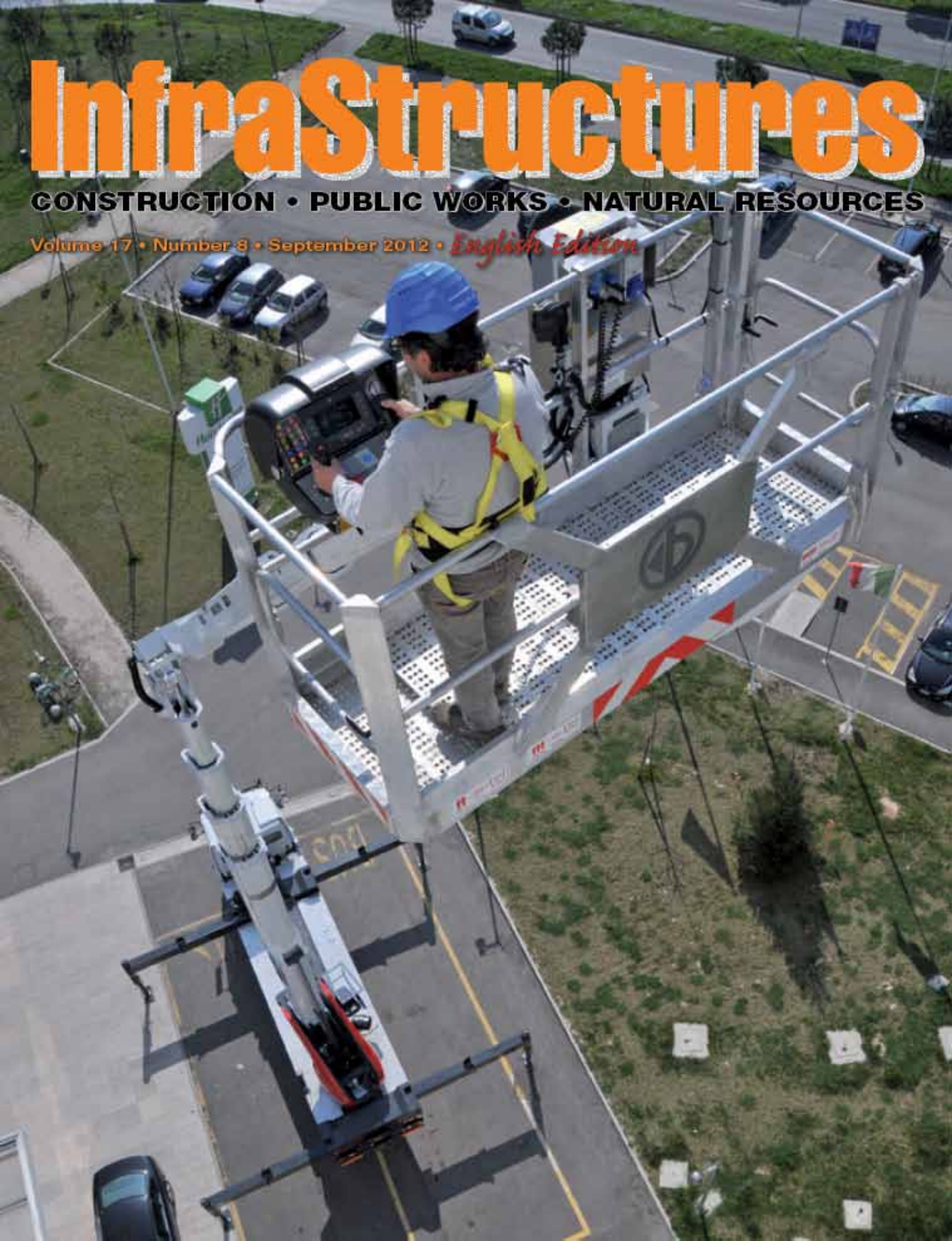


# InfraStructures

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Volume 17 • Number 8 • September 2012 • *English Edition*





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## A Brief Word...

*Autumn looms as the days shorten and the heat subsides after an unusual summer. But perhaps things are only just heating up.*

*As any contractor or dealer will tell you, things have slowed and the outlook isn't as rosie as it was just a year ago. The dollar continues its hover, but the novelty seems to have worn off. Apart from the cross border shoppers who continue to siphon money out of our economy.*

*There are promises of public service disruptions in Ontario as the McGinty government comes to terms with the fiscal reality. In Quebec the new legislature promises to be at the very least controversial, picking up from previous unrest.*

*So it's back to basics for public and private ventures. Make the most of what you've got, and be efficient with the tools available. That translates into more infrastructure care and maintenance by civic authorities and more opportunity for the adroit contractor.*

*Your business is about managing opportunity. InfraStructures' business is about showing you the tools to help you put your best foot forward.*

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On the cover:

founded in 1981, the Italian company CTE makes aerial platforms that are used in all kinds of applications.

Over the years, the company has grown to become one of the largest European groups in the field of lifting and movement of materials and people, with a commercial presence that now spans all 5 continents.

## BLACKSTONE/OTR SIGNS A LONG TERM SUPPLY AGREEMENT WITH JLG OSKOSH

Blackstone/OTR, LLC announced recently it has signed a new long term supply agreement with JLG Oskosh to supply more of their tire and wheel needs. This long term agreement involves Blackstone/OTR designing, developing, prototyping and delivering new products to enhance and improve the performance of JLG Oskosh Aerial Work Platforms (AWP) and

Telehandler machines.

"JLG Oskosh has won numerous awards for product innovation from leading publications in the rental, construction, manufacturing and access equipment industries. Blackstone/OTR is proud to continue being a key supplier to JLG as they continue to develop and manufacture industry leading AWP and telehandler equipment," said Frederick Taylor of Blackstone/OTR.

Aerial Work Platforms and telehandlers

are widely used throughout the construction and service industries where men and materials must be lifted to high and difficult to reach places. Rental companies worldwide deploy large fleets of AWP and telehandler equipment to support construction and services industries since these machines are expensive to purchase and typically only needed on a temporary or as needed basis to be utilized on specific projects.

Blackstone/OTR is a specialty supplier of tires, wheels and mounted tire/wheel assemblies to the AWP industry worldwide. The company offers a wide range of products and services in support of original equipment manufacturer (OEM) customers. Blackstone/OTR is a privately held corporation and a sister company to OTR Wheel Engineering, Inc. also of Rome, GA.

Source: Blackstone/OTR, LLC

## COCO PAVING GROUP ANNOUNCES NEW QUARRY ACQUISITIONS

Coco Paving Group proudly announces the recent asset acquisitions of quarries in Ontario.

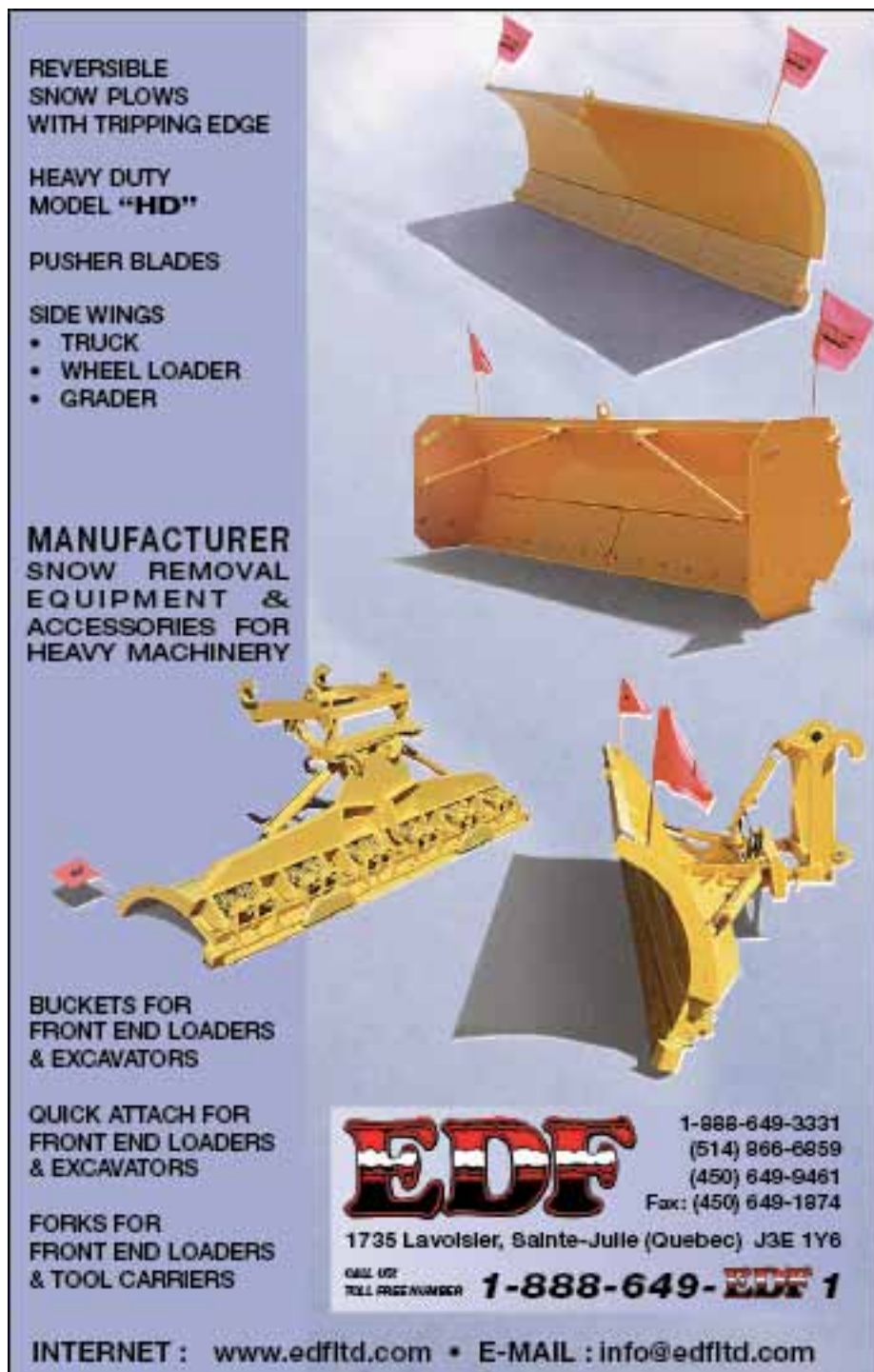
As of June 1<sup>st</sup>, 2012, the Coco Group assumed the responsibility of Reeb's quarry operations – an MNR-licensed quarry in the Township of Wainfleet, Regional Municipality of Niagara. The licensed quarry area is over 70 ha in size and provides a full range of aggregates for heavy civil construction projects.

The Barbara Ann McCarthy Quarry – an MNR-licensed quarry including ownership of their property in the Township of Ramara, County of Simcoe – provides a key geographic presence in the Simcoe Region and represents a licensed quarry area of over 80 ha in size.

