CONSTRUCTION + PUBLIC WORKS • NATURAL RESOURCES

Volume 18 • Number 2 • Rebruery 2011 • Audit

Put the Larue advantage to work for you



The Professionals Choice For Specialized Equipment



High capacity LARUE detachable loadermounted, 300 HP or 350 HP, telescopic loading chute.



LARUE T60 self-propelled, hydrostatic drive, Cat 375 HP engine, ribbin or dual auger configuration, available with the Larue A.R.S. (automatic rear steering) and telescopic chute.



LARUE T85 dual engines: carrier 300 to 475 HP, blower head 665 to 1200 HP, 5,000 to 10,000 tone/hour capacity, all wheel drive, available with the Larue A.R.S. (automatic rear steering).



LARUE 7050 single engine 550 HP, hydrostatic drive, 4,000 tons/hour capacity, available with the Larue A.R.S. (automátic rear steering).



LeeBoy 8515B Paver increase productivity and reduce operating costs with LeeBoy's 8515B Conveyor Asphalt Paver. The 8515B incorporates big paver features into a heavy-duty, maneuverable package designed for production and reliability.





LeeBoy 8816B 25,000 lbs class 8' to 16' paver Cummins 130 HP engine, Legend™ screed system with 10% slope on extensions, variable speed 14' cast segmented augers, patented under auger cut-offs.



Distributor of Distributor of for Ontario, Quebec and the Maritimes

Distributor of CONCERSION products for the provinces of Quebec and Ontario



SALES • SERVICE • RENTALS • FINANCING AVAILABLE



Roaco Meximizer III automatic in-cab controls, EZ Spray extendible spraybar, tapered and radius spraying, ENM-RO-FLUSH clean-out system, straight-line start and stop, 8-20 ft spraybar available, 400 GPM Viking asphalt pump



LeeBoy 665B Grader 47 HP Kubola Tier 3 diesel engine, 7,850 bs operating weight, 2 speed hyddroslatic tandem drive, 8 foot sliding moldboard, center-mounted scartfler, optional enclosed cab, 81 console

Emergency Parts-Service 24/7 • www.jalarue.com

ntrastructures

English Ed

Volume 16 Number 2 February 2011

PUBLISHER Jean-François Villard editor@infrastructures.com

CONTRIBUTING EDITOR Rob Holden

> **CONTRIBUTOR** Chantal Marquis

ADVERTISING SALES MONTREAL 514-233-1295 montreal@infrastructures.com TORONTO 416-795-1295 toronto@infrastructures.com ATLANTIC Mario Robichaud 506-226-2289 atlantic@infrastructures.com

TELEPHONE 514-233-1295 613-862-1295

FAX: (514) 528-9932

MAILING ADDRESS 4330 Saint-Hubert Street Montreal (Quebec) H2J 2W7

E-Mail editor@infrastructures.com

INTERNET www.infrastructures.com

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 ϵ 75 for U.S. and overseas.

The content of InfraStructures is available for consultation on the website www.infrastructures. com. It may not be reproduced or transmitted in any form, either in part or in full, without the written consent of the copyright owner.

LEGAL DEPOSIT Bibliothèque Nationale du Québec, 2010

DISTRIBUTED BY CANADA POST Publications Mail Agreement #40052183

A Brief Word...

So the New Year is well and truly underway and natural disasters aside, looks to be busy throughout most industry sectors. Not necessarily a "BOOM", but not an actual "BUST" either.

Add in the two wild cards of Mother Nature and Electioneering and most contractors should feel a warm glow about their prospects. With the Bank of Canada holding fast on interest rates, pending elections in at least 4 provinces and possibly federally, projects and promises should be plentiful.

Capital equipment costs may rise moderately due to commodity fluctuations but a weak U.S. dollar will offset the increase for most dealers and contractors. A strong business plan, good credit history and cheap money should permit new equipment purchases and investment in overdue maintenance.

World of Concrete saw an excellent representation of contractors from all of our regions and with IRE, NHES and CONEXPO-CON/AGG coming up fast that trend is likely to continue. InfraStructures will be your trusted guide and advisor on shows, trends, news and events, as we have always been. Canada's National Bilingual industry publication puts you in the know and helps you answer those niggling questions about the shape of things to come.

