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A Brief Word...

If April showers bring May flowers, then we're all in for a rosie Spring in more ways than one.

Equipment buyers will undoubtedly look back on 2011 as a golden period when every card has been dealt out to them. A continued weakness in U.S. exchange and an almost lifeless U.S. recovery makes buying that long awaited unit(s) virtually irresistible. The hold-on interest rates by the Bank of Canada just adds to the thrill of it all!

Sadly, there has been some heartache as floods and storms have taken a toll, but with adversity comes opportunity. Builders, roofers, material suppliers will all be kept busy countering the damage. Road repair and construction will also be charged with rebuilding critical infrastructure and completing scheduled projects. Not only will the equipment industry be buoyed-up by all this activity, so too will the employment picture.

Certainly not least is the stability and dynamic of a new federal parliament that promises to be able to commit to projects and infrastructure more fervently than at any time in the last decade. All these things and their excellent timing, just as equipment buyers and users can make the most of all of these elements.

Ahh, the smell of Spring!



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On the cover:

The new Bobcat E32 and E35 compact excavators are available with an telescopic boom that provides an additional 76 cm in reach compared to the standard arm.

The new option allows the use of the hydraulic clamp and hydraulic X-Change, quick-attach system.

DE LAGE LANDEN AND LIUGONG ENTER INTO A FORMAL PARTNERSHIP

De Lage Landen Financial Services announced recently that it has formally signed an exclusive partnership agreement with LiuGong Machinery Corporation to provide equipment finance services throughout the United States and Canada. The agreement will offer inventory finance options to LiuGong dealers and provide their end-user customers with retail equip-

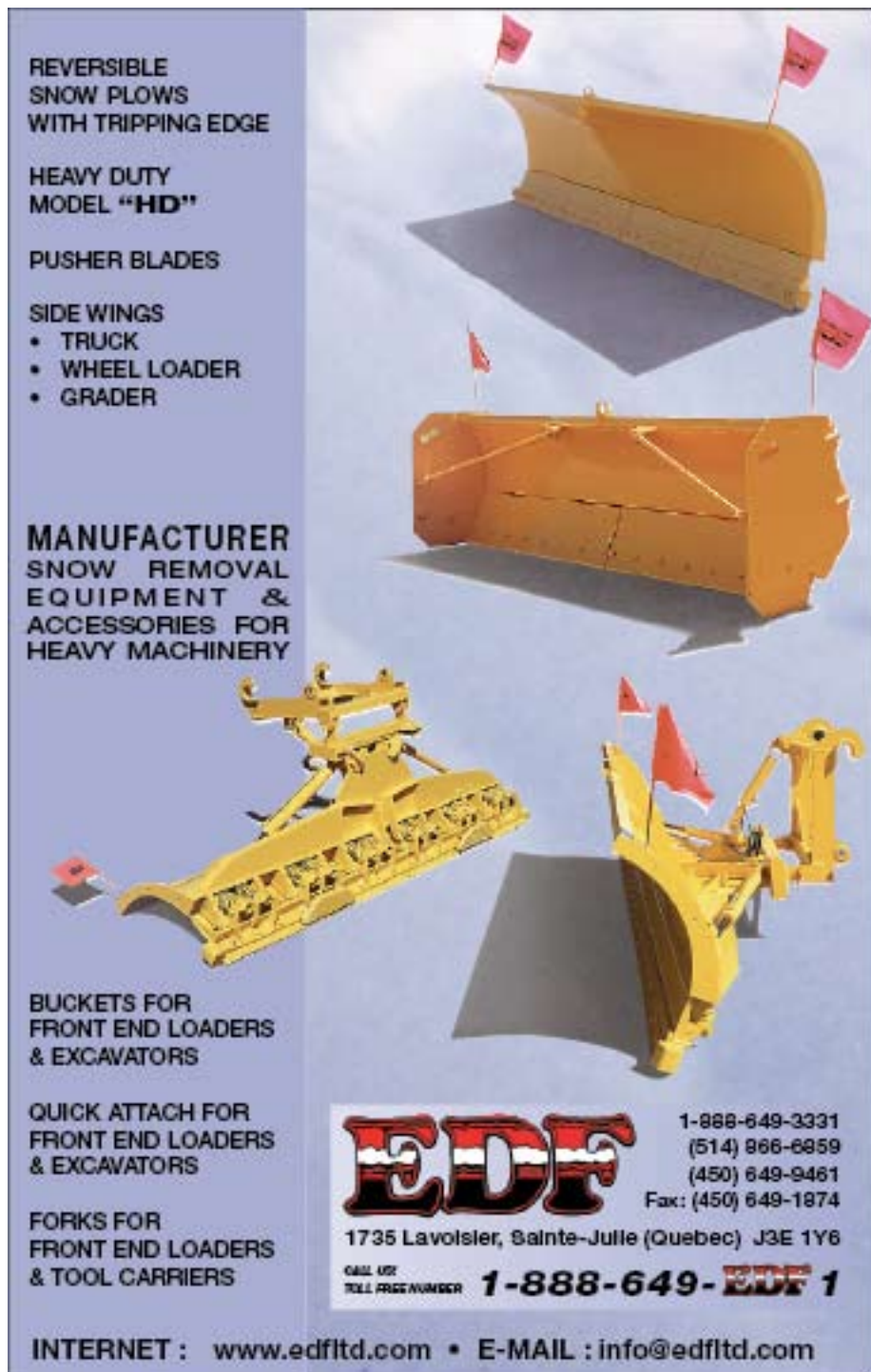
ment finance solutions.

Headquartered in Liuzhou, China, for 50 years, LiuGong has been manufacturing and distributing a full line of world-class construction equipment products inclusive of wheel loaders, hydraulic excavators, rollers, road equipment, multipurpose compact products such as skid-steer loaders and backhoe loaders, and forklift trucks throughout 80-plus countries globally. As LiuGong develops its North American

dealer base, this unique partnership will immediately benefit dealers by offering competitive and tailored finance products for their end-users, making it easier to sell equipment and introduce the LiuGong brand in the marketplace. Authorized dealers will also be able to take advantage of the wholesale floorplan finance program through De Lage Landen to help them establish their partnership with LiuGong, as they build their inventory.

Source: LiuGong Machinery Corp.

De Lage Landen Financial Services



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MAESTRO AND MURRAY SKERRETT, AWARDED SIGNIFICANT CONTRACT FROM PENNECON

Maestro Technologies announced recently that its partner, Murray Skerrett, has secured a very important contract from Pennecon Limited, the construction arm of the Penney Group of companies. Murray Skerrett has enjoyed a 10-year relationship with Pennecon Limited and was instrumental in introducing Maestro's suite of products to the various departments at Pennecon.

Due to the growth of their organization, the Pennecon Energy Division had been searching for an advanced ERP software suite, specifically designed for the construction industry, to replace their existing and outdated software solution. Key to Pennecon's selection process was an ERP solution that provided an easy migration from their existing system but also a platform that would grow in step with Pennecon's increasing operational and financial requirements.

"The Maestro and Murray Skerrett partnership responded to all the key criteria of our selection process" said Wayne Brushett, manager of Information systems at Pennecon. "It was important to select a software solution that was easy to use, flexible and could grow with all areas of our business. But it was equally important that it was backed by a professional services organization that we were confident could make the transition from our existing solution as painless and efficient as possible and also respond to our future needs."

"We're looking forward to transitioning Pennecon to the Maestro Suite" said Beth Skerrett, president and general manager at Murray Skerrett. "Our knowledgeable, competent and dedicated staff will be there

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- Speed Reducers
- Sprockets & Chains

every step of the way to ensure Pennecon receives the best software implementation, training, and consulting services in the industry."

ERP systems are quickly becoming essential tools for construction companies to improve responsiveness, strengthen supply chain partnerships, enhance organizational flexibility, improve decision making capabilities and reduce project timelines and costs. Incorporating best-of-breed technologies, modular scalability, granular reporting capabilities and a straightforward, user-friendly interface, Maestro's solutions provide field and back-office personnel with access to critical real-time data anytime, anywhere, to ensure informed and timely business decisions.

Source: Maestro Technologies

MCELROY INTRODUCES CERTIFIED MCELROY RENTAL PROGRAM

McElroy, the pipe fusion experts, recently introduced the start of the new Certified McElroy Rental program. The program is a partnership between McElroy and participating distributors to supply customers with the most reliable fusion machine rentals on the market.

Participating distributors will use a comprehensive checklist created by McElroy to check machines after each rental. By participating in the program, distributors have pledged to provide greater continuous care of McElroy rental machines, creating a premium rental option in the marketplace. If a repair is needed, participating distributors are committed to using Genuine McElroy Parts installed by factory-trained

mechanics.

"We believe the Certified McElroy Rental program answers a need in the market," said Chip McElroy, president of McElroy. "Our customers have options. They can buy a new machine, buy a used machine or rent. We want all of these experiences with McElroy to be great for the customer. It was important for us to create a McElroy rental experience that offers superior security and reliability."

Finding a Certified McElroy Rental machine is easy. A new website at www.certifiedmcelroy.com allows contractors and pipeliners interested in a premium rental to search by state or province to locate McElroy distributors that carry Certified McElroy Rental machines. All designated rental machines have a sticker on the fusion unit that designates that it is part of the Certified McElroy Rental program.

Source: McElroy Manufacturing, Inc.

UNITED RENTALS TO ACQUIRE VENETOR GROUP

United Rentals, Inc. recently announced that United Rentals of Canada, Inc., a wholly-owned subsidiary, has entered into a definitive purchase agreement providing for the acquisition of Venetor Group, a seven-location equipment rental company in Canada that has a strong presence in the province of Ontario. Completion of the acquisition is subject to the satisfaction or waiver of certain conditions contained in the definitive purchase agreement.

Family-owned Venetor Group was founded in 1975 and is the largest independently owned equipment rental provider in Ontario. Venetor rents a wide range of fleet to industrial, commercial and maintenance contractors, and sells equipment, parts and supplies.

Michael Kneeland, CEO of United Rentals, said, "Upon completion, the acquisition of Venetor Group will significantly expand our position in central Canada, a marketplace with attractive growth dynamics. We are particularly delighted that Alvi Beraldo, Tom Beraldo and Dennis Beraldo, will bring their decades of experience to United Rentals, and continue to play an active role in growing the business. Venetor's commitment to superior service and its focus on industrial customers complements our own strategy and customer focus."

Source: United Rentals, Inc.

Maritime Case Appointed Ammann Dealer for New Brunswick and PEI



Maritime Case Ltd. has been appointed the exclusive Ammann dealer in the Provinces of New Brunswick and Prince Edward Island.

"Maritime Case joins the growing network of Ammann distributors across Canada," says Peter Price, area sales manager of Ammann Canada. "Together with other Maritime dealers, they will help to solidify Ammann's position in the region."