On August 1<sup>st</sup>, 2012, Coco Paving purchased Badgeley Island Quarry, an asset of Uminin Canada Ltd. – an MNR-licensed quarry and ownership of the property in the Sudbury Region of Ontario, as well as a mining lease for Badgeley Point. Its licensed quarry of over 725 ha providing aggregates and silica sand.

"With our recent quarry acquisitions, Coco Paving continues to expand its vertical integration in Ontario, strengthening our premier position as a full service heavy construction company together with a competent team," said Jenny Coco, CEO of Coco Paving Inc.

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a family-owned and -operated business under the leadership of William and Nina Coco and their children Jenny Coco and Rocky Coco.

"Since the acquisition of the Ontario-Quebec Lafarge asphalt and heavy construction division, along with several others over the course of the last three years, Coco Paving continues to be the largest asphalt producer and road paving contractor in Ontario, a strong leader in the heavy construction business" said Rocky Coco, president of Coco Paving Inc.

The company has over 31 asphalt plants located in Ontario and Quebec. The Coco family business has over 45 years of experience and is well established in the marketplace, maintaining a staffing complement of over 1,700 employees.

Source: Coco Paving Inc.

#### CERF INCORPORATED ANNOUNCES PROPOSED ACQUISITION

CERF Incorporated is pleased to announce that it has signed a non-binding letter of intent to acquire a private oilfield equipment rental company located in Alberta. The existing management team of the Oilfield Rental Company is expected to manage and grow CERF's new business unit. The closing of the transaction is subject to the parties entering into a definitive share purchase agreement and to usual closing conditions including TSX Venture Exchange and other regulatory approvals.

"We are excited to have a successful oilfield rental company join the CERF group of companies. We look forward to being able to participate more directly in the oil industry and to have our wholly-owned subsidiary, 4-Way Equipment Rentals Corp. working closely with the Oilfield Rental Company in supplying some similar rental equipment and services to a whole new oilfield customer base," commented Wayne Wadley, president of CERF Inc.

CERF Inc. is a Canadian public corporation engaged in the rental, sale and service of industrial and construction equipment and waste management and environmental services.

Source: CERF Inc.

#### PURE TECHNOLOGIES ANNOUNCES PIPELINE MONITORING CONTRACT IN MEXICO

Pure Technologies Ltd. is pleased to announce that its subsidiary, Pure Inspection Technologies Mexico, S.A. de C.V.,

has been awarded new work in Cutzamala, Mexico in the amount of approximately \$4 million.

Under the contract, Pure will supply, design, install and commission a Sound-Print® Acoustic Fiber-Optic (AFO) monitoring system on a portion of a major pipeline system which provides treated drinking water to roughly 30% of Mexico City's population. The majority of this new work is expected to be completed prior to the

end of 2012. Pure will then continuously monitor this new section of pipeline – which has recently undergone electromagnetic inspection using Pure's PipeDiver® technology – for structural integrity.

Previous work included electromagnetic inspections and the installation of the Company's AFO monitoring technology on approximately 25 km of these critical pipelines. Additional information on prior work can be found in Pure's October 25,



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2010 news release.

Source: Pure Technologies Ltd.

#### **PURE TECHNOLOGIES SELECTED AS PRIME CONSULTANT IN ST. LOUIS**

Pure Technologies Ltd. announced recently that the Metropolitan St. Louis Sewer District, St. Louis, Missouri, has selected Jason Consultants Ltd., a division of Pure's Engineering Services Group, as its prime consultant to provide pipeline

engineering services for a multi-year program.

The District is responsible for wastewater and storm water operations covering approximately 1,357 km<sup>2</sup> of the City of St. Louis and St. Louis County while serving 1.3 million people. The District operates and maintains approximately 14,500 km of gravity sewers (sanitary, storm, and combined) and 200 km of force mains. The District is embarking on a multi-year

program of infrastructure / capital improvements to protect the public health and safety.

Jason Consultants Ltd. has been selected as the District's consultant to develop and implement a force main condition assessment program. The District has entered into a one-year contract with Jason with five possible option years. Jason's role as the prime consultant will include, at minimum, selection of advanced inspection technologies for the District's force mains, development of condition assessment action plans, engineering analysis of the condition assessment results and emergency response planning.

This announcement follows Pure's recent plans for a major expansion of its Engineering Services business through the establishment of up to five new regional offices in the US.

Source: Pure Technologies Ltd.



# Colours all the way!



#### **SNC-LAVALIN AWARDED STATOIL'S NORTH SEA BRESSAY JACKET FRONT-END ENGINEERING CONTRACT**

SNC-Lavalin is pleased to announce that it has been awarded a contract by Statoil ASA to carry out the front-end engineering design (FEED) for an approximately 20,000 t substructure, part of the Bressay offshore development located in the UK sector of the North Sea.

The jacket will be located at a water depth of approximately 92 m, and support operations for up to 50 wells, which will feed a large production, drilling and quarters (PDQ) topside facility. Bressay's heavy oil will be exported to a nearby floating storage unit before being shipped to market by shuttle tanker. Statoil expects a final investment decision in late 2013 and first oil by early 2018. The participating interests in Bressay Licences are Statoil (Operator) 81.625% and Shell U.K. Ltd 18.375%.

Source: SNC-Lavalin Group Inc.

#### **AECON AWARDED \$85 MILLION CONTRACT FOR VALE CLEAN AER PROJECT**

Aecon Group Inc. announced recently that it has been awarded an \$85 million contract for site preparation and foundation construction for the Vale Clean AER (Atmospheric Emissions Reduction) Project in Sudbury, Ontario.

Aecon's contract is the first phase of this project, and includes construction of





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reinforced concrete foundations, pipe rack foundation and site preparation work for the process plant. Work also includes detailed excavation and backfill for these structures.

Overall, the Vale Clean AER project will involve a complete retrofit of Vale's smelter converter aisle, the construction of a new secondary baghouse and wet gas cleaning plant, a second acid plant, and new material handling facilities to better prevent dust from entering the community. The smelter will continue to operate for the duration of the project.

The Vale Clean AER Project will see sulphur dioxide emissions at Vale's smelter in Sudbury reduced by 70% from current levels, as well as dust and metals emissions reduced a further 35 to 40%.

The project is scheduled to be completed by the end of 2015.

Source: Aecon Group Inc.

#### ELLISDON PURCHASES PME GROUP OF COMPANIES

It is with great enthusiasm that EllisDon announces the acquisition of the PME Group of Companies, based in Fort Saskatchewan, Alberta. This latest acquisition further strengthens EllisDon's civil expertise across Canada.

The PME Group provides civil site work and common construction services to the oil and gas industry in Western Canada with primary focus on the Northern Alberta region. The key bases of work have most recently been to the oil refineries, oil sands development and oil and gas pipeline sectors in the greater Edmonton, Fort Saskatchewan and Fort McMurray areas.

As Geoff Smith, EllisDon's president and CEO explains, similar people and cultures were key in the decision of bringing the two companies together: "Clearly PME is a strong company with great people and a solid record of quality construction work, a high regard for project safety and financial success. The skills and experience the PME Group of Companies brings to EllisDon is very complementary to the things that we do. Just as importantly, we believe the cultures of our firms are very similar. We are both very open, somewhat informal, people-oriented firms who take a great deal of pride in our work and in each other. I'm confident that we will be able to learn from one another, rely on one another and of course continue to grow together."

"This is an exciting day for me" said Gil Brulotte, senior vice president of PME Group,



"and from my dealings with EllisDon to date, I can say with confidence this is a great opportunity for the PME team which will allow us continued growth opportunities within a group that shares our existing values."

Source: EllisDon Corporation

#### **THYSSENKRUPP STEEL EUROPE FINDS NEW OWNER FOR CONSTRUCTION ACTIVITIES**

In October 2011, the Executive Board of ThyssenKrupp Steel Europe decided to divest the company's business with high-quality steel products for the construction industry. The decision followed an extensive analysis of the options for improving the business' competitiveness and earnings. After a review of various alternatives, it was decided to seek a best owner solution. A purchase and sale contract for the Construction Group has recently been agreed with Kingspan and the signing has taken place. The sale is subject to approval by the supervisory bodies and the responsible regulatory authorities. ThyssenKrupp expects the closing to take place by the time you read this.

The Construction Group of ThyssenKrupp Steel Europe is one of Europe's biggest suppliers of lightweight steel construction elements for use in the walls, facades, roofs and floors of industrial buildings and in cold room construction. It offers architects, engineers, planners and building owners tailored solutions for building with steel. Outstanding application examples include Stuttgart exhibition center, Melbourne sports stadium, and Hong Kong airport.

The Construction Group processes around 120,000 t of steel produced by ThyssenKrupp Steel Europe into high-quality products for the construction industry. It manufactures around 13 million m<sup>2</sup> of insulated panels and profiles per year. With sales of roughly 315 million € (390 million \$) in the year to March 31, 2012, the Construction Group comprises ThyssenKrupp Bausysteme, Hoesch Bausysteme and Isocab, employs around 780 people and has plants in Germany, Austria, France, Belgium, and Hungary, as well as international distribution companies.

In Kingspan, ThyssenKrupp Steel Europe has now found a new owner for the construction activities which will strategically develop the business and strengthen

its European market presence. The internationally successful and fast-growing Kingspan Group plc (headquartered in Kingscourt/Ireland) achieved sales of 1.5 billion € (1.86 billion \$) in 2011. The Group has been producing construction elements and insulating materials for over 35 years and employs around 6,000 people at almost 50 production sites worldwide.

Source: ThyssenKrupp AG

#### **Toronto's First "Underpass Park" officially opened in the West Don Lands**

The first phase of the most extensive park ever built under an overpass in

Canada and Toronto's first was opened on August 2, 2012 by Waterfront Toronto and its government partners.

Located under and around the Eastern Avenue and Richmond/Adelaide overpasses in the West Don Lands, Underpass Park is a unique urban public space that transformed the derelict space beneath the overpasses into an unexpected and inviting community asset.

"Underpass Park is an example of creative city building," said John Campbell, president and CEO, Waterfront Toronto.

"By viewing the space under the overpasses as an opportunity, we turned a potential

## **E.S. Hubbell & Sons Is Nordik Blades' Best Distributor in Ontario**

Nordik Blades®, a division of Usinage Pro-24 Inc., is proud to announce E.S. Hubbell & Sons Ltd the distinction of Best Distributor in the province of Ontario for the 2011-2012 seasons. Proudly receiving the award from Marco Bergeron, director of Sales and Operations of Nordik Blades® are Allan and Betty Hubbell, owners of E.S. Hubbell & Sons Ltd.

E.S. Hubbell & Sons Ltd distinguish themselves by their service and very large variety of products available in inventory. They have service points in Thamesville, North Bay and Napanee.

Nordik Blades® wishes to thank E.S. Hubbell & Sons Ltd for their support and loyalty.