Happy Valentine's day!



On the cover:

wind turbines are heavy and their erection necessitates powerful yet sophisticated equipment. Manitowoc's Model 16000 is a good example of the type of crane typically used.

The new wind turbine attachment for the Model 16000 will be on display on Manitowoc's booth at CONEXPO-CON/AGG 2011.

COMMERCIAL OPERATION OF PHASE 1 OF GLEN DHU PROJECT

Shear Wind Inc. announced that on December 31, 2010, Glen Dhu Wind Energy Limited Partnership achieved commercial operation of Phase 1 of its 62,1 MW Glen Dhu wind power project in Nova Scotia, comprising nine wind turbines with a nameplate capacity of 20,7 MW. As a result, Phase 1 of the Glen Dhu Project is now generating and providing renewable electricity to Nova Scotia Power Inc. (NSPI), which is then delivered by NSPI to its customers.

The Glen Dhu Project is anticipated to be the largest wind farm in Nova Scotia, and is presently on track to be fully operational by March 31, 2011. The Glen Dhu Project consists of a total of 27 ENERCON E-82 2,3 MW wind turbines. Shear Wind owns approximately 51% of Glen Dhu LP.

Shear Wind continues to pursue its

MANUFACTURER SNOW REMOVAL EQUIPMENT & ATTACHMENTS FOR HEAVY MACHINERY

INTERNET : www.edfltd.com

E-MAIL : info@edfltd.com

BUCKETS FOR LOADERS & EXCAVATORS

QUICK-ATTACH FOR LOADERS & EXCAVATORS

MATERIAL HANDLING FORKS FOR LOADERS



growth-oriented strategy through the development of its other wind projects in Atlantic Canada, Alberta and Saskatchewan.

Source: Shear Wind Inc.

SIEMENS RENEWABLE ENERGY FACILITY TO CREATE UP TO 300 JOBS

Siemens announced recently that it has selected Tillsonburg, Ontario, for its Canadian wind turbine blade manufacturing site. The blade factory will be established in an existing 23 500 m² facility, located on 16 ha, that was originally opened in 1975. It is the company's first manufacturing plant for wind turbine components in Canada and represents an investment in excess of \$20 million. The manufacturing, service operations and associated back-office activities are expected to create up to 300 jobs. An additional 600 related jobs for the construction and commissioning is expected to be created during the build-out of the wind farms under agreement with Samsung and Pattern.

This new manufacturing facility in Tillsonburg is intended to allow Siemens to help Samsung and Pattern Energy meet their contractual requirements to supply 600 MW of renewable energy to the province of Ontario. The factory is expected to produce all of the wind turbine blades for Siemens projects in the province.

Siemens currently has eight projects with a capacity of approximately 950 MW commissioned or underway in Ontario and Manitoba. Canada's current installed capacity climbed by 40% to 3549 MW in 2009 (enough electricity provided to power more than one million homes). Wind power capacity in Canada is expected to increase to more than 15 000 MW in 2020 and thus is projected to provide approximately 11% of the country's total power generation.

Renovations to the Tillsonburg facility will begin later this year with the facility expected to be production ready in October 2011. The blades manufactured at the new facility will be for Siemens' 2,3 MW wind turbines. The site was selected for a number of reasons, such as excellent access to major highways and wide roads to transport the blades – which are up to 52 m long. In addition to close proximity to the market, Tillsonburg was the best selection from among a number of sites Siemens considered since first making the announcement to open a Canadian operation in August 2010.

Source: Siemens Canada Limited

ACKLANDS-GRAINGER ACQUIRES INDUS-TRIAL PRODUCTS BUSINESS IN NOVA SCOTIA AND NEW BRUNSWICK

Acklands-Grainger Inc., Canada's largest distributor of industrial, safety and fastener supplies, recently announced it has entered into an asset purchase agreement to acquire the Nova Scotia and New Brunswick business of Wolseley Industrial Products (Amalgamated) Inc., a distributor of industrial, construction, MRO and safety products. Acklands-Grainger expects an incremental sales contribution of approximately \$14 million from this acquisition over the next 12 months. The deal was effective December 6, 2010 and terms were not disclosed.