Maritime Case is a Fredericton-based, family-owned business with various holdings and has represented Case IH farm machinery since 1988. In 2007, the company reorganized to become the exclusive Case Construction distributor in New Brunswick and PEI.

"Our main customer base has been smaller contractors, owner-operators, and landscapers, but we are looking forward to introducing the larger compaction units and asphalt rollers to the road building fleets," says Chase McGrath, Maritime Case general manager. "At this time, Case and Ammann are the only two brands we carry. They are very complimentary and provide a complete lineup for our customer."

Maritime Case is staffed by some of the industry's most experienced equipment personnel who pride themselves on their collective knowledge. The sales team of three – Tony Durling, Bill O'Hanley, and Andrew Miller – has 60 years of selling experiences, while the Parts Manager, Bob Lyons and Service Manager, Peter Ferris have 40 and 35 years experience, respectively.

Peter Price is providing onsite Ammann sales and parts training for the Maritime Case sale team, while Chase will be sending members of his service team for factory training in Switzerland, at Ammann headquarters.

To serve their customers better and offer more showroom space, Maritime Case has invested in a new company site in Fredericton on 5 acres of land with excellent access and visibility from the main highway.

"Ammann is the perfect complement to our existing Case products and we're excited to introduce the complete line to our customers," says Mr. Chase.

Source: Ammann Canada

WAJAX ANNOUNCES ACQUISITION OF HARPER POWER PRODUCTS BUSINESS

Wajax Corporation announced that its Wajax Power Systems division has acquired the assets of Harper Power Products Inc. for \$21.6 million, subject to post-closing adjustments. For the year ended December 31, 2010, Harper had adjusted annual sales of approximately \$71 million.

Wajax Power Systems will assume the operation of Harper's 10 branches in Ontario located in Toronto, Ottawa, Hamilton, London, Sudbury, Timmins, Kingston, Cornwall, Niagara Falls and Pembroke. Harper is the authorized Ontario distributor for Detroit Diesel, Mercedes-Benz, MTU and Deutz engines, MTU Onsite Energy generator sets and Allison transmissions. With the exception of Deutz engines, Wajax Power Systems is presently the authorized distributor of these lines in the rest of Canada except for portions of British Columbia. This business will be rebranded as Wajax Power Systems.

The business and assets of Harper Truck Centers Inc., a separately operated on-highway truck dealer in the Greater Toronto Area, and Harper's Thomas Built Bus business, were not included in the purchase transaction.

Source: Wajax Corporation

CHURCHILL ACQUIRES MCCABE ELECTRIC

The Churchill Corporation recently announced that it has acquired all of the outstanding shares of McCabe Electric Ltd. for consideration of \$11.5 million in cash and common shares.

Founded in 1918, McCabe was a privately-held electrical contractor headquartered in Winnipeg, Manitoba. It is one of the leading and most reputable firms of its kind in Manitoba.

McCabe will operate as a member of the Canem Systems Group, Churchill's commercial systems segment. John Schubert and Frank Mutcher, the two managing partners of McCabe, will continue to lead the company and join the senior leadership at Canem where they will report directly to Al Miller, president and COO of Canem.

McCabe has been selected as the electrical contractor for many ongoing institutional, commercial and industrial projects in the Manitoba market, including: the new Winnipeg Blue Bomber Stadium project, Richardson College for the Environment at The University of Winnipeg, St. Boniface

General Hospital Cardiac Centre, various Manitoba Hydro projects, the Arts Building at The University of Manitoba, the Winnipeg Airport expansion, and the Milner Ridge Correctional Centre expansion.

Source: The Churchill Corporation

ELLISDON ONE OF CANADA'S MOST ECO-FRIENDLY COMPANIES FOR SECOND STRAIGHT YEAR

EllisDon was recently named as one of Canada's "Greenest" companies for the second year in a row. The ranking was announced as part of Aon Hewitt's Green Index which measures employees' perceptions of their employer's environmental initiatives. Aon Hewitt's Green Index focuses on the strategic initiatives of employers to minimize the environmental impact of their operations. The Index and The Green 30 list were developed as part of the 2011 Best Employers in Canada study which surveyed over 130,000 employees at more than 250 organizations.

According to Neil Crawford, Aon Hewitt's leader of the Best Employers in Canada study: "Our findings show that employees really see the difference when their employer is focused on developing and implementing environmentally-conscious

policies and practices." He goes on to say that these policies can possibly even help with growth and retention: "Effective green programs and practices may persuade certain employees to join or stay with an organization."

Throughout the months of March and April, EllisDon's Sustainable Building Services department initiated a friendly company-wide competition encouraging each regional and site office to participate in an event contributing to environmental initiatives such as tree planting and local park clean-ups.

Cameron Blair, EllisDon's manager of Sustainable Building Services, Eastern Canada, states: "For the second year in a row, we are proud and honored to be recognized by Aon Hewitt and Maclean's as one of 'The Green 30'. This would not be possible without a strong commitment from our employees in embracing environmental stewardship as part of the corporate culture. We plan to continue embarking on initiatives that minimize the environmental impact of our operation and differentiate EllisDon as a well-rounded leader in the construction industry."

Source: EllisDon Corporation

AMM/MTCML in Winnipeg

Municipal delegates, suppliers and specialists gathered in Brandon on April 13, 2011 for the annual Association of Manitoba Municipalities (AMM) conference and Municipalities Trading Company of Manitoba Ltd. (MTCML) tradeshow.

The event included expert tutorials and seminars on Conflict Resolution, Environmental Issues for Municipalities, Apprenticeship Planning and over a dozen more topics targeted to this unique audience.

The MTCML portion highlighted equipment, products and technologies that municipalities can use in all aspects of operations from recycling to road repairs.

This diverse cross section of decision makers, experts and suppliers meets annually in what typically is a friendly, jovial and productive series of presentations and forums. Anyone involved in Manitoba's municipal community would do well to mark April 11, 2012 on their calendar for the next edition of this "must attend" event.

Source: Association of Manitoba Municipalities



Chilean Bridge Earthquake-Damaged Beams Replaced with Hydrodemolition Techniques

Following earthquake damage to two bridges over the Santiago's Southern Approach (Acceso Sur Santiago) highway in



Chile, hydrodemolition specialist contractor ISOTEC Ltda relied on an Aquajet HVD 6000 Robot to assist in removing damaged concrete beams and retain the rebar.

Badly damaged concrete beams on two bridges above Chile's new Santiago's Southern Approach (Acceso Sur Santiago) highway – caused by a recent earthquake

– were removed by using hydrodemolition techniques with an Aquajet Aqua Cutter HVD 6000 robot, by Santiago-based,



specialist contractor ISOTEC.

The recently opened 46 km highway has been designed to relieve traffic flow in to the Chilean Capital, Santiago's southern approaches to handle up to 25 million vehicles per year.

According to ISOTEC's Jose Alday, the role of the Aqua Cutter was to remove the concrete above the beam's allowing

them to be lifted clear and replaced, whilst saving the rebar for reuse in installing the replacement beams.



"The hydrodemolition techniques proved ideal with no collateral damage to the remaining structure whilst removing the damaged concrete," he said adding, "we also had to guarantee minimal impact for the highway users, allowing the highway to remain open throughout the removal process."

Operating to a depth of up to 20 cm, the

Smashing Performances at the Lummen Highway Interchange

The team of the Belgium-based BVBA Baldewijns & Co, demolition specialists especially in demolishing large concrete constructions and the removal of the rubble, faced a tough challenge: within the period of a single weekend, two 100 m long bridge sections of the E 313 over the A2 highway at the Lummen highway interchange had to be removed and the rubble cleared away.

On Friday evening, after having laid a sand bed to protect the underlying asphalt road, twelve excavators were put to work with heavy breakers and concrete crushers. The most powerful breaker on the site was an Atlas Copco HB 3000, 3,000 kg in weight and suitable for excavators in the range of 32 to 50 t. It is a robust tool that can handle heavy demolition jobs; a real production machine, 7 days a week, 24 hours per day.

A total of 4,000 m³ of concrete was demolished, sorted and removed, including 300 t of reinforced steel. The job was completed in only 40 hr, far less than the

scheduled time of 55 hr. This impressive result was primarily achieved by thorough planning with a sharp schedule, sufficient equipment, and, last but not least the 45 professional operators.

The starring role was played however by the newest concrete cutters from Atlas Copco: the CC 6000, equipped with universal jaws that made it possible to cut through and crush the bearing beams of the bridge and then cut through the heavy reinforcing bars. The concrete cutters met the expectations completely.

"We needed really heavy equipment to get this job done within the schedule," says Steven Lisens, director of Baldewijns & Co. "The CC 6000 concrete cutters absolutely contributed to the smooth



progress of the works and the smashing final result. The cutters had no problem at all with the size of the beams; its crushing power and high cycle time exceeded all of our expectations."

"The performance and the reliability of the products from Atlas Copco have really convinced me. The results achieved with the CC 6000 and the HB 3000 have inspired us to purchase a new Atlas Copco HB 4700 hydraulic breaker," he concluded.

Source: Atlas Copco Construction Tools GmbH

Aqua Cutter was able to expose the rebar with no damage.

ISOTEC's hydrodemolition contract on both bridges was completed within 20 days with the damaged beams lifted clear and replaced in two night time operations by main contractor ICAFAL.



Hydrodemolition is a relatively new concept in South America, but widely used throughout Europe, with ISOTEC leading the way in Chile.

The company had initially specialized in high pressure water cleaning. "Taking advantage of this experience it was logical to expand our business into hydromolition, taking delivery of the new Aqua Cutter

HVD-6000 from Swedish manufacturer, Aquajet Systems.

HYDRODEMOLITION TECHNIQUES

Concrete rehabilitation using hydro-demolition or water jetting techniques is becoming an increasingly important aspect



of civil engineering and building renovation projects. Applications can involve cleaning, roughening, removal of deteriorated concrete and even cutting.

Water jetting is actively used for the removal of chloride damaged concrete layers down to the reinforcement bars or to a depth where the chloride content is at or below the permissible level.

It causes no damage or vibration to the existing rebar and prevents damage or loosening of adjacent concrete and parts.

Using a high-pressure jet of water, supplied at a pressure of 1,200 bar and a flow rate of 200 l/min by the company's Woma pump coupled to the HVD-6000, the Aqua Cutter robot was able to blast the concrete without causing any damage to the reinforcement bars or adjoining concrete.

The Aqua Cutter robot from Aquajet is considered the most advanced offering a wide variety of features, ensuring top quality results are achieved safely at a high production rate with low operating and ongoing costs.

The robot is small and compact but at the same time big enough to handle the toughest applications.