Source: Usinage Pro-24 Inc.



## **Thompson Pump Introduces 6JCC High-Head Pump**

Thompson Pump and Manufacturing Co., Inc. introduces the 15 cm, high-head 6JCC pump.

The portable 6JCC pump delivers 4164 l/min, high heads to 150 m and 14.6 bar with automatic initial priming and re-priming. The 6JCC is ideal for high pressure applications such as for clear water jetting, water boosting, wellpoint installation, water supply for hydraulic fracturing, washdowns, tank cleaning and fire protection in markets such as construction, mining, oil & gas, and marine.

The 6JCC offers Thompson Pump's exclusive Enviropime System®. It provides reliable, automatic initial priming and re-priming with the environmental advantage of not spilling pump fluids during operation unlike other models on the market.

Additional options such as Thompson's Silent Knight® sound attenuated canopy, accessories, applications assistance and alternatives are available.

Source: Thompson Pump and Manufacturing Co., Inc.



Booth 5801



liability into a great neighbourhood asset, one that helps connect the community and raises the bar for urban space."

Underpass Park is defined by the massive overpass structures. Designed by landscape architecture firm Phillips Farevaag Smallerberg with The Planning Partnership, the park takes full advantage of the structures to provide weather protection for large parts of the park, creating a year-round community amenity.

The unusual spaces formed by the large concrete beams and columns have been fully utilized and transformed with interesting features and amenities such as striking public art, inviting climbing structures, two half-court basketball courts and skate-

boarding facilities.

Mirage, an innovative public art installation in the park designed by Toronto artist Paul Raff, uses mirrored stainless steel panels suspended from the overpass to reflect and bounce light within the space. The concept is to engage the public through the playful use of light and reflection to accentuate the qualities of the space in an interesting and sculptural way.

Constructed in two phases, the first completed sections of the park are between St. Lawrence Street and Bayview Avenue. Visitors can access the completed portions of the park from River Street, south of King Street. Phase two of Underpass Park, located west of St. Lawrence Street to East-

ern Avenue, is currently under construction and expected to open in spring 2013. When complete, Underpass Park will cover a total of 1.05 ha.

Construction of Underpass Park is another sign of the momentum and progress being made in the West Don Lands, which will be home to the Athletes' Village during the 2015 Pan Am Games. Work is well underway throughout the West Don Lands, both in the area that will be home to the Athletes' Village and the areas surrounding it.

Source: Waterfront Toronto

## Sommers Awards Recognize Student Achievement in Electrical Engineering Technology at Conestoga

Two students from the Electrical Engineering Technology Program at Conestoga College were recognized for outstanding achievement as winners of the Kay & Wes Sommers Award at the program's recent graduation ceremonies in Kitchener, Ontario.

Thayse Farias received her award for achievement in the Process Control section of Electrical Engineering Technology studies, while David Vos was the recipient of the award for studies in Alternative Energy.

Since 1987, the Wes and Kay Sommers Awards

are presented annually to the top students who demonstrate a positive attitude towards learning, high academic excellence and an outstanding ability to achieve the program's objectives. The awards are sponsored by Sommers Motor Generator Sales Ltd., which was established by Kay and Wes Sommers in 1936 and is today Canada's leading manufacturer of standby and prime power systems.

Conestoga has offered Electrical Engineering Technology students a choice of options in Process Control and Alternative Energy since 2008. The Process Control stream qualifies graduates in traditional technologist roles related to automating the operation and control of manufacturing and assembly systems. The Alternative Energy option was introduced to focus on technologies for alternative energy production including wind power, photovoltaic (solar) cells, geothermal, biomass and micro-hydro.

Kenneth Sommers, president and son of the company's founders and his wife, Bobbi, presented the awards. "Recognizing talented young people like this is a great way for Sommers to celebrate its 75<sup>th</sup> year of advancing power technology," he said. "We're very pleased to have such an opportunity to support the future of our industry in Canada."

Source: Sommers Motor Generator Sales Ltd.



*L. to r.: David Vos, Kenneth Sommers (president of Sommers Motor Generator Sales Ltd.), Bobbi Sommers, Thayse Farias and, representing Conestoga's Electrical Engineering Technology Program, David Garner*

## BIRD ANNOUNCES CONTRACT AWARD OF ALBERTA PUBLIC SAFETY AND LAW ENFORCEMENT TRAINING CENTRE

Bird Construction Inc. announced that Alberta Infrastructure has awarded to a subsidiary of Bird a contract to construct the new Alberta Public Safety and Law Enforcement Training Centre located in Fort Macleod, Alberta. The complex will be built on 130 ha of land in the southeast corner of Fort Macleod and will include classrooms, a library, a cafeteria, accommodations, indoor and outdoor firing ranges, a scenario building, a driving course and recreational areas. Construction of the \$95 million facility will commence later this summer with an anticipated completion date in the fall of 2014. The value of this project will be added to Bird's backlog in the third quarter.

Source: Bird Construction Inc.

## ASTEC ANNOUNCES DATES FOR ADVANCED CUSTOMER SCHOOLS

ASTEC announces the dates for the Advanced Customer Schools.

Attendees can choose to attend one of these five sessions: December 10-13, 2012 and January 7-10, January 14-17, January 28-31 or February 4-7, 2013. Registration opens on October 1, 2012.

ASTEC Advanced Customer Schools teach hands-on maintenance and advanced troubleshooting techniques to fix problems fast. Instructors include ASTEC and Heatec Engineers and Service Technicians with decades of field experience.

During the four full days of instruction, students will have the opportunity to meet with instructors and fellow students to exchange information. Additional networking opportunities are provided during breakfast and lunch each day, and at special dinner receptions each night.



New for 2013, ASTEC has added a new controls classroom for a new extended three-hour controls class. This advanced controls class covers: networking, diagnostics, hard PLC, warm mix and calibrating for the PMII, PMIII, TCII systems. ASTEC is also enhancing its Double Barrel® drum class by allowing students to work on a life size drum and outer shell. Topics include: flighting, tip arrangement, outer shell, liners, discharge, recycle and veiling.

Source: ASTEC, Inc.

#### **PROSPECTIVE EMPLOYEES ARE INVITED TO BUILD THEIR LEGACY WITH PCL**

The robust construction marketplace and the resulting demand for workers has prompted the PCL family of companies to launch a recruitment campaign geared to helping the organization meet its existing and future employment needs. The "My Legacy" campaign aims to attract people who are interested in a rewarding career where they can build their own legacy with PCL.

"PCL has developed a culture of expertise and mentoring that is unique in the industry," said Rob Holmberg, executive vice president, Canadian Buildings, and director of construction, Australia. "At PCL you have the chance to join one of the most dynamic companies in North America and contribute to a successful team that works hard, plays hard, and makes a difference in your community."

Currently, PCL has more than 950 projects underway across the country with an extensive backlog of work that continues to grow. The emerging opportunities, and growing demand for labor, have created openings in all areas of the company, both for individuals new to the workforce and those who are experts in their field.

PCL's recruitment campaign will seek to attract prospective employees from across Canada, the United States, and overseas.

The "My Legacy" campaign brings a unified voice to PCL's recruitment efforts and a specific listing of job openings in each of the unique markets where it operates.

The PCL family of companies is consistently ranked among the best to work and is recognized for offering career advancement opportunities and a challenging and supportive work environment that promotes personal and professional growth.

Source: PCL family of companies

## **"Ocean Reef" Island Project**

Two artificial islands are being created by millions of cubic meters of specially relocated rock and sand off the densely populated coastline of Panama City. These, the first man-made islands in Latin America, will be home to 138 luxury properties when completed, and even a yacht marina. They will be linked to each other and to the mainland by two 160 m-long bridges.

The first island currently under construction covers an area of 100,000 m<sup>2</sup>. BAUER Fundaciones Panamá S.A., the local subsidiary of BAUER Spezialtiefbau GmbH, is carrying out the vibrocompaction works. Some 12,800 compaction points at an average depth of 15 m have to be completed within just four months, by the end of October 2012. The works for the Bauer subsidiary began last June. At peak times four deep vibrators are in use simultaneously.

BAUER Spezialtiefbau GmbH has prior experience in vibrocompaction work on an artificial island – for example the "Palm Jumeirah" in the Emirate of Dubai, which was officially opened in 2008. Most of the approximately 7,000,000 m<sup>2</sup> of sand dredged up on that project was compacted by as many as 17 Bauer deep vibrators.

Source: BAUER Group



## **CTE B-Lift 510 High Range New Video**



CTE continues the revamping of its products video. The Italian company uses this new way to communicate with its clients as it gives the opportunity to focus on the product peculiarities and on job applications.

The new version of the B-Lift 510 HR aerial platform video is now available. In the new "remake", CTE gives greater emphasis to the main features of the machine as was also done earlier in the video of ZED 21 JH and B-LIFT 620 HR.

Source: CTE S.p.A.

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## Finnish Wave Power Ready to Surge

Wello's Penguin is harvesting ocean energy in Atlantic Ocean, just off the cost of Scotland.

At the end of June, Finnish renewable technology developer, Wello Ltd., successfully installed the Penguin wave energy converter to Orkney waters. The Penguin wave energy converter is now floating and connected to mooring system. After careful planning the actual installation of the Penguin took only 36 hours. The installation was conducted by a multicat vessel assisted by a harbor tug.

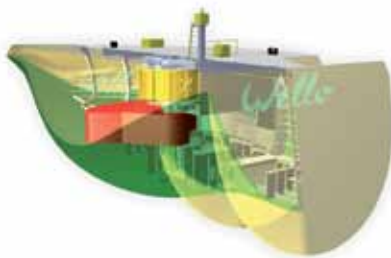
Wello Penguin is a unique and patented construction to harvest ocean energy. The 30 m-long vessel sways with the waves, at the same time spinning a generator inside



Heikki Paakkinen, founder of Wello commented right after the installation: "I was surprised by the ease of the deployment. Once everything was well prepared and planned there were no major surprises.

and performance optimization based on the data.

Aki Luukkainen, CEO of Wello Ltd, says: "We are proud to be one of the few companies to have full size wave energy



the unit. The Penguin is based on industry standard components, including a generator typically used by wind turbines, to allow scalable manufacturing by virtually any shipyard using existing manufacturing processes.

From the installation point of view a floating device is a perfect solution."

Initial results confirm efficient rotating movement of the device even in smaller waves than originally anticipated. Installation will be followed by data collection

converter deployed. With the installation we were also able to demonstrate scalable and cost efficient deployment."

Source: Wello Ltd.

## Effer and MTT Engaged In the Reconstruction of Iraq

Effer has passed the inspection by engineers of the Ministry of Transport in Iraq, winning the first of a series of tenders, including an order of 16 Effer model 440 4S cranes. The presentation of the first units, which took place in Effer Minerbio, Italy, has gotten great success, overcoming the expectations of the delegation of the Ministry present.

