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Volume 15 • Number 7 • August 2010 • *English Edition*



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Volume 15 Number 7
August 2010

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InfraStructures is circulated free of charge to qualified users of heavy machinery and specialized equipment in construction, public works, and natural resources across Canada in both French and English.

The cost of a subscription for either edition for one year is \$50 for Canadian residents and US\$75 or €75 for U.S. and overseas.

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LEGAL DEPOSIT
Bibliothèque Nationale du Québec, 2010

DISTRIBUTED BY CANADA POST
Publications Mail Agreement #40052183

A Brief Word...

Well, the August Issue is upon us again and with it our tradition of bringing you thoughts of winter maintenance while you are still enjoying ice cream and pondering a weekend at the beach.

How better to be able to learn and prepare for the inevitable than with Canada's leading industry publication and a warm blue sky? November deadlines are less than three months away and you are still likely pressing on with the summer's workload, hoping winter may yet pass you by.

It is not just about winter in this issue. As you have come to expect from us, it is news and stories of innovation from across the country and around the world. You know it is not our style to hoard information you need, whether it be about new asphalt equipment or developments in concrete technology. You also know it is not just about equipment or technology but applications and operational developments on how your organization can work more efficiently, safely or profitably, regardless of your core focus.

So in the sweltering late August heat, make InfraStructures your refresher. Pick us up, and let us pick you up.

Mush!!



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On the cover:

a Contant snow blower is used to clear the access road to the Yellowstone National Park, Wyoming, from the Montana side. These roads are closed during the winter season.

This demonstration took place in May 2010, in front of representatives of the Montana DOT. Following this, they acquired two units of the Contant C-915D model.

NEW BRUNSWICK LANDFILL GAS PROJECT FIRST OF ITS KIND IN CANADA

With CantorCO2e's assistance, the Fredericton Region Solid Waste Commission (FRSWC) is seeing green. After voluntarily installing controls at its landfill and gaining recognition of its greenhouse gas reduction credits, FRSWC has completed initial sales of its newly minted greenhouse gas credits.

Earlier this year, with CantorCO2e's

assistance, FRSWC successfully registered its emission credits with the BlueRegistry. This culminated a process that included a rigorous independent validation and verification of the reductions, based on the United Nations' Clean Development Mechanism (CDM) protocols. Achieving those goals allowed the FRSWC to successfully register VER+ offset credits on the BlueRegistry. The CDM-based VER+ certification standard allows climate

change projects to carry out procedures of equivalent standard outside the Kyoto Protocol. The BlueRegistry serves as a contact point for registered project owners such as the FRSWC to sell verified emission credits.

Now the FRSWC has begun the monetization process. "With CantorCO2e's assistance over 50 000 t have been transacted and more are in the works," said Josh Margolis, CEO CantorCO2e. "Judging from the response so far, there is an unmet demand for Canadian reductions that are real, measurable and verifiable" concluded Mr Margolis.

"The Fredericton Region Solid Waste Commission has maintained its commitment to provide vision and strong leadership in solid waste management," said FRSWC general manager and CEO Gordon Wilson. "We pride ourselves on our commitment to sustainability. This process indicates the almost \$2 million the FRSWC spent will eventually pay for itself through the successful sale of emission credits. It is truly a Canadian success story from environmental and investment standpoints. We're proud of the accomplishments of our senior staff, our commission and the region we serve."

The leadership and effort of the FRSWC have enabled it to become Canada's first GHG emission reduction project of any sort to qualify for a formal validation report against a CDM-based standard, such as VER+. The independent validation and verification were conducted by the UN accredited auditors DNV.

All the technical work and management of the emission crediting process were performed by CantorCO2e, a leading global provider of financial services in energy and environmental markets worldwide.

"We are thrilled to have been selected by the Commission to facilitate the validation and verification of Canada's first carbon offset project verified using CDM protocols," said CantorCO2e's Mr Margolis. "Our goals are aligned by bringing high quality VERs to the North American market."

The \$1.98 million LGMS project, which opened in December of 2006, showed dedication and commitment to sustainability to the approximate 300 km² the FRSWC serves.

The FRSWC regularly collects between 75 000 and 80 000 t/y of garbage.

Phase I of the operation was the design



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and construction of the LGMS. Phase II involves utilization of the gas to be used as a power generator.

Source: CantorCO2e

LKS HIGH PV SEAL™ MAKES CANADIAN DEBUT AT GPS

Bal Seal Engineering's new LKS High PV Seal™, introduced to the U.S. oilfield industry at the 2010 Offshore Technology Conference in May, is making its Canadian debut this week at the Global Petroleum Show and Conference in Calgary, Alberta.

During the GPS event, running June 8 - 10 at Stampede Park, attendees will get their first official look at the multi-component LKS Seal and learn about its ability to provide as much as 150% more service life than similar short-lip seals in critical oilfield equipment.

Consisting of a graphite-reinforced, spring-energized PTFE sealing ring, PEEK anti-extrusion device and metal locking ring, the LKS High PV Seal combines material science and an all-in-one design to deliver prolonged performance in high pressure, high velocity applications. The seal, which has been proven in both field and lab environments, offers OEMs greater predictability and an added level of protection against warranty claims, the company says.

In support of its U.S. and Canadian introduction of the LKS, Bal Seal has also launched a website, www.lks-seal.com. The site features detailed information about how the seal works, and illustrates its performance rotary steerables, pump systems, top drives and pulsing tools. The site also provides visitors with access to a free mobile device app, the "Pressure/Velocity and Seal Life Estimator," which generates a PV value that can help facilitate more informed, intelligent sealing choices.

Source: Bal Seal Engineering, Inc.

CUBEX QXR RANGE AGREEMENT WITH SANDVIK MINING AND CONSTRUCTION

Sandvik Mining and Construction and Cubex Limited are pleased to announce a global partnership for the distribution of the QXR Surface drills. In November 2009, the companies announced a Dealer Agreement for Sandvik to distribute Cubex' underground mining products. Sandvik and Cubex are now expanding the Cubex arrangement, with Sandvik to distribute the entire range of QXR down-the-hole (DTH)

Surface drills.

All global sales, customer service and aftermarket support for the QXR range will transfer to Sandvik. Sandvik and Cubex are developing the plans to ensure a seamless transition and expect a continuation in the high levels of existing support and service for the fleet of QXR drills already operating globally. Manfred Schaffer, president of Surface Mining at Sandvik Mining and Construction says: "The QXR series is a

perfect addition to our range of dedicated surface mining drills. The QXR range complements our existing offering and confirms our position as the productivity leader in mining. We are now able to offer a more broader offering to our customers to meet their Surface Mining drilling requirements. The integration of the QXR drills, combined with Sandvik's global customer support, will represent huge benefits for our customers."



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Cubex Limited is located in Winnipeg, Manitoba. Founded in 1972, it has become a leading developer of DTH drills for both the underground and surface mining industry. Cubex is actively involved in the sales and support of capital equipment to the mining industry around the world. Kitch Wilson, president of Cubex says: "On six continents, the QXR has already proved itself to be a productivity leader in down-the-hole drilling. Now, with the global support of the Sandvik organization, we are convinced these drills will be increasingly popular in all mining and large quarry operations for a wide variety of drilling applications."

The QXR drills are fully self-contained, diesel-powered, high pressure DTH drills. They are crawler-mounted and have tilting booms and feeds for maximum flexibility. QXRs are utilized across a broad range of mining drilling applications including blasthole production drilling, pre-split drilling as well as pioneering and pit dewatering. A growing field is Reverse Circulation (RC) drilling for sampling and grade control. The QXR is best known for its robust mining design, matched with powerful compressors giving the capability of drilling with 500 psi air. A full range of engine and compressor configurations allow the machines to be optimized for 102 mm, 127 mm, 152 mm and 203 mm DTH hammers.

Source: Sandvik Mining & Construction

CARMANAH/SABIK MARINE LANTERNS TO SUPPORT SPILL CONTAINMENT EFFORTS

Carmanah Technologies Corp. through its marine partnership with Sabik Oy is providing Carmanah/Sabik solar LED marine lanterns for marking oil spill containment booms in the Gulf of Mexico. The lanterns are helping to keep marine traffic safe while containment and cleanup work continues in the area.

Through the efforts of Carmanah's authorized marine distributor in Texas, several hundred white and yellow Carmanah/Sabik Model 502 and M650 solar LED marine lanterns have already been deployed to mark areas such as open bays and waterways where the presence of containment booms poses a risk to navigational safety. Carmanah is working with its Houston-based manufacturing partner to fast-track production and delivery of several hundred additional lights in the

coming days. Carmanah has a history of responding in times of crisis, most notably in the wake of Hurricane Katrina in 2005, when all production was diverted to supply self-contained, self-powered solar LED lighting solutions to keep road, air and marine traffic along the Gulf Coast moving safely while rebuilding efforts were underway.

"Our customer had tried and abandoned a battery-powered marking light due to performance issues and ongoing maintenance requirements. They asked us to provide a maintenance-free, cost-effective alternative that could be trusted to perform reliably in a range of operating

conditions," said Carmanah distributor Jeff Sandel, vice president of Laporte, Texas-based Channel Safety and Marine Supply. "Our years of working with Carmanah, and Carmanah's reputation as a trusted supplier of aids-to-navigation lighting to the U.S. and Canadian Coast Guards, tell us that the Carmanah/Sabik solar-powered LED marine lanterns will deliver on all accounts."

"With all available resources in the Gulf focused on containment and cleanup, this is no time to worry about whether or not the lights are working, or to be expending valuable manpower to change bulbs or batteries," said Carmanah CEO Ted Lat-

Navistar Defense and Tatra Team for Canadian SMP Program

Navistar Defense, LLC and Tatra, a.s. recently announced that they will team for the upcoming Canadian Department of National Defence Standard Military Pattern (SMP) vehicle program. As part of the Medium Support Vehicle System (MSVS) program, SMP will replace Canada's Medium Logistics truck fleet.