Issued on behalf of Aquajet Systems AB by Joem Promotions

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25 Years Bauer Cutter Technology

Bauer Maschinen GmbH is looking back at a success story: 25 years ago, the very first large-scale project was completed successfully with a Bauer diaphragm wall cutter. Since then Bauer continually developed and improved its cutter technology. By now, over 200 machines have been sold worldwide. Major projects have been carried out on all continents, sometimes under extreme conditions.

The incentive for manufacturing the first diaphragm wall cutter was a project in Northern Bavaria, when Bauer realized that the contractual completion date was threatened due to the non-performance of a cutter that had been purchased. As a result of this situation, Bauer's management team decided to manufacture their own cutter. Under the most severe time pressure, the first Bauer diaphragm wall cutter was designed and built in just four months. On site it coped well with all contractual requirements. The project was successfully completed in the initially specified contract period.

Since then, the cutter technology has been continually developed and improved by Bauer Maschinen. Ever thicker walls became possible. The technology was able to attain ever increasing depths, after the long hoses were transferred onto vertically mounted hose reels. As a result of deploying steering plates, the level of accuracy in terms of cutter verticality improved steadily. Since the beginning of the nineties, Bauer diaphragm wall cutters operated successfully in the hardest rock formations with rock roller bits fitted to the cutter wheels.

Bauer Maschinen demonstrated its creativity, in particular, when diaphragm wall cutters had to be adapted for specific conditions. This is how, in 1991, the versatile "City Cutter" BC15, which was deployed on confined inner-city sites, was developed in co-operation with French partner, Bachy.

Shortly afterwards, the "Mini Cutter" mounted on rails became a great success as a cutter with a transverse horizontal hose recoil system for operating in limited headroom conditions of just 5 m. First, the cutter was deployed in Tokyo and then in the South Korean capital Seoul. At bauma 1995, Bauer showcased the compact cutter

CBC 33 mounted on a specially designed base machine, followed at bauma 1998 by the CBC 25.

The low-headroom machine, which was designed and built within a few months in 1999 opened up new opportunities. After the successful completion of an enclosure wall for a Metro station in Singapore under an existing building at the airport, the cutter known by now also as "Tunnel Cutter" was deployed in China, where, in 2003, on the Yeleh Dam project a cut-off wall was constructed for the dam from inside a narrow tunnel.

In the past decade, Bauer diaphragm wall cutters have been deployed numerous times for highly challenging tasks. In extremely difficult geological conditions, diaphragm cut-off walls were installed at the Dhauliganga Dam project in the Indian Himalaya and for the dam at the Peribonka hydroelectric power station in Canada, where the cutter cut through hard rock to depths of up to 120 m. In Australia, the Hinze Dam was sealed.

In the meantime, Bauer Maschinen has developed its own specialist foundation construction duty cranes. Both models, the MC 64 and MC 128, are being deployed as base carriers for diaphragm wall cutters. At bauma 2010, a diaphragm wall cutter designed for depths of up to 150 m was displayed. Today, design work is already in progress for cutter depths in excess of 200 m.

The Cutter Soil Mixing or CSM system, for which Bauer has been awarded the bauma Innovation Prize in 2004 is also based on the cutter technology. More than



fifty CSM units have already been sold all over the world.

Source: Bauer Maschinen GmbH

Saskatch-Patch

You may be forgiven for not having heard of Humboldt, Saskatchewan but you have now.

Pinned on the prairie like a cotillion corsage this full-service town of about 6,000, confronts the same infrastructure challenges as any other municipality. From freezing cold and flat land floods to freight cars and Freightliners, roads here take brutal punishment. Freeze/thaw, moisture and traffic loading eventually lead to one universal constant: potholes.

They do not have to be big to be a problem, they do need to be dealt with directly and swiftly. Knowing a timely, affordable and durable repair was the only answer, Humboldt's cry was heard by DuraPatcher.

Durapatching is not a new concept, far from it, this repair process has been rescuing roads for more than a quarter century. It is such a popular repair practice that Pounder Emulsions of Saskatoon have even developed a proprietary liquid bitumen product to deal with the harsh

prairie climate. FRS, Cimlines western dealer, worked with the town to demonstrate the process just in time for the long winter's first snow

storm. The patches lasted so well and the machine was so easy to run and maintain, that the Humboldt Public Works Department recently took delivery of their first DuraPatcher 125-DJT trailer model.


The DuraPatcher employs a patented venturi system to move aggregate, including chunks the size of 65 mm. By selecting a suitably-sized aggregate and emulsion combination, edging, crazing, surface treating and potholes can be rehabilitated and eliminated. Without the complexity of conveyors and pumps to move product the machine is virtually trouble-free and

always ready for use. Operators can be proficient in running the DuraPatcher in as little as 30 minutes.


Supported by Cimlines factory-trained specialists and a network of experienced dealers across the country the 125-DJT sets the standard for pavement repair technology available today. This is typical of the entire range of products available from the Cimline Pavement Maintenance Group, your largest supplier of specialist pavement repair equipment.

Source: Cimline Pavement Maintenance Group





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2011 QARC Program: Call for Entries

The 2nd annual Quality Asphalt Roofing Case Study Program (QARC) is now open for submissions. The first year of QARC awarded three projects that exemplified asphalt's characteristics of raising the B.A.R. to be the most beautiful, affordable and reliable roofing solution.

QARC is a recognition program that gives roofing contractors, consultants and architects the ability to gain national prominence and industry recognition for their work with asphalt roofing. ARMA encourages every roofing professional to enter their small residential projects as well as large commercial roofing projects..

The site is now open for 2011 submissions, and ARMA looks forward to another year of exciting examples of projects that demonstrate the myriad benefits of asphalt shingles.

The details, as well as the submission forms, can be found on the QARC homepage at: <http://www.qualityasphaltroofingcasestudy.com/index.php>.

For any questions on QARC, please contact Todd Costello at (212) 297-2109 or tcostello@kellencompany.com

The Asphalt Roofing Manufacturers Association (ARMA) is the North American trade association representing the manufacturers and suppliers of bituminous-based residential and commercial fiber-glass and organic asphalt shingle roofing products, roll roofing, built-up (BUR) roofing systems, and modified bitumen roofing systems.

Source: The Asphalt Roofing Manufacturers Association

Neptune Introduces Portable Max II to Eliminate Track-Out in Construction Applications

The MAX II (PR) Series Automated Wheel Wash System manufactured by IES is a self-contained wheel washing system that delivers two full tire revolutions of cleaning power and is designed for portable applications. The wash platform and water recycling tank are designed to be used above ground with the addition of 4.9 m ramps. The structure of the wheel wash unit itself is self-supporting and also serves as the water carrying channels for the system, so there is no piping throughout the wheel washing platform. By utilizing the square tubing of the structure, the system can handle extremely high volumes of water with minimal velocity drag. An ideal solution for construction applications, the MAXIMUS (PR) SERIES is suitable for all commercial vehicles and trailers that have permitted use on public roads and is specifically engineered using the principle of High volume and Low pressure to eliminate track-out.

The MAX II delivers flexibility and adjust-

ability by offering the ability to reconfigure the installation configuration of each wheel washing system as needed. A gravity feed system has the capability of accepting



ramps and being used above ground when needed or vice versa. The versatility of the systems allows customers to adjust to changing site situations. The side nozzles are adjustable three-piece ball nozzle assemblies for adjustability.

IES takes great pride in the fact that all of its Neptune Automated Wheel Wash Systems are manufactured in Hot Springs,

Arkansas. The systems are built with standard American components and fittings that are readily available.

IES designs automated wheel washing



systems for applications in light to medium soils, tacky and heavy soils; or those that address disinfectant and bio-security needs. Importantly, all systems offer a fully automated closed-loop water recycling and solids separation solution.

IES offers nationwide sales, service, rental, and turnkey installation.

Source: IES

MFM Building Products Introduces IB-3™ StormStopper Underlayment

MFM Building Products Corporation, a manufacturer of a wide range of innovative waterproofing products for the building industry, is pleased to introduce IB-3™ StormStopper. This underlayment product is specifically designed to install under roofing at edges, valleys and whole roof applications to protect from water or moisture leaks.

IB-3 StormStopper is a self-adhering mineral surface underlayment, which adheres directly to the roof deck. The specially formulated rubberized asphalt adhesive seals around fasteners and forms a long-lasting barrier. The product is engineered to provide a water and weatherproof barrier against blowing rain, ice dams or the build-up of excessive water. The product comes with a protective split release liner, which protects the product until installation.

IB-3 StormStopper is offered in 20,4 m rolls x 91 cm width; in 18,6 m² cartons. The



product is suitable for use in new construction and re-roofing installations, and is backed by a 5-year Limited Warranty. Product is in accordance with ASTM E 108, ICC-ES AC188, and ICC-ES AC48 as issued on ICC-ES Evaluation Report ESR-1737.

Installation of IB-3 StormStopper is easy by simply removing the release liner and

pressing into place. The product can be cut using a utility knife and installed at eaves, valleys, vents, skylights and chimneys. A non-removable self-edge allows for a secure seal on overlaps. Finish installation by rolling the seams with a hand roller.

Source: MFM Building Products

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Flying High Over the Colorado River

Sightseeing visitors at the Hoover Dam witnessed an unusual sight in April 2010 when a Putzmeister 52Z-Meter truck-mounted concrete boom pump was flown over 274 m above the Colorado River as crews began the final stages of the historical Colorado River Bridge project.

The boom pump, owned by Quinn Concrete Pumping, Inc. (Quinn) of Las Vegas, was carefully placed atop the partially constructed Colorado River Bridge using a cableway system developed specifically for the bridge project. The boom pump was used to place concrete on the arch portion of the bridge deck spanning 332 m. Now

the concrete twin arches had been joined together, the precast columns on the arch had been set, and the steel girders were erected. It was time to start work on the 11 separate deck pours; each pour would be 27 m wide and approximately 37 m long.

Before even starting the job in 2005, the general contractor contacted Putzmeister directly for help in determining how and where to mount the placing booms and position the trailer pumps for all portions of the project. They needed detailed input in order to make the precise calculation that would allow the job to be carried out with the utmost safety and efficiency.

"We called Putzmeister right away to discuss the complicated project, and what our possible concrete placing solutions would be," says Wes Pollnow, construction manager for Obayashi/PSM JV. "We felt more confident preparing for this by utilizing their complete systems approach."

"The general contractor worked diligently with us and the concrete pump sub-contractor to determine the exact calculations, balances, picking points, and appropriate counterweights to ensure everything went off smoothly and safely," says Alan Woods, Putzmeister field service technician. "Wes, project engineer Terry Pawlowski and team had everything planned out precisely."

Obayashi/PSM JV selected Quinn as the concrete pump sub-contractor. Throughout the Colorado River Bridge project, Quinn supplied both pump operators and their own

concrete pumping and placing equipment. Earlier in the project, the company had been on site to place concrete for the footings and arch foundation.