The Effer 440, equipped with slewing ring and reduction gear unit, were installed on Iveco trucks and ordered by Machine Technology Trading Company (MTT) headquartered in Baghdad, Iraq.

MTT is one of the main supplier of trucks, special vehicles and equipment as



well as earthmoving construction machines, for the growing market in Iraq.

The company has been engaged for years in all Iraqi territory, supplying high-quality products, at the service of the

slow and difficult reconstruction, among political tensions and economic hardships.

Source: Effer S.p.A.



# Compressed Earth Blocks Help Build Communities in Third-World Countries

A recent product introduction by Vermeer Corporation has the potential to help address the critical world housing shortage. The Vermeer BP714 Block Press produces compressed earth blocks made from soil with a marginal amount of cement — in some instances 75% less than a cement block — yet has similar strength as a cement block. Compressed earth blocks can be used to build a variety of structures, including homes, schools, churches, clinics and stores.

A Vermeer BP714 block press is used to create a 10.2 cm x 35.6 cm x 17.8 cm compressed earthen block. The mix is made of 95 l of clay-based sandy soil mixed with 7.6 l of Portland cement, then 5.7 l of water is added to the dry ingredients. The block press uses dual compression to form the block. Hydraulic rams first compress the block to provide the uniform dimension as mentioned above. Second, they create cavities that allow areas for seismic

reinforcement, roof tie-downs, electrical conduit and plumbing. The second compression provides for uniform density of each block.

"We are able to maintain consistency in dimensions of the compressed earthen blocks, which is critical when you're trying to compete against the cement block market," said Terry Butler, operations manager for Vermeer Corporation and the Vermeer Charitable Foundation. "The Vermeer blocks feature a unique interlocking design that does not require any mortar between the blocks when they are stacked, so the construction process may be faster than the conventional masonry method."

The blocks need to be cured following the production process. Generally, 50 blocks are stacked onto a pallet and wrapped with plastic and allowed to cure and stabilize dimensionally for seven days. Once the cure process is complete, the blocks are ready for building, and after 28



days they become hard as a brick. No firing of the block is required which is an advantage over traditional brick production.

Designed for use in the most remote parts of the globe, the BP714 is built with simple yet reliable hydraulic controls. It does not have any complicated electronic circuitry and the 12.6 hp (9.4 kW) diesel engine features a manual start. The machine can produce three blocks per minute, and provided there is a continuous supply of raw material, the BP714 will produce about 180 blocks per hour.

Source: Vermeer Corporation



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## AHWI-PRINOTH Presents the New Raptor 800 Mulcher

Specially developed for the most difficult tasks such as heavy clearing, vegetation management around pipelines and power lines, creation of firebreaks and re-cultivation tasks in professional plantation and forestry, the Raptor 800 perfectly combines productivity and reliability. Everything is designed for durability, ease of maintenance and a high level of efficiency, down to the tiniest detail.

"After a very intensive test phase, under the toughest conditions, during which the Raptor 800 faced challenges such as clearing in standing stock, removing logging residue and pulling up rootstock, the Raptor 800 performed convincingly," explained Daniel Chaput, regional manager for the Raptor 800.

The electronically-controlled Caterpillar C18 engine develops 630 hp and 2,042 lb ft or torque. The engine meets the EPA Tier 3 emission standard.

Optimum weight distribution and low center of gravity make the Raptor 800 the

ideal low ground pressure tracked vehicle for all terrain conditions.

The new patented Power-belt system that are driving the mulcher head increases the

amount of power transferred from the engine to the mulcher head. Thanks to this new drive system, the result is significant increased productivity and cost savings.

The mulcher is connected to the tracked vehicle via a 4-point lifting gear and the attachment can be raised higher than most of mechanically driven mulcher heads, even at full load. The system therefore offers the ability to face every work situation in the best possible way. The mulcher achieves very good quality shredding and can tackle hard wood effortlessly, due to the combination of the large diameter of



the drum and the arrangement of the teeth.

The newly developed delta tracks provide comfort for the driver and reduce vibrations. In addition, they provide an excellent self-cleaning effect and enable the vehicle to drive through water up to 50 cm deep.

AHWI-PRINOTH will exhibit and demonstrate Raptor 800 at DEMO International from September 22-23, 2012, in Saint-Raymond, Québec.

Source: AHWI-PRINOTH

 Booth A25

## PEMEX Green Lights CHMR's New Non-Hydraulic Shale Oil Extraction System on Chicontepec Formation Wells

Chimera Energy Corp (OTCBB: CHMR) disclosed that meetings with PEMEX in Mexico City are progressing exceedingly well, with an early development being that PEMEX has already identified three Chicontepec Formation wells for use of Chimera's new Non-Hydraulic Shale Oil Extraction system. The meetings include PEMEX officials, Chimera Energy Corp president Charles Grob, Weis S.A.'s representative and other officials. The purpose of the meetings is for PEMEX and Chimera Energy Corp to collaborate on utilizing CHMR's revolutionary exothermic Non-Hydraulic Extraction system throughout Latin America, pursuing an initial deal between the two companies that was executed recently.

The Non-Hydraulic Extraction system is a revolutionary Shale Oil extraction technology designed to safely and economically replace hydraulic fracturing (AKA fracking and fracing) without negative environmental impacts. The new process uses no water.



The development of using the new process on Chicontepec Formation wells is very significant, as this basin is considered Mexico's largest certified hydrocarbon reserve, totaling more than 139 billion barrels of oil (22.1x109 m³).

Company president Charles Grob expects to announce several major business developments, once the meetings in Mexico City have concluded.

Non-Hydraulic Extraction has recently emerged to be asserted as a cheaper and more effective extraction method that does not affect groundwater at all. Chimera Energy Corp is in the process of reengineering this new method for mass production, relicensing and sales.

Source: Chimera Energy Corp



# FedEx Driver Earns National Grand Champion Title

For the third time in nine years, a driver representing FedEx Corporation has earned the coveted National Grand Champion title at the 2012 National Truck Driving Championships (NTDC). This year's competition was held in Minneapolis, Minnesota, August 7-11.

Don Logan, a driver for FedEx Freight based in Topeka, Kansas, was crowned National Grand Champion for achieving the highest score among the winners of all nine classes in the competition. He also earned the National Champion title in the Flatbed class and won the Vehicle Condition Award, which is presented to the competitor who best exemplifies his or her understanding of equipment and commitment to safety. The 2010 National Twins Champion and 2009 National 3-Axle Champion, Mr. Logan is a six-time Kansas state champion who has exceeded the 2 million-mile accident-free mark during his 25-year driving career.

In addition to Don Logan, two other

FedEx drivers captured National Champion titles.

Roland Bolduc, a driver for FedEx Express domiciled in Windsor Locks, Connecticut, won the 3-Axle class. A 10-time state champion who has accumulated more than 1.5 million safe-driving miles, Mr. Bolduc has been a professional driver for 28 years and is a former captain for the American Trucking Associations' (ATA) America's Road Team.

Ed Gertz, also a driver for FedEx Express, attained the national title in the Step Van class in his first appearance at the NTDC. Based in Londonderry, New Hampshire, Mr. Gertz is an 18-year professional driver.

Additionally, eight competitors representing FedEx placed among the top-three finishers in their respective vehicle classes:

"The performance of all of our competitors at the NTDC confirms that FedEx team

members are among the most elite group of drivers in the industry," said Frederick W. Smith, chairman and CEO, FedEx Corp.

The ATA sponsors the annual championships, known as the "Super Bowl of Safety," to recognize industry leadership in safety and to promote professionalism among truck drivers.

Source: FedEx Corp.



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# TRACTO-TECHNIK Is Looking Into the Future After 50 Successful Years

As is often the case with highly successful companies, TRACTO-TECHNIK started their success story in a small rented garage in the village of Lennestadt, in Germany. The garage is even still standing today. It all began on November 14, 1962 when 4 employees started to build pulling devices.

This equipment pulled drill rods and trench sheeting out of the ground. The main customer in those days was KRUPP Bautechnik, in Essen.

Nice weather conditions on the first day turned out to be a positive sign: in conjunction with the economical development all roads seemed to be leading upwards in the years to follow. Still, it was not easy in the beginning.

"My father was an optimistic person and looked at things from this angle. Whoever puts his head in the sand cannot discover anything new. In other words, he grabbed hold of every problem by the scruff of the neck when he believed that he could find a useful solution. Most of his results brought us forward very quickly. Our innovative strength grew through him and this is why, even nowadays, the driving factor and incentive are the main innovations," remembers Wolfgang Schmidt, son of the company founder Paul Schmidt and the current company director.

TRACTO-TECHNIK was still in its nursery years, but started to learn very quickly to stand on its own feet. The young company gained recognition and confidence in its competence and innovation strengths.

The company name was programmed, as the first products carried the names TRACTODRILL and TRACTOMAT. The latter won the coveted "The Blue Band" award in Brussels and is still applied today for the pulling of guard railing rods adjacent to roads.

That was not all. A short time later, KRUPP presented a development consignment to TRACTO-TECHNIK for a hydraulically-driven ramming device. The professional knowledge in hydraulics was obtained by Paul Schmidt and his col-

leagues at an evening school in Siegen. Afterwards they searched in vain for a machine capable of handling hydraulic tubes. This included cutting lengths, deburring, bending and the pre-assembly of cutter rings. In the end, Paul Schmidt looked at this casually. "If there is no such



thing, then we will invent the machine."

That was the birth of TUBOMAT. The interest of manufacturers did not take long to arrive. With small technical improvements to its original form, it is still the yardstick in hydraulic tubing.



*The management team at TRACTO-TECHNIK: Meinolf Rameil, Wolfgang Schmidt and Timotheus Hofmeister.*

Forty years after the arrival of the first TUBOMAT, the business field around the pipe forming technology develops and produces safe solutions all around the tube package. This includes innovative machines and precise measuring technologies, as well as intelligent software solutions. The latest highlight is a fully electric right-left pipe bending machine fitted with 15 servo-axials, which can produce highly complex pipe figures within seconds.

A small incident in 1970 led to a radical upheaval in the product offering. A fresh tarmac road in front of the Schmidt's house had to be disrupted once again after

only a few days. In order to install a water pipeline. This gave Paul Schmidt another clever idea. The soil displacement hammer GRUNDOMAT was born – the start of many innovative developments for the trenchless pipe installation field.

As market leaders, the GRUNDOMAT soil displacement hammers are also "Global Players", as they are applied on a daily basis all around the globe. For the trenchless installation technology the "mole" has become a strong symbol. It has become the marketing sign, which has won the trust and regards of our customers.

Up to now, more than 350 patents secure the R&D. This has turned TRACTO-TECHNIK into a pacemaker and pioneer. TIMI (Tracto Ideas Make Innovations) makes sure that the innovation processes at TRACTO-TECHNIK have a true structure.

The broad-mindedness and enthusiasm for technology has provided numerous new developments. These have also brought a large amount of awards and tributes.