"We are excited to team with Tatra for the upcoming SMP vehicle program and believe that Tatra's innovative vehicle designs and unique tactical chassis technology provide the team with a great advantage," said Archie Massicotte, president, Navistar Defense. "Combining our military vehicle expertise, the Navistar-Tatra team brings to the table the know-how and the flexibility to provide Canada with great tactical vehicle technology and support solutions."

"We are truly energized by how well Tatra and Navistar have come together as a team over these last several months," said Ronald Adams, Tatra's CEO and chairman of its board of directors. "As our cooperation has deepened with each passing day, and as we have built our first trucks together, we have come to realize how very powerful this team will be in the tactical vehicle arena. Our combined technology, engineering, manufacturing, and support capabilities present a compelling value proposition for our customers."

The Navistar-Tatra team also plans to utilize Navistar's global parts and support network for vehicle support. The team is also focused on creating local sustainment of its vehicles and will meet all requirements under Canada's Industrial and Regional Benefits policy.

Navistar will serve as the prime contractor for the SMP program. The company is currently providing Military Commercial off the Shelf (MilCOTS) vehicles to the Canadian DND as part of the MSVS program. The company's Canadian dealerships provide service support for these vehicles.

Source: Navistar International Corporation
Tatra a.s.

timore. "The combination of solar power and LED technology in our marine lanterns means they can be trusted to perform day after day, year after year, leaving our customers free to concentrate on the job at hand."

Carmanah is best known within the maritime community for its high-performance short-range solar LED aids-to-navigation lighting. A strategic partnership with Finland-based marine lighting pioneer Sabik Oy, announced in March of 2010, allows both companies to deliver a complete range of aids-to-navigation lighting, from one to 18 NM, to their respective global customer bases under the Carmanah/Sabik brand.

Source: Carmanah Technologies Corp.

CODE APPROVALS AND PLANT EXPANSIONS FUEL REDBUILT'S GROWTH THROUGHOUT CANADA

RedBuilt™, formerly the Commercial Division of Trus Joist®, has expanded its presence, and the availability of its products, throughout Canada with increased production capabilities, new sales representation, and CCMC code approvals for RedBuilt products. The expansion is concurrent with the launch of a new RedBuilt website, www.redbuilt.com.

The Canadian Construction Materials Centre (CCMC), part of the National Research Council's Institute for Research in Construction (NRC-IRC) recently evaluated RedBuilt's Red-I™ joists and RedLam™ Laminated Veneer Lumber engineered wood products. The CCMC determined that both product lines complied with Canada's National Building Code 2005.

"CCMC's certification of Red-I Joists and RedLam LVL validates the quality of our products, and acceptance of their use in construction projects throughout Canada," said Kurt Liebich, president and CEO of RedBuilt. "These latest certifications reflect the high standards that we hold ourselves and our products to, and are the latest in a series of industry certifications and approvals that our products have received," including PFS Fire Ratings in Canada and the United States, and FSC Certification for open-web trusses and Red-I joists.

"Each of these agents has tremendous knowledge about the commercial building industry and building codes in Canada," said regional sales manager Darren Lehto. "Their thorough understanding and experi-

ence in wood construction brings remarkable value to RedBuilt's customers."

To support the increased product demand as a result of the CCMC certification and expanded presence, RedBuilt recently completed a number of upgrades to one of its U.S. manufacturing facilities in Stayton, Oregon. These upgrades included an additional RedLam LVL products manufacturing line, a new RedPlank™ scaffold plank line and RedForm™ concrete forming line.

"We've upgraded our production facilities and manufacturing capabilities in order to accommodate an increased demand from international markets such as Canada," said Mr Liebich. "Commercial construction throughout Canada is poised for tremendous growth, and RedBuilt is committed to provide innovative engineered wood products, design services and support to meet that demand."

RedBuilt has been recognized as a world leader in developing wood-based structural solutions since 1960. Acquired in August of 2009 by Atlas Holdings LLC in partnership with a group of former leaders of Trus Joist Corp., RedBuilt offers the industry's most

innovative engineered wood products and building systems for commercial, industrial, and multifamily applications.

Source: RedBuilt

BUCHER MUNICIPAL STREAMLINES WINTER MAINTENANCE PORTFOLIO

Bucher Municipal, a division of Bucher Industries, sold its airport snow sweeper and Rolba snow blower unit to Swiss-based Zaugg AG Eggiwil. Fluctuating sales over the past few years did not fit the company's strategy based on series produced machines. The parties have agreed not to disclose the sales price.

Zaugg AG Eggiwil, is a Swiss company geared to fulfilling customers' individual wishes, making it excellently positioned to acquire the airport snow sweeper and Rolba snow blower project business. Furthermore, the acquired products fully complement the attachments and mounted equipment that Zaugg makes for municipal vehicles, primarily for snow removal. Zaugg will combine the acquired unit with the products currently at the Eggiwil site. Customer service and spare parts will

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Source: Bucher Industries AG

RECORD NUMBER OF EXHIBITORS AT IFAT ENTSORGA 2010

It is still a month before IFAT ENTSORGA 2010, but the fair is already reporting an extremely large number of exhibitors: more than 2620 companies from more than 44 countries have already registered for the World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management. Now it is also clear that IFAT ENTSORGA will occupy one more hall than IFAT 2008.

Like the 2008 fair, there will also be a joint exhibit sponsored by Germany's Federal Ministry of Economics and Technology (BMWi). A total of 12 new and innovative companies will present their products and technologies to a broad-based audience of industry professionals on a good 250 m² of exhibition space.

For the second time, the so-called Research & Education Area will also be part of the fair. A total of 24 colleges and universities will present their innovations and research results on some 400 m² of exhibition space.

IFAT ENTSORGA 2010 will be held from September 13 - 17, in Munich, Germany.

Source: Messe München International

CONEXPO-CON/AGG 2011 TOPS 185 000 m²

Exhibit space sales are going strong for CONEXPO-CON/AGG 2011, topping 185 000 m² of exhibit space. Space sales for the co-located IFPE 2011 are outpacing the last show and now total more than 11 700 m².

"These numbers are especially gratifying given the continued slowdown in the manufacturing sector. We value the industry support we're receiving as we strive to offer the industry a gathering place to sell their equipment, products and services as well as network with peers," stated Megan Tanel, vice president exhibitions and events for the Association of Equipment Manufacturers (AEM).

The shows run March 22-26, 2011 at the Las Vegas Convention Center in Las Vegas, with a focus on construction, construction materials and fluid power/motion control.

According to a recent AEM survey of contractors, industry customers still cite new products and access to industry

experts as key reasons for attending trade shows, and they'll find both at the 2011 AEM shows, Mrs Tanel said. The shows will feature the leading U.S. and global manufacturers, special equipment demonstration areas are planned, and more targeted industry education and training opportunities will be available onsite. Attendees will also have access to the co-located ICON Expo, with an emphasis on the concrete products industry.

"What remains the same is AEM's com-

mitment to offer a quality show experience and outstanding customer service," added Melissa Magestro, IFPE show director. "We are industry-run shows and delivering maximum value to attendees and exhibitors is our top priority."

Registration is now open for the shows. Exhibit space and sponsorship opportunities are still available, on a first come, first served basis.

Source: Association of Equipment Manufacturers

Road Wizard Features Improved Design

Elgin Sweeper has introduced a new Road Wizard mechanical sweeper featuring an improved design and available with a choice of Freightliner, UD, and International chassis, in conventional or cabover configurations. The new design features an improved spray system water pump, and more efficient hydraulics. The sweeper is powered by a liquid-cooled, low emission Tier 4i engine that provides variable control over sweeper speeds with no effect on truck speed.

"The broom placement on the Road Wizard has been optimized for sweep performance, making it ideal for heavy municipal and construction applications," said Brian Giles, sweeper product manager at Elgin Sweeper. "The improved design also includes chassis wheelbases as short as 335 cm, resulting in a 2,75 m sweepable inside radius for cul-de-sacs and islands and a 7,6 m sweepable outside radius for cul-de-sac curb lines and tightly winding streets."

Mr Giles said Elgin Sweeper's engineers worked directly with their dealers and customers to conduct field testing on the Road Wizard and provide input. "We are pleased with the feedback we've received from the field and we are also encouraged that our customers have played an important role in ensuring the ongoing success of the Road Wizard sweeper."

The new elevator design on the improved Road Wizard provides variable sweep heights – standard, elevated and transport heights – and dramatically reduces machine downtime for elevator service. The modular design of the sweeper's conveyor allows for rapid removal for repair or replacement.

The water tank assembly on the redesigned Road Wizard consists of three tanks, eliminating the need for internal baffles and allowing for easy replacement. The capacity on the new water tank has been increased from 1287 l to 1363 l for extended operation. The volumetric capacity on the new hopper remains one of the largest in the industry, at 4,13 m³. The new hopper adopts the "tilt frame" concept along with other Elgin products, assuring a robust and long life hopper and lift assembly.

Source: Federal Signal Corporation



ITT SIGNS AGREEMENT TO PURCHASE GODWIN PUMPS

ITT Corporation recently announced its agreement to purchase privately held Godwin Pumps. Godwin is a leading supplier of automatic self-priming portable pumps used in the growing markets for drainage pump rental, services and sales serving the global industrial, construction, mining, municipal, oil and gas segments.

ITT has agreed to purchase Godwin from its principal shareholders for \$585 million. The transaction is expected to close in the third quarter of 2010, pending customary regulatory approvals.

"This acquisition is another example of ITT's strategy to expand our core businesses and build on our strong global positions in water, wastewater and industrial process," said Gretchen McClain, president of ITT's Fluid and Motion Control group. "Godwin's business is a great complement to our existing fluid technology portfolio, and is expected to establish ITT among the leaders in the growing and profitable \$3 billion global market for dewatering pumps and rental services."

Godwin Pumps, founded in 1976, is based in Bridgeport, New Jersey, and has approximately 800 employees located throughout the United States and at its manufacturing facility in Gloucestershire, England. The company operates a rental fleet of more than 6000 pumps. When combined with ITT's existing dewatering sales, the Godwin acquisition is expected to double ITT's revenues from dewatering equipment and services.