"This acquisition will improve our service to customers and will help us enhance our position as our customers' valued partner in helping to keep their facilities safe, efficient and functional," said Sean O'Brien, president of Acklands-Grainger. "Acklands-Grainger continues to make strategic investments to meet the needs of local customers and we are excited to add talented new members to our team in Atlantic Canada."

Acklands-Grainger has served Atlantic Canada for more than 45 years through eight locations in the region and has made significant investments across the region to meet the evolving needs of local customers. The company acquired K&D Pratt Industrial in 2009 and opened a new distribution centre in Dartmouth, Nova Scotia in 2010.

The business at the acquired locations in Moncton, Fredericton, Saint John, and Halifax, will continue to operate at its respective locations for the immediate future. Acklands-Grainger will transition the business from the newly acquired Sydney, location to its existing Sydney location in the next two months.

Source: Acklands-Grainger Inc.

SNC-LAVALIN AWARDED CONTRACT FOR WORKFORCE LODGE IN FORT MCMURRAY

SNC-Lavalin is pleased to announce that it has been awarded a contract to design, build, operate and maintain a workforce lodge for oil sands workers in Fort McMurray, Alberta.

This unique workforce lodge will provide accommodation and recreational facilities for 2500 workers during the construction phase of a major oil sands project. The contract also includes the turnkey provision of site preparation, pilings, water and waste water treatment facilities and backup power generation, as well as the provision of catering and support services at the lodge over the construction period. Onsite construction is currently underway.

Source: SNC-Lavalin Group Inc.

SNC-LAVALIN HATCH JOINT VENTURE AWARDED CONTRACT FROM RIO TINTO ALCAN

SNC-Lavalin is pleased to announce that it has now received the go-ahead for the implementation of the first phase of Rio Tinto Alcan's AP60 project in Saguenay-Lac-St-Jean, Quebec. SNC-Lavalin, as a 50/50 joint venture partner with Hatch, will provide project management, engineering,

New Work-Rite Kits for Trucks Carrying Extra Weight on the Front Axle

Several new Work-Rite[™] suspension kits have been developed by Firestone Industrial Products Company, LLC to provide added support to trucks carrying extra weight on the front with equipment like snow plows and winches.

Designed to help level the front end of vehicles, Firestone's latest Work-Rite applications are available for 1994-2011 Dodge Ram 2500/3500 4WD trucks (part #8621); 1999-2010 Chevrolet and GMC 2500 HD/3500 HD trucks (part #8629); and 2011 Chevrolet/GMC 2500 HD/3500 HD models (part #8635).

The Work-Rite suspension kit, an entry-level load management system, features micro-cellular urethane load assist springs that are mounted to the vehicle's frame to supplement its factory suspension.

The Work-Rite springs are offered in three densities that provide three separate spring-rates identified by color – white for 1/2-ton trucks, gray for 3/4-ton trucks and black for 1-ton trucks. In addition, Firestone offers the springs in two heights, 3.7 inches and 5.2 inches, to optimize performance for each application.

"Our Work-Rite suspension solutions feature progressive load-deflection characteristics that are designed to help the load assist springs absorb road shock, support weight and improve ride comfort for front-loaded vehicles," said Todd Green, regional sales manager, Firestone Industrial Products Ride-Rite™ division. "The ride quality is not compromised when the vehicle is unloaded, making the Work-Rite system an ideal solution for trucks used in seasonal work such as snow removal, where equipment is frequently added or removed."

Most Work-Rite kits offer a no-drill design and can be adjusted by the end user for their specific loading scenario using spacers provided in the kit. The kit includes load assist springs, brackets, comprehensive instructions and all necessary mounting hardware for an easy installation that requires basic hand tools and takes less than an hour.

Source: Firestone Industrial Products Company, LLC

procurement, construction management and pre-commissioning services to implement this new energy-efficient and costeffective aluminum smelting technology (AP60) aimed at providing a 40% higher output per pot than at existing smelters.

SNC-Lavalin has been involved in the project since the initial development phase, which began in 2007. In addition to funds already invested, Rio Tinto Alcan has approved \$758 million to complete the first phase of the AP60 plant, which will include 38 pots for an aluminum production capacity of 60 000 t/y. The project also includes associated infrastructure for Phase 1 and future phases.