The steered bore technology has been especially fascinating. The tasks and requirements were diverse and lead the way to the level of technology available today via a non-exemplary development cycle. They were true pioneering achievements. Always new ideas on the board – arising from daily practical experiences – which were converted into this rather young technology under the motto: "The better is the enemy of the good".

The company Beerman from Hörstel-Riesenbeck is currently working with 20 GRUNDODRILL bore rigs. "Due to our collective experiences we have gained from each other over the years, we hold TRACTO-TECHNIK in high esteem, especially as they are always ready to listen to the challenges of the market, their innovative performances, as well as their reliability," said the company owner, Ewald Beerman. The latest product is a bore rig for the installation of house connections, which is applied out of a so-called keyhole with a diameter of only 65 cm.

The underground renewal of pipes with the GRUNDOBURST technology is a further center of focus. Service and sewage pipes in need of sanitation are replaced



in the same bore path by pipes of the same size, or even larger with the relevant hydraulic power, providing a new effective service life for decades. Its chief aspect is a patented QuickLock bursting rod, which is not screwed, but is simply latched into place

The GRD bore technology arrived in 2007 for an efficient exploitation of geothermal energy. Bores are carried out from a plastic manhole in all directions (360°) and inclinations (30°-65°). The compact bore rig can be used even on the tightest premises and hardly causes any surface damage. TRACTO-TECHNIK leads with example and applies successive geothermal heat at its operating plants.

Production techniques have been constantly adapted to meet the requirements with modern CNC manufacturing technology. The aim has always been in part to increase productivity, but mainly to achieve a solid quality for highly reliable and long-lasting products.

In the 1980s the company's growth started to accelerate and spread out all over the globe, first of all in England, then

in France, USA and Australia. The TT export department and the sister companies take care of and support more than 60 partners all over the world.

TRACTO-TECHNIK has got clear ecological targets, which are thoroughly and constantly encouraged, as well as an environment-friendly machine technology and also numerous ecological projects. In the meantime the nature protection board (NABU) has implemented the trenchless pipe installation method into its general

directives.

Continuity and stability have always been benchmarks in the company's policy. The challenges of the future are seen by TRACTO-TECHNIK in a modern and safe supply and disposal in the energy and communication field, where technologies and methods of the trenchless pipe installation can contribute substantially.

Source: TRACTO-TECHNIK GmbH & CO KG



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# A Bridge for the Bridge

Forwarding specialist Spedition Kuebler accomplishes unique transport operation with heavy-duty vehicles from Scheuerle.

Bridges are there in order to make connections, to overcome rivers and gorges. But what if you need to move a 100 t load across a bridge built to withstand only 12 t



deliver a 60 t transformer for a sub-station in Ingelfingen. The difficulty with this project was the fact that a bridge which had to be crossed only had a 12 t permissible weight allowance. Together with that of the transport vehicles, the total weight of the load easily reached around 100 t. However,



from 4-wheeled vehicles? Answer: you need a very long InterCombi combination and then push the load from one end to the other.

Spedition Kuebler from Michelfeld, in Germany, was awarded the contract to

the heavy-duty forwarding specialists from Kübler were able to find the right solution.

In the first phase, the transformer was taken to the bridge on 8 axle lines of a Scheuerle InterCombi. On the other side, an additional 24 axle lines InterCombi unit

was waiting to play its part. Very slowly, the empty InterCombi was moved back across the bridge to the loaded unit.

Thanks to the number of wheels available, the weight of the vehicle could be evenly distributed ensuring that an individual wheel load of 3.4 t could be



realized. As it happened, this was just within the permissible limit for the thin concrete slab of the bridge. The combination was then coupled so that 12 axle lines were positioned before and after the bridge respectively.

## CON-E-CO Debuts New ALL-PRO Batch Plants for Global Markets

CON-E-CO, an Oshkosh Corporation company, recently introduced the ALL-PRO® 5C decumulative batch plant, the ALL-PRO 12C decumulative batch plant, and the ALL-PRO 5CA batch plant. All three batch plants are engineered to easily fit inside of a 40-foot high cube container for ocean shipment or on a flatbed trailer for North American shipments. In addition, CON-E-CO announced the availability of a 350 barrel capacity cement silo, also sized to fit inside of a 40-foot high cube shipping container.

"We continue to see growth for the CON-E-CO brand in markets around the globe. These new ALL-PRO plants are the direct result of customer input for easy to transport units that are built to deliver the solid performance and quality that we are known for," said Neil Smith, CON-E-CO general manager. "In the current economic and monetary environment, these new products represent an excellent value for concrete producers in North America and anywhere ready-mixed concrete is

produced."

All plants feature the patented CON-E-CO cement batcher for uniform blending and optimal ready-mixed concrete quality, and are designed for fast set up. They are ideal for ready-mix producers who want to upgrade their batcher for use with existing storage bins and silos. All are available with an optional rear-mounted axle so they can be easily moved from jobsite to jobsite for maximum flexibility and productivity.

The ALL-PRO 5C delivers concrete batch mix materials directly to the mixer truck using a decumulative method of weighing. The batch plant features a 1 to 4.5 m<sup>3</sup> cement batcher capacity and a 8.5 m<sup>3</sup> aggregate weighing bin capacity. A fully automatic, computerized batch control system is optional.

The ALL-PRO 12C decumulative style



batch plant features a larger cement batcher capacity from 1 to 9.2 m<sup>3</sup>, and a 12.3 m<sup>3</sup> aggregate weighing bin capacity. Optional equipment includes a 45 m<sup>3</sup> ground-mounted cement silo and a 152 mm diameter feeder screw conveyor.

The ALL-PRO 5CA features a cement batcher and aggregate batcher capacity of 1 to 4.5 m<sup>3</sup>. This plant uses an accumulative method of weighing aggregates. The unit uses a 305 mm diameter cement batcher blending screw and a 610 mm wide aggregate discharge conveyor that are powered by 10 hp motors.

Source: Oshkosh Corporation





The axle lines positioned on the bridge itself were raised, which meant that the complete weight of the transformer was distributed on the axle lines resting on solid ground. This was made possible using vehicle technology developed by Scheuerle Fahrzeugfabrik GmbH. With a 36 t technical axle load, the modular InterCombi platform trailer has been designed for the safe transportation of large loads and provides

sufficient reserves through the robust construction of the frame. Thanks to the hydraulic axle load distribution, the loading limit can always be maintained. "In effect, we have built a bridge across the bridge," said Ken Roessler, managing director of Spedition Kuebler. Slowly but surely, the transformer was then pulled to the other side by means of steel cables.

Source: TII Group

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# Bobcat Upgrades 700 and 800 M-Series Loaders

Building on the productivity of the Bobcat® 700 and 800 frame-size loaders, significant upgrades have been made to the skid-steer loaders, compact track loaders and all-wheel steer loader. These changes incorporate greater machine performance through enhancements such as increased breakout and lift forces, better horsepower management, shorter cycle times and simplified display navigation.

Bobcat Company has also continued to take steps toward complying with Environmental Protection Agency (EPA) diesel engine emissions standards by adopting a systems approach to simultaneously achieve standards compliance and improved machine performance. Upgraded loader features apply key interim Tier 4 (iT4) technologies to provide enhanced loader functionality and reporting for machines with horsepower ranging from 75 to 174.

Bobcat 800 frame-size loaders (S850 and T870) have been equipped with increased hydraulic pressures and industry-leading breakout and lift forces, resulting in shortened digging cycles. The increased lift and tilt forces on the S850 and T870 will improve machine efficiency in lifting pallets, concrete pieces and wet clay or dirt, and rolling them back to the carry position with less machine effort. For example, the iT4-equipped T870 will have nearly 17% more lift breakout force than the Tier 3 model.

For Bobcat loaders equipped with Selectable Joystick Controls, an optional auto-idle function is available. Auto idle allows for quieter overall operation and reduced fuel consumption. This feature automatically activates, causing the engine rpm to drop to idle if a loader's functions are not used within 5 seconds. With the optional deluxe instrument panel, operators can set a preferred activation time between 4 and 240 seconds.

The new iT4 engines can interpret information that will allow horsepower management – a standard feature of Bobcat Selectable Joystick Controls – to be based on engine torque instead of engine rpm. This minimizes engine stalling and provides additional travel speed at low-mid engine rpm.

A new hydraulic control valve allows use

of the tilt function – rolling out or rolling back an attachment – regardless of auxiliary system pressure. This change makes it easier to operate attachments like planers, wheel saws, grapples, tillers, etc.

All deluxe instrument panels in M-Series loaders, including 600 frame-size loaders not affected by iT4 in 2012, will provide simplified navigation and more in-depth information regarding operator and machine performance. Operators can set three different drive response modes and select them with simple push-button controls in the left panel information area.

As with all iT4 emissions controls technologies, it is important to remember that only ultra-low-sulfur diesel (ULSD) fuel may be used in iT4 compliant 700 and 800 frame-size loaders. Sulfur is a significant contributor to pollutants that exist in diesel

engine exhaust, and iT4 engines are dependent on ULSD, which has significantly less sulfur compared with prior diesel fuels (15 ppm versus 500 ppm). Sulfur amounts that exceed those contained in ULSD will damage or ruin key exhaust system components, requiring replacement or costly repairs.

Source: Bobcat Company



## Milwaukee Introduces New Max-Lok™ Carbide Extension System

Milwaukee Electric Tool Corporation introduces the new Max-Lok™ Carbide Extension System, designed to both extend and increase the versatility of SDS-MAX rotary hammer bits.

The easy to use Max-Lok™ system allows SDS-MAX bits to drill deeper and in tight spaces by extending them up to 210 mm. With Max-Lok™ extensions ranging in length from 317.5 mm to 210 mm, the Max-Lok™ system is designed to give users the ability to drill in hard to reach areas or drill large diameter through holes (over 31.75 mm) while maintaining maximum energy transfer for increased productivity.



For complete versatility, the system can be driven with all rotary hammer bit retention types. Max-Lok™ extensions are available in SDS-MAX, SDS-PLUS, or Spline shanks that each convert to an SDS-MAX shank at the opposite end. This allows the user to connect all three shank types to the Max-Lok™ connection (48-20-6950) and securely lock both the extension and bit together for maximum reach.

With the launch of the new Max-Lok™ Carbide Extension System, Milwaukee Electric Tool continues to demonstrate its commitment to delivering innovative accessory solutions to save time and increase productivity on the jobsite.

Source: Milwaukee Electric Tool Corporation



# Rotary Lift MOD30 Celebrates 10<sup>th</sup> Anniversary

Rotary Lift's popular MOD30 modular environment-friendly inground lift celebrates its 10<sup>th</sup> anniversary in 2012.

Although heavy-duty inground lifts had been the preferred choice of truck and bus maintenance facilities for decades, increasing environmental and safety concerns in the 1990s led many service managers to install surface lifts instead. When Rotary Lift introduced the MOD30 modular inground lift in 2002, it changed the industry.