Godwin is best known for its service capabilities in dewatering (the removal of unwanted water and other fluids) and the original Dri-Prime pump, an automatic self-priming centrifugal pump range capable of handling industrial sludges, oil, sewage, storm water, mine dewatering and other pumping needs. Upon closing of the acquisition, Godwin will become part of ITT's Water & Wastewater business.

ITT today sells Flygt and Grindex brand dewatering pumps, and rents from its fleet of more than 11 000 pumps, through its global sales and distribution network serving customers in more than 140 countries. ITT's Flygt pumps are the original submersible dewatering pumps, invented in 1948.

Source: ITT Corporation

BAKUBUILD 2010 TO TAKE PLACE IN A BRAND NEW EXHIBITION VENUE

BakuBuild 2010, the largest trade exhibition for the building and construction industries in the Caspian region, will take place in a brand new exhibition venue, Baku Expo Centre.

Situated near the airport, Baku Expo Centre is an international standard, purpose-built events venue, providing over 30 000 m² of exhibition space and including facilities for hosting conferences, meetings, seminars and presentations.

This year, the exhibition's organizers

HoseFinder Mobile App from Parker

HoseFinder, the new mobile app from Parker Hannifin Corporation now makes it fast and convenient to search for hydraulic hose products and information on the go. The application features an abbreviated S.T.A.M.P.* selection process, enabling the user to specify their preferred Size, Temperature and Pressure criteria.

Using the HoseFinder app helps customers quickly narrow down suitable hoses by choosing the criteria that meets their needs. Once they identify a product of interest, the Find It option allows customers to enter their postal code into the app to locate the nearest Parker distributor. They can also use the Send It feature to forward the product details along with a message to a friend or colleague.

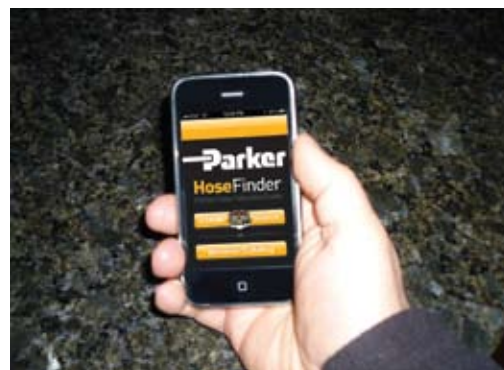
Parker's new HoseFinder app is available at no charge by visiting www.hosefinder.com and is compatible with Apple's iPhone® and RIM's BlackBerry® handsets. Versions for Android® and Windows Mobile will be announced soon.

The HoseFinder app further provides real-time access to the Hose Products Division catalog (Catalog 4400). This allows users to search Parker's hose, fitting, crimper and accessory offerings from anywhere at anytime as well as reference training videos and tutorials by selecting the "Technical" prompt in the browser menu.

A complete guide to S.T.A.M.P. is also available in Catalog 4400.

Source: Parker Hannifin Corporation

* S.T.A.M.P. is an industry acronym for Size, Temperature, Application, Media and Pressure.



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A green Manulift 85' forklift with various attachments, including a bucket, jib, and R.C. basket. The forklift is shown in a side profile, highlighting its long reach and articulation.

expect over 250 exhibiting companies, occupying two pavilions of the complex, as well as the outdoor area. 2010 will also see 3 new national groups from Italy, Portugal and Ukraine, alongside the returning groups from Germany, Finland, Iran and Lithuania.

Furthermore, for the first time, Aqua-Therm Baku, the International Exhibition for Heating, Ventilation, Air-Conditioning, Water Supply, Sanitary and Environmental Technology, will be held alongside BakuBuild. Over 50 companies from 12 countries, including Azerbaijan, Germany, Denmark, Iran, Italy and Switzerland, have already announced their participation at Aqua-Therm.

BakuBuild will take place from October 20 - 23, 2010, in Azerbaijan's capital, Baku.

Source: ITE Group Plc

RONA TO INVEST \$20 MILLION IN NEW ST. JOHN'S STORE

RONA Inc. has officially announced the start of construction of a new 6300 m² store on Torbay Road, just north of Stavanger Drive, in St. John's, Newfoundland and Labrador. The new RONA is centrally located to serve the growing needs of the region. The new store will have a total of 75 positions, 35 of which will be new jobs.

The Torbay Road store is the fourth major RONA project recently undertaken in Atlantic Canada. Aside from the June acquisition of the Pierceys chain of stores in Nova Scotia, the company also invested \$2.8 million in the O'Leary Avenue store in St. John's, while a second location in Bay Roberts was completely renovated in 2009, representing an investment of \$1.9 million. The renovated Bay Roberts RONA replaced two stores that no longer satisfied Company standards for adequately meeting customer expectations.

The new RONA store will be built following the LEED criteria for new buildings and is expected to receive LEED certification for construction.

Wood from certified forests and locally manufactured materials will be used for the construction. Bike racks, changing rooms and showers will be installed to encourage employees to cycle or walk to work.

Source: RONA Inc.

Kubota On Tour Vehicle Wins an Award

The Private Motor Truck Council of Canada teams with member companies to sponsor awards in several categories - Zurich/PMTC Private Fleet Safety Award, 3M/PMTC Vehicle Graphics Design Award and Huron Services Group/PMTC Driver Hall of Fame.

Thousands of entries were submitted for these awards and Kubota's Kubota On Tour vehicle, submitted by Toronto Digital Imaging, won the 3M/PMTC Vehicle Graphics Design award for Fleet Identity.

Seen accepting the award from left to right are: Dan Gorrill, product specialist, Kubota Canada Ltd; David Boye, Fleet sales, Toronto Digital Imaging; Rob Allison, regional sales manager Eastern Ontario, Kubota Canada Ltd; Ed Yamasaki - president, Kubota Canada Ltd; and John Gilliland, national marketing manager, Kubota Canada Ltd.

Source: Kubota Canada Ltd



Wedgelock Coupler Adds "Instant Safety" to Attachments

Norco Attachments is introducing North American equipment dealers, rental businesses and contractors to a world-renowned quick coupler system billed as the "the safest coupler on the planet."

Norco's Wedgelock Quick Coupler adds instant safety on the jobsite with its patented back-up locking system, known as the I-Lock™, that engages the front attachment pin without requiring a machine operator to activate the main locking mechanism.

Engaging with the front attachment pin automatically when the attachment is connected, the system also provides a built-in time-out that re-engages the I-Lock if the attachment is not removed in a timely manner after the coupler is unlocked to disconnect. The coupler is operated hydraulically and is known for its independent, initial and instant safety system.

The Wedgelock coupler's high strength construction increases its wearability and reduces weight, helping to maximize product performance and reliability. Its low profile design ensures optimum breakout force and power at the bucket tip. Pin center variations are accommodated automatically and lifting eyes are fitted as standard, ensuring safe lifting capability.

Wedgelock couplers are available for all popular excavator makes and models from 2,2 t mini-excavators up to 90 t mine shovels.

Source: Norco Attachments



Ten years of safer quarries celebrated at Hillhead 2010

Ten years of success in reducing death and injury in Great Britain's quarries were marked last month during a special address at the Hillhead 2010 quarry exhibition.

Reportable injuries in the sector are down 76% since the "Hard Target" initiative was launched in 2000, and Judith Hackitt, chair of the Health and Safety Executive (HSE), was present at the exhibition to commend companies, trade bodies and trade unions for their efforts.

Ms Hackitt also used her speech on the opening morning of the show to rally the industry in making a renewed commitment to "Target Zero", with the aim of bringing down reportable injuries by a further 15% year on year by 2015.

"The quarrying industry has demonstrated what can be achieved when an industry sector commits to improvement in health and safety. However, there is no room for complacency," she said.

"As the number of incidents decrease, it will get ever more challenging for the industry to make further gains. Reaching the new goals will require even more hard work, determination and the development of new approaches. The improvements made so far are down to strong leadership, with employers promoting a safety culture right across their organizations, bolstered by the efforts of the unions and trade associations. It is also about creating an environment that encourages sharing and learning," she added.

"The industry has made massive strides in health and safety over the last 10 years in particular. But to achieve its ultimate goal of zero harm, a stronger focus is needed on the more challenging issues and to convince all stakeholders that the supply chain has a vital role to play," commented Martin Isles, the Mineral Products Association's director of health and safety, and deputy president of the Institute of Quarrying.

A spokesperson for the GMB trade union added: "GMB strongly supports the work of everyone involved in the Target Zero campaign. The superb results achieved to date are testimony to the value of involving workers to develop joint solutions to the key issues that the quarrying industry faces. We look forward to embedding this good practice across the sector and driving further improvements in the future."

Hillhead is the United Kingdom's major construction event and the biggest working quarry show anywhere in the world. It is held every second year in June at Hillhead Quarry, near Buxton, Derbyshire.

Source: QMJ Publishing Ltd

RUD-Erlau at Hillhead



A Hillhead stalwart, over the years, RUD-Erlau has chosen this event to update the industry on the latest industrial chain technology.

Since 2007, significant advances have included the Terraplus, a superior traction chain that is winning large orders and aiding productivity in mines and quarries across the world.

Equipped with specially designed studs for extra bite, this lightweight, energy-saving chain keeps haul trucks moving across frozen ground in the Andes and the soft, clayey conditions typically found in coal mines.

RUD-Erlau is proud to have retained its crown by delivering two full sets of the R75S Plus, the world's largest tire protection chain. One set has been fitted to a CAT 994 working a large European limestone quarry and the other set is essential to a LeTourneau 1850 loading iron ore in the United States.

With 65% of the market, RUD tire protection and traction chains are also found on underground duty, in demolition and scrap handling operations and, the most challenging of all environments, steel making where they protect pot-handlers tires and loaders reprocessing fiery slag.

Tire protection chains have evolved from a niche accessory to an, almost universal, necessity, driving down tire costs and increasing productivity and profitability.

Source: RUD Chains Ltd

First Double-Clutch Transmission in a Truck

As with a fully automatic transmission it is a two-pedal system, there is an accelerator pedal, a brake pedal and a selector lever. The selector lever allows automatic or manual gearshift mode to be selected.

