is often found that less precise but more frequent data (with correspondingly smaller and more frequent process adjustments) yields better control.

In addition to controlling the rawmill product, a control strategy has to consider the down-stream effects of the blending system. Where there is an elaborate blending system, tight control of rawmill feed is less necessary, and in some systems cycles are deliberately induced, although performance is always best if the amplitude of these is minimised. The performance of the blending system is monitored by sampling and testing at each stage.

Although the amount of feed adjustment might vary, the sense of the adjustment is straightforward enough when a simple pair of raw materials is involved. An early tester, obtaining a "high" carbonate result (i.e. the clay content is low) would increase the clay feed, and continue adjusting it until the carbonate target value was obtained. The situation with more than two feed materials is more complex, and generally involves selecting test results that will isolate the effect of each material. Where more than three components are put into the mix, as was common from the mid-20th century onwards, deducing the adjustments required for each, based on a full analysis, is a mathematical problem that can only be solved satisfactorily by computer. In combining this calculation with the dynamics of the control system, a convergent iterative approach is usually most effective. Linear programming principles are often involved, and a high degree of mathematical

proficiency is needed for the design of the control algorithms.

Chemical analysis techniques

For the first thirty years of the industry there was no chemical control at all: the components were weighed out (or more usually measured by volume) more or less accurately. By aiming for a composition yielding equal amounts of Alite and Belite, the chances of making excessive free lime or lower silicates were minimized, but variations in the composition of the individual mix components meant that the mix was still very variable and prone to serious failures. Chemical control began with the use in Germany of the calcimeter in the early 1870s. This apparatus measures volumetrically the amount of carbon dioxide evolved when acid is added to a dried sample of rawmix. This quantity is more or less proportional to the calcium content (although errors occur if the amount of magnesium carbonate or non-carbonate calcium in the mix changes). The method started to be used in Britain in the 1880s – the delay being due to the total absence of competent chemists in the industry before then – and was by 1900 employed in most large plants. Around 1900, an alternative method arose – that of treating the dried rawmix with a slight excess of standard acid, then back-titrating the excess with standard alkali. This obtained essentially the same result as the calcimeter, and was subject to the same errors, but was simpler and quicker – the calcimeter required careful measurement and compensation for temperature and pressure. It began to displace the calcimeter after WWII, the delay being mainly due to pure inertia. By either method, the calcium carbonate content of the rawmix could be estimated with a precision of 0.25% or better, and, given the facilities for control, allowed control of the final carbonate content of the mix to 0.5% or better. This represented a dramatic improvement over rule-of-thumb non-chemical methods, bringing at least the short-term variability of clinker potential Alite content down from around 25 to around 6.5, and thus allowing Alite levels to be safely raised.

Longer term variations could still occur due to changes in the composition of the rawmix components – particularly the clay, which is prone to changes in the silica/alumina ratio. Simple “carbonate control” could still work, provided that such changes were slow, and the detailed analysis of the clinker was performed regularly. In typical twentieth century practice up to 1970, clinker would be subject to a “full analysis” (at least SiO, AlO, FeO and CaO contents) every day, by qualified analysts. The rawmix would be analysed for “carbonate content” by a “tester” at several points in the rawmix preparation process at least hourly. On

the basis of the trends in the clinker analysis, the tester’s “carbonate target” would be adjusted as often as necessary to keep the clinker Alite content more or less constant. The situation was more complex where more than two components were being used in the rawmix. This was initially rare but became more common during the twentieth century. The tester’s calcimeter reading could only be used to control the amount of high-carbonate component in the mix. If this was being combined – say – with a mixture of shale and sand, then these two had to be kept in a constant ratio until a “full analysis” became available. Rarely, a more desperate option was to employ qualified chemists for rawmix control around the clock, using a “high-speed” (i.e. corner-cutting) classical technique. Rawmix would be clinkered, and analysed gravimetrically for silica (once per shift), and titrimetrically for iron and calcium (four times per shift), allowing – in theory – control of a four-component mix. More frequent testing, although needed, was not possible by this method.

The earlier classical analysis techniques were slow (if done properly) and might not be available at weekends, so this process had inconveniently long time lags. The use of instrumental techniques was intended to speed the process up. Colourimetric methods for measurement of SiO, AlO and FeO were first on the scene in around 1960, but atomic absorption and XRF techniques followed shortly afterwards. The colourimetric and atomic absorption methods were still fairly lengthy “white-coat” laboratory techniques, but XRF revolutionised the situation, in that a “full analysis” could be completed in 20 minutes or less. Furthermore (although this involved a long period of cultural change that is still not complete) the XRF spectrometer could be operated by non-chemists and be placed outside the formal laboratory setting, in the midst of the process plant. Despite its high cost, the very high productivity of an XRF (doing anything up to 800 analyses per week) means that it is now standard equipment on every cement plant.

X-ray Fluorescence Spectrometry

XRF gradually evolved after WWII. The technique involves irradiating a flat specimen of the material to be analysed with “white” (i.e. broad, continuous spectrum) x-rays from an x-ray tube operating usually at an EMF of 20-70 kV. The incident x-rays cause the specimen to fluoresce, emitting x-rays of lower energy that have specific sharply-defined wavelengths characteristic of the elements present. Detectors arranged around the specimen sort and measure the intensities of the emitted x-rays, and a computer performs the extremely complex calculations that convert these measurements into analytical data. Typically seven or eight elements

are measured, but should it be necessary, more can be included, and XRFs measuring up to sixteen elements routinely are not unknown.

In addition to the high cost of the spectrometer, costly sample preparation equipment is also necessary, typically doubling the cost of the installation overall. This is because sophisticated techniques are required to ensure that the material exposed at the flat face of the specimen is completely homogenous and representative of the sample. There are two broad techniques of sample presentation, both of which are typically used. The "cheap and cheerful" method is to grind the material to be analyzed to below about 5 μm , and press it in a die at 100-400 MPa pressure, to form a flat-faced "pellet".

Measurements on this can be highly precise, but can have poor accuracy unless complex ad hoc continuous calibration processes are used. The more accurate (but slower and more expensive) technique is to dissolve the sample in a molten lithium borate glass at around 1100°C., and cast the resulting liquid into a flat-surfaced "bead" in a platinum/gold mould.

By producing a homogenous, non-crystalline glass, this technique renders the sample into a form that is independent of the sample's mineralogical history, and because it can be calibrated with pure chemicals, yields an "absolute" analysis. Typically, both techniques are used, with "pressed pellets" producing fast, high-productivity results, and "glass beads" supervising the accuracy of the pressed pellet calibration.

Take-up of XRF as a technique was slow because the cost of the equipment was daunting, but mainly because the poor standard of calibration and operation in the early days made the technique seem second-rate. Successful production of high-accuracy data requires a high degree of specialized knowledge in the supervision of the instrument. In an early, notorious case, an expensive instrument was used un-calibrated with the operators controlling rawmix to an "x-ray intensity target". While dressed up as a no-nonsense, practical approach, this was merely an expression of the low competence of the plant personnel. Another problem was that the early instruments were not provided with enough computer power to handle the complex matrix correction calculations necessary for accuracy. By 1970, there were 7 instruments in place on large plants. Smaller plants could not justify the expenditure, but these gradually disappeared, and by the end of century, all plants had at least one. Modern software allows the straightforward application of "fundamental parameter" corrections, providing accuracy, for many elements, better than any other technique.

Practically ever since XRF became available in the 1960s, attempts were made to use it "on-line", provided with

samples from automatic samplers, and feeding back results into a control system without human intervention. The early attempts were failures, but sufficiently reliable systems began to be installed on new cement plants from the late 1970s onward, the key factor being the development of systems by the kiln equipment suppliers – notably Polysius and FLSmidth, who recognised that in the future such systems would be part of the standard equipment of a cement plant. There are two competing approaches: a small "ruggedised" instrument directly attached to the process stream, or an "auto-laboratory" in which automated sampler(s), automated sample preparation and automated XRF instrument are run by a robotised laboratory. The first suffers (usually) from compromises in precision, and the latter from slower sample turn-around leading to longer process lags.

Prompt gamma neutron activation analysis

Systems using automatic samplers, conveying materials to a central robotised sample preparation and analysis module, still stand or fall by how representative the sample is of the process stream. This presents major problems, particularly where analysis is attempted on materials that have not yet been ground. This has led – from around 1995 onwards – to the use of an alternative technique. Prompt gamma neutron activation analysis (PGNAA) produces a similar element-specific spectrum – this time of gamma rays, and instead of stimulating these with x-rays (which can only penetrate a few micrometres into a sample), neutrons are used. Most light elements are nearly transparent to neutrons, so a neutron beam can penetrate a mass of material a metre or more in thickness. The PGNAA analyzer can be wrapped around a vertical chute or a horizontal conveyor belt on which the entire process stream is being carried. This avoids the sampling problem, and allows, for example, the entire feed to a rawmill (consisting of crushed rock, say 50 mm down in size) to be analysed. A typical PGNAA analyser produces analyses every minute, and these data can be fed back to the mill feeders to control the ratios of rawmix components on the run. The fast reaction time of the system means that less money need be spent on complicated arrangements for blending out the variations in the rawmix after the rawmill.

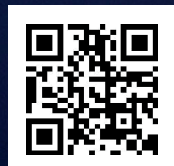
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Production of sharp-sized grades from naturally moist sands

By: Dipl.-Ing. Sigurd Schütz; RHEWUM GmbH Remscheid

The requirements of the premixed plaster industry for the production of up to five sharp-sized fractions mean dealing with various processes in order to meet the needs of this difficult to screen material.

An Italian manufacturer of different grain sizes for well-known producers of premixed plasters approached RHEWUM with the objective of sizing 80 t/h crushed dolomite flour into the fractions 10.0 mm, 3.5 mm, 2.25 mm, 1.6 mm and 1.0 mm.

The mineral grades contained in premixed plaster are usually extracted at quarries and then usually crushed in a jaw crusher. After that the produced bulk materials are classified and made available for further production. The moisture of the feed material may vary widely due to rainfall and temperature changes and can be as high as 10 wt. % - which makes screening difficult. Also, the concentration of the moisture in the fine fractions and the not inconsiderable clay content cause trouble in the processing.

On linear motion vibrating screens the indicated task led to immediate blinding of the screening cloth. Accordingly, extensive tests were performed in the process circuit plant at RHEWUM GmbH. The only practicable screening solution was a screening machine with direct excitation of the screen cloth driven by unbalanced motors.

These provide the user with the advantage of an extremely high acceleration of the screening surface. This is achieved thanks to the low masses that must be accelerated. Unlike with linear-motion vibrating screens where the entire machine is set in motion, in this type of screen the machine frame remains static. Only the screening surface is vibrated, but these vibrations are of a higher frequency, leading to higher acceleration at the screening surface. This has advantages in the separation of critical materials, in respect of particle size as well as keeping the screening surface open. Furthermore, no dynamic loads are transmitted to the building. The aggregate can consequently be equipped with fixed flange connections and without compensators. As due to the drive principle no immediate blinding of

the screening surface with the naturally moist material was observed, a higher material moisture was simulated artificially with the additional spraying of water. Even at a moisture content of 4.5 wt. % the screening surface was still reliably kept clear. But with this water content, chain cleaning was necessary.

Subsequently another test was performed, also with a directly excited screen, but this time with an electromagnetic drive. The background to this drive concept change is the useful inharmonic oscillation of the screening surface by electromagnets. This drive with electromagnets has considerable advantages for materials heavily prone to agglomeration.