"The MOD30 virtually eliminated customers' environmental and safety concerns, while at the same time providing unique productivity-enhancing features like our patented Universal Saddle Adapter, joystick controls and auto spotting system," says Doug Spiller, Rotary Lift heavy duty product manager. "As a result, the MOD30 has been a top seller, with more than 1,000 installed in customer locations around the world over the last 10 years."

Through the years, Rotary Lift has continuously improved the MOD30 inground

lift so it provides maximum versatility to lift heavy-duty vehicles with the latest design features, including low-floor and kneeling buses and trucks with aerodynamic fairings and new emissions equipment.

The MOD30 inground lift provides greater and faster access to more service areas on a vehicle than any other heavy-duty lift. It uses half the hydraulic fluid of traditional inground lifts, and the entire system is contained in an enclosure that's coated inside and out with Rotary Lift's exclusive EnviroGuard™ coating, a 6 mm thick polyurethane sealant that protects against electrolysis and harsh contaminants for the 30-year life of the lift. Only the MOD30 meets the environmental

standards of underground storage tanks (USTs), including lead detection, fluid monitoring, fluid extraction and an alarm system.

To alleviate safety concerns, the MOD30 comes with galvanized shutter plate trench covers that automatically move to keep the pit covered at all times. The lift's VEC™ (Variable Equalized Control) system raises both jacks simultaneously for level lifting, instead of "stair-stepping" a vehicle by first raising one end, then the other.

Source: Rotary Lift



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# How To Keep Your Cool While Loading "Molten Lava"

*Chloe Doyle,  
on behalf of Volvo Construction Equipment  
Special Collaboration*

of such a high temperature, the machines stand 20 m apart in case of a fire or an explosion.

"Safety is of the utmost importance on a site like this," explains Ronald Utland, site manager of Harsco Metals Norway. "Our workforce undergoes rigorous training on an ongoing basis, and we make sure they have the safest equipment and protective clothing.

"We take every precaution to avoid explosions on site," says Mr. Utland. "But if one were to occur, it's essential that our equipment can withstand the blistering heat and keep our operators safe in the event of a blast."

The site currently operates a specially-modified Volvo L220F and two L220Gs that have steel plating fitted to the front and underneath of the machine for heat proofing and thermal protection. Volvo Construction Equipment and its local Norwegian dealer, Jern & Maskin AS, have

in Norway and Sweden. The machine will be available with 40 different op-



Liquid slag extraction can look like something out of a volcanic disaster movie, with red-hot "molten lava" being transported by machines with bullet-proof glass – reinforced in case of an explosion – in extreme temperatures.

Of course, there is no disaster and what appears to look like molten lava is actually liquid slag – a glass-like by-product from melting

scrap metal. Global steel mill service company, Harsco Metals, extracts the slag in liquid state at an incredible 1,300°C from its foundry in Mo i Rana, Norway, on a daily basis – making it one of the

harshest working environments for a wheel loader imaginable.

Underneath the steel furnace in a narrow tunnel, workers tap out about 10 m³ of slag every 40 minutes, while constantly feeding the furnace with scrap metal. There is a tight turnaround between loads so machines need to work in pairs. With loads



worked with Harsco to provide special slag handling equipment since 2000. Next year Volvo CE will launch the new slag-handler application L220G – its first factory-ready slag handler.

Harsco has already purchased three L220G machines with pre-series options for slag-handling applications for use

tions – straight from the factory – to make it suitable in the extreme temperatures of slag handling applications. The front windscreen is made of bullet-proof glass to stop the glass shattering into the cabin, and the frame is also reinforced to keep the window in place. Further modifications include a reinforced windshield and fire-protective material throughout.



"In the past we've experienced big problems with tires," Mr. Utland explains. "They would often catch fire or melt, and the average lifetime was just 450-650 hours. Now we use metal chains around the outside, which cause wear but they've increased the lifetime of our tires to around 3,000 hours."



The machines each work four 24-hour shifts per week and the site shuts down for just 48 hours over the weekend. The rest of the time the wheel loaders are shifting the molten slag a distance of 60 m to lay it out for cooling before it is loaded onto dump trucks and taken for crushing.

"Buckets are a big problem for us," Ronald Utland admits. "Finding steel that doesn't change structure when heated to more than 700°C is difficult, but essential in our business. We are currently trialing a new range of buckets made using more high tensile steel that could improve the durability compared to other buckets by up to three times."

The slag is a valuable and useful by-product of smelting ore, Mr. Utland says: "Unlike other industrial by-products, slag actually has many uses and rarely goes to waste. It can appear in concrete and aggregate road materials, to add a bulk consistency to the mixture. Harsco is very aware of its duty to care for the environment and recycling is one way to ensure materials do not go to waste.



"We have been working with Volvos for many years at our sites across the world," he continues. "The machines use less fuel and are easy to operate – two essential features in our working environment."

Harsco Metals was established in 1953 when it was known as the Harris Steel Corporation, and in 1956 the Harsco

Corporation was formed. Operating at 160 metal production sites in 30 countries, Harsco is one of the biggest service providers for steel industries in the world. Its local Volvo CE service provider, Jern & Maskin AS, is supporting the machine fleet to maintain uptime in this severe environment.

## Outotec Delivers Technology to a Canadian Plant

Outotec Oyj and Orbite Aluminae Inc. have agreed to terms for a project related to the Canadian company's new plant to process high purity alumina. The scope of delivery for Outotec involves both basic and detail engineering as well as providing fluidized bed technology with special Outotec equipment for decomposing and calcining high purity alumina. Both parties have agreed not to disclose the contract value.

Orbite's facility is being built in Cap-Chat, Quebec. The basic raw material in the new process is aluminous clay. High purity alumina is used in a variety of high-end technology applications. Half of the world's annual production of ultra-pure alumina goes into producing synthetic sapphire which is used in fiber optics and, more recently, in LED lighting for home and automotive markets. It is also essential in various new applications in the electronics industry.

Prior to the announcement of this new collaboration between the two companies, Outotec and Orbite had already been working together on another project for

the smelter-grade alumina hydrochloric acid-based plant. Two factors involved in Orbite's decision to reward Outotec the new project are the fact that it has proven to be a reliable technology provider and its long-standing reputation as a company capable of executing challenging projects similar to the upcoming work to be performed.

"This project is a perfect example of how Outotec is prepared to meet the highly specialized needs of our customers, such as Orbite's requirements of innovative and clean technology. Not only have we been developing benchmark technologies for more than a century, but we also partner with customers who have unique requirements to meet their goals, and that is why we have remained leaders in the various




© Matti Immonen, Outotec Oyj

industries we serve," explains Outotec CEO Pertti Korhonen.

"We are proud to team up with Outotec, a recognized leader in their field. Their expertise will contribute to a fast deployment of our first commercial plant for high purity alumina," commented Richard Boudreault, president and CEO of Orbite.

Source: Outotec Oyj

 Booth 943

# Liebherr at MINExpo 2012

At MINExpo 2012, Liebherr will exhibit the latest technology and innovative solutions from the Group's mining division. Liebherr will introduce two diesel-electric haul trucks in Las Vegas: the new T 284 as the follow-up to the successful T 282 C in the 400 short-ton class (360 t), and the newly-designed T 264 set to catapult Liebherr into the 240 short-ton (217 t) payload class. Liebherr will also introduce two new large hydraulic excavators: a face shovel version of the 350 t R 9400 as well as the brand new 127 t R 9150. The exhibit space also shows large earthmoving and lifting equipment used for supporting work in the mining business. To complement its product line, Liebherr will display and demonstrate various customer support solutions.

Millions of operating hours and years of design experience have come together to create the Liebherr's newest ultra-class mining truck: the T 284. It offers the highest payload in the industry and

features the latest generation of the Litronic Plus AC drive system. Built with many Liebherr-designed systems and components, the T 284 serves as the platform for future advances in mining truck technology. Developed and built by Liebherr, the proven Litronic Plus drive system determines the optimal way to extract power from the diesel engine. With this system more power is available to accelerate the truck and climb grades.

This system also conserves fuel when the engine is idling. In this way, the Litronic Plus system minimizes fuel consumption and maximizes performance. Liebherr's goal is to use as much of the truck's load-carrying capacity as possible for payload.

Liebherr re-enters the 240 short-ton payload class with the T 264. This fuel-efficient mining truck is built for safety and reliability, and is sized to match the Liebherr R 996 B and R 9800 hydraulic



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Booth #561

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excavators, as well as electric shovels and wheel loaders for optimal performance. To maintain a safe working environment, the T 264 features payload and overload warnings. An anti-rollback feature keeps the truck stationary when stopped on grades in either forward or reverse. The advanced Traction Control System with four-wheel speed sensing capability automatically adjusts torque to the rear wheels to maximize traction when cornering, accelerating from a standstill, or traveling down wet or icy roads. Developed by Liebherr exclusively for mining trucks, this system enables operators to consistently maintain steering control and truck stability. The integrated electronic system monitors, records and outputs vital truck health and performance data. Data is stored and available for download to perform detailed analysis. This system supports predictive maintenance strategies to minimize unscheduled downtime.



The brand new R 9150 hydraulic mining excavator is the perfect loader for 50-ton trucks and offers a wide array of uses. The advanced R 9150 is the successor of the Liebherr R 984 C. Offering the largest bucket capacity in its class combined with its high digging forces and optimal cycle time, the R 9150 is the most powerful excavator in the small class mining market. The R 9150's new, modern cab design offers ideal working conditions and optimal operator comfort. Its one-piece



windscreen provides a panoramic view over the entire machine and loading area. The R 9150 is equipped with a new monitoring system also used on the R 9800. By providing complete monitoring functionality and textual maintenance information, this system enables easy



machine operation management and quick dysfunction diagnostics.

The R 9150 is equipped with the same Liebherr V12 diesel engine as the R 9100, specifically designed to withstand extreme exterior temperatures and fluctuations in atmospheric pressure. Integrating the latest engine management system, the R 9150 is built for intense mining and complies with USA/EPA Tier 2 emission limits.

The R 9400 is built for ultimate performance in the medium class mining

market and is the ideal machine to load a fleet of 150-ton trucks. Available in two configurations, either diesel or electric, the R 9400 offers the flexibility to perform in any application. The R 9400 is powered by the Cummins QSK50 diesel engine which complies with the USA/EPA Tier 2 emissions limits. The electric drive version is an efficient alternative for applications that do not require frequent machine relocation. The power system makes the R 9400 cost effective without compromising productivity whilst reducing the machines impact on the environment.

The production-tailored attachment kinematics combined with a mining-optimized bucket shape ensure the highest crowd and breakout forces. Even under tough conditions the R 9400's high digging force allows easy bucket penetration and high bucket fill factors to achieve high productivity. The machine is available with a wide range of buckets and Liebherr Ground Engaging Tools to cover all mining applications.