The M038S6 "Duonic" transmission has six forward gears and a reverse gear. The P-function ensures safe parking by preventing the vehicle from rolling away. "Duonic" features a non-wearing wet clutch, which lowers maintenance costs by eliminating the need to replace worn clutch discs. A creep function has been added to the wet clutch, as is usual for automatic transmission with a torque converter. This enables the vehicle's speed to be easily controlled when moving slowly – for example when maneuvering or in stop-and-go traffic – and hill-starts are also made easier.

Source: Daimler AG



Winter Maintenance Equipment Technologies Keep Operators Productive and Safe

Barry Truan, sales coordinator,
TrynEx International



A typical non-highway class salt spreader, made with polyethylene construction can reduce its empty weight by as much as 40% when compared with a similar carbon steel version. These reductions in equipment weight, when combined with the right truck configuration will improve weight distribution and GVWR capabilities, resulting in less trips to the yard to refill with salt, sand or brine.

Further innovations have been applied to mounting systems – including Ro-Ro's (Roll On-Roll Off), hook lifts and more – to make them more easily handled by fewer personnel.

Not only have these materials been used in the construction of the spreaders, they have also been applied to the construction of plows. The "Poly" blade has even begun to be seen on highway class equipment.

Articulating or telescoping blade extensions, sometimes referred to as "wings" (not to be confused with "wing plows") improve the ability to access tight spaces and reduce harness stresses in deep snow when articulating. An operator can clear wider passes on open ground, improving cycle times, then adjust the plow configuration remotely to work around parked vehicles, gateposts and

other obstructions.

Available in many places for more than 20 years, "trip edge" blades lower the impact force to the plow and eliminate potential damage to it and the truck when a



To a winter equipment operator, their equipment is like a second home. Fifteen-hour workdays are not uncommon, so having a comfortable, reliable vehicle is crucial. Equally as important is having equipment that allows the operator to spend the bulk of their time inside the warmth and safety of that vehicle.

Just as trucks, phones and computers have improved over the years, so too has snow and ice management equipment. Spreader and snowplow manufacturers have continually developed their product offerings to improve efficiency and reliability. Here is a look at some of those developments and how they are positively impacting contractor's day-to-day operations.

Perhaps the biggest advancement has been fabricating equipment that is lighter, yet more durable to reduce weight concerns. These significant weight reductions have been achieved through computer aided design and the use of non-traditional materials. Less weight from equipment equals reduced vehicle loading, improved performance and longevity.

Many manufacturers have employed polyethylene, a lightweight, yet durable material for major and minor components.

hazard (such as a surface utility or pothole) is encountered. The design essentially

comprises of spring-mounted cutting edges and sections with dampeners. The structural stress caused by striking a rigid object is transferred to motion within the plow, rather than shock transfer through the coupler and into the vehicle's frame. How many used 4x4s have you avoided buying, knowing they had been used for snow plowing?

Harness attachments have also been part of these developments and in many cases use a "skid-steer like" quick attach plate to speed up coupling/decoupling and enhance the vehicle road performance and looks.

For the typical owner/operator, the cab is the "command and control" hub for operations. That can make it a pretty hectic and cluttered place to spend 10+ hours in a day. This is only moderately less true for the typical operator. The equipment manufacturers have thought about that too.

The answer is both eloquent and simple: integrate an easy-to-use spreader and plow control system into the design of new equipment. This should improve reliability and will keep the operator in the

cab, warm, dry and most importantly safe.

Integrated speed sensing, GPS and data collection are all standard features on most top of the line spreaders. Managers can review application rates and plow operations, which improves billing and customer reporting. The operator is provided a simple display and as few controls as possible to permit them to function with less stress, more efficiently in an ergonomically enhanced environment.

For as much time as snow and ice maintenance contractors spend with their trucks, improvements to the equipment – no matter how small – should not go unnoticed. As the marketplace embraces these developments more efficient operations, improved equipment life cycles and happier more effective operators will result in better customer service and enhanced



profitability. And not a moment too soon, because when a work environment includes sub-zero temperatures, wind chills and fatigued drivers, every advantage is extremely valuable.

Gates Alternator Pulley Enhances Engine Efficiency

Gates Corporation recently announced the availability of Gates Alternator Decoupler Pulleys (ADP) for the Automotive Aftermarket that will allow technicians to repair vehicles equipped with these unique pulleys. Replacing the pulley eliminates the need to replace the entire alternator when just the pulley has failed. Substituting a Solid Pulley on an alternator that is originally equipped with an ADP will compromise the performance of the entire Accessory Belt Drive System (ABDS). Consequently, it's critically important that technicians identify and replace the proper pulley.

An ADP is much more technologically advanced than other pulleys because it features an internal spring and clutch system that absorbs engine vibration. The performance improvements and longevity benefits include longer life of all the ABDS components, smoother operation and improved engine efficiency.

Source: Gates Corporation



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Third Annual Vehicle Theft Awareness Month

Boomerang Tracking Inc. launched the third annual Vehicle Theft Awareness Month in July as an education initiative to bring the reality and consequences of construction equipment theft and valuable theft protection information to the public's attention. Equipment theft continues to be a major issue and can have an even bigger impact in a tough economy.

Last year, Boomerang commissioned a Rogers Research Group survey to demonstrate how pervasive and expensive the issue is for businesses in the construction industry. "While most business owners might turn a blind eye and think that theft happens to 'everyone else', construction equipment theft is not rare," commented Scott Nilson, Boomerang Tracking's general manager. "Almost half of respondents (46%) reported that they have experienced a theft on their job site. Even more concerning is that a third (31%) have experienced theft more than once and that 63% of stolen equipment was never seen

again."

According to the survey, only 8% of equipment owners had security alarms on all vehicles and a mere 6% had a silent tracking device hidden in the equipment.

The following are highlights of Boomerang Tracking's recent equipment recoveries:

- *Four Machines Stolen in 2 Days in the GTA* – The recovery began with a 2009 Ingersoll Rand which had been stolen from the client's job site in Toronto, Ontario, and recovered on a nearby street. The next day, thieves broke the perimeter fence of another client in North York and got away with 2 pieces of equipment – a 2001 Case 1840 and a 2006 Bobcat 334 – which were found at a construction site in Vaughan. Finally, a 2008 John Deere 410J and its trailer were stolen from a client's company lot located in Bolton and later recovered on a nearby street. A total recovery estimated at over \$180,000.

- *Four Recoveries for the Price of Two* –

The recovery of a stolen 2008 Bobcat 2200D and a 2004 Kubota L3400D which were stolen from a tree farm located in Langley, British Columbia, led local police authorities to the additional discovery of a stolen flat deck trailer and a mini bike. The tracking team located the signal of the recovery device which was pointing at a private property in Abbotsford. Local law enforcement were immediately advised and arrived shortly thereafter with a search warrant for the premises. The Kubota was discovered under a tarp and the Bobcat was inside a tent. A total recovery estimated at over \$30 000.

- *A thief chooses the wrong parking spot* – A client called Boomerang Security Central to report a theft after noticing that his 2006 Caterpillar 303.5 was missing from his jobsite located in the Quebec region. The thief also got away with a 1983 International truck, which was not equipped with a recovery device and was used to transport the Caterpillar machinery. The Boomerang



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recovery team was immediately dispatched and located the vehicle while it was being parked by the thief. The local police arrived shortly thereafter onto the scene to recover the stolen vehicles and arrest the thief. A total recovery estimated at over \$50 000.

CONSTRUCTION EQUIPMENT THEFT COSTS MONEY

These recoveries are only three examples of the real, tangible impact theft has on construction companies every day. Equipment owners need to take effective, proactive and timely measures to avoid the hassle, cost and downtime associated with it. Considering that insurance claims for equipment can take far longer than the 30-day standard for vehicles, until a theft claim is settled, a stolen piece of equipment generates absolutely no revenue for the business. These common situations can add up to significant expense to business owners, not to mention insurance premium hikes that usually affect an entire fleet.

"Every year millions of dollars in profits are lost due to opportunistic equipment

thieves. The construction industry deserves to know the best ways to protect themselves from becoming a victim of theft. Boomerang Tracking has over 15 years of experience in the field, and is committed



to raising awareness of the problem and to continuing to be a major part of the comprehensive solution against construction equipment theft which can happen everywhere," commented Mr Nilson.

FREE TOOLS TO LEARN MORE

As part of Vehicle Theft Awareness Month to educate the population about heavy equipment theft and highlight the

layered approach to vehicle protection, Boomerang Tracking has published the Keeping Track – Construction Edition booklet, a guide to protect construction equipment from theft. An electronic



version of the guide is available at www.BoomerangTracking.com/construction.

Real Results

To date, the Boomerang Tracking devices have aided in the recovery of nearly 7000 vehicles and other assets with an approximate value of \$350 million, including incidentals.

Source: Boomerang Tracking Inc.

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Extreme-temperature fluctuations. Harsh environments. Remote locations. Continuous operation. Demanding deadlines. Welcome to the life of debris clearing grinders, shredders and chippers found on construction sites, in natural disaster areas and on most land-clearing projects.

Essential to ensuring this equipment can work in these demanding environments is the hydraulic fluid. Failure caused by fluid breakdown can be expensive to fix and even costlier in terms of project delays.

Just ask Morbark, Inc., one of the world's leading manufacturers of recycling, forestry and sawmill equipment. Located in Winn, Michigan. Morbark employs 600 people and is easily recognizable on land-clearing projects by its bright orange grinders, chippers and shredders. The company's products range in size from hand-fed brush chippers to horizontal Wood Hogs that weigh up to 46 720 kg and hold 1325 l of hydraulic fluid.

"This equipment can be run all day long with reservoir temperatures reaching 66°C to 71°C," explains Craig Price, vice president, Operations, Morbark, who has been with the company for over 15 years. "It is shipped and operated all over the world in all types of conditions. Therefore, we need a fluid that allows fast start-ups in -34°C weather but is still viscous enough to protect the pumps and valves when ambient temperatures reach 35°C or higher."