In addition, a cleaning impulse ensures that the screening surface remains free. During the cleaning cycle, the magnet draws the hammer to the final position of the screen casing at maximum acceleration, then the hammer hits the casing. This generates additional excitation of the screening surface that keeps the cloth clean.

The motivation behind these tests was the maintenance friendliness of the unbalance motors available today in contrast to the high investment for electromagnetic drives. After three months of continuous operation, the screening surface of the electromagnetically driven machines were open and ready for operation (Fig. 1) whereas that of the unbalance driven screen was blind (Fig. 2).

The optimal solution in this case was a combination of different processes: The feed material is separated at 10.0 mm in the feed section on co-vibrating strainer bars (Fig. 3). The feed is sized at 3.5 and 2.25 mm on a screen driven by an unbalance motor – a simple and cost-effective alternative to electromagnetic drives. Critical cuts at 1.6 and 1.0 mm are performed on a directly excited screen with electromagnetic drive.

An additionally installed electrical screening surface heating with a required maximum power of 30 kW permits the heating of the screening surface to above 100° C. This temperature prevents the caking of moist

finer to the screening surface. To adapt the energy consumption to the varying water content of the feed material, the heating system can be switched on or off. As only the critical part of the feed is dried, the consumption of primary energy is lower than at common drying solutions. Additionally, an automatic chain cleaning system was installed. This reduces the inevitable wear of the screening surface to a minimum. Thereby, an optimal solution was found for screening this critical material.



Figure 1: Screening surface after three month of continuous operation with a magnetic drive.

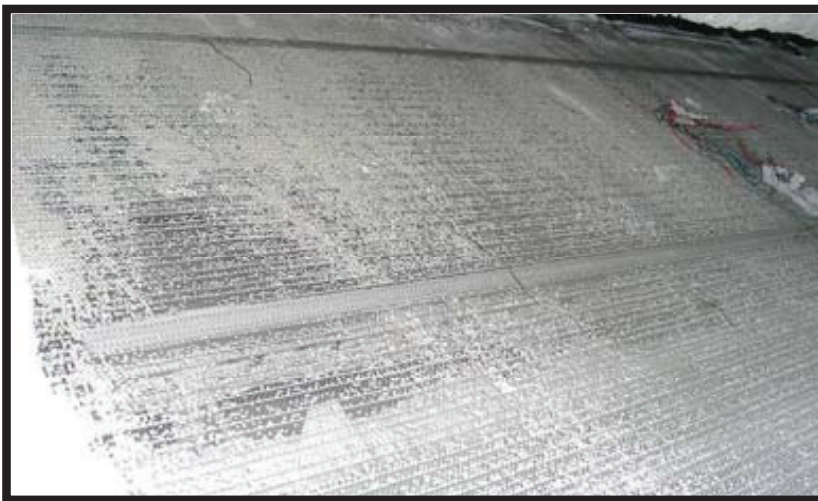


Figure 2: Screening surface after three month of continuous operation with an unbalance motor.

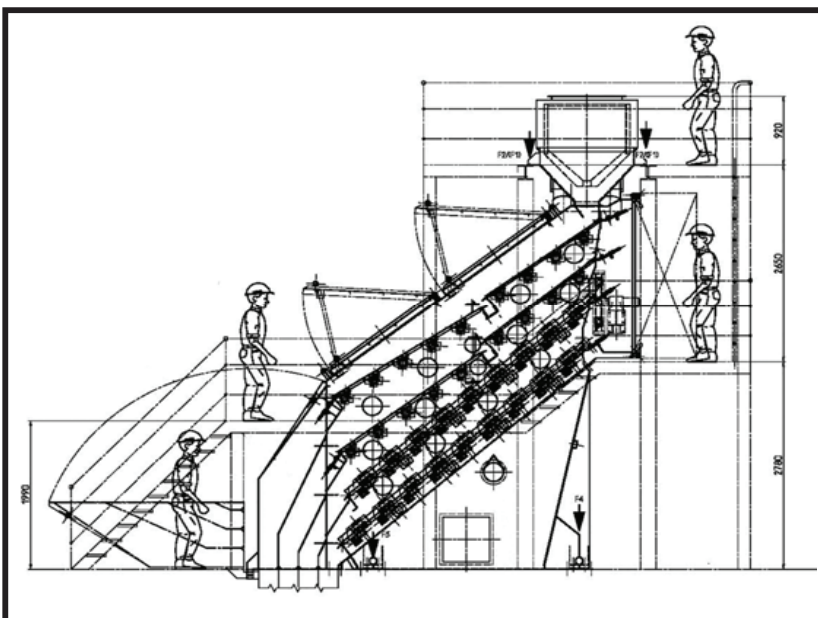


Figure 3: Dimensions of the machine installed.

“The AUMUND Difference” A Chain is not just a Chain!

Industry has many choices today for conveyor chains. Most available chains are designed for a certain strength rating and expected wear life. However, there is much more to chain design than these basic parameters. AUMUND, being a conveyor specialist, has designed their chains to meet the demand of certain heavy production industries, based upon more than 40 years of experience, with over 18,000 machinery references in more than 140 countries. AUMUND assists not just to buy just a suitable chain, but the best chain for the application.



The Original: AUMUND Bucket Elevator chain (photo AUMUND)

The chains used for those industries, not only meet the strength and wear requirements, but years of refinements to the design, also address the unique requirements of a large ball mill circuit bucket elevator or high capacity steep pan conveyor. AUMUND chains consider a wear life based upon actual pin/bushing pressures and the material conveyed, not just the thickness of the

wear treatment on a pin or bushing, and the strength rating also considers the fatigue requirements in specific and well experienced applications.

These considerations not only have resulted in the best technology for the chain product line, as designed, but also in the thorough knowledge required to make the best selection from such an extensive chain product line, which is equally important. Many suppliers cannot offer this support and advice.

AUMUND has more heavy duty, highly rated chains in operation than any other supplier, such extensive experience takes AUMUND beyond pure metallurgy and mechanics for chain design and application. There is an art, as well as a science to the design and application of critical heavy duty chains for the industries AUMUND serves.

About the AUMUND Group

The AUMUND Group is active worldwide. The conveying and storage specialists have special expertise at their disposal when dealing with bulk materials. With their high degree of individuality, both its technically sophisticated as well as innovative products have contributed to the AUMUND Group today being a market leader in many areas of conveying and storage technology. The manufacturing companies AUMUND Förder-technik GmbH (Rheinberg, Germany), SCHADE Lagertechnik GmbH (Gelsenkirchen, Germany), SAMSON Materials Handling Ltd. (Ely, England), as well as AUMUND Group Field Service GmbH and AUMUND Logistic GmbH (Rheinberg, Germany) are consolidated under the umbrella of the AUMUND Group. The global conveying and storage technology business is spearheaded through a total of 15 locations in Asia, Europe, North and South America and a total of five warehouses in Germany, USA, Brazil, Hong Kong and Saudi Arabia.

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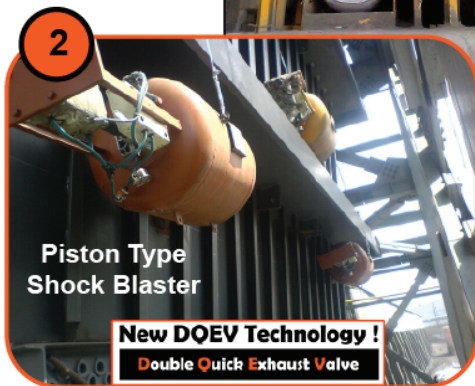
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SK Automatic Big Bag Filling Station With Lifting System



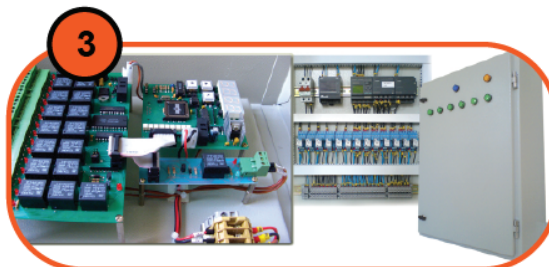
SK Cement Packer



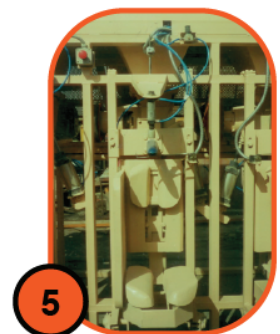
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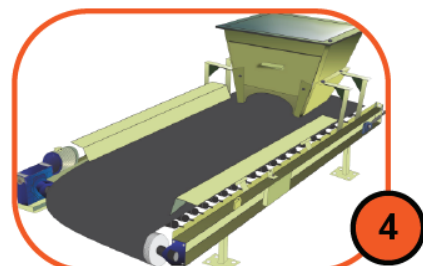
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Control unit for Vibratory Feeder LABORETTE 24!

Reliable Automatic Sample Feeding



Vibratory Feeder
LABORETTE 24



V- and U-shaped chan-
nels easy to interchange

The [Vibratory Feeder LABORETTE 24](#) is ideal for automatic, uniform feeding of free-flowing materials into sample dividers, mills or mixers in your laboratory. The vibration, which is controlled by a microprocessor, conveys the sample material out of the funnel over the V or U-shaped stainless steel channel into the respective equipment.

The flow rate can be individually adjusted; the vibration amplitude is precisely controlled – for absolute uniform feed of even smallest quantities. Safe and reliable.

Suitable for both: coarse and fine materials which can be conveyed reproducibly with a material feed between 1 g/min up to 2.500 g/min.

Your advantages with the NEW control unit:

- ⊕ Setting of the maximum feed quantity in the setup mode by the user
- ⊕ Adjustment of the feed intensity and time via display
- ⊕ Fine adjustment of the material flow even of smallest quantities
- ⊕ Reproducible setting of the feed rate, when changing the material
- ⊕ Digital display of the set feed rate in percent
- ⊕ Digital and RS232 interface

The NEW control unit is compatible with your old Vibratory Feeder LABORETTE 24. Take advantage of the NEW control unit!

[Tests, comparative measurements and additional information on the NEW control unit for the !LABORETTE 24 can be found here](#)

Perfect sample feeding

- ⊕ For uniform feeding of free-flowing materials of laboratory instruments
- ⊕ Suitable for both coarse and fine materials
- ⊕ Flexible application with and without stand
- ⊕ Extensive choice of flow rates for smallest and largest quantities
- ⊕ Precisely controlled by microprocessor control with interface
- ⊕ V-shaped and U-shaped channels easy to interchange
- ⊕ Simple to clean due to easily removable components

Up-dated information on the FRITSCH Vibratory Feeders LABORETTE 24 at www.fritsch-international.com/l-24.

Contact: Fritsch GmbH • Milling and Sizing
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-  China Cement Association
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Fast powerful and gentle comminution with maximum flexibility!

Variable rotational speed for optimal adjustment of the cutting speed to your sample material



Universal Cutting Mill
PULVERISETTE 19 with
variable rotational speed
adjustment

The **NEW Universal Cutting Mill from FRITSCH** is ideal for size-reduction for a wide range of different materials due to variable adjustment of the rotational speed of the rotor, various knife geometries, replaceable blades, practical sieve cassettes and that with an unmatched ease of cleaning.