Optimizing electrical, mechanical and hydraulic power distribution, the Litronic Plus System allows for easy control even when simultaneous movements are required. Every attachment cylinder is fitted with the patented Liebherr Electronic Damping System which provides controlled end-cushioning for fast and smooth machine motions. In addition, the R 9400 is equipped with the "Pressureless Boom Down Function" to enable fast cylinder retraction without the need for pump energy. Intelligent and power-oriented energy management diverts the pump flow during boom lowering, allowing other cylinder motions to operate unimpeded.

Source: Liebherr



Booth 7627

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## Bridgestone M853 On/Off Highway Radial Offers Superior Durability

Bridgestone Commercial Solutions (BCS), a division of Bridgestone Americas Tire Operations, recently announced the launch of the M853, a new on/off highway all-position radial for regional hauls that combines wear resistance with extra load capacity for longer service.

"The M853 is the tire for haulers who must travel on a variety of terrain to get the job done," said Scott Damon, vice president, marketing, BCS. "The technologies in this product not only offer the durability needed to move repeatedly between asphalt, gravel and dirt, but the design also protects the casing to ultimately provide a longer lasting, retreadable tire – which can reduce downtime and help save money over the life of the tire."

The M853 features a number of tread enhancements that deliver extended, reliable performance. An enhanced pattern, designed with interlocking multi-edge blocks, digs deeper for more solid traction on both worksites and highways; tie bars link tread blocks together to combat heel-and-toe wear. A unique shoulder design


helps combat irregular wear for longer tread life, and stone rejector platforms help repel stones that can damage casings.

The M853's four steel belts, a steel body ply and thick sidewalls that help protect the casing from worksite damage, is designed for durability and retreadability.

The M853 replaces the M850 and is currently available in two sizes, 11R22.5 and 11R24.5, both in a "H" load rating. A third size, 12R22.5 ("H" load rating), will be available in the fourth quarter of 2012.

Source: Bridgestone Americas Tire Operations



 Booth 8417

## Continental Drives Performance at GATS with New Tires

Continental engineers showcased the latest ways to drive performance for commercial trucks at the Great American Truck Show (GATS) that took place August 23-25, in Dallas, Texas.

Appearing again at the Continental Tire the Americas, LLC Solutions Pavilion, were the Untamed Innovation Tour, the 25.3 m-long mobile exhibit of Continental tires, technologies and solutions for lowering the overall driving costs of commercial trucking operations. Included in the pavilion will be an explanation of ContiLifeCycle – integrating the complete suite of Continental truck tires with seamless transitions to retread products; and Continental emergency road service programs including the new TrukFix for OOIDA members. The ContiPressureCheck tire pressure monitoring system will also be demonstrated at the event, as will the Continental Commercial Vehicles and Aftermarket Division's new VDO RoadLog electronic on-board recorder. VDO RoadLog is designed to allow for drivers, fleets and owner operators to record and report Hours of Service (HOS) and other key compliance data quickly, easily and without monthly fees.

Continental's latest tire products that "drive" fuel economy and excellent performance were also previewed at GATS, starting with a first look at the ContiEco-

Plus HD3, a 3<sup>rd</sup>-generation long-haul highway drive tire product engineered for operating conditions of 200,000 km per year. The ContiEcoPlus HD3 was named to highlight its improved rolling resistance and Eco Plus technology, the name trusted by long-haul truck operators for maximum fuel efficiency. Continental's advanced ContiGOODSCasing features were also included for maximum retreadability, including a premium belt package, flatter contour and a more supportive bead package. The ContiEcoPlus HD3 is available now in size 295/75R22.5, with the remainder of the standard NAFTA sizes available at the end of 2012 and a ContiTread retread in early 2013.

Continental's newly launched HDR2 in an 11R22.5 size to replace the existing HDR1 were also new at GATS. Remaining sizes will be launched in early 2013. The HDR2 (Heavy Drive Regional) has been engineered to improve mileage by more than 20% over its predecessor. The

mileage improvement is attained through tread optimization leading to 16% more overall tread volume. The HDR2 features a high number of lateral sipes extending all the way through the shoulders to maintain superior traction levels throughout the life



of the tread. A large number of circumferential grooves allows for the evacuation of traction-robbing mud and water, while the tire's groove geometry reduces stone retention. The HDR2 ContiTread retread product will be available November 2012.

Source: Continental Tire the Americas, LLC



## PALFINGER at Elmia Lastbil 2012

At Elmia Lastbil 2012, PALFINGER showcased both its product innovations and established systems on its two stands, including a World premiere for truck-mounted loader crane.

With the PK 88002 EH High Performance, PALFINGER is launching a new cost-effective heavy-duty crane model onto the market. A compact boom system with up to 9 hydraulic extensions, continuous slewing system and Power Link Plus equip this heavy-duty crane for a wide variety of assignments.

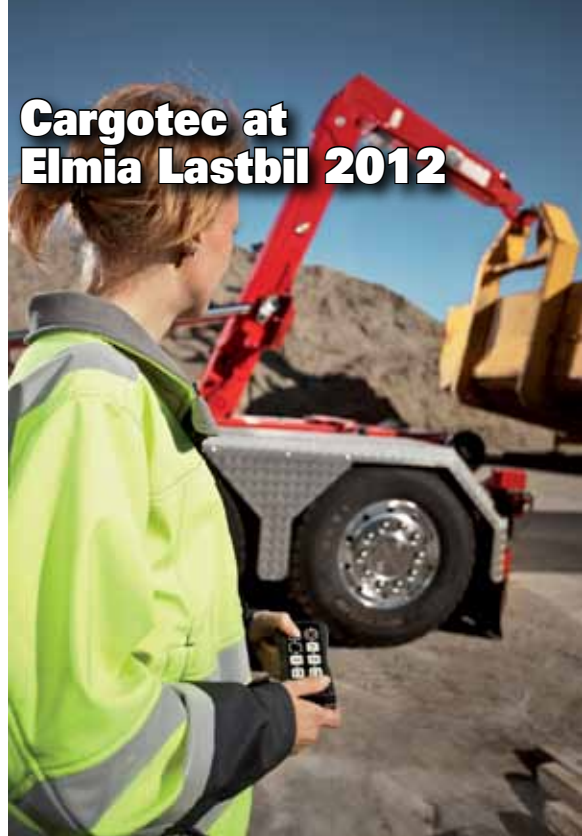
At the center of PALFINGER's truck-mounted crane performance is the intelligent and optimized "HPSC" stability control system. Visitors to the show were able to see the system demonstrated on a PK 34002 SH crane mounted on a demo truck.

A number of well-known lifting, loading and handling systems supplemented the range of truck-mounted cranes. Tail lifts, hookloaders and EPSILON recycling cranes were also on show.

Source: PALFINGER AG



## Cargotec at Elmia Lastbil 2012



Cargotec was exhibiting at Elmia Lastbil 2012 in Jönköping, Sweden, on August 22-25. The fair is widely regarded as a focal point in the Swedish haulage and transport sector and this year Cargotec introduced two new Hiab products.

Cargotec's booth featured the new Hiab Multilift XR18SL-ProFuture™ hooklift which can deliver significant improvements in useful load capacity, speed, fuel efficiency and emissions. Thanks to the combination of special features offered by the new Hiab Multilift XR18SL-ProFuture™ the loading cycle can be up to 30% faster.

Pro Future™ is Cargotec's own label for products and solutions with lower environmental impact. These products and solutions have passed specific industry-leading criteria for energy efficiency, source of power, emissions, noise and recycling. By investing in equipment with the Pro Future™ label, customers can improve the sustainability of their operations while also reducing operating costs significantly.

Cargotec also presented a new cab for Hiab Loglift and Hiab Jonsered cranes, with improved visibility to improve efficiency and safety during loading.

Source: Cargotec Corporation

## MICHELIN® XZY®3 Pre-Mold™ Retread Now Available


Michelin Retread Technologies is enabling mixed-use fleets and owner-operators to take on the challenges of on/off-road applications with the new MICHELIN® XZY®3 Pre-Mold™ retread. The all-position tread is designed to deliver exceptional wear and durability in on/off-road use, offering a retread that extends the performance of the popular new tire tread design throughout the casing life.



"Retreading is an excellent way for fleets to lower their cost of operation," said Ted Becker, vice president of marketing for Michelin Americas Truck Tires. "The mixed-use application can make retreading challenging to incorporate, because not every retread can perform in a difficult on/off-road environment. The XZY3 retread answers that call to provide application-specific features that promote long casing and tread life."

The XZY3 retread's compound protects against aggression, chipping and cutting, while a center groove bottom protector guards the center channel from any stone drilling and also assists in ejecting any stones or debris from the groove. The tread's four-rib design delivers the traction needed for the tire to operate in soft soil and mud, a regular challenge for tires in the mixed-use environment.

Source: Michelin

 Booth 6971

## About Elmia Lastbil

Elmia Lastbil is an international trade fair for the haulage and transport industry. It is held every second year in Jönköping, Sweden. In 2010, 421 exhibitors and 39,253 visitors participated at the show.

Source: Elmia

## Astec Mining to Showcase Global Processing Solutions at MINExpo 2012

Astec Mining will be showcasing new products and services through an interactive experience at MINExpo 2012 in Las Vegas, Nevada, September 24 – 26. Visit Astec's booth to learn about the integrated solutions that Astec Mining delivers to customers around the world, including equipment from Astec Mobile Screens, Breaker Technology, KPI-JCI, Osborn and TelSmith.

The 353 m<sup>2</sup> display will feature products, such as Breaker Technology's RMS 18 Mobile Scaler Vehicle, KPI-JCI's K500 Cone Crusher and TelSmith's 3858 Mine Duty Jaw Crusher with patented hydraulic overload relief. MINExpo 2012 will also serve as the worldwide product launch for the TelSmith T900 Mine Duty Cone Crusher.

Astec Mining consultants will be on-hand throughout MINExpo to discuss solutions that deliver process improvements to mine sites throughout the world.

"By leveraging the individual experience and expertise of Astec Mobile Screens, Breaker Technology, KPI-JCI, Osborn and TelSmith, Astec Mining is well positioned to support mine sites around the world with equipment, parts and service," said Rick Patek, group vice president, Astec Aggregate & Mining, "We're looking forward to sharing our capabilities with the worldwide audience attending MINExpo 2012."

Source: Astec Aggregate & Mining



Booth 10000

## Despite Extended Capacity, bC India 2013 Is Almost Fully Booked

Despite extending the available exhibition space to 150,000 m<sup>2</sup>, bC India 2013 is already almost fully booked. The organizers have drawn up a waiting list for some sections of the show. "Many companies have booked more space than at the first event. That shows the high regard bC India already enjoys among exhibitors," explains Thomas Löffler, bC Expo India Pvt. Ltd.'s CEO.