In 1998, Morbark's jobber, Coyne Oil, undertook a hydraulic fluid review. They identified Petro-Canada's HYDREX XV all season hydraulic fluid as delivering the highest performance in the market and recommended it to Morbark for both factory fill and its own plant equipment requirements.

HYDREX XV all season hydraulic fluid is a premium performance, long life, anti-wear hydraulic fluid designed for year-round use in heavy duty hydraulic systems exposed to wide extremes of temperature. It allows hydraulic systems to start at ambient temperatures ranging from -40°C to as high as 75°C.

"Coyne brought Petro-Canada to the table for us," explains Craig Price. "They were the first to come up with a product that could really handle the extremes that

we were seeing in the field. We made them run tests for us, practical tests with some of our equipment, to make sure it would do what they said. Nobody met the specifications that they met. For instance, the viscosity index for HYDREX XV was higher than anything else we saw or have seen since."

Petro-Canada's HYDREX XV is formulated using the patented HT purity process to produce 99.9% pure, crystal-clear base oil. By removing the impurities that can hinder the performance of conventional oils, HYDREX XV retains its fresh oil properties longer. Then they blend specially selected next-generation additives to produce the final finished product.

One of the key benefits in switching to the new hydraulic fluid was a longer drain interval.

"We were getting double the reservoir life with this product," says Mr Price. "So our change out recommendations actually doubled. And we're still below what the manufacturer was telling us we could achieve."

The longer drain interval helped Morbark address contamination concerns. The less a reservoir is opened, the lower the chances of contamination entering the system. Reducing the number of change outs immediately reduces the number of times a reservoir is opened.

"Reducing the need for top ups also helps protect against contamination," he says. "We've had problems in the past where the hydraulic fluid couldn't take the heat. This would cause a machine's seals to heat up and result in leaks. Operators would add to the reservoir but contamination would occur. Pretty soon, they've got failure. With this product, we've seen a lot of contamination issues go away."

Petro-Canada's HYDREX XV outperformed the leading global competitor in

the critical ASTM D943 standard test for oxidation stability. The test shows that HYDREX XV lasts three times longer than the leading global competitor, which can translate into fewer change-outs and lower maintenance costs.

"This fluid not only allows a wide temperature range for start-ups, but it continually provides solid wear protection for our pumps and valves at higher operating temperatures," says Craig Price. "With its high oxidation resistance, it provides this protection longer, meaning less downtime for our customers."

In their own plant, changing brands also allowed Morbark to reap several benefits.

One of the most significant was that it allowed the company to consolidate its hydraulic fluid purchasing.

"I had to deal with the hydraulic fluid a lot," he says. "For example, we would put lighter weight fluid in a machine if we anticipated that it was going to be operated in both cold and hot temperatures. But if things changed and we had to ship to a location where temperatures were

always hot, we had to drain the fluid and replace it with thicker fluid. It was a lot of management. I always wanted to get to one product, which I was able to achieve with HYDREX XV.

Morbark was also able to increase drain intervals and reduce maintenance requirements while pushing its own equipment harder than before.

In today's competitive environment, even the smallest details can provide a company with a competitive edge. By choosing Petro-Canada's HYDREX XV all season hydraulic fluid, Morbark not only improved its own operations but improved those of its customers as well.

Source: Petro-Canada Lubricants Inc.



Superior Plating Gives Parker TFD Fittings Superior Protection Against Corrosion

Superior plating gives fittings from Parker Hannifin Corporation's Tube Fittings Division (TFD) unmatched protection against red rust. This helps customers avoid the many costs of corrosion - calculated not only in terms of possible leak points and replacement fittings, but also potential lost sales stemming from poor product perception. Parker TFD fittings are an integral component of any leak-free, well-functioning - and great-looking - hydraulic system.

Parker TFD fittings withstand the harshest operating environments, particularly those that promote the rapid onset of red rust. Red rust - the formation of iron oxide - signals oxidation and deterioration of the fitting base metal. This can degrade the fitting and compromise its performance. And although the presence of red rust does not necessitate that a fitting be replaced, it can quickly undermine a customer's confidence in the integrity of the system or machine it

is installed on.

In a recent salt spray test conducted by Miami Valley Materials Testing Center, an accredited independent test center, Parker TFD fittings remained free of red rust after 480 hours exposure. This result significantly exceeds both the current SAE requirement of 72 hours (and proposed new SAE requirement of 96 hours) salt spray with no red rust.

As illustrated in Table 1, Parker TFD fittings and fittings from five major competitors were exposed to neutral salt spray test ASTM B117. One of the competing fittings exhibited red rust upon reaching the current SAE requirement of 72 hours while two other fittings exhibited red rust upon reaching the 96 hours benchmark - thus falling short of the proposed new require-

TABLE 1 • INDEPENDENT SALT SPRAY TEST

	HOURS EXPOSED TO NEUTRAL SALT SPRAY TEST ASTM B117					
	0	72	96	120	240	480
PARKER						
COMPETITOR A						
COMPETITOR B						
COMPETITOR C						
COMPETITOR D						
COMPETITOR E						

Pictures and testing were completed by Miami Valley Materials Testing Center - an accredited independent test center.

ment. The two remaining competitor fittings showed red rust after 240 hours. It is possible that, in real-world application, replacement of some or all of these fittings would be necessary, with the exception of the Parker TFD fittings.

Source: Parker Hannifin

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New Doosan Loader to Fill Municipal Government Niche

The new DL220 articulated wheel loader from Doosan is ideally sized to fit the requirements of state, county and municipal governments. Applications include a wide range of material handling tasks, from loading and transporting sand and gravel, to snow and storm debris removal.

Built around a Tier 3 compliant, 148 hp Doosan DL06 diesel engine, the DL220 offers an operating weight of 12 340 kg and a bucket capacity of 2,2 m³. Dump height of 2,85 m and dump reach of 1,06 m make truck-loading easy.

Depending on the application, the operator can choose between standard and economy working modes for either maximum productivity or minimum fuel consumption. The full powershift transmission offers four forward and three reverse speed ranges with manual, automatic and semiautomatic (with "kick down" for first gear) modes. Transmission and engine operation can be easily diagnosed by connecting a laptop computer. Optional

front and rear axle limited slip differentials assure positive traction in wet or soft conditions.

The DL220's roomy cabin provides operators with outstanding visibility and low cabin sound levels. An optional load isolation system provides smoother travel with a loaded bucket.

Options include parallel (tool carrier) linkage, a single lever control for travel functions and front-mounted attachments

and a hydraulically driven, variable-speed engine fan featuring an electronic thermostat that constantly monitors engine coolant and transmission oil temperatures.

With the new DL220, the Doosan range of articulated wheel loaders now includes 10 models with bucket capacities from 1,5 to 5,2 m³.

Source: Doosan Infracore Construction Equipment



Waterproof Winter Plus™ Gloves Offer Supreme Protection Against Extreme Cold Weather Environments

Youngstown Glove Company® has brought together its hallmark of durability and safety with comfort and flexibility to produce its all purpose Youngstown Waterproof Winter Plus™ Gloves that excel in cold weather environments — providing extra weather protection blocking out wind, water and cold. A soft and comfortable fit is combined with application-tested durability to offer enough dexterity for all kinds of winter work activities.

Whether you are cutting wood or ice fishing, the company's designers understand hands need to be comfortable for long and arduous winter activities. With this in mind, the all-purpose, Youngstown Waterproof Winter Plus Gloves are built with cutting-edge insulation and thermal technology starting with a soft micro-fleece liner which insulates and warms hands. A waterproof, windproof and breathable inner membrane

is then layered on top to keep hands and fingers both warm and dry. The gloves are finished with a durable and form-fitting outer shell which provides maximum protection all with surprising dexterity.

Form and function went hand-in-hand when crafting the lightweight, comfortable and tough Youngstown Waterproof Winter Plus Gloves which also feature a terry cloth thumb for wiping sweat and debris. Using only top-quality materials, the palms of the Youngstown Waterproof Winter Plus have flexible non-slip reinforcement grips that enable a better grasp in both wet and dry environments. Synthetic suede palms provide oil and water resistance and the grips also serve to increase the gloves overall durability. Double-stitched bonded Nylon thread make the gloves even tougher all while extending longevity.



These gloves include some of the best field-proven features. Internal knuckle protection is built into the top of the gloves as well as padded protection to ward off nicks and scrapes. A supportive Neoprene® cuff has an adjustable Velcro® closure for locking out cold and wetness.

Source: Youngstown Glove Company

Snow Is No Match for REIST Snow Equipment

With more than 10 different pieces and a multitude of options to choose from, REIST Industries has a product to help you stand up against old man winter.

REIST starts off by offering 3 different models of PTO driven, dual or triple auger snow blowers in 2,7 m and 3 m widths, all built with heavy continuous use in mind. Drawing from their vast experience, REIST has built in durability features that you cannot see at first, but open the enclosed auger drive case and the attention to detail becomes apparent. Take for instance the REIST manufactured gearbox, designed for the snow blower application not adapted to it. See the chain sprockets with the de-icing grooves machined in? Couple that with the self-adjusting chain tensioning device and you start to appreciate why the REIST Snow Blower line is known for their reliability in heavy use.

Living up to their motto of "Innovation working for you", the REIST 8000 Series, Triple Auger Snow Blower, has three

discharge options. Through a unique rotating fan housing design, the operator can select to discharge through the chute or by-pass the chute and discharge directly from the fan housing to either side. As it requires less horsepower to blow out of the side discharge than through the chute, this REIST innovation will reduce your fuel costs! An ideal solution in locations where the precise placement of the discharged snow is not a requirement, such as in country roads, shows that REIST really does work for you.

You do not have a large tractor? REIST also manufactures 3 models of single auger snow throwers ideal for mounting

on skid steers or on smaller tractors. REIST Snow Throwers are designed and built with the same attention to detail as the larger Snow Blowers. With many options



available right from the factory, REIST is able to make sure you have the right features to handle the cold and the snow.