The fast solution for all your needs

The high-speed Universal Cutting Mill PULVERISETTE 19 with **variable rotational speed adjustment between 300-3000 rpm** comminutes with a maximum feed size of 70 x 80 mm and a throughput quantity of up to 60 l/h fast and effectively dry, soft to medium-hard sample materials as well as fibrous materials and plastics with reliable reproducible results. One special advantage: Straw, films and similar materials can be fed in their full length without additional preparation. And the PULVERISETTE 19 is also ideal for RoHS tests.

The powerful solution for gentle comminution

The low-speed Universal Cutting Mill PULVERISETTE 19 with **variable rotational speed adjustment between 50-700 rpm** offers due to the combination of extremely low cutting rate and extreme cutting forces a very powerful comminution of hard, tough-elastic samples or of small sample amounts – and is the ideal solution for all cases where for example thermal damage, the loss of easily volatile substances or a larger fine share is to be avoided.

Especially for the food and pharmaceutical industry

The Universal Cutting Mill PULVERISETTE 19 is also available in both variable rotational speed versions in a corrosion-resistant stainless steel 316L version. It is FDA compliant and has an increased resistance to corrosive media such as alkalis and acids, but especially to chloride containing media.

Optimal sample exhaustion: FRITSCH Cyclone separators

Cool, clean and convenient: FRITSCH Cyclone separators for sample exhaustion open up new possibilities, which would otherwise be impossible. The powerful airflow of the Cyclone separators ensures simple feeding and faster throughput. Due to faster operation and the additional stronger cooling, the thermal load of the sample materials is minimized, so that temperature-sensitive samples can also be ground without any problems.

The powerful airflow enables the use of finer sieve cassettes to achieve a higher final fineness – even for materials, which are otherwise difficult to grind finely.



Universal Cutting Mill
PULVERISETTE 19 with new
FRITSCH high-performance
Cyclone separator

Especially convenient: the ground sample is drawn directly into the screwed-on sample glass or in a larger collection vessel of up to 65 litres, in which it can be transported, stored and easily removed for analysis.

FRITSCH-Plus: Unmatched ease of cleaning

A feature that's unique to FRITSCH Cutting Mills: The entire grinding chamber can be opened without any tools in seconds with just two simple motions for complete cleaning of all the cutting tools. Unbeatably fast, simple and efficient!

The result: a completely opened empty grinding chamber with minimal dead space for easy and quick cleaning offering secure protection against cross contamination!

Convince yourself of the unmatched ease of cleaning:

www.youtube.com/embed/Nlk5B2c-jhM?rel=0

By the way:

FRITSCH offers 7 different models of [Cutting Mills](#) with comprehensive accessories, a max. feed size from 70 x 70 mm – 120 x 85 mm, a max. throughput from 50 l/h up to 85 l/h, a final fineness from 0.2 - 20 mm and rotational speeds from 50 - 3000 rpm. For each application the perfect Cutting Mill!

The special features of the FRITSCH Cutting Mills and how they work can be seen in the video: www.youtube.com/embed/GtEOcidZS4w?rel=0

Test the FRITSCH CUTTING MILLS!

Send us your most difficult sample – we will carry out an individual [sample grinding](#) for you. Compare for yourself!

Initial information on the NEW FRITSCH Cutting Mills with variable rotational speed, you can find at www.fritsch-international.com/news/cutting-mills.

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Phone +49 67 84 70 155 • Fax 0 67 84 70 11
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NTEP Legal-for-Trade Certification for MultiTrain® LegalWeight

Schenck Process Single-Section Coupled In-Motion Rail Scale

Schenck Process, the global market leader of measuring and process technology solutions, announces it has achieved U.S. legal-for-trade status for its single weighing section, coupled in-motion rail scale system.

The certification process was completed in February 2018, and Schenck Process was issued the NTEP Certificate of Conformance 14-067A1. MultiTrain® LegalWeight is revolutionary in the rail weighing industry with the fastest installation and lowest track out-of-service time, thus eliminating industry interruption and lost revenue. MultiTrain® LegalWeight offers an alternative for industries with limited track downtime for installation. The ballast supported design is a unique feature replacing the traditional concrete foundation with a ballast embedded legal-for-trade rail scale. LegalWeight installation is faster than other legal-for-trade rail scales on the market with less than 1-day of track downtime compared to conventional installation times of over 30 days. Schenck Process is the only manufacturer that can install single section, legal-for-trade, coupled in-motion rail scales in 1-day. The customer benefits through dramatically reduced track downtime for installation.

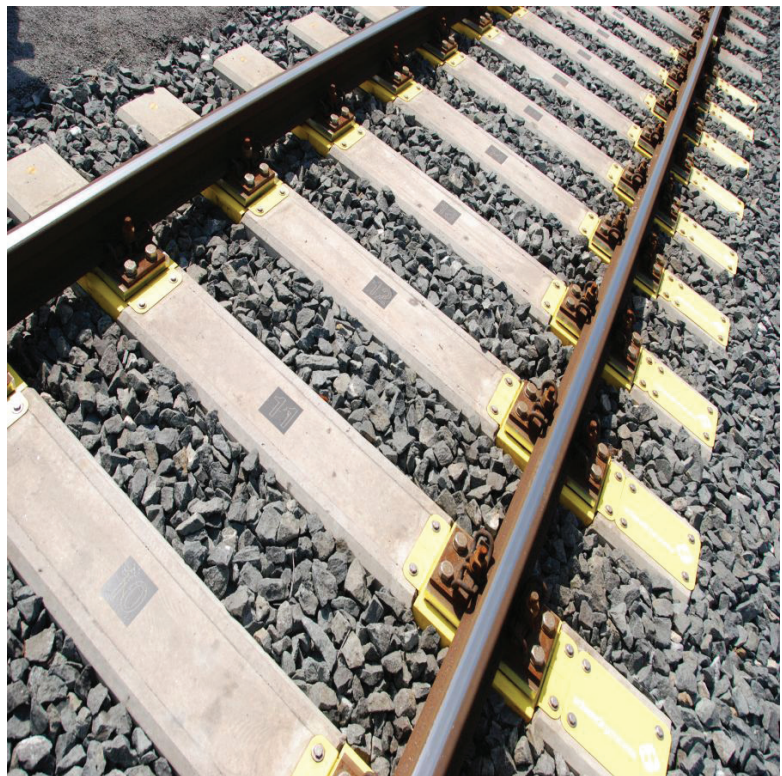
MultiTrain® LegalWeight is ideal for the following industries that require legal-for-trade weights:

- Aggregated and bulk solid materials
- Scrap metal and steel
- Waste Management
- Wood products, lumber and paper
- Agriculture
- Petro-chemical

Scales are more important than ever in the U.S. rail industry today. The rail weighing market is placing a strong emphasis on productivity with verification of weights used for custody transfer. Schenck Process is equipped to meet market demand and customer requirements with one, two, three and four section NTEP certified legal-for-trade, coupled-in-motion rail scales.

LegalWeight requires as little as 165' straight and level track requirements with the single weighing section system. Due to the reduction in weighing sections, the cost to the customer is reduced by 25-33% per weighing section vs. traditional pit scale installations. Schenck Process can support customers who have less track for scale area with our new legal-for-trade single weighing section.

LegalWeight is a ballast supported dynamic weighing system designed for the weighing of railcars while coupled in-motion up to 14 MPH. Increased weighing speeds provides our customers increased productivity and network capacity with the flexibility to expand their rail yards or industry track.



LegalWeight incorporates continuously welded rail into its design in order to provide the fastest speeds in the industry. Continuously welded rail allows transit at full line speeds which can exceed 55 MPH. Therefore, eliminating the rail gaps increases the speed of weighing by 3x. As an option, LegalWeight can provide unbalanced load detection for both front-to-back and side-to-side loading.

LegalWeight utilizes instrumented concrete weighing ties equipped with high precision load cells. The load cells measure the vertical force applied through the rail between the tie and ballast with a legal-for-trade accuracy of 0.2% for individual car weights, the industry standard for accuracy in all legal-for-trade systems.

The scale electronics can withstand temperatures of -22°F (-30°C) to 122°F (50°C). The NTEP and rail industry standard is 14°F (-10°C) to 104°F (40°C).

The wider temperature range reduces our customers' equipment costs by eliminating heaters and blowers. The ability to install LegalWeight in harsh environments is proven in installation climates ranging from Northern Sweden to the Australian Outback.

Key Features of MultiTrain® LegalWeight include:

- Installs in less than 1 day
- Harsh environment design
- Eliminating rail-gaps increases speed of weighing 3x
- Speeds can exceed 55 MPH non-weighing
- Eliminates concrete foundations
- Reduces installation times by 30 days
- Eliminates hazardous confined spaces
- Relocation is possible
- Collects AEI tag information
- Derailment prevention data
- Prevents damage to rail infrastructure
- Increased safety to the public.
- Reduction of fees/fines

About Schenck Process

Schenck Process is the global technology and market leader in applied measuring technology. We make processes work in all areas of industry throughout the world. For us that means improving our customer processes in terms of reliability, efficiency, and accuracy. Combining outstanding equipment and extensive process knowledge, we develop and manufacture innovative solutions for weighing, feeding, conveying, screening, automation, and air filtration applications. We focus on the needs of our customers and support them through the whole lifecycle of a product. For more information, visit www.schenckprocess.com



FDT IIoT Server™ Standard to Empower Platform Independent Deployment

Emerging FITS™ architecture evolves to support diverse operating systems empowering the intelligent enterprise

FDT Group, an independent, international, not-for-profit standards association supporting the evolution of FDT® technology (IEC 62453), today announced that its Board of Directors voted unanimously to empower the emerging FDT IIoT Server™ (FITS™) architecture with full platform independence. This principled decision strengthens the FITS architecture to support the diverse array of operating systems to meet industry-driven demands.

In addition to platform independence, key features of the FITS solution include native integration of the OPC Unified Architecture (OPC UA), as well as comprehensive Control and Web Services interfaces. With built-in security protecting valuable information and operating data, the FITS platform will enable cloud, enterprise, on-premise, and a single-user desktop deployment method meeting the needs of the process, hybrid and discrete manufacturing sectors.

"The FITS platform is the 'game changer' the automation industry has been anticipating," said Glenn Schulz, managing director of FDT Group. "I'd like to thank our Architecture and Specification Working Group that worked behind the scenes investigating and prototyping the platform independence feature approved by our board."

Schulz added, "The Architecture and Specification Working Group has been directed to immediately transition FDT Server Common Components to a pure .NET Core implementation, previously built on the Microsoft .NET Framework. This transition will result in a single FDT Server environment deployable on a Microsoft-, Linux-, or macOS-based operating system, which will empower the intelligent enterprise by bridging the current installed base with next-

generation solutions supporting the IIoT and I4.0 era." The significance of platform independence with the FITS architecture cannot be overstated, as the secure deployment and application scenarios become nearly unlimited. For example, cloud-based FDT Servers can enjoy the performance and cost benefits of a Linux operating system. Traditional control system vendors can offer the FDT Server embedded in their hardware, and machine builders can deploy a small Linux-based FDT Server offering a comprehensive preconfigured asset management system for their skid that can be securely accessed remotely or with smart phones or browsers. MES applications can also incorporate an FDT Server to gain secure, direct access to production data and asset health and availability metrics through OPC UA. In addition, service providers can wrap services around an FDT Server delivered in an industrial hardened Linux box. The opportunities for cost savings and value creation goes on due to the highly flexible deployment options of the FITS standard.