Because of the large area each deck pour covered, which had to be poured symmetrically on both sides, the decision was made to use Quinn's 52Z-Meter semi-trailer-mounted concrete boom pump. They had been using their own Putzmeister MX 32/36Z placing boom previously on the arches and for shorter-distance pours, but now needed equipment with more reach. With the 52Z-Meter's impressive

52 m vertical and 48 m horizontal reach, handling the 37 m deck pours proved to be no problem. The challenge laid elsewhere: flying the boom pump up to the deck, pumping in tight quarters, balancing deck pours on the bridge, and pumping concrete to the 52Z.

Transporting the boom pump to location on the deck was handled with precision via the cableway system that had been used successfully throughout the project to deliver materials and equipment. However, before the boom pump could be flown to the deck, the crew had to address space requirements on the bridge.



completed, the bridge connects Arizona and Nevada over the Black Canyon, approximately 457 m south of the Hoover Dam.

Begun in early 2005, the Colorado River Bridge is a joint venture of Obayashi Corporation and PSM Construction USA, Inc. (Obayashi/PSM JV). The bridge was built to alleviate traffic congestion on U.S. Highway 93, which used to cross the Hoover Dam to pass over the Colorado River.

By April 2010, most of the bridge was finished: the bridge approaches to the arch in Nevada and Arizona were complete,



Putzmeister took an innovative approach to solving this issue. To save on flyweight and reduce the unit's footprint, the boom pump was detached from the tractor. The boom pump's versatile semi-trailer design, with a separate diesel engine, allowed it to be easily detached, flown to the bridge deck, and then attached to a specially-designed concrete counterweight that simulated the weight of the tractor and took up less space.

"The 52Z was basically being used like a placing boom," says Alan Woods.

Because the arch of the bridge had to be loaded symmetrically, the boom pump and counterweight were set up in the middle of the bridge. The geometry of the arch itself would change and would be more difficult to control if the bridge was not loaded symmetrically.

To ensure everything stayed balanced, one deck section was poured on one side of the boom pump, then the boom pump was lifted and turned, and another deck

section was poured on that side. The boom pump was then lifted and turned again to continue the pour in this manner, going back and forth throughout all 11 pours.

The purpose for the boom pump being lifted and turned for each side's pours was because the pipeline leading from the trailer pump to the hopper of the 52Z-Meter would be in the way of placing the concrete if the boom pump was not lifted and turned each time.

The trailer pump was also moved back and forth for each side's pours and connected to pipeline.

Although Obayashi/PSM JV had used a concrete ready mix supplier earlier in the project, in late 2007 they began operating their own concrete batch plant. For the deck pours, they used a harsh 310 bar mix with fibers in it to help control cracking on the deck. Because this was such a tough dry mix, using the right trailer pump was crucial.

Another challenge was how far horizontally the concrete would need to be pumped. The crew decided to use Quinn's BSA 14000 to pump a distance that started



at 213 m and reached a maximum of 290 m through pipeline, plus another 52 m through the 52Z-Meter.

With the highest pressures and outputs available, the high-performance trailer pump easily maintained a continuous flow of the harsh mix and facilitated the long-distance concrete pumping.

"First we pumped through the pipeline and into the hopper of the 52Z-Meter, which then pumped the rest of the way," explains Mr. Pollnow. "The trailer pump really provided the power we needed to push

the concrete up and out to its final destination. It averaged 57 m³/h and at one point reached 100 cubic yards per hour 76 m³/h. The trailer pump provided a smooth, controllable output of concrete because of its free flow hydraulic technology. Its fully adjustable volume control allows for very slow pumping while retaining full concrete pressure."

The trailer pump pumped the concrete at 280 bar and the 52Z at 150 bar.

Source: Putzmeister America, Inc.

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EDGE Post Pounder Skid Steer Attachment

CEAttachments, Inc., a global supplier of attachments and accessories for compact equipment, announces the addition of the all new EDGE Post Pounder and Puller to their lineup of attachments for the skid steer loaders.

The all new EDGE Post Pounder and Puller is the perfect attachment for quick and cost effective installation and removal of property line fences with solid steel or wood posts, and particularly in agricultural applications.

This easy to use, one-person operation will drive fence posts as wide as 10 inches and up to 10 feet long into the ground in minutes with its powerful 50,000 lb impact force. No need to ever touch the post by hand! Simply use the attachment to pick up the post, position it using the 12" plumb chain, and use the power of the skid steer to drive it into the ground, even as low as 18" above ground.

The EDGE Post Pounder and Puller will also pull old fence, small trees or steel posts from 1" in diameter out of the ground with ease. An optional T-Post Adapter Kit is a simple accessory to assist in driving or pulling T-Posts.

This new EDGE Post Pounder and Puller requires a minimum of 15 gpm hydraulic flow and is recommended for use on a skid steer with a minimum lift capacity of 1,650 lb.

Source: CEAttachments



Schwing Offers Versatile Mounting and Electric Power in Stationary Pumps

In order to meet a wide range of customer needs, Schwing offers its line of Stationary Pumps (SP) in a variety of configurations and power options. SPs are available from 20 hp pea gravel pumps to 590 hp concrete pumps with either diesel or electric power. Electric motors offer many advantages including reduced jobsite noise, fuel savings and fewer emissions without sacrificing output or distance performance.

Customers also have choice of trailer or skid mounting. Options are available to mount the power source separately from the skid-mounted pump. "We have

output and mounting choices for virtually any application," according to Jason Zignego, sales manager for the SP product line. Schwing Stationary pumps are used successfully worldwide in conventional applications like shotcreting pools, pouring residential wall, tunnel pumping, highrise concrete placement and engineered applications. Many continuous pours like slipform silos, concrete tanks and soil stabilization projects are performed by Schwing pumps working non-stop for hundreds of hours.

An SP 1000 with output to 53.5 m³/h and 100 hp electric motor was recently displayed at the Schwing booth at CONEXPO-CON/AGG 2011 in Las Vegas.

Source: Schwing America



New Flip Screen EXC180

Flip Screen Australia Pty Ltd, a designer and manufacturer of an award-winning line of screening attachments, launches the new EXC180 screening bucket. Suitable for 40 to 50 t excavators, the attachment is the largest excavator-mounted



model in the Flip Screen lineup. The EXC180 is built durable and rugged to handle the most demanding applications in a variety of industries including aggregates and road building, construction, demolition, landfill, mining, public works, railway and waste recycling. The unit was displayed for the first time at CONEXPO-CON/AGG tradeshow in Las Vegas.

The EXC180 replaces the excavator's bucket and works by rotating 360° continuously, on a single axis. In a clockwise motion, the unit removes smaller particles through an easily interchangeable screen, while a baffle retains larger material, such as steel and concrete, so that it may be dumped separately. Upon completion of the screening process, the EXC180 switches to a clockwise rotation to eject material.

The EXC180 features a bucket opening 245 cm wide by 60 cm high, and offers a screening capacity of approximately 1,75 m³ (full internal capacity: 5,25 m³). Total screening surface area is 8,9 m².

Intended for tough applications, the EXC180 includes a host of features designed to enhance durability. Double-size vanes, thick wall-plates, heavy-stiffener deflector plates, tough baffle supports, a baffle impact plate, and arm- and drain-plug protectors have been integrated to increase the unit's robustness and strength.

Source: Flip Screen Australia Pty Ltd.

Recycling Success with the New Lokotrack ST3.5

Metso's mobile screen novelty, Lokotrack ST3.5, has proven its efficiency in a demanding screening project involving rock-based recycle materials in Italy. In Pollenza, south of Rimini, ST3.5 classifies difficult, rock-based recycle materials with a capacity of about 1,000 t/working day. Thanks to the optional vibrating grid, the screened end products remain consistently very clean.

Re.i.cal., a family-owned company, operates a stationary quarry for producing aggregates needed for concrete. A few years ago the company expanded its operations to recycling.

"We plan to use our Lokotrack ST3.5 both in recycling and quarrying. Thanks to its compact size, the unit can be easily transported on a normal trailer, which is a big plus for us," says Andrea Renzi, managing director of Re.i.cal.

"Our first impression of ST3.5 is very positive, thanks to the quality components, sturdy design and ease of use. In recycling,

having a small shredder before the mobile screen is like a Fiat competing with a Ferrari, so we cannot verify the full capacity of the ST3.5 yet," Luigi Renzi adds.

An optional, vibrating grid is available for the Lokotrack ST3.5. In quarrying, it results in quicker feeding and reduces the need to tilt the grid for cleaning. In recycling, the main benefit is in securing the cleanness of the end products.

"The vibrating grid effectively separates wood, plastic and other scrap from the feed, giving us much cleaner screened end products. By choosing different grid mesh sizes, we can also easily adjust and control the feed size to the screen," notes Massimo Renzi, responsible for recycling.

With the ST3.5 mobile screen, the upper



screen deck houses a 30 mm mesh size, and the lower deck 5 mm. Oversized materials separated by the grid are returned to the crushing stage. Fed by the small Italian shredder, the output in recycling is about 130 tons per hour.

The Lokotrack ST3.5 used by Re.i.cal. also features separate remote radio controls for the mobile screen and the vibrating grid, allowing total steering and adjustment of the screening process easily from the excavator or front-end-loader cabins.

Source: Metso's Mining and Construction Technology

Atlas Copco Introduces Powercrusher Rock Crushers at CONEXPO-CON/AGG

Attendees of CONEXPO-CON/AGG in Las Vegas were among the first to see Atlas Copco's new line of track-mounted mobile crushers and screeners suitable for demolition, quarrying and road construction applications. The product range covers jaw crushers, impact crushers and cone crushers with a crushing capacity from 220 to 550 t/h and includes screeners with a capacity of 220 to 440 t/h.

Atlas Copco's four models of Powercrusher jaw crushers incorporate the unique "Quattro Movement." Quattro Movement is made possible by an up-thrust toggle plate position. This causes a figure-eight motion in the moving jaw, which increases the feeding capacity and also produces a post-crush at the crusher outlet.

There are six Atlas Copco Powercrusher impact crusher models, all of which use optimized geometry in the crusher box with hydraulically adjustable swing beams. The result is a minimal percentage of oversized material, and high reduction

ratios and throughputs.

The Atlas Copco PC 1000 cone crusher features cones that are compact units designed to accept an "all-in" infeed. This all-in feeding

increases the particle-on-particle crushing, which in turn increases the quality of the end material shape, decreases wear and can eliminate the need for prescreening.

Bo-Göran Johansson, vice president of Marketing for the Surface Drilling Equipment division, said, "The features of these products fit very well with the benefits we give our drill rig customers. The current generation of Powercrushers combines a straightforward design and user-friendliness with long-term reliable performance."

Andreas Malmberg, president of the



division, commented further on that point, emphasizing the convenience of having a one-stop equipment provider. "Our customers will benefit from having the same supplier for drill rigs, breakers and road construction equipment, as well as mobile crushers and screeners."