Design and construction activities are underway for Phase 1 and will be accelerated for an expected completion date of 2013.

Source: SNC-Lavalin Group Inc.

A Century of Safety

As many people begin their work day – some putting on their fall protection gear, saddling up to the computer and putting the monitor at eye level, clicking on that safety belt, and taking a drink of purified water – most will be oblivious to their workplace safety

systems put in place to prevent injuries and illness. Many may not be aware of the many decades of work that went into developing and improving safety systems to prevent on-the-job injuries and helping businesses. The American Society of Safety Engineers (ASSE) released its film titled "American Society of Safety Engineers – A Century of Safety" that tells the story of work safety and tragedy through the decades and why we are safer today.

This film not only tells the story of



how and why we are safer at work today, but the genesis of safety in the workplace and the occupational safety, health and environmental profession. It also part of ASSE's 100th anniversary. ASSE was founded in 1911 in New York City and now has more than 32 000 occupational safety, health and environmental professional members located worldwide committed to protecting people, property and the environment.

The film walks the audience through tragedies and triumphs in the history of work safety. It spans several years and topics, from the horrific March 25, 1911, Triangle Shirtwaist Factory fire in New York City that took the lives of 146 people unable to escape the fire due to locked doors and collapsed fire escapes – some jumping to their deaths from the high floors – to the successful building of large projects without worker injuries or fatalities. ASSE was founded just months after the tragic Triangle fire.

ASSE produced the documentary as part of its ongoing efforts to raise awareness about the importance of workplace safety and how it affects everyone in every facet of people's work and daily lives. ASSE members and non-members are featured throughout the film discussing the past and the future of work safety whether in the office, the manufacturing plant, on the road, in the air, in the farm fields and more.

While millions of people go to work and leave work injury and illness free every day in the U.S., 12 people a day are dying from on-the-job injuries. According to the U.S. Occupational Safety and Health Administration (OSHA), workplace injuries, illnesses, and deaths cost the U.S. \$170 billion annually. This does not even take into account the untold grief family and friends go through. However, for every dollar invested in a safety program, four to six dollars are saved because injuries and illnesses decline or are prevented, medical and workers compensation costs decrease, along with reduced absenteeism, lower turnover and reduction in delayed production time and increased employee morale.

Source: American Society of Safety Engineers



CANAM GROUP IS AWARDED A CONTRACT IN WINNIPEG

Structal-Heavy Steel Construction, a business unit of Canam Group Inc., located in Boucherville, Quebec, has secured a contract worth more than \$44 million from Stuart Olson Dominion Construction Ltd., a business unit of Churchill Corporation, for the construction of a new multisports stadium in Winnipeg, Manitoba.

The contract awarded to Structal includes design-build, detailing, business information modeling (BIM) and project management services as well as the fabrication and erection of the steel components. Construction of this stadium is expected to cost in the vicinity of \$190 million.

Luc Pelland, senior vice president of Structal-Heavy Steel Construction, is delighted to be partnering with Stuart Olson Dominion on the construction of this new Winnipeg stadium. "As a contractor specialized in the field of structural steel, we have demonstrated our expertise in integrating all the phases of a project to successfully meet all customer requirements," says Mr. Pelland. This construction project, he adds, will bring to 68 the number of North American sports facilities Canam Group and its business units have collaborated on over the years, 21 of which are home to Major League teams.

Fabrication of the steel components will take place in the Canam Group plants located in Saint-Gédéon-de-Beauce, Quebec, and Calgary, Alberta. Deliveries and field erection are slated to begin in late March 2011 and to be completed during the second quarter of 2012.

The new state-of-the-art stadium with a capacity for 33 000 spectators will be home to the Winnipeg Blue Bombers of the Canadian Football League and the Manitoba Bisons, the University of Manitoba football team considered to be one of the finest on the university circuit.

Source: Canam Group Inc.

PURE TECHNOLOGIES ANNOUNCES NEW US\$8.5 MILLION CONTRACT

Pure Technologies Ltd. is pleased to announce that Dallas City Council has authorized the award of a three-year service contract worth up to \$8,5 million to Pure's wholly-owned subsidiaries, Pure Technologies U.S. Inc. and Pressure Pipe Inspection Company (USA) Inc.