Because of the security, scalability and the ease of deployment of an FDT Server, the solution will simplify entry into the IIoT marketplace as the only open platform standardized integration architecture providing a single interface with cloud-to-plant floor mobile access. The decision to migrate to platform independence will delay the launch of the FITS specification by approximately six months. Given the value delivered through full platform independence, this is a small, short-term tradeoff that will pay huge dividends. With the launch planned for the latter half of 2019, alongside Common Components supporting the FITS standard, automation suppliers and service providers will immediately reap the benefits of a

quick development and deployment strategy. Common Components create a library of FDT routines and will simplify compliant development of FITS-based solutions such as Servers, Device Type Managers™ (DTMs™) and APPs.

The final standard will be delivered as three documents: the FDT 2.5 specification, which builds on FDT 2.1 to include HTML5 and JavaScript graphical user interface features; the FITS Web Services Technical Specification, which describes the Web Services interfaces and requirements for an FDT Server; and the OPC UA Annex detailing the OPC UA Server mapping for an FDT Server.

Developers interested in implementing FITS are encouraged to join the FDT Group.

For more information, please:
[visit www.fdtgroup.org](http://www.fdtgroup.org)

About FDT Group AISBL

The FDT Group AISBL is an international non-profit corporation consisting of leading worldwide member companies active in industrial automation and manufacturing. The major purpose of the FDT Group is to provide an open standard for enterprise-wide network and asset integration, innovating the way automation architectures connect and communicate sensor to cloud for the process, hybrid and factory automation markets. FDT Technology benefits both manufacturers and end users, with advancements such as the Industrial Internet of Things (IIoT) and Industrie 4.0 delivered out-of-the-box – enabling modernized asset integration and access to performance data for visualizing crucial operational problems. Around the world, end users, manufacturers, universities, and research organizations are working together to develop the technology; provide development tools, support, and training; coordinate field trials and demonstrations; and enable product interoperability.



Cost-effective, compact level transmitter with intelligent processing for improved accuracy

- Improved accuracy and repeatability
- Increased asset utilization and decreased operational waste
- Wide range of applications in environmental, chemical, and food and beverage industries
- Hart 7 communications

Siemens presents Sitrans Probe LU240, its newest ultrasonic level measurement Hart transmitter, a hardworking and rugged device that provides reliable level, volume, and flow measurements. Engineered for the challenges of the environmental industry, this transmitter is also suited for the chemical and food and beverage applications. Field-proven Process Intelligence echo processing separates true material level echoes from false, providing reliable readings while still allowing rapid response to actual changes in the material level. The device's reduced blanking distance decreases waste in applications while boosting asset utilization by providing continuously accurate readings even with high levels of material. Sitrans Probe LU240's four-button user interface or remote configuration with Simatic PDM ensures fast and easy setup. Operators will save time and maintenance costs with Sitrans Probe LU240's transparent lid: in manual observations, users can observe values directly instead

of by removing the device's lid. For those applications requiring process temperature data, Sitrans Probe LU240 now gives users both level and temperature readings. The device is also battery and solar-power friendly due to a low start-up current of 3.55 mA and minimum 10.5-volt operation.

In dirty applications or those with buildup, the transmitter's maintenance-free active face technology keeps the sensor clean and is also unaffected by wind, rain, snow or temperature changes. And for rugged applications in harsh environments, it is IP68 fully potted and encapsulated with a PVDF sensor resistant to corrosion, chemicals, and extreme shock.

Digitalization integrates critical field data into a plant's entire operations, unlocking new opportunities to analyze processes and identify areas for improvement. By connecting Sitrans Probe LU240 to a control system, operators can monitor level measurements from the comfort of the control room or on the go using a solution from the suit of Siemens automation or remote products.

Siemens presents Sitrans Probe LU240, its newest ultrasonic level measurement Hart transmitter, a hardworking and rugged device that provides reliable level, volume, and flow measurements.





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ISO 9001



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Simatic IPC227E: New hardware platform for Edge applications

- Edge Devices to collect and process large data volumes directly at the machine
- Secure, future-proof basis for the execution of Industrial Edge applications
- Simple update procedure and software rollouts through secure link to central Edge Management System
- Savings through edge computing in the Siemens Electronics Factory Amberg

Siemens present a newly developed hardware platform for edge applications as part of its Siemens Industrial Edge concept: The compact Simatic Edge Device works on the basis of the embedded industrial PC Simatic IPC227E, and features integrated connectivity to automation on the machine level. This allows manufacturing data to be captured and processed directly at the point of production.

If there is a change to the framework conditions underlying the industrial application, Industrial Edge

offers facility to adjust software applications on the Edge Device, keeping them right up to date using functional, feedback-free updates.

The hardware comes with a closed all-metal housing, ensuring maximum industrial functionality for flexible, maintenance-free use under even the harshest of conditions. Rapid commissioning is guaranteed using pre-installed Edge software.

Siemens Industrial Edge

Siemens Industrial Edge affords users the opportunity to close the gap between classic local data processing and cloud-based data processing to suit individual requirements. Edge computing enables the local feedback-free processing of large data volumes practically in real time. Industrial Edge also enables users to cut the costs of data storage and transmission, as large volumes of data are processed in advance and exclusively relevant data is subsequently sent to the cloud or the company's own internal IT infrastructure. Siemens Industrial Edge supports cloud transmission protocols for MindSphere, the open cloud-based IoT operating system from Siemens. In future, it will also support Message Queuing Telemetry Transport (MQTT), which will additionally guarantee the flexible exchange of data with other systems and clouds.

Savings through edge computing in the Siemens Electronics Factory Amberg

In the Siemens factory in Amberg, a printed circuit board cutting machine is used for the manufacture of Simatic products. During a milling operation, fine milling dust is produced which exerts an aggressive impact on the machine. This can cause the spindle bearing to jam, and potentially result in unscheduled machine downtime. To prevent this from happening, a number of the machine's operating parameters are analyzed using artificial intelligence with a view to detecting any anomalies in spindle behavior which would indicate the possibility of an impending failure. This is done by transmitting data picked up by the sensors to the Edge device for analysis. A machine learning algorithm calculates the anomaly value in real time. A rise above a predetermined threshold value indicates that a machine failure is imminent. This Edge application enables cases of bearing erosion and machine downtime to be predicted between 12 and 36 hours in advance of an actual failure. In the event of anomalies, the machine spindle can be exchanged as part of the next scheduled service before a failure can cause costly unplanned downtime.

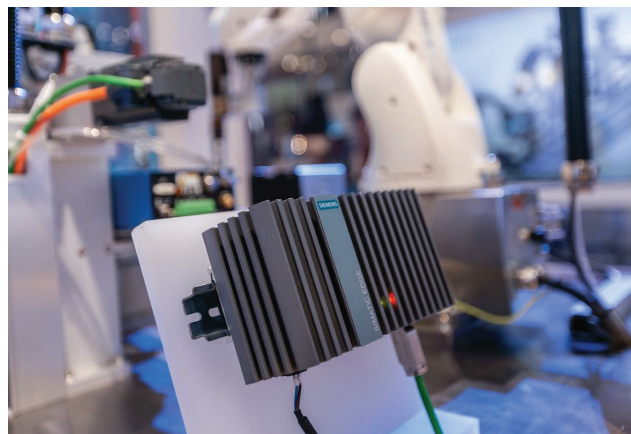
Background information:

When it comes to the analysis of production data on the basis of cloud-based solutions, manufacturers are faced with the dual challenge of managing their core

task and also finding an efficient, economical solution for associated processes such as update handling and IT security. There are several ways to approach how data is collected and analyzed, and then used to improve processes.

Many are moving away from the classic use of local data processing, one of the drawbacks of which is a high level of outlay for software updating. They are choosing to take the digital route, relying on data processing and analysis based on central IT infrastructures (server farms) in the Internet in the form of cloud computing. This simplifies the task of updating and managing applications, as it allows updates to be installed on all servers via a central cloud management system.

While cloud computing is becoming increasingly established, edge computing is evolving as a logical complement to it. These complementary systems enable production data to be either decentrally or centrally processed. Functionality, intelligence and data are no longer exclusively located in centralized server farms in the cloud, but optionally also on the field level, close to the data source – in the world of automation technology at the edge of the production network. The solution devised by Siemens – Siemens Industrial Edge – is based on proven hardware and software, and on mechanisms used in cloud technology, and integrates the benefits of local and cloud-based data processing.



Siemens present a newly developed hardware platform for edge applications as part of its Siemens Industrial Edge concept: The compact Simatic Edge Device works on the basis of the embedded industrial PC Simatic IPC227E, and features integrated connectivity to automation on the machine level.

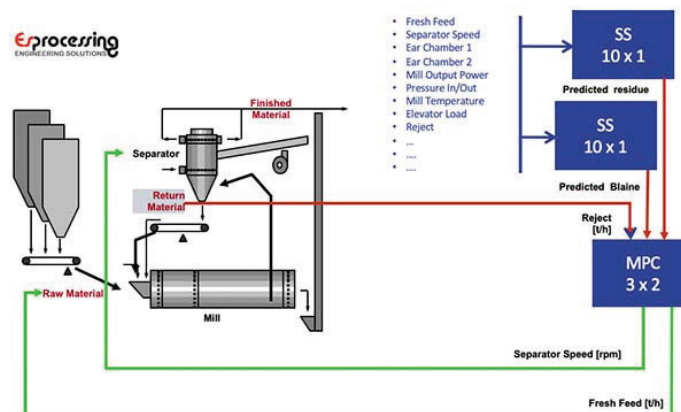
Boosting Cement Mill Performance > 10 %

ES PROCESSING CMO Technology has **Increased Drastically the Cement Mill Production** of its customers, **Enhanced the Cement Quality** and **Reduced the Specific Energy Consumption**.

ROI was achieved in less than 3 months.

CMO Delivered Performances:

- Increasing the Production of more than 10 %
- Reducing drastically the Standard Deviation of the Blaine and Residue
- Reducing the Specific Power Consumption of Cement Grinding (Kwh/tcem) of more than 10 %
- Running the mill in CMO full automatic Control continuously
- Reducing the wear and tear of equipment by operating the Cement Mill seamlessly.



Our CMO (Cement Mill Optimization) breakthrough technology is composed of an exclusive combination of:

- Soft sensors: very sophisticated Models formed by combining multiple breakthrough data-based algorithms adopted from machine learning and based on linear and non-linear identification techniques, PLS, genetic algorithms... that determine the best correlation between different process parameters and fineness results and thus be **able to predict very accurately the Blaine and residue each 30 second**.
- MPC: a very sophisticated Multivariable Model based on Transfer functions built according to impulse tests results performed for each Mill, able to handle complex plant dynamics, including long dead times and non-minimum phase behavior, constraint handling, Hierarchical and weighted optimization, and predictive control, thus **able to adjust the Separator Speed and Fresh feed each 30 second**.

For more details, please contact:

Steven.abboud@es-processing.com

www.es-processing.com



Diary Dates

CEMENT

Cemtech Middle East & Africa 2019

Date: 17 - 20 February 2019

Venue: Dubai, UAE

Tel.: +44 1306 740 363

Fax: +44 1306 740 660

Email: info@cemtech.com

www.Cemtech.com/MEA2019

13th Global CemFuels

Date : 20 - 21 February 2019

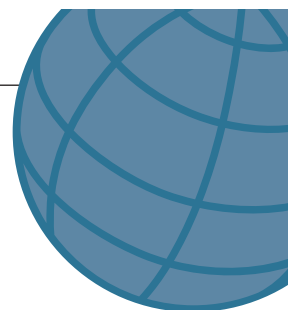
Venue: Amsterdam, Netherlands

For more information, please visit:

www.cemfuels.com

Global Cement Events 2019

For details, please visit each event's web site.