The complete Powercrusher line includes eleven different models of rock crushers and six screener models.

Source: Atlas Copco

Unmanned Bobcat Systems Sent to Japan

QinetiQ North America recently announced that the government of Japan has accepted its offer to provide unmanned vehicle equipment and associated training to aid in Japan's natural disaster recovery efforts. QinetiQ North America's technology and services will allow Japan's response teams to accomplish critical and complex recovery tasks at a safer distance from hazardous debris and other dangerous conditions.

The equipment being staged in Japan for rapid, on-call deployment includes QinetiQ North America's Robotic Appliqué Kits, which turn Bobcat loaders into unmanned vehicles in just 15 minutes. The kits permit remote operation of all 70 Bobcat vehicle attachments, such as shovels, buckets, grapples, tree cutters and tools to break through walls and doors. The unmanned Bobcat loaders include seven cameras, night vision, thermal imagers, microphones, 2-way radio systems and radiation sensors, and can be operated

from more than a mile away to safely remove rubble and debris, dig up buried objects and carry smaller equipment.

QinetiQ North America is also staging TALON and Dragon Runner robots in Japan in the event they are needed. TALON robots have previously withstood rigorous deployment and twice daily decontamination at Ground Zero. The TALON robots are equipped with CBRNE (Chemical, Biological, Radiological, Nuclear and Explosive) detection kits that can identify more than 7,500 environmental hazards including toxic industrial chemicals, volatile gases, radiation and explosive risks, as well as temperature and air quality indicators. The TALON robots provide night vision and sound and sensing capabilities from up to 1,000 m away.

QinetiQ North America's lightweight Dragon Runner robots, designed for use in small spaces, will be available for investi-



gating rubble piles, trenches, culverts and tunnels. Thermal cameras and sound sensors on the Dragon Runners can provide data from up to 800 m away, permitting the robot's "eyes and ears" to serve in spaces too small or dangerous for human access.

In addition to the unmanned equipment, a team of QinetiQ North America technical experts will provide training and support to Japan's disaster response personnel.

QinetiQ North America is a world leader in robotic technology solutions that save lives in defense, security and first responder environments.

Source: QinetiQ North America
Bobcat Company

Screen Machine Announces Spyder 512T Screening Plant

Screen Machine Industries announces the release of the patented Spyder 512T Portable Screening Plant.

Featuring a 1.5 m x 3.7 m double deck two bearing screen, Grade 80 high strength steel construction and patented three sided

loading capability, the 512T is built heavy enough to withstand the demands of a high production environment.

With designs based on the model Spyder 516T Portable Screening Plant the 512T is built to have the engineered features of its predecessor while opening up a new size class of machine. Screening rock, soils, sand & gravel, coal and construction & demolition materials to three different sizes in windrows all with easy remote operation is the name of the game. This plant was designed purely with the user in mind and the high quality manufacturing of this plant shows.

Source: Screen Machine Industries, Inc.



Bridgestone Launches New Tire Line

Bridgestone Americas Off Road Tire, a division of Bridgestone Americas Tire Operations, LLC, has expanded its line of ultra heavy-duty tires for earthmovers in North America.

The V-Steel Rock E-Premium (VREP) off road tire features trapezoidal blocks with circumferential grooves that maximize wear resistance while minimizing internal friction and uneven wear. The new VREP tire, specially designed for 100 t class earthmovers, also minimizes heat generation over a longer lifetime in heavy-duty mining operations.

"The VREP tire offers reliability and durability that enables earthmovers to continue working with improved productivity," said Shawn Rasey, president, Bridgestone Americas Tire Operations, Off Road division. "The VREP tire gives you extended tire life resulting in a lower cost per hour and lower replacement costs."

The VREP has an innovative lug arrangement that increases overall stability and riding comfort of the operator. The two-stage lug design helps to absorb the energy of shifting blocks, thus minimizing block wear. It is now available in one size: 27.00R49.

Source: Bridgestone Americas Tire Operations, LLC



Yokohama's OTR Division Earns Vulcan's 2010 Gold Alliance Supplier Award

For the fourth consecutive year, Yokohama Tire Corporation's off-the-road (OTR) division was awarded a Gold Alliance Supplier award for 2010 from Birmingham, Alabama-based Vulcan Materials Company, which annually honors its top suppliers. Vulcan is a major producer of construction aggregates, which includes crushed stone, sand and gravel used in nearly all forms of construction.

"Being honored by Vulcan is extremely gratifying because the criteria for earning

a Vulcan Award is based on product, service, support, ease of transaction and value, all of which we take pride in providing to our customers," said Gary Nash, Yokohama vice president, OTR Sales. "Earning their Gold award validates our efforts for maintaining a top

level of service for our customers."

Source: Yokohama Tire Corporation



MICHELIN XZR™ Tire for Ground Support and Materials Handling Equipment

Michelin Earthmover and Industrial Tires has launched the MICHELIN® XZR™ tire for airport ground support vehicles, as well as for lift trucks in the materials handling industry and street sweepers. The XZR tire provides increased operator comfort, speed capability and traction compared to the current Michelin offering for these applications.

"Our customers need a tire in these applications that lowers their total cost of ownership," said Roger Lucas, vice president of sales and marketing, Michelin Earthmover and Industrial Tires. "The XZR meets that need with its robust casing and tread features, providing long life and damage protection to keep the equipment up and running."

The MICHELIN XZR tire is engineered for cooler running due to its tread pattern, specialized rubber compounds and radial design, allowing equipment to operate at speeds up to 50 km/h. With the grip of the multi-block tread pattern, high lug ratio and large optimized contact area, the XZR tire offers significant levels of traction

and stability for year-round use. The tread pattern and its compounding are also designed to maximize tire life and minimize irregular wear. The tire is available in two sizes: 6.00R9 and 7.00R12.

The XZR tire is guaranteed under both the MICHELIN® 90-Day and Six-Month Guarantees. If the customer is not completely satisfied with the tires within 90 days, Michelin will replace the tires for free. The Six-Month Guarantee reflects the

ability of the tire to resist damage and flats. If an XZR tire goes flat within the first six months, Michelin will cover the repair charges.

Source: Michelin



Firestone DuraWaste L6S for Waste Handling and Demolition Markets

Bridgestone Americas Tire Operations, Off Road Tire division, is introducing a new version of the DuraWaste Bias Ply tire to North America.

The new Firestone DuraWaste L6S bias ply tire is available in three sizes, 26.5x25, 29.5x25 and 65/35x33. The retreadable DuraWaste L6S is specially designed for the harsh environments of waste handling and demolition debris removal. Its smooth ultra deep tread provides extra cut resistance and helps extend tire life.

"The DuraWaste L6S is perfect for the wheel loaders and dozers that handle debris or work in scrap yards," said Shawn Rasey, president, Bridgestone Americas Tire Operations, Off Road division. "The DuraWaste L6S tire's deep tread has 40% more tread depth than the L5S, increasing productivity and reducing downtime."

Source: Bridgestone Americas Tire Operations



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Multihandler Works Triple-Duty in Alternative Energy Project at Ciment Québec

Maintaining kiln temperatures in excess of 1,450°C, energy is a primary cost for every cement manufacturing facility. At Ciment Québec Inc., one of the largest producers of Portland cement in Quebec, it is a priority to always be on the lookout for finding a lower cost fuel alternative for its coal-fired kilns.

Ciment Québec recently launched a new alternative fuel project, converting a wide variety of rejected materials that could not otherwise be recycled, into fuel. With a target of processing impressive volumes of material per year, a key step in the project's design was to acquire economical methods to perform three material handling tasks on the site: stockpiling the material, feeding it to the shredders and, when called upon, to feed the processed alternative fuel directly to the pyroprocess.

"We designed the project with the SEN-NEBOGEN 305 Multihandler in mind," says Ciment Québec Maintenance & Project

director Denis Gagnon. "We evaluated and demo'd a number of telehandlers and loaders, but then we searched the internet for other options. That's when we found the Multihandler."

According to Mr. Gagnon, the SEN-NEBOGEN machine was the only choice that met all of his criteria for material handling duties that include pushing, reaching, loading and lifting. "We saw some telehandlers that attach a bucket for loading, but they are not built for prolonged duty in that role," he explains. "The 305's boom is comparatively more adapted to pushing/loading applications. It has the strength and agility to work as a loader as well as a telehandler."

About 90% of the Multihandler's time is devoted to loading the shredders, with the rest divided between stockpiling and moving materials around.

Versatility is the name of the game for a mixed materials operation like the Ciment

Québec facility. Located about 50 km outside Quebec City, Mr. Gagnon's project relies on recycling yards throughout the region for any material that provides sufficiently high BTU values to serve the furnace. The amount and type of material available as fuel depends entirely on what the recyclers decide to provide: from surplus papers and plastics, to scrap tires and asphalt shingles, to wooden railway ties. It all goes into the shredders.

To handle the different material types, the operator of the Multihandler typically switches between boom attachments a couple of times a day. The machine was originally equipped with a bucket and forks attachments, and a new grapple attachment has just been delivered.

"Changing attachments is very quick," says Mr. Gagnon. "It takes less time to switch than it takes to drive across the yard."

The 305 Multihandler covers that ground

Case Introduces Alpha Series Compact Track Loaders

Case Construction Equipment recently launched the new Alpha Series line of compact track loaders, introducing three new models that deliver best-in-class horsepower and breakout force.

The new Case compact track loaders deliver 74 hp in the TR270 and 90 hp in both the TR320 and TV380. Rated operating capacities range from 1,226 kg to 1,905 kg with a counterweight. The Alpha Series models also offer exceptional hinge-pin height, which positions the bucket higher to load trucks faster and easier.

As in the earlier 400 Series 3 models, the new Case compact track loaders feature a dozer-style undercarriage, engineered to hold fast on steep slopes and take command of muddy or sandy terrain.

The undercarriage has a rigid track frame with fewer moving parts, so it is more durable and easier to maintain than suspension track systems.

The Alpha Series includes two radial-lift models, the TR270 and TR320, and an all-new vertical-lift model, the TV380. The TV380 is a new class size to meet

customer demand for a tracked version of the popular Case 465 skid steer. The radial lift machines are engineered for digging, prying and pushing, while the vertical lift models excel on lift-and-carry applications.



The cabs are up to 25% larger. They feature a revolutionary ultra-narrow wire side-screen design that improves operator visibility.

Case compact track loaders now offer standard two-speed travel and electro-hydraulic (EH) switchable controls. The Alpha Series models also feature larger

fuel tanks and improved fuel efficiency to run for eight to 10 hours without refueling.

Alpha Series compact track loaders offer extreme versatility in dozens of applications. More than 70 attachments are



available, including augers, rakes, grapples, pallet forks, brooms, dozer blades and hammers, to take on the toughest construction, landscaping and agricultural jobs.