Realizing that it sometimes is preferable to push snow away, REIST offers a line of angling blades and snow pushers various mounting options including bucket or skid steer brackets. Ruggedly built, the 6 models of snow pushers ensure that a size is available to match your equipment. Each blade and pusher can be equipped with the innovative three sided REIST ROTO-TRIP edge that minimizes shock loads and damage from most hidden obstacles, while allowing the operator to use a low running height for one-pass clearing.

REIST manufactures 2 models of durable all-season broadcast spreaders for grass seed, top soil, fertilizer, sand & salt in 0,38 m³ and 1,15 m³ hopper capacities. When mounted to a loader, an innovative design feature common to both models is that they can self-load, saving time and money. To match to existing equipment, both spreaders are available with a 3 Point Hitch and can be equipped with the optional hydraulic self-load feature.

Source: REIST Industries Inc.

Case 250 000th Skid Steer

Case Construction Equipment today celebrated production of its 250 000th skid steer loader. Case has been among the world's leading skid steer manufacturers since launching its skid steer line in 1969.

A special ceremony was held at the company's global skid steer manufacturing facility in Wichita, Kansas, where Case presented the 250 000th skid steer to its new owner, Dino Folino of A. Folino Construction, a paving contractor from Oakmont, Pennsylvania. The milestone unit – a Case 430 Series 3 model – is Folino's fourth Case skid steer in a fleet of equipment that includes a total of nine Case machines.

Case began producing skid steers in 1969 with the 1530 Uni-Loader model, and has been innovating ever since with Case-exclusive features like Ride Control and side lighting.

The Case 400 Series 3 skid steer loader line includes eight models, ranging from 57 to 83 net hp (42 to 62 kW) and 1,500 to 3,000 lb (680 to 1361 kg) rated operating loads. Case skid steers offer superior power, operator comfort and serviceability.

Source: Case Construction Equipment



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Continental's HDW2 SCANDINAVIA Snow Tire

Optimum grip and great traction on winter roads are just two advantages of Continental's new HDW2® SCANDINAVIA truck tire. Snow, ice, dry and wet conditions – the severe winter of 2009 has shown that the quality of truck tires plays an important role in the safety of fleet operations. For drivers in Canada who routinely experience some of the most extreme winter driving conditions on our planet, the new Continental HDW2® SCANDINAVIA was being unveiled for a “sneak peek” at Truck World, last April.

Designed with 20-ply construction to handle heavy loads, the newly designed HDW2 SCANDINAVIA is a heavy long-haul tire for the drive axle. This tire position is particularly challenging in winter opera-

tions, as it has to simultaneously offer steady drive power transmission, directional control in corners and transfer of the complete effort from the brakes or truck retarder. The HDW2 SCANDINAVIA meets these demands with top marks.

Every aspect of the tire's tread has been specially engineered to provide greater traction and optimum grip, even on a compacted layer of snow and extreme conditions. Special tread geometry with numerous, three-dimensional lateral sipes

on the single-direction pattern provide more gripping edges on the road surface than a traditional drive tire. These sipes also support the tread blocks against forces from the drive train, retarder and wheel brake system to achieve the best possible traction and braking force transfer. The HDW2 SCANDINAVIA's particularly dense tread geometry and a new tread compound



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Front view of assembly and wearing edge



Side view of wearing edge and rubber housing



Front view of one wearing edge removed

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with micro-meshing effect also help to provide optimum handling. The handling of the HDW2 SCANDINAVIA has proven itself in Continental tests, where it achieved up to 10% more grip on snow-covered roads than the previous generation HDW winter tire.

The HDW2 SCANDINAVIA's tread is not only ideal for winter, but a two-phase pattern developed by Continental allows the tread to wear down to a positive proportion for summer. The tread is optimized for low rolling resistance for better fuel economy.

The new Continental HDW2 SCANDINAVIA reaches the market this fall in size 315/80R22.5.

Source: Continental Tire the Americas, LLC



Cat® snow blowers for compact machines feature a two-stage design with a hydraulically-driven auger and impeller to move more snow quickly and efficiently. The exclusive in-line impeller design balances power and torque to maximize capacity and throwing distance while minimizing plugging.

Hydraulic controls allow the operator to easily adjust the snow blower auger, impeller, chute and deflector from the operator station. The reversible auger and impeller allow the operator to expel obstructions from the blower without leaving the seat.

The coupler interface is matched to the machine quick coupler system for fast, secure work tool changes. Hydraulic hose routing, hose length and quick disconnects have been optimized to ensure proper routing and fit-up. Operation is easy with dual joystick controls.

Source: Caterpillar Inc.

Paladin's FFC Snow Blower Moves Snow up to 15 m

The FFC Snow Blower by Paladin Construction Group turns a skid steer into a mini snow plowing machine

for small to medium snow removal jobs. This two-stage hydraulic blower is available in both standard and high-flow models that range between four and eight feet wide, with shroud openings of 63 or 91 cm. The large 45 cm auger cuts as deep as 91 cm into snow and drifts and then throws it up to 15 m feet away from your clearing surface.

Choose from an electronic or electro/hydraulic powered, poly-lined chute and deflector that reduces clogging and makes direction adjustments quickly. High-flow models never require a case drain. To ensure a cleaner and safer surface, FFC Snow Blowers have replaceable, wear-resistant hardened edges that can be easily changed when they become dull.

All snow blowers provide excellent visibility and include adjustable skid shoes, as well as a one-year warranty on the structure and 6-month warranty on the hydraulics.

Source: Paladin Construction Group



New, Premium, Pet-Friendly Ice Melter

North American Salt Company (NASC), a subsidiary of Compass Mineral, recently announced the addition of a new, premium, pet-friendly product to its Safe Step® family of ice melters.

Sure Paws™, an all-natural, fast-acting ice melter, does not irritate pets' paws but melts ice down to -26°C.

"Pets are an important part of families, so this extremely efficient product will keep residential driveways and walkways safe but is easy on pets' paws and skin," said Jerry Bucan, vice president and general manager of NASC's consumer and industrial business.

The ice melter was specifically created to offer consumers a pet-friendly option, developed with a patent-pending formula containing 100% organic ingredients, and contains no salt or chemicals. When used as directed, Sure Paws is also gentle on concrete and vegetation. It is available in 3,6 kg jugs and 9 kg bags.

Based in the Kansas City metropolitan area, Compass Minerals is a leading producer of minerals, including salt, sulfate of potash specialty fertilizer and magnesium chloride. The company provides highway deicing salt to customers in North America and the United Kingdom and specialty fertilizer to growers worldwide. Compass Minerals also produces consumer deicing and water conditioning products, ingredients used in consumer and commercial foods, and other mineral-based products for consumer, agricultural and industrial applications. Compass Minerals also provides records management services to businesses throughout the United Kingdom.

Source: Compass Minerals



Volvo Produces Ice Screen for Stockholm International Film Festival

*Elizabeth Tilley
Special Collaboration*



Photo: Big Ben © Icehotel

A cinema screen, made from ice harvested by Volvo machines, was featured for the first time at the Stockholm International Film Festival.

It is not often that Volvo Construction Equipment gets the glamorous jobs, but installing a giant movie screen made entirely of ice for A-listers and film stars to watch comes pretty close. Volvo wheel loaders have been used to harvest the ice for the construction of the screen, which was installed in Stockholm for the Nordic capital's 20th film festival.

Weighing around 10 t, the screen was crafted from ultra-clear ice harvested in slabs from the frozen Torne river in northernmost Sweden, near the Arctic circle. The ice for the screen was carved from the river in March, when the temperature was -24°C. This was the first time a feature film was shown on an ice screen.

The screen was created by a team from Sweden's famous Ice Hotel. Given the complexity of the project, the Ice Hotel's subcontractor called on the expertise of Volvo Construction Equipment. An L70 and an L50 were used to harvest the ice for the 5 m wide and 3 m high screen, which was set up in central Stockholm. A Volvo wheel loader was also used to hoist the screen on

to a podium on November 20th for outdoor film buffs to watch two special anniversary feature films. The screen was then pulled down after two days of film screenings – before the ice started to melt.

Ice Hotel creative director Arne Bergh said about 5000 t of ice was harvested to create the screen and to build this year's Ice Hotel. "The harvesting involves attaching a large chainsaw with a hydraulic engine to the tractors so that they can carve the ice," says Arne Bergh. "Then the tractors drive the ice to our storage facility on the shore of the Torne River, which is kept at a constant temperature of -5°C. Our subcontractor chose Volvo machines

because they can be trusted to do a job like this well."

The Stockholm International Film Festival, which took place from November 18 to 29, 2009, has a precedent for quirky innovations... In 2000, it was the first to launch an internet festival and in 2007, it set up an online forum where directors and the audience could work together on films. The festival is held every year in November, with screenings of more than 170 films from more than 40 countries. Celebrity guests have included Dennis Hopper, Ang Lee, Lauren Bacall, and Terry Gilliam.

The next edition of the festival will take place from November 17 to 28, 2010.

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Leica' Viva System Delivers Outstanding Performance in Harsh Winter Survey of Cumberland Trail Expansion

Last winter, Leica Geosystems' Viva GNSS receivers and integrated surveying system played key roles in a boundary survey that added a lengthy section to Tennessee's nearly-finished Cumberland Trail. Working in extremely harsh winter conditions-during the 11 weeks of the survey, average daytime temperatures were below freezing, and surveyors endured more than 1,5 m of snow and rain-the RLS Group, based in Chattanooga, was able to survey 30,5 km of trail corridor. The survey was completed on schedule, with no equipment breakdowns.

The project was done in winter to take advantage of reduced foliage and snake hibernation. Because the descriptions of underlying parcels called to ridgelines and other natural features, surveyors knew they would be working in areas with minimal sight lines and that good GNSS equipment was required. "With all the one-to-one slopes out here, and the snow cover

and the brush, traversing with total stations would have been ridiculous," says RLS president Shane Loyd, PLS, "Fortunately, the Viva GNSS system really came through for us. We put it to the test and we were quite impressed by the reliability, accuracy and durability of the equipment."