Also, leading companies in the sector such as JCB have been attracted to bC India 2013 as first-time exhibitors. Other first-time exhibitors at bC India include Ashok Leyland, Case, Cifa, Hyundai, Mitsubishi Heavy Industries and Shantui.

Once again, interest from abroad is high: bC India 2013 will feature first-time exhibit pavilions from Northern Ireland and Japan. And China, France, Great Britain, Italy, Russia, South Korea and Spain will all be organizing joint presentations from their countries for the second time.

The next edition of the BAUMA CONEXPO Show – bC India, International Trade Fair for Construction Machinery, Building Material Machines, Mining Machines and Construction Vehicles, will take place from February 5 to 8, 2013, in Mumbai.

Source: Messe München International

Association of Equipment Manufacturers

## Appointments

Duane Wilder, president of **Liebherr Construction Equipment Co.** is pleased to announce that **Michael Balella** had joined the company in the newly created position of manager – Parts Marketing. This new role will work closely with the Liebherr dealer organization to further enhance opportunities to increase sales and improve customer service for aftermarket repair parts. Mr. Balella will coordinate parts pricing on competitive items and add additional product offerings to support Liebherr's market presence in the United States as a manufacturer of premier quality, heavy-duty construction equipment.



"We conducted a national search to find someone that met our requirement for experience from both the manufacturer and customer perspective. Mike's background in market development and parts sales with a competitor who is an international manufacturer coupled with his earlier rental and small contractor experience well prepare him for this new role," Mr. Wilder stated.

Bob Bollinger, Parts manager will continue in his present role with responsibility for inventory levels and order fulfillment, both report to Mr. Wilder.

Source: Liebherr Construction Equipment Co.

**Terex Utilities** has named **Jim Lohan** as its new vice president of sales and marketing. In this role, Mr. Lohan will have overall responsibility for the Sales and Marketing teams, along with key supporting functions.



"Jim Lohan joins Terex with an impressive record of sales and marketing experience in various industries including professional irrigation systems, technology and financial services, as well as technology featuring facility system solutions," said Don Anderson, Terex Utilities vice president and general manager. "He has extensive experience in developing strategic marketing plans and focusing on product development initiatives."

"I am excited to be part of the Terex team and am looking forward to meeting and working with our customers while adding value to the company's great staff of Team Members wherever and whenever I can," said Jim Lohan.

Before joining Terex, Mr. Lohan was a director of sales at The Toro Company and also held positions at Honeywell Corporation and General Electric.

Mr. Lohan will be based at the Terex Utilities facilities in Watertown, South Dakota.

Source: Terex Corporation



# Tremendous potential in Indonesia

bauma is the world's biggest trade fair for mining machinery. The partner country chosen for the next edition, which takes place from April 15 to 21, 2013 in Munich, Germany, is Indonesia. Thanks to its extensive raw material deposits, this country offers tremendous growth potential.

Present conditions are regarded as favorable for new ventures. As part of the general economic upturn in Asia, demand is rising for mineral raw materials, and this

in turn is boosting activity in mining.

Indonesian mining companies need expertise, technology and capital and they are looking to engage in cooperations with foreign partners. Indonesia's raw material reserves are the 6<sup>th</sup>-largest in the world. According to the Ministry of Energy and Mineral Resources, the republic ranks 5<sup>th</sup> worldwide for tin reserves, 7<sup>th</sup> for copper, and 15<sup>th</sup> for coal. Indonesia is already the world's largest exporter of coal for

power stations. Extraction is exclusively by open-cast mining. Currently the annual yield is 340 million t, but this is expected to grow to around 500 million t by 2020. This forecast is based on the increasing demand from Asian economies and the rising needs of electricity suppliers in Indonesia.

Source: Messe München International

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Accessories Machinery Ltd  
Phone: 1-800-461-1979



2001 JOHNSTON 610 vacuum sweeper, mounted on Freightliner FC70 cab over chassis. Stock: H39469 Price: \$52,500  
Accessories Machinery Ltd  
Phone: 1-800-461-1979



1997 JOHNSTON 605 vacuum sweeper, single sweep right side, mounted on Ford cab over chassis. Stock: A41005 Price: \$24,500  
Accessories Machinery Ltd  
Phone: 1-800-461-1979



2004 JOHNSTON VT 650 vacuum sweeper, catch basin cleaner, mounted on Freightliner FC80 chassis, 66,986 miles. Stock N10707 Price: \$69,400  
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## Agenda

**Landscape Ontario - Snow & Ice Conference and Expo**  
 September 20, 2012  
 Milton, ON Canada

**DEMO International® 2012**  
 September 20 - 22, 2012  
 Saint-Raymond, QC Canada

**64<sup>th</sup> IAA Commercial Vehicles Hannover**  
 September 20 - 27, 2012  
 Hannover, Germany

**TRUXPO**  
 September 21 - 22, 2012  
 Abbotsford, BC Canada

**MINExpo INTERNATIONAL® 2012**  
 September 24 - 26, 2012  
 Las Vegas, NV USA

**INTERROUTE&VILLE**  
 October 2 - 4, 2012  
 Lyon, France

**INTERMAT Middle East**  
 October 8 - 10, 2012  
 Abu Dhabi, United Arab Emirates

**French Aggregates Exhibition & Congress**  
 October 10 - 12, 2012  
 Caen, France

**Canadian Waste & Recycling Expo**  
 November 14 - 15, 2012  
 Toronto, ON Canada

**Expo FIHOQ & Expo-Paysages**  
 November 14 - 16, 2012  
 Saint-Hyacinthe, QC Canada

**32<sup>nd</sup> Annual Canadian Pool & Spa Conference & Expo**  
 November 26 - 29, 2012  
 Exhibits: November 28 - 29, 2012  
 Niagara Falls, ON Canada

**Bauma China 2012**  
 November 27 - 30, 2012  
 Shanghai, China

**Ecobuild America**  
 December 3 - 7, 2012  
 Washington, DC USA

**Landscape Ontario - Congress**  
 January 8 - 10, 2013  
 Toronto, ON Canada

**World of Concrete 2013**  
 Exhibits: February 5 - 8, 2013 | Seminars: February 4 - 8, 2013  
 Las Vegas, Nevada USA

**BAUMA CONEXPO SHOW - bC India**  
 February 5 - 8, 2013  
 Mumbai, India

**NASTT's No-Dig Show**  
 March 3 - 7, 2013  
 Sacramento, CA USA

**2013 World of Asphalt Show & Conference and AGG1**  
 March 19 - 21, 2013  
 San Antonio, TX USA

**bauma 2013**  
 April 15 - 21, 2013  
 Munich, Germany

**National Heavy Equipment Show**  
 April 18 - 19, 2013  
 Mississauga, ON Canada

**bauma Africa 2013**  
 September 18 - 21, 2013  
 Johannesburg, South Africa

**International Construction and Utility Equipment Exposition (ICUEE)**  
 October 1 - 3, 2013  
 Louisville, KY USA

**CONEXPO-CON/AGG and IFPE expositions**  
 March 4 - 8, 2014  
 Las Vegas, NV USA

**Journée Expo-Bitume**  
 April 3, 2014  
 Saint-Hyacinthe, QC Canada

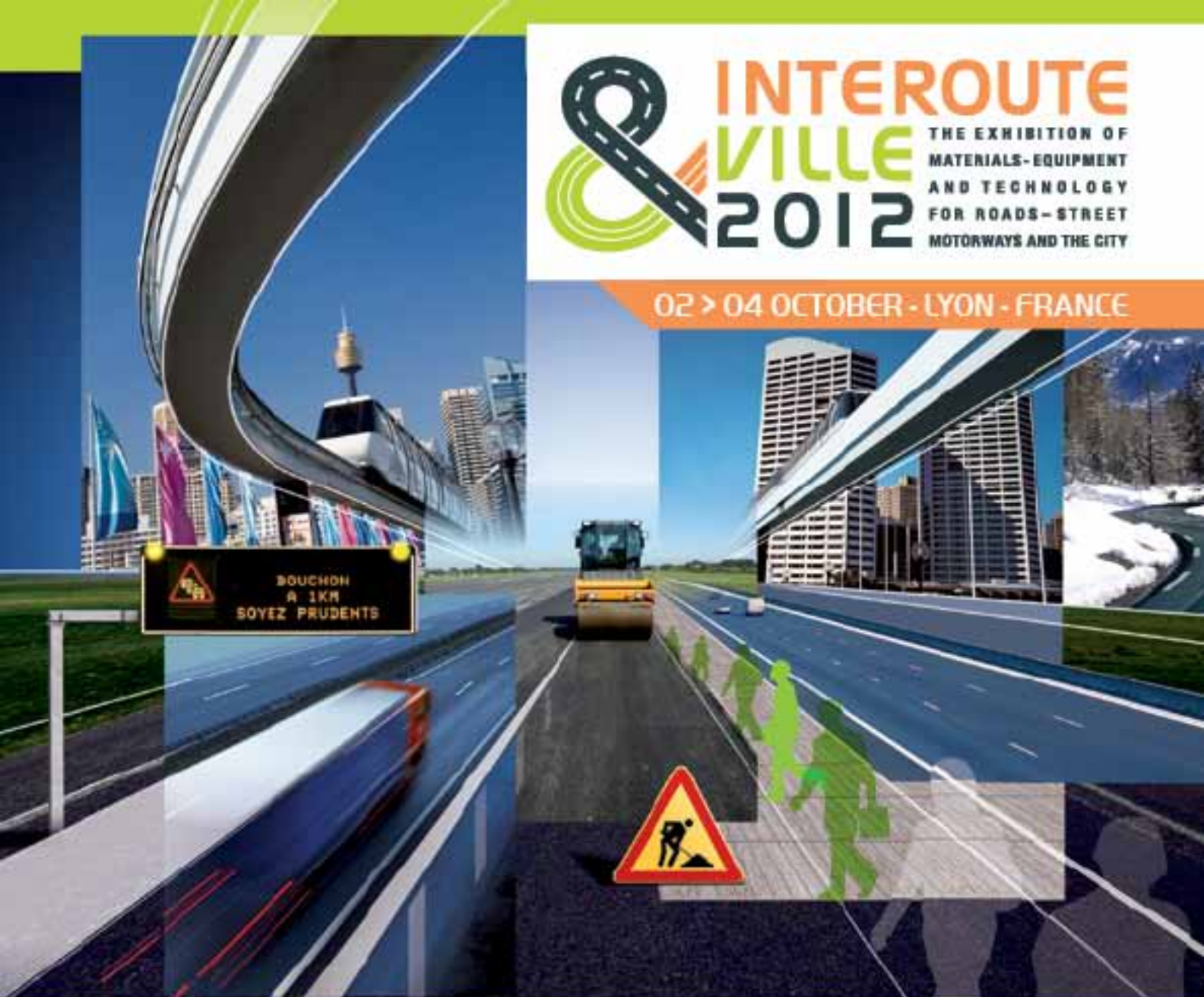




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