Source: Case Construction Equipment

pretty quickly, too. The machine can hit a top speed of 25 km/h and it can turn inside an outside radius of just 4.7 m. The operator uses a single joystick control and can select from three steering modes (crab, all-wheel steering, front wheel steering) to work quickly in confined areas.

Denis Gagnon cites the elevating operator's cab as a valuable feature of the Multihandler that continues to set it apart from the other telehandlers and loaders they investigated. "The top of the hopper is close to 7.6 m above ground level," he explains. "The hi-rise cab can elevate the operator up to a 4 m eye level, so he gets a much better look at his work area. It's a very comfortable cab, too, which helps because he is often in there for many hours every day!"

With its two-stage teleboom, the Multihandler can reach a lifting height of 9 m. The 102 hp machine has a rated lifting capacity of up to 4,990 kg.

In operations since 1951, the Saint-Basile facility produces about 1,000,000 t/y of cement, which it ships to customers throughout Quebec, the Maritimes, the



New England states and into Ontario. The company has earned an excellent reputation for innovative methods of "greening" its operations with low emissions and high energy efficiency. Ciment Québec was the first company in North America – third in the world – to install the "Ecofurnace," an advanced solid fuel handling and burning circuit which allows it to use alternate fuels cleanly.

At the time Denis Gagnon was searching for a material handling solution, he was unfamiliar with the SENNEBOGEN line. His

internet search led him to Top Lift Enterprises, the local SENNEBOGEN distributor who arranged for a demonstration. Top Lift continues to provide onsite maintenance services for the Multihandler.

With the success of the system to date, Denis Gagnon reports that Ciment Québec is considering the purchase of a second 305 Multihandler as soon as material volumes warrant it. "It's up to the recyclers," he says. "If they can supply more material, we're ready to replace more coal!"

Source: SENNEBOGEN LLC

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AEMP Honors 2011 Fleet Masters Award Winners

The Association of Equipment Management Professionals (AEMP) awarded two industry professionals with the 8th annual Fleet Masters Award. The winners were recognized at a luncheon ceremony March 21, 2011 at AEMP's 29th annual Spring Management Conference in Las Vegas. Fleet professionals Mike Munson of Austin Bridge and Road, Irving, Texas, and Guy Gordon, Certified Equipment Manager of Insituform Technologies, St. Louis, Missouri, were the 2011 award recipients.

The Fleet Master Award recognizes equipment professionals who demonstrate excellence in meeting the unique challenges inherent to delivering cost-effective and cutting-edge management of mixed fleets of on-road and off-road equipment. Past award winners have included representatives from both private and public fleets.

2011 award recipient Mike Munson holds the position of Equipment Director at Austin Bridge and Road. The company, a division of Austin Industries, is focused on transportation infrastructure, and has completed more than \$2 billion in heavy civil projects over the past five years.

Mr. Munson and his team manage more than 800 pieces of equipment. To aid in effective fleet management, Mr. Munson says he relies heavily on telematics, and has also implemented GPS tracking on nearly 700 pieces of equipment. He says winning the award was completely unexpected, yet he is proud and grateful, as he feels it is a testament to the hard work and dedication put forth by his entire team.

Guy Gordon, CEM and 2011 Fleet Masters Award winner, leads the equipment management team at Insituform Technologies, Inc., a highly specialized, international construction company. The fleet consists of 1,800 licensed vehicles and 110 off-road units, with many purpose-designed and built machines, and components.

As director of asset management, Mr. Gordon oversees a team of about 45, including two CEMs. Under his leadership, the equipment group has provided continued improvement in the areas of equipment quality, safety, productivity and cost. Gordon is honored to receive the Fleet Masters Award, and proud to be recognized for the hard work and impressive results achieved by his entire team.

Formed in 1980, the Association of Equipment Management Professionals represents fleet professionals working in construction, government, utilities, energy, mining and more. AEMP maintains relationships among manufacturers, users,

governmental agencies, educational institutions and others involved in the design and management of heavy equipment.

Source: Association of Equipment Management Professionals

2011 National Technician of the Year

AEMP (Association of Equipment Management Professionals), the premier organization for asset management professionals of off-road fleets, recently recognized two industry professionals with the annual National Technician of the Year award. The honor has been awarded by AEMP since 1989, and recognizes technicians in both the private and public sectors. This year's private sector winner was Tom Hellmers from Murphy Tractors and Equipment, Omaha, Nebraska, while Ron Bradley of Sarasota County Fleet Services Department, Sarasota, Florida took home the public sector award.

Presented through the AEMP Foundation, the National Technician of the Year award is given in recognition of clearly demonstrated professionalism, technical skills, innovative trouble-shooting and diagnostic capabilities, as well as exceptional contributions made to the equipment technician profession. While the award is intended to positively impact the career of its recipients, the ultimate goal is to advance and bring awareness to the technician vocation.

Tom Hellmers is a 48-year veteran of the industry, boasting several professional certifications and achievements. His skill and intuitive nature with technology from several makes, models and lines of equipment has earned him certificates through many different OEMs. In total, he holds more than 60 certificates, ranging in achievement from electrical diagnostics to hydraulic systems. He has also proven himself as a highly innovative technician, having designed and built tools to improve repair processes on several occasions. Over the past few decades, Mr. Hellmers has developed excellent customer relations with state, county, city and private fleet managers. Through these relationships, he has created strong customer loyalty to Murphy Tractor, and widespread recognition of his reputation as an excellent technician and individual.

The 2011 public sector Technician of the Year Award recipient, Ron Bradley, has been with Sarasota Fleet Services for more than 30 years. His position, Heavy Truck/Equipment Technician II is among the most desired positions in the industry and representative of only the most elite technicians. Additionally, he currently holds two EVT certificates and six Master Mechanic ASE certificates, an impressive honor that very few technicians in the world can claim. Mr. Bradley is dedicated to continuing education and higher learning, and sharing his passion with co-workers and next-generation technicians through his time spent training and guiding others. Further demonstrating his commitment to education, he recently developed and presented an introductory learning course as a joint venture with the Sarasota Vocational Institute. The course, titled "Introduction to Automotive Systems", was made available for Venice, Florida, High School students.

Source: Association of Equipment Management Professionals



Ron Bradley (left) and Tom Hellmers (right), 2011 Technician of the Year award winners.

Hydraulic Force Measurement

Hydraulic force measurement is an easy possibility to measure and display forces in a variety of applications. tectsis GmbH offers a large number of hydraulic force transducers, which can be used together with the digital manometer DC400 as an ideal combination for easy and robust force measurement even under rough environmental conditions. As the force transducers are purely based on hydraulics and the DC400 is battery operated, there is no need for an electrical connection. The force measurement utilizes the hydraulic principle: The force applied to a piston generates a hydraulic pressure, which is displayed with the digital manometer. The connection between transducer and manometer can be done either by a fixed pipe or a flexible hose. The position of the plug can be selected according to the requirements of the application. The digital manometer offers many functions. A 4½-digit display indicates the measured force. Additional functions include tare,

minimum and maximum value memory. Besides the digital display the DC400 has a bar graph with an index pointer, indicating the trend of the actual measured force. The background illumination guarantees good readability even under difficult lighting conditions. The rotatable process connection allows to adjust the display according to the needs of the application.

tectsis offers a large variety of hydraulic force transducers with nominal forces ranging from 200 N up to 2.800 kN. The company offers different designs enabling their use in a large number of applications. For example a special design with three pistons can be used to measure the force in a three jaw chuck. Other applications



for the hydraulic force transducers can be found in apparatus engineering, geotechnology and underground engineering, test and measurement equipment and special mechanical engineering.

The combination of hydraulic force transducers with the digital manometer DC400 allows robust force measurements without electricity.

Source: tectsis GmbH

"ParkerStore™ Onsite" Container Program Delivers Working Hydraulic Hose Shop to Remote Locations

Parker Hannifin Corporation announces the newly launched "ParkerStore™ Onsite" program – fully customizable and mobile workspaces stocked with the inventory and equipment needed for quick, easy and cost-efficient hose assembly. With a ParkerStore Onsite container, critical fluid connector products, hose fabrication tools and other hydraulic system components are readily available even in the most remote job locations.

The new mobile containers offer a convenient solution for customers that have limited access to critical replacement parts due to physical (an outlying mine) or logistical (a busy airport) worksite constraints. When a new hose or tube assembly must be fabricated to keep essential equipment up-and-running, and where driving to-and-from the nearest hydraulics distributor means hours of additional downtime, ParkerStore Onsite containers can help keep customers productive and profitable.

ParkerStore Onsite containers are specifically designed to withstand the



severe and demanding environments common to off-highway operations and can be customized to meet specific job site or project needs. Customers can choose from a selection of options including shelving, cabinets, work benches, material hoists and hose reels to keep tools and inventory secure and organized; Parker's bin-label program makes product identification and restocking even easier.

Each brightly lit container also provides plenty of electrical outlets for equipment, while generators are available for a true standalone power solution. For particularly hot or cold environments, the containers

can be equipped with insulation and heating/air conditioning systems to make conditions more comfortable for service staff.

All containers come with the full support of Parker's global service network, including more than 5,000 stocking distributors worldwide providing critical inventory on demand. This support begins with delivery and installation and can extend through equipment, maintenance and safety training when required, making Parker a one-stop partner for intelligent mobile worksite solutions.

Source: Parker Hannifin Corporation

FLO Components Receives Distributor Award from Lincoln Industrial

Automatic Greasing Systems specialist FLO Components Ltd. is proud to announce that it has received the Lincoln Industrial Corp. special "Celebrating 100 Years" distributor award.

According to Len Shpeley, Lincoln's Ontario District Sales Manager; "This award was developed to recognize a select few distributors who over the long term consistently supported Lincoln in growing not just sales and market share but also product and new market development. Over the last 35 years, FLO Components has and continues to set the standard for other Lincoln Systems Houses. We look forward to many more years of mutual success!"

FLO has been the leading distributor for Lincoln in Ontario since 1977. The Company received the "Distinguished Distributor Award" which is awarded annually for outstanding sales performance to one or two distributors in North America, in 1999,

2002, 2005 and 2007.

Commenting on this most recent award, Chris Deckert, president of FLO Components said; "It was an honour to receive this award. Not many Companies can say that for over two generations we have been a key partner with a global leader.

Our thanks go to everyone at FLO who focus at making us the best at responding quickly, at installing professionally and at providing quality customized lubrication solutions for all our customers – done right the first time. This award is an indication to us that, over the long term, we are getting it right."

FLO's marketing specialist, Gabriel Lopez adds; "This award is a validation of our passion for building strong and lasting



customer relationships. We are committed to 'Meeting Customers' Needs Better', and our clients get that. They understand that they're not dealing with 'just another Autogreaser supplier'. They consistently choose FLO because they know they can trust and rely on FLO to take care of them, quickly and professionally. Without our customers, none of this would be possible."