Under the contract, Pure will provide leak detection, electromagnetic inspection and other condition assessment services for Dallas Water Utilities (DWU), which services 2,4 million customers in Dallas, Texas and nearby communities. DWU maintains more than 8000 km of water mains and 6900 km of wastewater collection pipelines, making it one of the largest pipeline networks in the U.S. This service agreement builds on a leak detection and condition assessment program that commenced in 2004. Under the initial program, condition assessment and leak surveys of pipelines resulted in substantial water savings and avoided premature failure of pipelines.

The nondestructive leak detection surveying and condition assessment services provided by Pure allow DWU to maintain optimum productivity and system reliability by reducing downtime and inspection time. Additionally, this service agreement enables DWU to monitor pipeline conditions effectively, and plan and coordinate maintenance projects.

Source: Pure Technologies Ltd.

PURE TECHNOLOGIES TO ACQUIRE A FIRM IN ABU DHABI

Pure Technologies Ltd. announced recently that it has entered into an agreement to purchase the business of the Inspection Division of Specialized Technical Services Est., an Abu Dhabibased company involved in inspection and monitoring of water, wastewater and oil & gas pipelines for up to \$2,38 million. The transaction is expected to close within the next month.

Under the terms of the transaction, Pure will acquire ownership of all of the equipment and work in progress of the business, which will be incorporated into the recently-established Abu Dhabi branch office of Pure Technologies. Mr. Frank Mueller, formerly Technical director of STS, will join Pure as director of Business Development, Middle East, with specific responsibility for the development of the oil and gas pipeline sector. STS has been active in the pipeline inspection business in the Gulf Cooperation Council (GCC) countries for over twenty years. Assets include a range of inspection and monitoring equipment, including a fleet of premium CCTV units.

Source: Pure Technologies Ltd.

Seat Heaters Available for Construction and Industrial Equipment

Check Corporation's durable Mold-in-Place seat heater systems are available to deliver warmth and comfort to operators of construction, agricultural and industrial equipment.

Designed to integrate directly into the OE seats, Check's Mold-in-Place seat heater systems feature one, two or three regulated temperature levels to provide desired heat for the equipment operator. Before the seat cushions are formed, the seat heating elements

are adhered to the back of the cover material. When the foam is poured into the cavity, Check's seat heaters become an integral part of the seat cushion, lying just below the seat surface to provide optimum heat distribution and lasting durability.

Check's Mold-in-Place seat heater systems work with both vinyl and fabric covered cushions, and some feature an electronic control modules with automatic one-hour shut off for safety. The seat heater elements have passed SAE-J-1454 testing for off-road durability tests and they are waterproof. Each system is backed with a 1- to 3-year warranty depending on the seat or the equipment warranty.

Source: Check Corporation

🍋 booth S-11456b

Exclusive Alliance Puts DuraForce MH Tires on All JLG Telehandlers

JLG Industries, Inc., an Oshkosh Corporation company and a leading manufacturer of aerial work platforms and telescopic material handlers, recently announced an agreement with Bridgestone Americas Tire Operations, Off Road Tire division for the exclusive supply of the Firestone DuraForce MH tires on JLG[®], Lull[®] and SkyTrak[®] branded telehandlers.

"JLG and Bridgestone Americas Off Road collaborated to create the Firestone DuraForce MH that will set a new industry standard by increasing tire life up to 300%," said Brian Boeckman, JLG Industries global director of product management for telehandlers. "The result is a tire that dramatically improves the cost of ownership for all three telehandler brands."

The low profile tire design minimizes the opportunity for sidewall damage while the unique

self-cleaning tread coupled with low ground bearing pressure optimizes performance in rough terrain conditions. Fewer tire and rim combinations mean fewer parts to stock and reduced inventory-carrying costs for JLG distribution.

Source: JLG Industries, Inc. Oshkosh Corporation

🜔 booths S-812, S-9111





Wind Attachment for Manitowoc 16000 on Display at CONEXPO-CON/AGG

An innovative new attachment for Manitowoc's Model 16000 crawler crane will be on display on Manitowoc's booth at CONEXPO-CON/AGG. The new attachment boosts the crane's capacity, allowing it to erect the latest generation of wind turbines.