Since part of the job was to create and mark the corridor on the fly, crews used the Viva controllers and cellular links to upload data to an FTP site at the end of workdays. RLS office technicians downloaded the data and calculated alignments, then uploaded alignments to direct the next day's staking. "We could have done the calcs in the field," says Mr Loyd, "but that would really have cut into the time available for survey work and camping chores. The cellular links and Viva's intuitive dataflow management

worked very well for us and made life a lot easier."

The Cumberland Trail will eventually total more than 500 km of wilderness trail, and stretch from Cumberland Gap National Park to Chattanooga. Leica Geosystems is proud to be part of this historically important project, and that the Viva system came through for surveyors in extremely challenging conditions.

Source: Leica Geosystems Inc.



Bobcat Utility Vehicles Offer Improved Performance and Productivity

From inspecting fence on a farm or acreage to hauling tools and people around a construction site, efficiency is key to a productive job. The all-new line of Bobcat® utility vehicles is designed to deliver the power and performance needed to handle any job-related task with ease.

Every aspect of the new Bobcat utility vehicles has been designed to help customers get more work done in less time. Increased power, speed, payload capacity and uptime are all key features built into the all-new design. And like all Bobcat compact equipment, the utility vehicles are versatile jobsite machines that can reach areas where larger equipment cannot fit.

Several improvements have been made to the new Bobcat utility vehicles, including performance enhancements such as more responsive acceleration, better payload capacities and increased horsepower and top speeds, and electronic fuel-injected gas 4x4 models that start easier and run more reliably in higher altitudes.

Increased payloads, acceleration and top

speeds are the direct result of the new horsepower ratings in both gas and diesel engines.

Operators can easily flip a switch to select from one-wheel (Turf Mode), two-wheel or four-wheel drive on the Bobcat 4x4 models to best match the driving conditions. When the front wheels are engaged in the 4x4 mode, all four wheels receive torque for maximum traction.

Operators and passengers will ride in comfort as the four-wheel independent suspension provides a smooth ride and improves the Bobcat utility vehicle's agility over rough terrain. Other comfort features include lower sound levels, two-passenger bucket seating (dealer-installed bench seat also available) and a dealer-installed cab and heat for working in cold or windy climates. With ease-of-use and superior



comfort, operators will be able to get more work done quickly – whether they are monitoring livestock or clearing snow.

To meet jobsite needs, the 3450 can use up to five front-mounted attachments with the exclusive RapidLink™ attachment mounting system. Choose from a bucket, pallet fork, mower, snow blade or Whisker push broom to do anything from clearing sidewalks of snow and debris to moving dirt or palletized materials. Maximum lift height is 61 cm and rated operating capacity is 225 kg.

Source: Bobcat

A New Sight to See in Picturesque PEI

Confederation Square, Green Gables, potatoes and rolling lush landscape are what you likely think of when asked about

The province is blessed with scenery and renowned for its agriculture thanks to that red soil and blue sea. To get the



non, "We pay a premium for our roads because of our geographic challenges. That means we must maximize the life

cycle costs, so we have always tried to be proactive about maintenance. That has meant, amongst other things, having an active cracksealing program in place as a first line of response."

According to all the available data, cracksealing will extend life expectancy by 20% or more at 1/6th the cost of resurfacing or

Canada's smallest province.

It is unlikely that you typically stop to consider the requirements of providing the infrastructure for an entire province, on an island. It is a pretty tall order, and when availability of resources and economies of scale are considered it becomes mind boggling!

sight seers and the harvests' bounty to and fro requires good roads and highways. When you consider that liquid asphalt, aggregate and other materials must be shipped in, then you can understand why the highways' department takes pavement maintenance so seriously.

According to the province's Rob McKin-

similar methods. Alain Cormier P.Eng., of McAsphalt explains, "Cracking begins the moment a pavement starts to cool or cure. These microscopic stresses grow when UV radiation and dynamic traffic stresses are applied. Weather patterns, freeze/thaw and base stability further compound the problem. Once an opening is created



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incompressibles like salt or stone further irritate the wound and moisture begins to infiltrate the pavement structure. Left unchecked this process multiplies to create crazing, potholes, edge fragmentation and other deterioration. That is costly to



correct. Sealing and filling candidate cracks

early-on is the most effective and affordable action that crews can take."

PEI, as part of an ongoing program has recently invested in a new Cimline Magma 230 DHR to improve productivity. With a 30 GPM material pump and a heat-up



time under 45 minutes, crews will be able

to get more hours "on the job" pumping hot rubber. By moving up to a pump unit with a heated hose not only has productivity improved, reliability and safety are also enhanced. "In choosing the Cimline unit the crew has been relieved of the

tedium of carrying cones of molten hot rubber around a busy roadway," says John Maclean of Sancton Equipment. "It is less about speed and more about accuracy and safety with this machine. Thermostatic controls ensure the material is maintained within manufacturers specifications. The fast start-up and ability to heat in-transit are where

the improved efficiency is most readily demonstrated"...he adds.

So the next time you have the pleasure of driving PEI's scenic thoroughfares, remember how much effort goes into keeping them smooth and safe.

Source: Sancton Equipment

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Suburban Chicago Conversation Group Gets Tips on Keeping Surface Water Clean

If you want clean streams, you need clean streets. That is the message Brian Giles, sweeper product manager for Elgin Sweeper, shared with the municipal officials and consulting engineers who comprise the DuPage River Salt Creek Workgroup of The Conservation Foundation. The Chicago-area organization focuses on helping local governments understand and apply best practices in environmental stewardship.

Mr Giles made the connection between street pollution and surface water pollution in his June 30 presentation to the workgroup in a meeting held at city hall in Elmhurst, Illinois, a Chicago suburb. He is a frequent speaker on environmental protection topics to public and private conservation groups.

During the presentation, Brian Giles described a variety of street surface pollutants that enter the sewers and, eventually, the waterways, paying particular attention to silt as a menace to clean streams. He said silt is inorganic matter less than 80 µ

in diameter that tends to remain suspended in solution and is difficult to remove from surface water.

"Eighty percent of silt, or debris that could become silt, is located within several feet of the gutter," Mr Giles noted. "It may be hard to believe, but the average street has about 285 kg of debris per kilometer. The key to preventing surface water pollution is to keep that debris from entering the storm sewers."

Brian Giles cited data on the effectiveness of various sweeping technologies in removing silt from the streets, ranging from a low of 81% using standard wet dust-control mechanical sweepers, to a high of 98% using high efficiency regeneration sweeper technology.

"Sweeping is a classic pollution prevention technique," he explained. "It removes pollutants before they enter the sewers and streams. Catch basin cleaning can be an important – although expensive – part of an overall strategy to keep sewers free of debris and silt. An effective sweeping



program can help minimize that expense."

Brian Giles advised municipal officials to become familiar with the science and technology of street sweeping, including the importance of frequent sweeping.

"As an industry, we have to help local governments understand that street sweeping can be an effective water-pollution prevention strategy," Mr Giles emphasized. "It's more than just making the streets look pretty."

Source: Federal Signal Corporation

Subaru Introduces Versatile, Efficient All-Season Engine

Subaru's All-Season Engine combines the powerful benefits of overhead cam (OHC) technology from its EX Series engines with special cold-weather features of the SX Snow Series line to create a multi-seasonal solution for a variety of outdoor equipment.

Initially developed as a year round power solution for rotary brooms, Subaru's All-Season Engine does not require any adjustments to accommodate varying weather conditions. The 9 hp unit is designed to operate in temperatures ranging from -29°C up to 60°C, making it ideal for additional types of multi-season equipment including log splitters, chippers and shredders, and lawn and turf seeders.

The All-Season engine features chain-driven OHC technology, a standard for high-performance automotive engines. The technology allows the intake and exhaust valves to be positioned for optimum engine performance, and offers lower resistance for the air/fuel mixture flow.

Designed with a highly efficient pent-roof-type combustion chamber, the All-Season Engine is able to utilize a high compression ratio, producing higher power and torque while limiting exhaust emissions and fuel consumption.

To have the ability to function in a variety of temperatures and weather conditions, an engine must provide the proper balance of cooling and heating. The All-Season Engine achieves this thanks to the inclusion of several extreme weather features. To combat excessive heat in warmer temperatures, the engine is designed with patent-pending technology and other special features to provide outstanding cooling. To utilize every possible cooling area, special heat dissipation fins have been built into the mounting base, cylinder and both the inner and outer crankcase surfaces. The OHC technology allows for 360° airflow around both the exhaust and intake valve stem areas to provide additional cooling action.

An anti-icing baffle is included to ensure superior operation in cooler temperatures and humid conditions. This feature redirects heat from the cylinder head back to the carburetor to keep it warm and prevent problems commonly associated with cold-weather operation. Humid environments can result in moisture build up and potential freezing in the engine. The anti-icing baffle also directs heat into the air cleaner system, eliminating potential ice build-up and airflow restriction in the nearby venturi area. Additionally, the transfer of warm air to the carburetor helps to maintain engine temperature, keeping the engine warm for easy starting on the first pull – every time.

Easy, one-pull starting is further encouraged with the inclusion of an automatic decompression system and specially designed recoil housing. The automatic decompression system reduces the required recoil pulling force by 30% to 40% when compared with competitive models. With fewer moving parts and an optimized-

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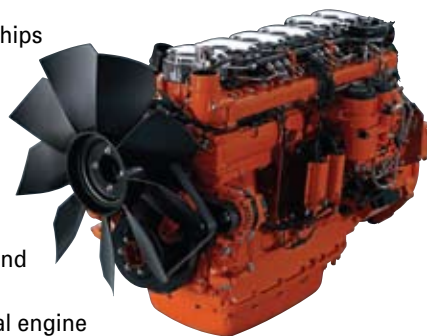
Rocky Mountain Dealerships Will Distribute Scania Industrial Engines

Rocky Mountain Dealerships Inc. announced recently a new distribution agreement with Scania U.S.A. Inc., for exclusive distribution of Scania industrial engines in Alberta, Saskatchewan, Manitoba and the Northwest Territories.