Events organised in cooperation with the AUCBM.

Member companies of the AUCBM gain additional delegate registration discounts on these events. See registration pages for details.

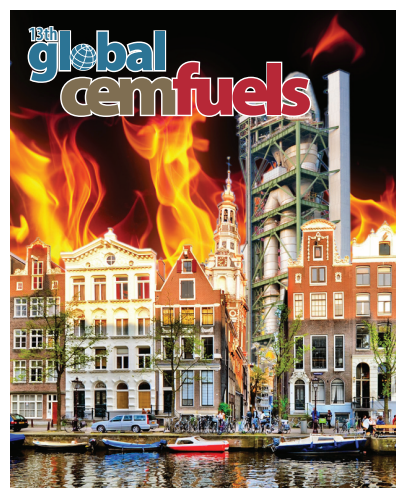


13th global cemfuels

20-21 February 2019,
Amsterdam, Netherlands

cemfuels.com

The popular Global CemFuels Conference and Exhibition will visit Amsterdam for the first time in 2019 and is expected to attract one of its largest-ever audiences from around the world. The event will showcase the state-of-the-art in handling, processing and firing all types of conventional and alternative fuels for cement (and lime) production. *If you produce or use fuels and alternative fuels in the cement and lime industry, then you should attend!*



14th global slag

26-27 March 2019,
Aachen, Germany

globalslag.com

The 14th Global Slag Conference and Exhibition will take place in Aachen, in the heart of Europe's iron-, steel- and slag-producing areas. Slag producers and users are expected to attend from throughout Europe and from the rest of the world: Slag products have the potential to be profitable for both the iron and steel industry and also for the cement, concrete and construction products industries. *If your business is in slag, then you should attend!*



2nd global futurecem

22-23 May 2019,
Brussels, Belgium

futurecem.com

The 2nd Global FutureCem Conference and Exhibition will take place in May 2019, looking at how the global cement and concrete industry can adapt to a high-carbon-price, low- or no-carbon future. In addition to equipping delegates with the latest information, news and developments, the networking opportunities will once again be excellent. *If you want to reduce your company's CO₂ footprint (and its future CO₂ bill), then you should attend!*



CEMENT

INTERCEM Dubai 2019

Date : 4 - 6 March 2019

Venue: Jumeirah Emirates Towers, Dubai, UAE

For more information, please visit:

www.intercem.com

7th International Drymix Mortar Conference idmmc seven

Date : 18 March 2019

Venue: Nuremberg, Germany

For more information, please visit:

www.drymix.info

14th Global Slag

Date : 26 - 27 March 2019

Venue: Aachen, Germany

For more information, please visit:

www.globalslag.com

CEMENTTECH 2019

Date : 29 - 31 March 2019

Venue: Anhui International Conference & Exhibition Center, China

For more information, please contact:

Ms. Joanna Long

CCPIT Building Materials Sub Council (CCPITBM)

Tel: +8610 88083329

Fax: +8610 88083329

Mobile: +8613436446121 (same as wechat)

Email: joannalong@ccpitbm.org

Web: www.cementtech.org

BusinessCem Moscow 2019

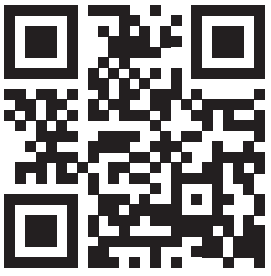
The 30th Anniversary International Conference and Exhibition

THE CEMENT INDUSTRY & THE MARKET

Date : 15 - 17 April 2019

Venue: Moscow, Russia

WWW.WHITE-NIGHTS.INFO



May 29–31, 2019
Grand Hotel Europe
St. Petersburg, Russia

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Tel. +7 495 9774968

Fax: +7 495 977 4495

Email: valev@businesscem.msk.ru

<http://businesscem.ru>

61st IEEE-IAS/PCA Cement Industry Technical Conference

Date : 28 April - 02 May 2019

Venue: St. Louis, MO, USA

For more information, please visit:

www.cementconference.org

INTERCEM Shipping Americas

Date : 20 - 21 May 2019

Venue: New York, USA

For more information, please visit:

www.intercem.com

2nd Global FutureCem

Date : 22 - 23 May 2019

Venue: Brussels, Belgium

For more information, please visit:

www.futurecem.com

White Nights: V International Cement Business Conference

Date : 29 - 31 May 2019

Venue: Grand Hotel Europe, St. Petersburg, Russia

For more information please visit:

www.white-nights.info

INTERCEM 100

Date : 24 - 26 June 2019

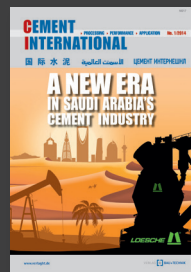
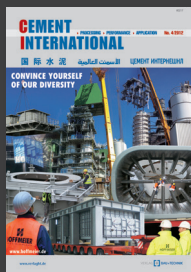
Venue: Istanbul, Turkey

For more information, please visit:

www.intercem.com

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www.cementinternational.com

CEMENT

15th International Congress on the Chemistry of Cement (ICCC 2019)

Date : 16 - 20 September 2019

Venue: Prague, Czech Republic

For more information, please visit:

<http://www.iccc2019.org>

15th TCMB International Technical Seminar & Exhibition

Date : 08 - 11 October 2019

Venue: Kaya Plazzo Golf Resort, Belek, Antalya, Turkey

For more information, please contact Turkish Cement Manufacturers' Association

[Email: tekniks@tcma.org.tr](mailto:tekniks@tcma.org.tr)

3rd International Conference on Calcined Clays for Sustainable Concrete

Date : 15 - 17 October 2019

Venue: New Delhi, India

For more information, please visit:

<http://lc3.cimglobal.net/>

16th NCB International Seminar on Cement, Concrete and Building Materials

Date : 03 - 06 December 2019

Venue: New Delhi, India

For more information, please visit:

<http://www.ncbindia.com>

Hillhead 2020:

Date : 03 - 06 December 2019

Venue: Hillhead Quarry, Buxton, Derbyshire, UK

For more information, please visit:

www.hillhead.com

INTERNATIONAL CEMENT CONFERENCE

Cemtech

PRODUCTION EXPERTISE - MANAGEMENT SKILLS

Manufacturing excellence in
the cement industry

CEMTECH MEA2019
18-20 February 2019

Cemtech is pleased to announce dates for its forthcoming Middle East & Africa conference, taking place in Dubai, UAE, on 18-20 February 2019. This annual international cement conference is the leading forum for up-to-date market and technical information, featuring participants from over 30 nations. Join us in February for:

- ◆ **Market insights:** presentations exploring the drivers of global and regional developments in the cement industry across the Middle East and Africa, plus in-depth country reports and forecasts
- ◆ **Technical papers:** review best practice in cement production technologies, with case studies focussing on alternative fuels, plant optimisation, logistics, product development and plant upgrades
- ◆ **International equipment exhibition:** meet the technology suppliers and explore options to improve your plant operations, future investments and plant upgrades.

PLUS visit to local cement works, technical training course, gala dinner, city tour of Dubai for partners.

Call for papers: if you wish to present a paper at Cemtech MEA2019, please send your proposal (title and 250-word abstract) to info@cemnet.com by 26 November 2018.

Exhibition: This event includes a 30-stand exhibition. Contact e.compos@cemnet.com for stand plan and further event information.

For more details, programme updates and registration, see:

www.Cemtech.com/MEA2019

Conference organised by

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TRAINING

VDZ Process Technology of Cement Production

Module 1: Raw Material Preparation and Grinding Technology

Date : 11 - 15 March 2019

Module 2: Clinker Production and Material Technology

Date : 18 - 22 March 2019

Venue: VDZ's premises in Duesseldorf, Germany

For more information please visit:

www.vdz-online.de/en/training

VDZ Simulator Training

Date : 25 - 29 March 2019

Venue: VDZ's premises in Duesseldorf, Germany

For more information please visit:

www.vdz-online.de/en/training

VDZ Plant Maintenance and Refractories Course

Date : 3 -7 June 2019

Venue: Cement plant in Germany

For more information please visit:

www.vdz-online.de/en/training

VDZ Process Operator Training

Date : 2 - 20 September 2019

Venue: Training centre near Duesseldorf, Germany

For more information please visit:

www.vdz-online.de/en/training

VDZ Crash Course for Young Engineers

Date : 2 - 6 December 2019

Venue: VDZ's premises in Duesseldorf, Germany

For more information please visit:

www.vdz-online.de/en/training

CERAMIC

Keramika 2019

Date : 14 - 17 March 2019

Venue: Jakarta, Indonesia

For more information, please contact:

Ms. Hellen Woon

Tel: 00622125565000

Email : hellen.woon@reedpanorama.com



ULUSLARARASI INTERNATIONAL
TEKNİK TECHNICAL
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TÇMB 2019
TÜRKİYE ÇİMENTO MÜSTAHŞİLLERİ BİRLİĞİ

II. ANNOUNCEMENT

15. TÇMB International Technical Seminar & Exhibition 8-11 October 2019 Kaya Palazzo Golf Resort, Belek, Antalya/ Turkey

15. TÇMB International Technical Seminar & Exhibition

15th TÇMB International Technical Seminar and Exhibition will be held in Kaya Palazzo Golf Resort Belek, Antalya, Turkey between 8th and 11th October, 2019.

The program is open for both national and international attendees from cement industry, service and technology providers. The event is important for the manufacturers to follow up the recent developments and creates an opportunity for the participants to consider the new investments while having a chance to benchmark their business for every two years.

14th TÇMB International Technical Seminar and Exhibition held in 2017 was found very successful by global cement industry with the participation of more than 576 participants, also 131 foreign and national companies from cement and related industries.

For two days technical programme, the main theme and sub themes will be announced later.

For the updated booth plan and registration details please contact

tekniks@tcma.org.tr

www.tcma.org.tr

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BOOTH!**

GENERAL

Argus Biomass Asia 2019

Date : 06 - 07 March 2019

Venue: Singapore

Tel : + 65 6496 9977

Email: asiaconferences@argusmedia.com

Invest & Trade in Ukraine '19

Date : 07 - 13 March 2019

Venue: Transatlantic Tour, Ukraine

Email: contact@a7-group.com

For more information, please visit:

www.a7conf.com

Gasification 2019

Date : 13 - 14 March 2019

Venue: Brussels, Belgium

Tel: +44 (0) 203 141 0606

Email: mahsan@acieu.net

3rd European Fuels Markets & Refining Strategy Conference

Date : 27 - 28 March 2019

Venue: Frankfurt, Germany

For more information please Contact:

Mr. Adam Kowalewski

Tel: +48 616 467047

Email: adam@acieu.net

Bauma 2019

Date : 08 - 14 April 2019

Venue: Munich, Germany

For more information, please visit:

www.bauma.de

Powtech 2019

Date : 09 - 11 April 2019

Venue: Nuremberg, Germany

For more information, please visit:

www.powtech.de

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GENERAL

9th European Algae Industry Summit

Date : 10 - 11 April 2019

Venue: Lisbon, Portugal

Tel : +44 0203 141 0627

Email : dpavlyk@acieu.net

26th International Mining Congress and Exhibition (IMCET 2019)

Date : 16 - 19 April 2019

Venue: Granada Luxury Hotel Belek/ Antalya, Turkey

For more information, please visit:

www.imcet.org.tr

Ukrainian Infrastructure Forum '19

Date : 16 - 18 April 2019

Venue: Kyiv, Ukraine

For more information, please visit:

www.a7conf.com

Maintenance Analytics

Date : 24 - 25 April 2019

Venue: Kuala Lumpur, Malaysia

For more information, please contact:

Mr. John Karras

Tel: +603 2775 0001

Email: johnk@trueventus.com

Digital Utilities Europe

Date : 08 - 09 May 2019

Venue: London, UK

For more information, please contact:

Mr. Dimitri Pavlyk

Tel.: +44 203 141 0627

Email:dpavlyk@acieu.co.uk

http://acieu.co.uk

ACI's European Masterbatch Summit

Date : 15 - 16 May 2019

Venue: Dusseldorf, Germany

For more information, please contact:

Marcin Janecki

Tel: 0048 616467047

Email: mjanecki@acieu.net

ЦЕМЕНТ

и его применение

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The Russian-language periodical professional publication devoted to the production of cement and other binders, concretes, dry mixes and their applications, as well as to research and design.