Manitowoc introduced the wind attachment for the Manitowoc 16000 in early 2010 and the first units are already working on projects in the field. The attachment uses existing hardware in a new configuration to give the crane significantly enhanced lift capability when working at short radii, as is generally required in wind turbine erection.

Jerry Maloney, global product director for Manitowoc's crawler cranes, said the new development allows the Manitowoc 16000 to maintain its position as the preferred crane for wind turbine work.

"Since the Manitowoc 16000 launched five years ago, it has become one of the leading cranes for wind turbine erection in the U.S.," he said. "Approximately 85% of the Manitowoc 16000 cranes we build are used in wind power work. The cranes are quick and easy to erect and disassemble and are equally easy to transport."

By not requiring any modifications to the base crane, Manitowoc made it extremely simple for customers to take advantage of the new attachment.

Kevin Blaney, project leader on the development of the Manitowoc 16000 wind attachment, said customers appreciate the simplicity and familiarity when rigging the wind attachment.

"From an operational standpoint, customers are using the same components and processes they are familiar with," he said. "The wind industry has evolved and turbines have become larger. We've evolved our product to meet the changing needs of our customers."

In recent years, wind turbines with a 1,5 MW generating capability have been common in many markets, including North America. More recently, there is a shift to 2,5 MW and larger turbines as wind farm operators maximize the power generating productivity of their land. Positioning these larger turbines requires cranes with greater capacity and reach, which is exactly what the Manitowoc 16000 wind attachment offers.

The Manitowoc 16000 wind attachment fits to any 400 t rated standard Manitowoc 16000. Lifting duties at shorter radii are the most improved, and at 15,2 m, the crane has a capacity advantage of 49% compared with a standard Manitowoc 16000. This allows it to install most 2,5 MW wind turbines (and several larger ones) on towers between 79,9 m and 85 m.

Aside from the wind attachment, the Model 16000 offers superior line pull, which is especially useful for wind turbine installation. The

16000 line pull is 15 875 kg – the best in its class.

Mr. Blaney said this powerful line pull was particularly well-liked in wind turbine applications.

"In wind farm assembly, our customers like the power and speed they get from the line pull," he said. "It means they get their components in the air and assembled faster with the reassurance of Manitowoc's strength. It's simply more productive."

Unlike other cranes suited to lifting



larger wind turbines, the Manitowoc 16000 wind attachment does not use longer fixed or luffing jibs. Often, when working with a longer jib, the cut-off wind speed for safe operation is much lower than when working with just a boom and boom tip. Using longer jibs can often cause delays when erecting wind turbines as, by its very nature, this work needs to take place in windy locations.

Source: The Manitowoc Company, Inc.

Full Manitowoc Crane Range on Display at CONEXPO-CON/AGG

Manitowoc Cranes will highlight a number of impressive engineering and design developments at its 2011 CONEXPO-CON/AGG booth (Gold Lot, #430). Visitors will be able to see the largest rough-terrain crane currently in production, a best-in-class six-axle all-terrain crane, as well as some of the industry's most advanced boom truck controls. The 2011 show will provide Manitowoc the perfect opportunity to present a range of cranes and services to the industry.

Manitowoc Crane Care will also be displaying a completely refurbished lower works of a Manitowoc 888 crawler crane. This crane was refurbished by Manitowoc Crane Care in partnership with H&E Equipment Services, through the EnCORE Partners program. This is one of Manitowoc's newest initiatives to help customers reduce cost of ownership.

Source: The Manitowoc Company, Inc.

🥘 booth G-430

Affinity Tool Works Introduces Dtec Diamond Blade Product Division

Affinity Tool Works is pleased to announce the official launch of its Dtec[™] Diamond Blade product division. Dtec offers three lines of diamond blades, Superior, Contractor and Barracuda, providing a solution for every type of construction cutting application and budget. The Dtec blades are engineered to perform and built to meet the demands of a variety of applications, and are intended to fit a wide range of both gas- and electric-powered saws.