Scania is a leading global engine supplier and has over a century-long proven record of quality, dependability, and cutting-edge technological development. Scania has reaffirmed its leading position among engine manufacturers with a new engine range that will be available well ahead of the European Union and United States emission legislation for 2011.

Rocky Mountain is currently the distributor of equipment for the Terex Corporation ("Terex") brand in Alberta and the Northwest Territories. Terex, a leading construction and industrial equipment manufacturer has signed a long-term agreement whereby Scania will supply engines for some vehicles and other heavy equipment manufactured and sold by Terex.

Source: Rocky Mountain Inc.





To avoid common problems associated with battery-starters in cold weather, the All-Season Engine is available with an optional 120 V starter system. It meets EPA and CARB emission regulations, and is backed by an industry-leading 3-year limited warranty.

Subaru Industrial Engines are manufactured by Fuji Heavy Industries Ltd., Japan. Fuji Heavy Industries is a diversified manufacturer of Subaru automobiles, aircraft, ecotechnologies and industrial engines and equipment. Subaru engines are marketed and supported in North America by Robin America, Inc., a subsidiary of Fuji Heavy Industries.

Source: Robin America, Inc.

capacity rigid muffler, the All-Season Engine operates a full 2dBA (decibel level) quieter than other same-class engines.

For further protection in cold-weather environments, the All-Season Engine includes anti-icing guards. These strategically-placed guards prevent snow and ice from entering the engine and freezing up, causing damage to the governor system, vital controls and linkages.

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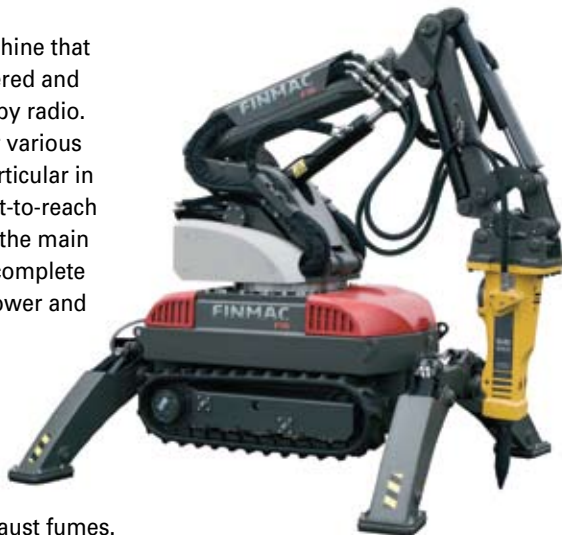
Finmac represented by Stanley in North America

Stanley Works of the United States and Finmac Demolition Oy of Finland have made a distribution agreement whereby Stanley represents Finmac demolition robots in the United States and Canada.

The distributorship covers the F16 and the F18R robots manufactured by Finmac.

The F16 is a machine that is electrically-powered and remote-controlled by radio.

It is designed for various demolition jobs particular in narrow and difficult-to-reach conditions. One of the main advantages is the complete separation of the lower and upper carriages, which enables a continuous 360° rotation. Another advantage is the electrical power resulting in no exhaust fumes.



The F18R is a larger refractory machine and designed particularly to work in hot conditions when cleaning kilns and furnaces in process industry plants.

Finmac has a global dealer network that is currently being expanded considerably.

Source: Finmac Demolition Oy

Rocky Mountain Dealerships Announces Distribution Agreement with Doosan

Rocky Mountain Dealerships Inc. announced recently a new distribution agreement with Doosan Infrastructure Construction Equipment America for exclusive distribution of Doosan in Edmonton, Alberta, through its Hammer Equipment Ltd. location.

Doosan is an industry leader in the engineering, manufacturing, and marketing of heavy construction equipment and in various other construction sectors. Their vision is to be a global top 3 leader in the construction equipment industry through becoming primary partners with their dealers and customers. They offer innovative products that provide value to the customer and an unequalled ownership experience.

Commenting on the new distribution agreement, Matt Campbell, chairman and CEO of Rocky Mountain said, "We are pleased to partner with Doosan to distribute their product in Edmonton. Together, Doosan, Rocky Mountain and our customers will benefit from this partnership. We will offer both the Doosan excavators and wheel loaders which will help round out our product offering in Hammer."

Rocky Mountain has a total of 26 dealership branches throughout Alberta, Saskatchewan and Manitoba.

Source: Rocky Mountain Dealerships Inc.

Appointments

Federal Signal Environmental Solutions Group has appointed **Sam Miceli** as vice president and general manager for its Guzzler Manufacturing and Vector Manufacturing subsidiaries, effective immediately. In this role, Mr Miceli is primarily responsible for overseeing and cultivating the business strategies and growth initiatives for both companies. He will report directly to Mark Weber, president of Federal Signal Environmental Solutions Group.



The Guzzler and Vector product lines share technology, manufacturing efficiencies and new product development. Guzzler Manufacturing is the world's leader in industrial vacuum loaders that efficiently clean up industrial waste or recover and recycle valuable raw materials. Guzzler vacuum loaders have a proven record of superior performance in a variety of industries, including cement plants, steel mills, railroads, oil refineries, chemical plants, foundries and power-generating stations. More than 10 000 Vector units have been sold worldwide.

Source: Federal Signal Corporation

Eaton Corporation is proud to announce that **Joao Faria** has been named regional president – Americas for the Hydraulics Group, effective July 1, 2010.

Mr Faria will report to Bill VanArsdale, president of the Hydraulics Group and will be located in Eden Prairie, Minnesota. He succeeds Scott Krueger, who was recently named vice president – Manufacturing Operations for the global hydraulics business.

Eaton's Hydraulics Group is a segment of the company's Industrial Sector. Eaton's Hydraulics Group provides customer-driven solutions under product names such as Aeroquip®, Boston®, Char-Lynn®, Eaton®, Hydro-Line®, Synflex®, Vickers®, Walterscheid™, and Weatherhead®.

Source: Eaton Corporation



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Ammann Walk-Behind Plate Compactors "Walk the Talk" for Safety and Simplicity

Even ambitious do-it-yourselfers can take on big compaction projects worry-free with safe-conscious heavy-duty walk-behind plate compactors from Ammann.

The new AVP 3920, 4920 and 5920 models in Ammann's line-up of reversible plate compactors have been designed for easy handling and simple operation. Exceptional maneuverability and fast traction and climbing ability give operators a new level of control to achieve ideal compaction results easily.

This series ranges in size from 425 kg to 264 kg, powered by gasoline engines from 8,6 hp to 11,1 hp with heavy-duty units achieving compaction from 50 cm to 70 cm.

Ammann's operator-friendly guide handle folds up for easy transport while the full-coverage protective housing flips up and out of the way for easy service access. The robust centrifugal clutch and wear-resistant V-belt ensure long service

cycles to minimize shop time and assure reliability on the job.

All models for ease of operation include design features for easy and agronomical handling, and provide maximum versatility with infinitely variable hydraulic forward and reverse motion together with the possibility of effortless "on the spot" vibration.

Founded in 1869, Ammann is recognized as a leading equipment brand internationally with 1600 employees and a broad range of equipment for road construction, earthmoving and mineral processing. In Canada, Ammann specializes in a full line of compac-

tion machines including plate compactors, vibrating rollers featuring the ACE compaction control system, double drum asphalt



machines and 30 t rubber-tired rollers and is represented by a growing network of dealers committed to customer service and support.

Source: Ammann Canada

A large red and white Garlock RAM Hot Rubberized Asphalt Melter machine is shown on a green background. The machine is mounted on a trailer with two large wheels. It has a red fuel tank and a white burner chamber. The text "HOT 3257" and "GARLOCK" are visible on the side. The machine is designed for melting asphalt and rubberized materials.

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Agenda

Argentina Mining 2010

August 31 - September 2, 2010
 San Juan, Argentina

2nd APOM Technical Day

September 10, 2010
 Drummondville, QC Canada

IFAT ENTSORGA 2010

September 13 - 17, 2010
 Munich, Germany



Solar Power Expo+

September 21 - 23, 2010
 Zaragoza, Spain

IAA Nutzfahrzeuge - Commercial Vehicles

September 23 - 30, 2010
 Hannover, Germany

SCC2010 Montreal - Symposium on Self-Compacting Concrete

September 26 - 29, 2010
 Montreal, QC Canada

WaterSmart Innovations Conference and Exposition

October 6 - 8, 2010
 Las Vegas, NV USA

EXPO 2010 - Window to the World

October 19 - 20, 2010
 Toronto, ON Canada

BakuBuild 2010

October 20 - 23, 2010
 Baku, Azerbaijan

INTERROUTE&VILLE

October 26 - 28, 2010
 Metz, France

INFRAASSETS2010 - Exhibition on Infrastructure Asset Management

November 9 - 11, 2010
 Kuala Lumpur, Malaysia

INFRA 2010 Congress

November 15 - 17, 2010
 Montreal, QC Canada

bauma China 2010

November 23 - 26, 2010
 Shanghai, China



Power-Gen International

December 14 - 16, 2010
 Orlando, FL USA

CONGRESS 2011

January 11 - 13, 2011
 Toronto, ON Canada

World of Concrete 2011

January 17 - 21, 2011
 Las Vegas, NV USA

GEOHERMA France - Expo & Congress for Geothermal Professionals

January 20 - 21, 2011
 Paris, France

bC India International Trade Fair

February 8 - 11, 2011
 Mumbai, India

The Rental Show

February 27 - March 2, 2011
 Las Vegas, NV USA

National Heavy Equipment Show

March 3 - 4, 2011
 Toronto, ON Canada



CONEXPO-CON/AGG & IFPE

March 22 - 26, 2011
 Las Vegas, NV USA



The Brazil Road Expo

April 4 - 6, 2011
 Sao Paulo, Brazil

SMOPYC 2011

April 5 - 9, 2011
 Zaragoza, Spain



ICUEE - The International Construction & Utility Exposition

October 4 - 6, 2011
 Louisville, KY USA



DEMO International® 2012

September 20 - 22, 2012
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Bauma 2013

April 15 - 21, 2013
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