A conspicuous place in the journal materials is given to the problems of plant development, capital movement, economic problems facing the cement industries of Russia and other countries.

The journal comes out once in two months and includes news, analytical materials and detailed abstracts of all the articles in English.

Cement and its Applications, Journal
22 A Zvenigorodskaja Str. No 438
St. Petersburg, 191119, Russia

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+7(812) 712-36-83

E-mail: info@jcement.ru
Web: www.jcement.ru
www.petrocem.ru



GENERAL

Digital Refining Summit 2019

Date : 05 - 06 June 2019

Venue: London, UK

For more information please contact:

Mr. Sam Cormack

Tel: 0048616467040

Email: rafael@acieu.net

Biobased Coatings Europe 2019

Date : 19 - 20 June 2019

Venue: Düsseldorf, Germany

For more information, please contact:

Mr. Dimitri Pavlyk

Tel : +44 0 203 141 0627

Email: dpavlyk@acieu.net

2nd Annual Industry 4.0

Date : 10 - 11 July 2019

Venue: Kuala Lumpur, Malaysia

Email: amyw@paytoattendtheevent.com

8th Annual Modular & Prefabrication Construction:

Date : 24 - 25 July 2019

Venue: Hotel Fort Canning, Singapore

For more information, please contact:

Trueventus

Mr. John Karras

Tel: +603 2775 0067

Email: johnk@trueventus.com

BIM Summit

Date : 24 - 25 July 2019

Venue: Singapore

For more information, please contact:

Trueventus

Mr. John Karras

Tel: +603 2775 0067

Email: johnk@trueventus.com

Next Gen: Quality Assurance and Material Testing

Date : 28 - 29 August 2019

Venue: Bangkok, Thailand

Tel: +603-2775 0067

Email: stevej@strategictruconferences.com

ACI's 2019 US Base Oils & Lubricants Summit

Date : 28 - 29 August 2019

Venue: New Orleans, LA, USA

For more information, please contact:

Ms. Cheryl Williams

Tel: +4402031410623

Email: cwilliams@acieu.net

INTERPACK 2020

Date : 07 - 13 May 2019

Venue: Dusseldorf, Germany

For more information, please visit:

www.interpack.com



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www.app.zkg.de
the desktop version

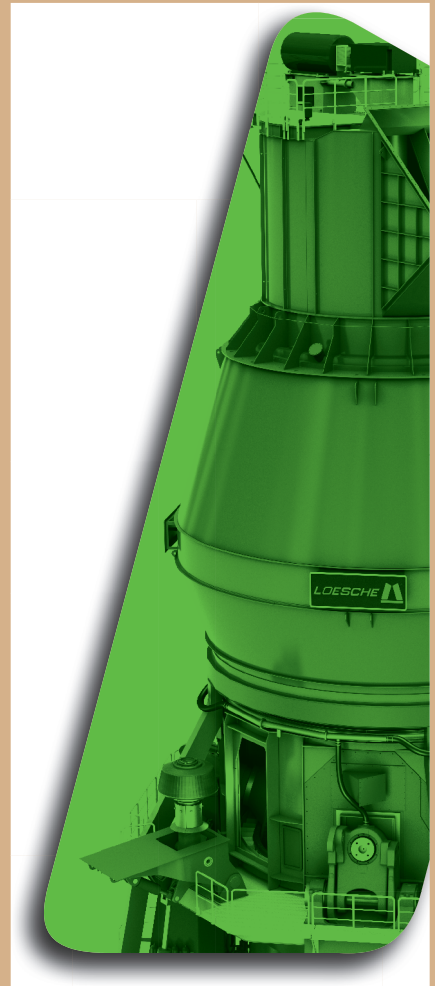




عالم الإسمنت ومواد البناء

تصدر عن : الاتحاد العربي للإسمنت ومواد البناء العدد 74 ديسمبر / كانون الأول 2018

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- الآراء الموجودة بالمجلة لاتعبر بالضرورة عن رأي الاتحاد أو المجلة وإنما عن الرأي الخاص بكتابها ولا يتحمل الاتحاد أية مسؤولية قانونية تجاه ذلك .

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Email: aucbm@scs-net.org / aucbm1977@gmail.com

Website : www.aucbm.net

المكتويات

أخبار عربية
أخبار عالمية
منتجات جديدة

الموضوعات:

- شركة BEUMER تزود شركة إسمنت OYAK Denizli Çimento Sanayii T.A.Ş. بناقل أنبوبي
إعداد: BEUMER Group GmbH & Co. KG – ألمانيا
- التحكم الكيميائي في الخلطة الخام
إعداد: م. أسامة علي أحمد – جمهورية مصر العربية
- إنتاج درجات ذات قياس حاد من الرمال الرطبة بشكل طبيعي
إعداد: Dipl. Ing. Sigurd Schutz، RHEWUM GmbH – ألمانيا

المراسلات

توجه كافة المراسلات بإسم رئيس التحرير / الاتحاد العربي للأسمنت ومواد البناء
الجمهورية العربية السورية - دمشق - ص. ب 9015
هاتف : 611 85 98 - 611 54 12 (11 963 +)
فاكس : 612 17 31 (11 963 +)

Email: aucbm@scs-net.org / aucbm1977@gmail.com



مجلة عالم الإسمنت ومواد البناء

جدول موضوعات المجلة لعام 2019

المناسبات	الموضوعات	العدد
	<ul style="list-style-type: none"> * التنمية المستدامة * حماية البيئة * الوقود البديلة * الوقود المستمد من النفايات الصلبة / الوقود المستمد من النفايات * الإنتاج الأنظف في صناعة الإسمنت * المرشحات ، أنظمة الترشيح القماشية ومعدات إزالة الغبار * مراقبة الانبعاثات وأنظمة تحليل الغاز * توفير الطاقة * دراسات حالة 	مارس/آذار 2019
	<ul style="list-style-type: none"> * التعبئة والتغليف والتسليم * معدات التحميل والتفريغ من السفن * تكنولوجيا التغذية * تخزين ومناولة المواد السائبة * تخزين الوقود * أنظمة النقل والرافعات الدولية * الصحة والسلامة المهنية * إعداد الفحم وإشعاله 	يونيو/حزيران 2019
<p>المؤتمر والمعرض العربي الدولي الرابع والعشرون لصناعة الإسمنت: القاهرة / جمهورية مصر العربية</p> <p>نوفمبر / تشرين الثاني 2019</p>	<ul style="list-style-type: none"> * أنواع جديدة من الإسمنت * الإسمنت ذو النسبة المنخفضة من الكربون * الإسمنت الأبيض * الخرسانة * التحليل بتألق الأشعة السينية (XRF) وبعيود الأشعة السينية (XRD) * كيمياء الإسمنت * مضافات الإسمنت * انسداد الصوامع وتنظيفها * النقاط التي تؤخذ بعين الاعتبار عند تصميم الصوامع * منظومات التحريك * تكنولوجيا الوزن * تقنيات وأنظمة الاعتيان (أخذ العينات) 	* سبتمبر/أيلول 2019
	<ul style="list-style-type: none"> * أنظمة التشحيم * الصيانة في مصانع الإسمنت - الصيانة المتمركزة حول الموثوقية - منظومات الصيانة المحوسبة * تقنيات الإصلاح واللحام * إدارة قطع الغيار * الطواحين العمودية * الكسارات * المبردات * تكنولوجيا الحراقات * الحراقات وفحص الحراقات 	ديسمبر/كانون الأول 2019

- سيتم توزيع عدد سبتمبر / أيلول إلى المشاركين في المؤتمر

آخر موعد لاستلام المقالات أو النصوص الصحفية أو الإعلانات لأعداد عام 2019 هو على النحو التالي :

1. عدد مارس / آذار : 1 مارس / آذار
2. عدد يونيو / حزيران : 28 مايو / أيار
3. عدد سبتمبر / أيلول (عدد خاص) : 30 أغسطس / آب
4. عدد ديسمبر / كانون الأول : 6 ديسمبر / كانون أول

الإعلانات

(بالدولار الأمريكي)

الإعلان في عدد واحد	الإعلان في عددين	الإعلان في ثلاثة أعداد	الإعلان في أربعة أعداد	
1,200	*	*	*	غلاف خارجي ملون (يمين أو يسار) A4
900	*	*	*	غلاف داخلي ملون (يمين أو يسار) A4
700	900	1,200	1,300	صفحة داخلية ملونة A4
400	500	600	700	نصف صفحة داخلية ملونة A4
250	300	350	400	ربع صفحة داخلية ملونة A4
250	300	350	400	صفحة أسود وأبيض

أبعاد الإعلان : A4 مع مسافة على الأطراف الأربعة
 أبعاد الإعلان على الغلاف الخارجي : ارتفاع 20 سم وعرض 14 سم
 الدقة : 300dpi
 نوع الملف : PDF أو EPS أو PSD

WWW.AUCBM.NET إعلان على موقع الاتحاد

- عرض 200 بيكسل وارتفاع 75 بيكسل ، بقيمة 150 دولاراً أمريكياً في الشهر الواحد
- يرجى إرسال الصور مع اللينك المطلوب ربطه بها بدقة 300 dpi (dot per inch)

أخبار عربية

الإمارات العربية المتحدة

اتفاقية لتشغيل مشروع الطاقة الشمسية برأس الخيمة

وقعت حكومة رأس الخيمة (دائرة الأشغال والخدمات العامة) وشركة (يتكو للخدمات العامة) لتطوير وتشغيل مشروع الطاقة الشمسية LFG بقدرة 16 ميجاوات في الساعة، ويتمشى هذا المشروع مع استراتيجية الطاقة الجديدة في دولة الإمارات التي تهدف إلى زيادة مساهمة الطاقة النظيفة في إجمالي مصادر الطاقة المستخدمة في الدولة.

المصدر: www.djazaress.com

العربية السعودية

إسمنت تبوك توقع مذكرة تفاهم لتصدير 6 آلاف طن من الإسمنت إلى اليمن

وقعت شركة إسمنت تبوك السعودية مذكرة تفاهم مع شركة التطلعات الدولية لتصدير 6 آلاف طن من مادة الإسمنت إلى اليمن.