Source: FLO Components Ltd.

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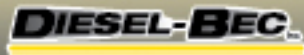
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PowerTech PSX 13.5L Gets EPA Certification

John Deere Power Systems (JDPS) is pleased to announce that their PowerTech PSX 13.5L diesel engine has been certified as compliant with Environmental Protection Agency (EPA) Interim Tier 4, European Union (EU) Stage III B and California Air Resources Board (CARB) emissions regulations.

The PowerTech PSX 13.5L engine joins the previously certified 6.8L and 9.0L engine models. John Deere's PowerTech PSX 9.0L, PVX 9.0L, PSX 6.8L and PVX 6.8L above 174 hp engines received EPA Interim Tier 4, EU Stage III B and CARB certification in 2010.

The PowerTech PSX 13.5L engine features full-authority electronic controls, a 4-valve cylinder head, a high-pressure fuel system, series turbocharging and an air-to-air aftercooling system.

The certified PowerTech PSX 13.5L offers a power range of 400 hp to 600 hp, and went into production in March 2011.

Source: Deere & Company



Cummins QSK to Use Integrated SCR to Meet Tier 4 Final

Cummins Inc. announced recently that the QSK engine range will move forward to meet EPA Tier 4 Final off-highway 2015 emissions with a combination of clean in-cylinder combustion and a new Selective Catalytic Reduction (SCR) clean exhaust system.

For most applications, the Tier 4 Final QSK engine and integrated SCR aftertreatment offer the installation simplicity of a drop-in replacement for the current QSK engine and exhaust muffler, with a similar size and equivalent noise reduction. While achieving very low emissions levels, Cummins Tier 4 Final technology also reduces the overall cost of operation, with QSK fuel efficiency improved by 5% to 10%, depending on the equipment duty cycle.

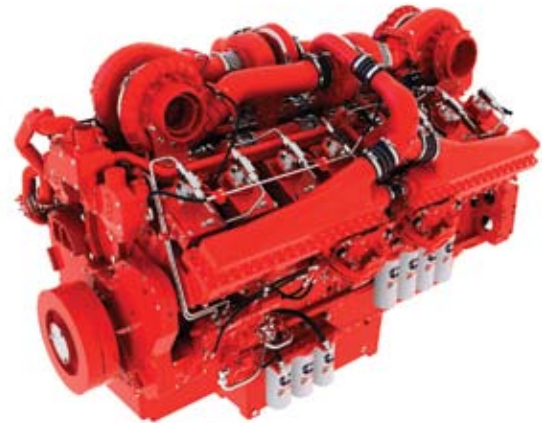
The new SCR clean exhaust system will be utilized on the next generation of 19 l to 60 l QSK engines across a broad 800 hp to 3000 hp power range. The Tier 4 Final engines retain the exceptional power output and in-service dependability of the

current QSK engines, proven in the most demanding high-horsepower applications. The SCR clean exhaust system will be scaled-up for QSK engines above 3,000 hp, including the new larger-displacement engine platform, with details due to be released in September.

Cummins SCR clean exhaust system reduces oxides of nitrogen (NO_x) emissions to 3.5 g/kW-hr for Tier 4 Final off-highway, representing a more than 40% reduction compared with the Tier 2 level. particulate matter (PM) emissions are reduced by 80% to meet the 0.04 g/kW-hr level for Tier 4 Final.

The first Cummins Tier 4 Final QSK engines with the integrated SCR clean exhaust will begin production in 2014, ahead of the January 1, 2015, emissions effective date for engines above 751 hp. With the emissions technology performance now validated, the Cummins Tier 4 Final

program will now focus on machine integration and field test optimization, working



closely with equipment manufacturers.

Concurrent with the Tier 4 Final production, Cummins will maintain full production of all current QSK and K Series high-horsepower engines for worldwide applications requiring less stringent emissions levels.

Source: Cummins Inc.



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Canada Post Adds Navistar's eStar™ All-Electric Trucks to its Fleet

Canada Post recently added the first all-electric step vans in Canada to its fleet. The corporation showcased the first of four all-electric commercial vehicles built by Navistar Inc. The eStar™, a Class 2c-3 electric truck and the first in its category, has a range of 160 km per charge and can be fully recharged within 6 to 8 hr.

With zero tailpipe emissions, each eStar™ truck can reduce greenhouse gas emissions by as much as 10 t/y. The windshield design provides nearly 180° visibility, the low-floor design allows easy loading/unloading and the noise level is nearly nonexistent.

Unlike other electric trucks that are reconfigured models of fossil-fuel trucks, the eStar™ truck has been purpose-built for electric power, providing a competitive advantage with a low center of gravity (the battery is between the frame rails, not mounted on top) and a 11 m turning radius. The eStar™ is engineered with supe-

rior aerodynamics, a walk-through cab and a quick-change cassette-type battery that can be swapped out in 20 min, enabling around the clock operation. It is capable of carrying payloads up to 2 t.

"For businesses, municipalities and other organizations that demonstrate their environmental commitment, the eStar™ is a smart option," said Mark Aubry, vice president sales and marketing, electric vehicles, Navistar. "The eStar™ is enabling responsible customers who strive to have a positive impact on the environment through energy efficiency."

Canada Post has the largest delivery fleet in Canada – over 7,300 vehicles traveling more than 79 million km/y.



The company has made investments in researching and testing alternative technologies including ethanol, biodiesel, natural gas, propane, hydrogen, hybrids as well as electric vehicles to reduce the environmental impact of its fleet.

The eStar™ is sold at the Western International dealership in Toronto and in partnership with Kemptville International in Ottawa.

Source: Navistar International Corporation

BAE Systems to Integrate Caterpillar CX Series Transmissions into its HybriDrive® Parallel System

BAE Systems and Caterpillar Inc. have signed a joint development agreement to collaborate on a parallel hybrid propulsion system for heavy-duty trucks. Under the agreement, BAE Systems will integrate Caterpillar CX Series Transmissions into its HybriDrive® parallel propulsion system, recently launched at the National Truck Equipment Association Work Truck Show.

"Through this alliance, our transmission will become an integral part of BAE Systems' new HybriDrive parallel system," said Jeff Pohl, Hauling & OEM Drivetrains product manager for Caterpillar. "Our driveline expertise, including planetary automatic transmission expertise, combined with BAE Systems' proven hybrid technology, will result in a seamlessly integrated product that meets performance and efficiency demands of vehicles that operate in diverse duty cycles."

BAE Systems is a leading developer and producer of hybrid electric propulsion and power management systems for heavy-duty vehicles. The company's HybriDrive

series propulsion system – currently in service on more than 3,000 transit buses in cities around the world – meets the demands of urban transit duty cycles, which require low average speeds and frequent stop-and-go operation. The HybriDrive parallel system is designed to address the needs of vehicles with duty cycles that require higher operating speeds and less frequent stops.

With more than 300 million km of revenue service, more than 40 million l of diesel fuel saved, and more than 100,000 t of CO₂ emissions prevented, the market-leading HybriDrive series system has proven itself to be one of the most efficient hybrid electric systems for the transit bus sector and has provided significant environmental benefits.

The HybriDrive parallel system's supplemental power and torque ratings range from 95 hp to 145 hp and torque of 300 ft-lb to 400 ft-lb respectively. The



system is designed to support large-bore, heavy-duty power plants, ranging from 350 hp to 600 hp, with associated torque ratings of 750 ft-lb to 2,150 ft-lb.

The HybriDrive parallel system, in final stages of development, will see its first road trials this spring and is expected to be deployed in markets around the world in 2012.

Source: BAE Systems

Shell Brings Ultra Long-Lasting Engine Coolant to Canada

Shell's newest extended life coolant (ELC), designed to run more than 960,000 km without an extender, is now available in Canada.

The company announced at ExpoCam that its Shell Rotella Ultra ELC, introduced first in the United States last August, can now be purchased north of the border.

"The inclusion of Shell Rotella Ultra ELC in the coolant portfolio for Canada is an important part of the continued growth and development of the Shell Rotella product line," said Mark Reed, global brand manager for Shell Rotella. "This further strengthens our position as technology leaders by providing a diverse line of coolants and engine oil products that are designed to meet the challenges of today's and future heavy-duty engines."

The new coolant is nitrite-free, making it a good fit for the newest generation engines, which contain more aluminum parts that can be corroded by nitrite-containing coolants, said Dan Beaudin,

B2B direct marketing manager, fleets, with Shell Canada. He also noted the new coolant is ideal for hotter-running engines, including those using exhaust gas recirculation (EGR).

While Rotella Ultra ELC will carry a premium price, it will be recovered over the life of the product, especially since the user does not have to purchase an extender, he noted.

Some of the benefits of Rotella Ultra ELC include enhanced oxidation control and corrosion protection of aluminum alloys and lead solder, as well as better elastomer compatibility with silicone seals, the company says. It is available in two formulations: a ready-to-use pre-diluted

50/50 mix and a concentrate, which must first be mixed with demineralized water.

Rotella Ultra ELC rounds out Shell's



coolant line, which also includes Rotella ELC (providing protection for more than 960,000 km with an extender required at 482,803 km) and Rotella Fully Formulated (providing protection for up to 402,336 km, provided the user monitors and maintains SCA additive levels).

Source: Shell



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Appointments

Automatic Lubrication Systems specialist **FLO Components Ltd.** continues to expand its resources to better serve mining, construction, road building, aggregate and trucking companies in the Nickel Belt. The company recently announced the appointment of **Steve Morel** as territory sales manager - Sudbury, Ontario. A native of Sudbury and graduate of Laurentian University, Mr. Morel's previous experience over the last 10 years includes various technical and sales positions in the mining, steel, construction and transport industries in Sudbury. His primary focus will be to increase local availability of technical support to our customers and to build FLO's client base in the greater Sudbury area.



Commenting on the new appointment, Mike Deckert, vice president of FLO Components said: "We are excited to have Steve join our team. Steve will be taking over for Ed Colley who retired after many years as FLO's Sudbury Rep and who was well known and respected in the industry. We believe that Steve's technical experience, which includes millwrighting and working as a coach/trailer mechanic in Sudbury makes him uniquely suited for providing the kind of technical and sales support our customers have come to expect. Living in Sudbury, Steve will work with our key partners in the industry developing lubrication solutions that take away their equipment breakdown related pain and increase machine uptime and profitability."

Source: FLO Components Ltd., 1-800-668-5458

Steven Sill, president of Aspen Equipment Company, was installed as the 47th president of the **National Truck Equipment Association (NTEA)** at The Work Truck Show 2011, held in Indianapolis, Indiana.

Also serving on the 2011-2012 Board are Executive Committee members:

1st vice president Frank Livas, (Brake & Clutch, Inc.); 2nd vice president Shawn Jacobs, (STS Trailer & Truck Equipment); 3rd vice president and treasurer Bobby Horton, (Commercial Body & Rigging); and NTEA executive director and secretary Jim Carney.

Serving alongside Executive Committee members are Distributor Trustees Steve Hayes, (Layton Truck Equipment); Adam Keane, (Allied Body Works, Inc.); Jeffrey Messer, (Messer Truck Equipment); and Terry Wieseler, (Truck Equipment, Inc.) and Manufacturer Trustees Brett Collins, (Venco/Venturo Manufacturing, Inc.); Mark Woody, (Palfinger North America); and Dave Zelis, (Buyers Products Co.).

Source: National Truck Equipment Association



An Award for the AEM

The Association of Equipment Manufacturers (AEM) has received the U.S. Department of Commerce's "Certificate of Appreciation for Achievement in Trade" in recognition of its work with the department to promote U.S. export development and create opportunities for U.S. businesses through trade.

AEM president Dennis Slater accepted the award on behalf of the association from Suresh Kumar, assistant secretary of



AEM president Dennis Slater (right) accepts a U.S. Commerce Department "Certificate of Appreciation for Achievement in Trade" award from Suresh Kumar, assistant secretary of Commerce for Trade Promotion and director general of the U.S. and Foreign Commercial Service, during ceremonies at the recent CONEXPO-CON/AGG exposition in Las Vegas.

Commerce for Trade Promotion and director general of the U.S. and Foreign Commercial Service, during ceremonies at the recent CONEXPO-CON/AGG exposition.

AEM has been a strong partner of the U.S. Department of Commerce for more than 30 years, and it is an active participant in the Department's U.S. Commercial Service's International Buyer Program for AEM-run shows such as CONEXPO-CON/AGG and AG CONNECT Expo.

"AEM is an outstanding example of how our collaborative partnering efforts are enhancing export opportunities for U.S. construction and agricultural equipment suppliers," Mr. Kumar said. "President Obama's National Export Initiative aims to double U.S. exports by 2015 while supporting millions of U.S. jobs, and trade shows such as CONEXPO-CON/AGG 2011 are a key to helping us achieve this goal."

At CONEXPO-CON/AGG 2011 and the co-located IFPE 2011, international registrations accounted for a record 24% of the total of nearly 120,000 registered attendees, representing more than 150 countries. The shows hosted 42 official international customer delegations from 37 countries, organized by the U.S. Department of Commerce as well as in-country associations and related groups.

AEM provides members with a variety of international market reports and global business development services to help them enter or expand into markets worldwide. Visit the "global business development" section of www.aem.org for more details.

Source: The Association of Equipment Manufacturers

Global Sweeping Solutions Represents Python Manufacturing in North American Partnership

Python Manufacturing Inc. and Global Sweeping Solutions recently announced an historic partnership to dramatically expand Python Manufacturing's presence in the North American road maintenance equipment market.

Python lends its more than 40 years experience in engineering and manufacturing quality street sweeping and road maintenance equipment.

Python's comprehensive product line includes a full range of street sweeping solutions for municipal and contractor customers and the first and only purpose-built, hydrostatic driven, self-contained pothole patcher.

Global Sweeping Solutions, based in San Bernardino, California, brings a combined 60 years experience in the street sweeper industry. The company's extensive product distribution network spans more than 45 dealers throughout the United States and Canada. President Jason Condon says, "Python sweepers offer the perfect balance of high quality, low maintenance cost and user-friendly features that today's sweeper customers demand. Their innovative technology has been replicated throughout the industry and its pothole patcher promises to revolutionize the road maintenance field. We are excited to bring these products to a broader market in North America."

Python president Les Hulicsko says, "This is a terrific opportunity for Python. We have the high quality, cost-effective equipment that contractors and public works departments are looking for. Global has the industry knowledge, proven marketing experience, competitive dealer network and the ability to elevate our products to the forefront of the industry."

Condon and Hulicsko promise that the Global-Python name will be soon seen on streets and roads throughout North America.

Source: Python Manufacturing



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Registration Now Open for WaterSmart Innovations Conference and Exposition

Registration is now open for the fourth WaterSmart Innovations (WSI) Conference and Exposition, slated for October 5 - 7, 2011 at the South Point Hotel and Conference Center in Las Vegas.

Last year's WSI conference and exposition drew nearly 1,100 participants from the United States and 10 other countries. WSI 2010 featured more than 130 professional sessions and an expo hall with 100 exhibitors.

The Southern Nevada Water Authority is presenting WSI 2011 in partnership with the Alliance for Water Efficiency, American Water Works Association, Audubon International, California Urban Water Conservation Council, the U.S. EPA's WaterSense Program, Green Plumbers USA, International Association of Plumbing and Mechanical Officials, International Center for Water Technology, International Code Council and Irrigation Association.

More information is available at www.WaterSmartInnovations.com.

Source: The Southern Nevada Water Authority

Agenda

Expomatec Spain 2011

May 17 - 22, 2011
 Madrid, Spain

WINDPOWER Conference & Exhibition

May 22 - 25, 2011
 Anaheim, CA USA

CIM Conference & Exhibition 2011

May 22 - 25, 2011
 Montreal, QC Canada

The Pacific Construction Equipment Show

June 3 - 4, 2011
 Chilliwack, BC Canada

2011 International Bridge Conference®

June 5 - 8, 2011
 Pittsburgh, PA USA

Geosystems @ Hexagon 2011

June 6 - 9, 2011
 Orlando, FL USA

2nd International Rental Exhibition (IRE)

June 7 - 9, 2011
 Amsterdam, The Netherlands

AORS Municipal Trade Show

June 8 - 9, 2011
 Kitchener, ON Canada

APOM Technical Day

September 9, 2011
 Lévis, QC Canada

BalticBuild - 15th International Building and Interiors Exhibition

ExpoClimate - International Forum for water supply and climate equipment
 September 12 - 14, 2011
 St. Petersburg, Russia

APEX 2011

September 14 - 16, 2011
 Maastricht, The Netherlands

IndiaBuild

September 15 - 17, 2011
 New Delhi, India

Expo-Paysages (Outdoor Landscaping Exhibition)

September 16 - 17, 2011
 Saint-Liboire, QC Canada

ICUEE - The International Construction & Utility Exposition

October 4 - 6, 2011
 Louisville, KY USA

WaterSmart Innovations Conference and Exposition

October 5 - 7, 2011
 Las Vegas, NV USA

Congrès INFRA 2011

November 7 - 9, 2011
 Quebec City, QC Canada

Canadian Waste & Recycling Expo

November 9 - 10, 2011
 Montreal, QC Canada

Atlantic Heavy Equipment Show

March 29 - 30, 2012
 Moncton, NB Canada

EXPO GRANDS TRAVAUX 2012

April 13 - 14, 2012
 Montreal, QC Canada

INTERMAT

April 16 - 21, 2012
 Paris, France

DEMO International® 2012

September 20 - 22, 2012
 Saint-Raymond, QC Canada

Bauma 2013

April 15 - 21, 2013
 Munich, Germany



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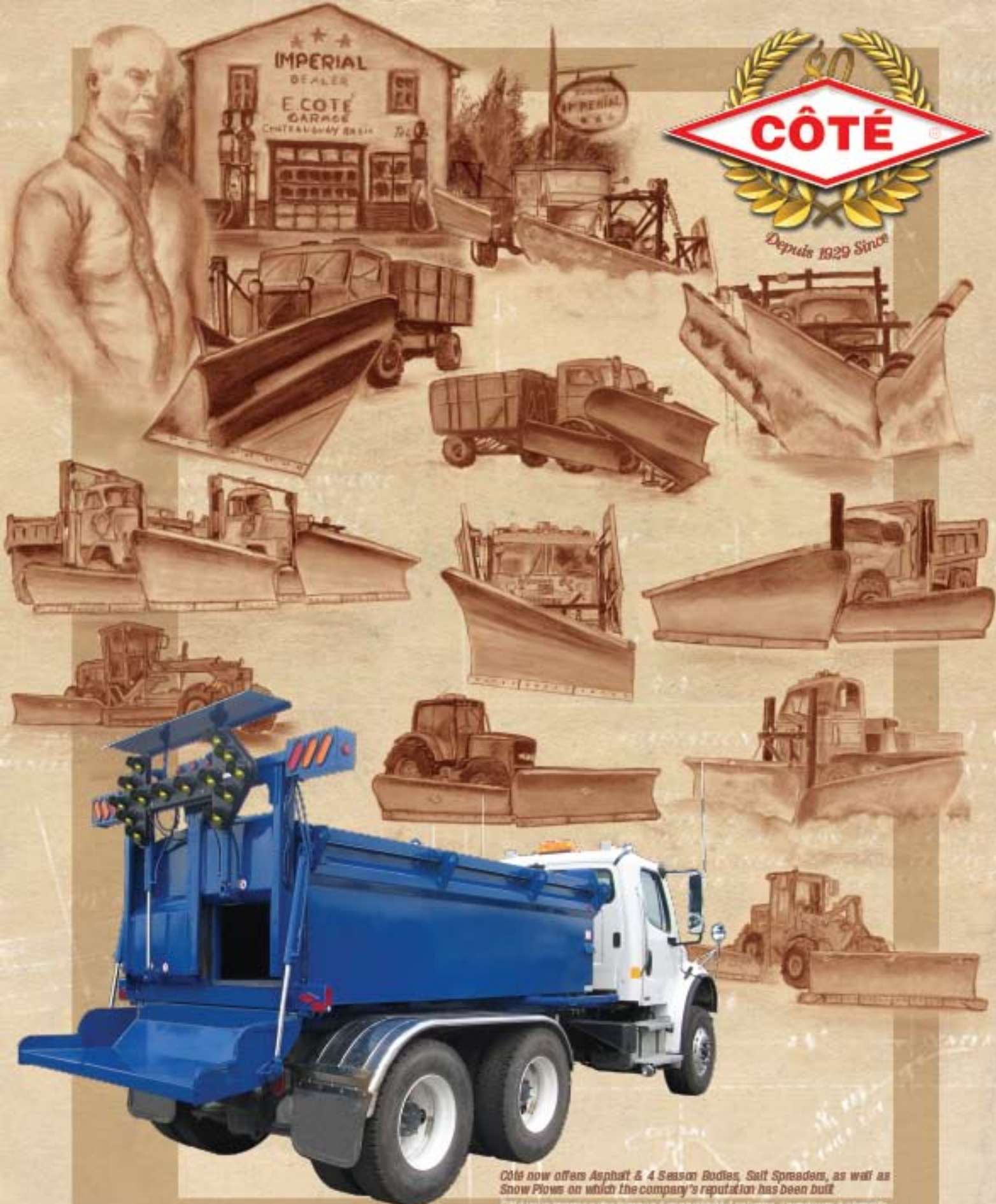
Mark Your Calendar
October 4-6, 2011

Kentucky Exposition Center
Louisville, Kentucky

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