المصدر: www.cnbcarabia.com

إسمنت الجنوبية توقع عقداً مع مؤسسة مدينة الأعمار والبناء للتجارة

أعلنت شركة إسمنت المنطقة الجنوبية عن توقيع عقد مع مؤسسة مدينة الأعمار والبناء للتجارة لبيع 20 ألف طن من مادة الإسمنت البورتلاندي المكيس إلى الجمهورية اليمنية وذلك لمدة 3 أشهر.

المصدر: www.maaal.com

شركة إسمنت الجوف تصدر أول شحنة إسمنت لليمن

أعلنت شركة إسمنت الجوف أنه تم تصدير أول شحنة من الإسمنت لليمن، وأوضحت الشركة أن الكمية التي تم تصديرها بلغت 9 آلاف طن.

وكانت الشركة قد حصلت على رخصة تصدير الإسمنت من وزارة التجارة والاستثمار في فبراير / شباط 2017، وتم تجديد الرخصة بتاريخ 15 فبراير 2018، والتي تمتد صلاحيتها إلى سنة من تاريخ صدورها.

المصدر: www.argaam.com

«إسمنت الشمالية»: الطاقة الإنتاجية لخط إنتاج الإسمنت الأبيض تصل إلى 1500 طن يومياً ليصبح أكبر خط إنتاج في العالم

كشفت شركة «إسمنت المنطقة الشمالية» أن مشروع خط إنتاج الإسمنت الأبيض وتحويل جزء من إنتاج الشركة سيساهم في سد النقص الحاصل في السوق المحلية، حيث استهلكت المملكة نحو

كما أطلقت دائرة بلدية رأس الخيمة، رسمياً، مشروع تطبيق نظام إدارة الطاقة الذي ينسجم مع المعايير الدولية الأيزو 50001، بهدف وضع منهج مناسب وشامل لكفاءة الطاقة في جميع أقسام الدائرة، ومن المتوقع أن يكتمل المشروع بحلول النصف الثاني من عام 2019.

ويشكل البرنامج ركيزة أساسية في استراتيجية رأس الخيمة لكفاءة الطاقة والطاقة المتجددة 2040، التي تهدف إلى توفير الطاقة بنسبة 30%، وتوفير المياه بنسبة 20%، وتوليد 20% من الطاقة من مصادر الطاقة المتجددة، بحلول عام 2040.

المصدر: www.alkhaleej.ae

الجزائر

«سيلاس» بسكرة تجرى أول عملية تصدير للكلنكر نحو غرب أفريقيا

تنوي شركة سيلاس تصدير 35 ألف طن من الكلنكر، في أول عملية تصدير من ميناء عنابة باتجاه غرب أفريقيا.

وحسب بيان لشركة «لافارج هولسيم الجزائر»، فإن هذه العملية تؤكد على الالتزام المتواصل للشركة بمساهماتها في تصدير فائض الإنتاج بهدف يتجاوز 2 مليون طن في عام 2020.

وخلال العملية، ستستفيد «سيلاس» من الدعم التجاري واللوجستي الذي ستوفره شركة LafargeHolcimTrading، المتخصصة في التجارة الدولية، والتي تمتلك نسبة أكثر من 50% من تجارة الكلنكر والإسمنت في حوض البحر المتوسط وغرب أفريقيا.

و«سيلاس» هي شراكة خاصة بين مجموعة سواكري 51% وشركة «لافارج هولسيم» 49%، وبطاقة إنتاجية قدرها 2.7



UAE Cement

United Arab Emirates Cement Portal Web Site

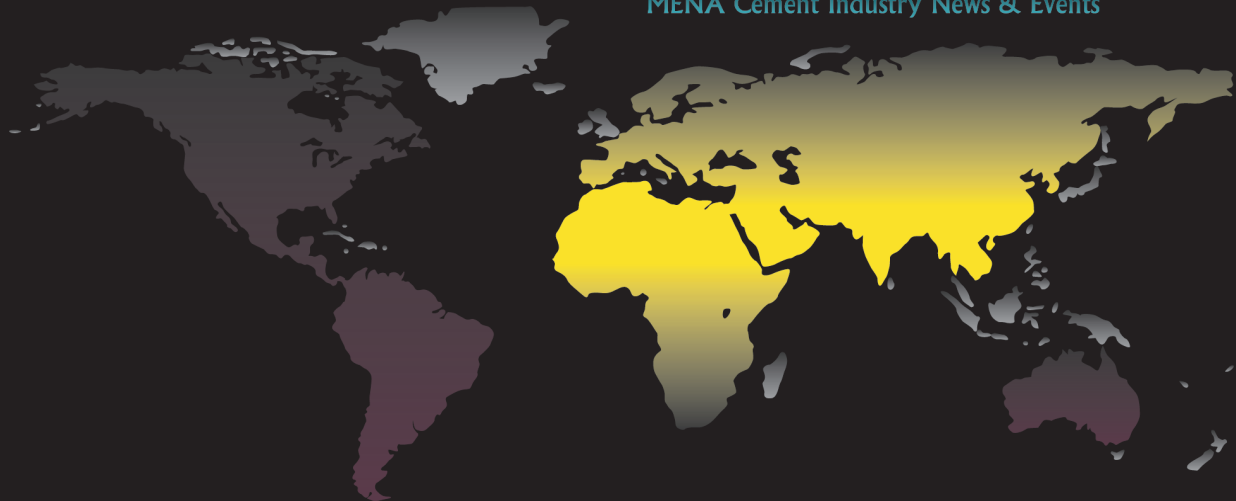
The U.A.E Cement website has established to perform broadcasting services about U.A.E , Middle east and North Africa cement industry and market.

The www.uaecement.com portal website is a place for getting latest cement news, events and worldwide conferences.

We hope the above matters help the improvement of Cement industry in the U.A.E which needs more cement based projects in the future.

We kindly appreciate your comments and suggestions to improve the web site contents and information.

MENA Cement Industry News & Events



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By registration to www.uaecement.com you can receive latest Cement news from UAE, Middle East & North Africa in your own mail box. Also you will be announced for up coming events and conferences.



UAE Cement factories information :

In the www.uaecement.com portal web site you can find list of UAE & other Arabian Cement factories contact details.



Cement types and engineering tables :

- UAE Cement production list
- All Cement types
- Cement burning methods
- Mesh sizes
- ...



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جانب شعار جديد ، لإبراز مدى قوة مركز وقيمة علامتها التجارية التي تعد مرادفاً للجودة والقوة والموثوقية .

وتحرص الشركة على مواكبة الطلب القوي على الإسمنت محلياً وخليجياً ، والمعزز بتنمية شاملة مدفوعة بارتفاع إيرادات النفط ، وذلك من خلال تعزيز طاقتها الإنتاجية من الإسمنت بشكل هائل عبر السنين ، حيث زادت طاقتها الإنتاجية من (ستمائة ألف) طن متري سنوياً ، كطاقة أولية ، لتصبح 3.6 مليون طن متري سنوياً على مدى ثلاث مراحل مختلفة . وقد أدى هذا النمو في الطاقة الإنتاجية إلى زيادة الأفران والطواحين المستخدمة في عملية الإنتاج لتصل إلى ثلاثة أفران وخمس طواحين إسمنت في الوقت الراهن . وتخطط الشركة لتعزيز طاقتها الإنتاجية من الإسمنت عن طريق إنشاء مصنع إسمنت جديد في منطقة الدقم لتلبية الطلب المتزايد على منتجات الإسمنت من كافة أرجاء المنطقة التي تشهد تنمية هائلة على صعيد البنية الأساسية .

وتنتج الشركة إسمنت عمان الإسمنت الذي يتفق مع المعايير العُمانية والأوروبية والأمريكية ، كما أن الشركة تلبى احتياجات السوق المحلي وتقوم بنجاح بتصدير إسمنت أبار النفط وإسمنت البناء إلى دول أخرى .

كما وقعت شركة إسمنت عمان مذكرة تفاهم مع الشركة العُمانية القابضة لخدمات البيئة «بيئة» لتوليد الطاقة من الإطارات . وتهدف الاتفاقية إلى تحويل الإطارات منتهية الصلاحية إلى وقود يستخدم في عمليات إنتاج الإسمنت .

المصدر: www.alroya.om

ريسوت للإسمنت توقع اتفاقية مشروع توليد الطاقة الحرارية من النفايات

وقعت شركة ريسوت للإسمنت اتفاقية مشروع توليد الطاقة الحرارية من النفايات مع شركة سينوما للتنمية لما وراء البحار «الصينية» ، ويعد هذا المشروع الأول من نوعه في السلطنة ، إذ يمكن ريسوت للإسمنت من خفض الطاقة المستهلكة بنسبة 30 % . ويعتبر المشروع انطلاقة جديدة لمبادرة شركة ريسوت للإسمنت والتي تحمل شعار «نحو غد أخضر» ، ويعد هذا المشروع الأول من نوعه على مستوى تنفيذها بخطة مدروسة على مراحل متعاقبة .

المصدر: www.raysutcement.om

تأسيس تحالف للشركات الفرنسية يتولى تطوير مجمع صناعي عالمي في الدقم

أعلن أربعة من كبار المستثمرين ومزودي التكنولوجيا الفرنسيين عن تأسيس تحالف للشركات الفرنسية للتعامل بشكل مشترك مع الفرص التجارية في المنطقة الاقتصادية الخاصة بالدقم ، في مبادرة من شأنها تعزيز العلاقة التجارية القائمة بين السلطنة والجمهورية الفرنسية .

ويهدف التحالف الذي أنشأته أربع شركات فرنسية رائدة هي: سي إم إيه سي جي إم (CMA CGM)، وإي دي إف رينيوبالز (EDF)

600 ألف طن سنوياً من الإسمنت الأبيض في 2018 وتستورد 400 ألف طن سنوياً من مادة الإسمنت الأبيض .

وقال مدير عام «إسمنت الشمالية» إن الطاقة الإنتاجية لخط إنتاج مادة الإسمنت الأبيض تصل إلى 1500 طن يومياً ، ليصبح أكبر خط إنتاج في العالم ، مضيفاً أن الشركة سوف تنتج 600 ألف طن سنوياً ، في حين تصل التكلفة الكلية لتطوير وإنشاء خط الإنتاج الثاني إلى 565 مليون ريال ، وسيتم تصدير الكميات الفائضة عن حاجة السوق المحلي والمقدرة بـ 40 % من الطاقة الإنتاجية إلى الخارج ، حيث حصلت الشركة على شهادة المواصفات الأوروبية CE Mark للإسمنت الأبيض .

المصدر: www.cnbcArabia.com

إسمنت المدينة تعلن استلام خط الإنتاج الثاني بعد خصم 43 مليون من المقاول

أعلنت شركة إسمنت المدينة بأنه تم الاتفاق على التسوية النهائية مع المقاول الرئيسي شركة سينوما العالمية بخصوص عقد إنشاء خط الإنتاج الثاني ، وذلك باستلام المشروع بالكامل مقابل خصم تأخير على شركة سينوما العالمية قدره 8 % من كامل قيمة العقد ، وتقدر قيمة الخصم بحوالي 43 مليون ريال سعودي .

المصدر: www.maaal.com

الجمهورية العربية السورية

الشركة العربية لصناعة الإسمنت في حلب

اطلع وزير الصناعة السوري على واقع الشركة العربية لصناعة الإسمنت في حلب وما نفذ من مشاريع التأهيل للبنية التحتية و الدراسات لإعادة تشغيل المعمل . وقد عرضت الشركة ما تم تأهيله وسيتم بذل الجهود لإنهاء ما تبقى من إعادة التأهيل ، وسيكون هناك في الفترة القادمة القريبية حلول لإعادة إقلاع المعمل الذي يعتبر ركيزة أساسية في الصناعة السورية وعملية إعادة الإعمار .

توقعات بارتفاع حجم الطلب على الإسمنت في السوق السورية

بلغ إنتاج معامل الشركة السورية لصناعة الإسمنت ومواد البناء بحماة خلال الأشهر الثمانية الأولى من عام 2018 ، 277,562 طناً من مادة الإسمنت بينما وصلت كميات الكنكر إلى 654,978 طناً ، حيث من المرجح أن يشهد السوق المحلي ارتفاعاً في حجم الطلب على الإسمنت في الفترة القادمة ولا سيما مع طرح منتج من الإسمنت البورتلاندي البوزولاني من المعمل رقم 3 تحت اسم «إسمنت الفيل» لمصلحة عقد موقع مع أحد الموزعين من القطاع الخاص .

سلطنة عُمان

«بناء عُمان».. هوية وروية جديدة وشعار معبر عن العلامة التجارية لشركة إسمنت عُمان

كشفت «إسمنت عُمان» ، الشركة الرئيسية الأولى في مجال صناعة الإسمنت في سلطنة عُمان ، عن هوية جديدة لعلامتها التجارية ، إلى

جمهورية مصر العربية

سداد مديونيات الشركة القومية للإسمنت للجهات الحكومية نهاية 2019

تعتزم الشركة القابضة للصناعات الكيماوية ، إحدى شركات قطاع الأعمال العام ، بدء تسوية مديونيات شركة القومية للإسمنت ، مع مختلف الجهات الحكومية ، نهاية العام المقبل 2019 ، بعد انتهاء تصفيتها بالكامل .

وقدر رئيس الشركة القابضة إجمالي المديونيات المستحقة على "القومية للإسمنت" بـ4.3 مليار جنيه ، مقسمة بواقع 3.6 مليار للشركة القابضة للغازات "إيجاس" و300 مليون جنيه لشركات الكهرباء ، و300 مليوناً آخرين لمصلحة الضرائب وبعض البنوك .

وستبدأ الشركة في إجراءات التسوية بعد انتهاء المصفي المكلف بتصفية الشركة بشكل كامل ، بحلول أكتوبر 2019 ، وسيعرض المصفي الأراضي غير المستغلة بالشركة للبيع ، كما أنه طرح مزاداً لبيع خطوط الإنتاج والمعدات ، إضافة إلى بيع الخامات الإنتاجية المخزنة .

وكانت الجمعية العامة غير العادية لشركة القومية للإسمنت قد قررت تصفية الشركة رسمياً بعد موافقة 99.42 % من مساهميها . وقالت الجمعية إن قرار التصفية جاء بناءً على توصية من مركز الدراسات والبحوث التعدينية ، التابع لكلية الهندسة بجامعة القاهرة والمكلف بإعداد دراسة جدوى استمرار الشركة من عدمه ، والذي أوصى بعدم ضخ استثمارات جديدة في الشركة بعد ثبوت عدم جدوى أي سيناريو للتطوير .

المصدر: www.alborsanews.com

«الاستثمار» توافق على تقسيم شركة وبيع أخرى تابعة للسويس للإسمنت

قالت شركة السويس للإسمنت إن الهيئة العامة للاستثمار والمناطق الحرة اعتمدت مشروع تقسيم شركة إسمنت حلوان إلى شركتين . وأضافت السويس للإسمنت أن هيئة الاستثمار وافقت أيضاً على عملية بيع الشركة المنقسمة المالكة لمصنع الإسمنت الأبيض ، وأشارت إلى أنه جار تأسيس الشركة المنقسمة .

وكانت الجمعية العامة غير العادية لشركة إسمنت حلوان التابعة لمجموعة السويس للإسمنت ، وافقت في نوفمبر / تشرين الثاني الماضي ، على تقسيم الشركة إلى شركتين وبيع الشركة المنقسمة المالكة لمصنع الإسمنت الأبيض . وفي وقت سابق ، وقعت إسمنت حلوان التابعة للسويس للإسمنت عقداً مع شركة إعمار للصناعات لبيع مصنع الإسمنت الأبيض المملوك لها في محافظة المنيا .

المصدر: www.mubasher.info

(Renewables)، وفايفز (FIVES)، وسويز (SUEZ) إلى تقييم مختلف إمكانيات الاستثمار بالمنطقة الاقتصادية الخاصة بالدقم في كل مجال من مجالات نشاط الشركات الأربع وكذلك إمكانية التعاون لتحقيق أعلى قيمة ضمن المبادئ التوجيهية المحددة من قبل هيئة المنطقة الاقتصادية الخاصة بالدقم والهيئة العامة لترويج الاستثمار وتنمية الصادرات «إثراء» ، وعلى وجه الخصوص الاستثمار في مجال الصناعات الإسمنتية والمرافق ذات الصلة كمرافق أنظمة النقل ، ومحطة توليد الطاقة الشمسية ، وإنتاج الوقود البديل .

المصدر: www.aliwaa.com.lb

فلسطين

إسمنت الجوف توقع اتفاقية لتصدير مادة الإسمنت والكلنكر إلى فلسطين

أعلنت شركة إسمنت الجوف عن توقيع اتفاقية تجهيز وبيع إسمنت وكلنكر مع شركة سند للتجارة والتسويق ، والمسجلة لدى مراقب الشركات في وزارة الاقتصاد الوطني - فلسطين ، تقوم شركة إسمنت الجوف بموجبها بتصدير مادة الإسمنت والكلنكر لشركة سند للتجارة والتسويق ، وهي شركة فلسطينية تعمل في استيراد وتجارة وتوزيع الإسمنت والمنتجات التكميلية للصناعات الإنشائية في السوق الفلسطيني

المصدر: www.aleqt.com

قطر

قطر الوطنية للإسمنت تعلن عن إنتاج الإسمنت الأبيض

أعلنت شركة قطر الوطنية لصناعة الإسمنت ، عن إنتاج الإسمنت الأبيض بعد أن حصلت على التراخيص اللازمة للمنتج، الذي يتوفر في عبوات زنة 50 كيلوجراماً بسعر 25 ريالاً للكيلو كما يتوفر المنتج السائب بسعر 500 ريال للطن ، ومن أهم استخداماته ، بناء الأرصفة والحواجز الخاصة بالطرق وتغطية الجدران وإقامة برك السباحة والنوافير - ترميم الآثار - صناعة البلاط بمختلف أنواعه وسد الفواصل والفراغات بين حجارة البناء .

وقد أعلنت الشركة سابقاً خلال الشهور الماضية عن إنتاج خبث الحديد تلبيةً لاحتياجات الدولة من المادة وتحقيقاً للاكتفاء الذاتي تمشياً مع رؤية قطر 2030 ، والجدير بالذكر أن الشركة حصلت على شهادات الأيزو في نظام الإدارة المتكاملة والبيئة والصحة والسلامة المهنية ISO 9001:2015 – ISO 14001:2015 – OHSAS 18001:2007 .

المصدر: www.al-sharq.com

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مدير الشركة الوطنية للإسمنت في اليمن : نولي اهتماماً بالغاً للصحة والسلامة المهنية

تولي الشركة الوطنية للإسمنت الصحة والسلامة المهنية أهمية بالغة ؛ بل وترى أن رعاية موظفيها بهذا الشأن يعد من المسؤولية الأساسية التي تضطلع وتهتم بها قيادة الشركة ، وتوليها عناية خاصة .

ومن هذا المنطلق فإن الشركة الوطنية للإسمنت تلتزم بتوفير بيئة عمل صحية وأمنة لجميع موظفيها وعمالها داخل أقسامها وخطوطها الإنتاجية والفنية والإدارية والخدمية ، كما تعمل على تطبيق كافة الإجراءات الوقائية بهدف التقليل والحد من الحوادث والإصابات والأضرار التي قد تهدد سلامة الموظفين .

ليس ذلك فحسب ، فالشركة الوطنية للإسمنت تتبنى فلسفة طموحة ورؤية تهتم أولاً بالكادر؛ لذلك نجد أنها تتبنى برامج مكثفة ومستدامة لتعزيز وترسيخ مفهوم السلامة كمسؤولية ينبغي أن يضطلع بها الجميع كثقافة وممارسة عملية وسلوك يتسم به جميع موظفي الشركة من أدنى الهرم الوظيفي وحتى قمته .

السيد مدير عام الشركة الوطنية للإسمنت المهندس عبد الجليل عبد الله المقرعي تحدث لمجلة عالم الإسمنت ومواد البناء على هامش مؤتمر الإسمنت الذي انعقد خلال شهر نوفمبر 2018 في المملكة الأردنية الهاشمية وأوضح بأنه وفي سبيل توفير الرعاية الصحية والسلامة المهنية لعمال وموظفي الشركة وكذا للحفاظ على أصول وممتلكات الشركة وحقوق المالكين فإن الشركة الوطنية للإسمنت عملت وتعمل على تدريب وتأهيل منتسبيها في مجال السلامة المهنية بالدورات الداخلية والخارجية وتنفيذ دورات نوعية ومستمرة وتواكب برامج التأهيل والتدريب التي تشهد تطوراً مستمراً وخلاقاً .

وأكد المقرعي بأن الشركة الوطنية للإسمنت ، وهي إحدى الشركات التابعة لمجموعة هائل سعيد أنعم في اليمن ، تعمل على تقديم الرعاية الطبية المتكاملة لجميع الموظفين ؛ منها ما يتمثل في توفير العيادات الطبية المركزية ، والتي تم تزويدها بطاقم طبي متميز يعمل على مدار الـ 24 ساعة ؛ بالإضافة الى ذلك تعاقدت الشركة الوطنية للإسمنت مع 60 مشفى موزعة على جميع محافظات الجمهورية اليمنية .

مضيفاً: لقد تم تركيب شبكة إنذار مبكر للحرائق وفقاً للمواصفات الأمريكية NFPA

وكذلك تم إنشاء شبكة ومنظومة إطفاء داخلية fm200 وفقاً للمواصفات الأمريكية NFPA .

كما تم توفير معدات الحماية الشخصية لعمال وموظفي الخطوط الإنتاجية والفنية بجميع أنواعها اللازمة والتي تسهم في رفع كفاءة وجاهزية خدمات الأمن والسلامة ووفقاً للشروط والمعايير الدولية .

مشيراً إلى أنه تم تجهيز وحدة إطفاء ، ويعمل عليها فريق إطفاء متدرب لمكافحة الحرائق بهدف التعامل مع حالات الطوارئ كالحرائق والكوارث الطبيعية والحوادث الصناعية .

كما أشار مدير الشركة الوطنية للإسمنت إلى أن الشركة لديها خطط للطوارئ وتعمل باستمرار على تحليل المخاطر الوظيفية وتقوم باتخاذ الإجراءات التصحيحية لها بهدف خلق بيئة عمل آمنة وصحية للتقليل من الحوادث والإصابات في أوساط عمال وموظفي الشركة ، إذ يكمن هنا مفهوم «السلامة مسؤولية الجميع» .

واختتم المهندس المقرعي حديثه بالقول: إن الشركة الوطنية للإسمنت تضع إمكانياتها في مجال الصحة والسلامة المهنية وتسهم في خدمة المجتمع المحيط من خلال النجدة وتقديم العون في حال حدوث أي حرائق أو كوارث سواءً منها على الطرقات أو غيرها .