Dtec's Superior series offers more than ten blade sizes and is available in segmented and turbo configurations. With either a 12 mm or 15 mm segment height, the Superior segmented blades offer faster and cleaner cuts, along with a longer blade life. Featuring a modern design combining a segmented and continuous rim, the turbo blades are an ideal solution for fast, yet precise cuts on higher-end materials like granite, stone and tile. All Superior blades are built with a reinforced flange, which reduces vibration and noise and, when combined with strategically-placed cooling holes, helps prevent warping caused by excessive heat.

The Superior blades offer a unique and valuable benefit in that they have been designed with the ability to cut through steel. Unlike typical diamond blades that can be severely damaged if they encounter steel, the Superior blades are able to cut through the material easily. This makes them the ideal choice for applications where steel rebar may exist within the material, such as cutting reinforced concrete and masonry on bridge decks and roads.

Source: Affinity Tool Works, LLC



AULUL HUIL (HUIL)

Anna Tittl

Looking for more stories

visit

ww.infrastructures.com

WOLFF Cranes in Operation for a New Landmark at the Port of Rotterdam

A multi-function building complex, and with it a new district in the city center, is currently being created at the Wilhelmina pier on the river Maas, in Rotterdam, The Netherlands. The new "De Rotterdam" construction is rising up right alongside the old departure point of the historic Holland America Line, which transported thousands of emigrants to America right through to the middle of the 20th Century.

Four WOLFF luffing jib cranes have been in operation since late last year to assist with the carcassing work for this so-called "vertical city". In early 2011, the current pack of red WOLFF cranes will be supplemented by a fifth and final luffing jib crane.

The project is part of a large-scale urban



development plan for the city of Rotterdam, which calls for the construction of three 150 m tall high-rise towers that will house shops, apartments, offices and recreational facilities on up to 46 floors with a view to revitalizing the riverside precinct of this port city.

Since early 2009, this large-scale project has been managed by the Stuttgart office of the company Ed. Züblin AG in conjunction with Strabag Benelux. The project partners have placed their trust in the tried-and-proven WOLFF luffing jib crane technology to perform the construction work on this tight building site.

"We can look back on a long-standing partnership with Züblin. For this demanding project in the immediate downtown location, Züblin have chosen yet again to rely on the proven performance of the WOLFF luffing jib cranes. To ensure fast



construction progress, the on-site luffing jib cranes are operating in single line fall mode. While this has halved the maximum lifting capacity of the cranes, it has enabled higher lifting speeds to be achieved," explains Florian Rehklau, the Munich branch manager of WOLFFKRAN GmbH.

THE RIGHT TECHNOLOGY CHOICE

Two WOLFF 355 B luffing jib cranes and two WOLFF 224 B tower cranes are currently standing on foundation anchors in the 50 m x 110 m construction pit and assisting with the steel and concrete carcassing work. The cranes have been positioned in such a manner that they can be raised, and continue to rotate their jibs alongside one another as the construction of the building progresses.

The first building phase will involve the construction of the basement and parking spaces of the multi-function building complex. A cross frame was used when installing the first WOLFF 355 B in order to provide improved support within the construction pit. "We deliver tailormade on-site crane assembly solutions to suit our customer's requirements and the building site conditions", says Mr. Rehklau.

No auto crane was required to assemble the two WOLFF 224 B luffing jib cranes as they were able to be assembled using the initially installed WOLFF 355 B. An additional WOLFF 224 B model luffing jib crane will be providing assistance on the construction site from early 2011 onwards. All five tower cranes with jib booms have been hired for the project and are expected to be in operation until early 2013.

CONSTRUCTION OF A VERTICAL CITY

The building name "De Rotterdam" is a reference to the maritime history of the region. The new skyscraper will be erected directly on the Maas river in the Port of Rotterdam precinct, which has been developed into a new city district during the past few decades.

According to the plan, the skyscraper will consist of a plinth building with three towers, each comprising an upper and lower building section. The plans for the "vertical city" project were conceived by the renowned Dutch architect Rem Koolhass.

Source: WOLFFKRAN GmbH

InfraStructures is the only single, bilingual magazine reaching buyers and specifiers in the construction, public works, and natural resources industries throughout Canada. For more information or to inquire about how we can assist you in informing our readership about your products and services, visit us at www.infrastructures.com

MERIN

AEMP to Provide Training Seminar on New Industry Telematics Standard at CONEXPO-CON/AGG 2011

The Association of Equipment Management Professionals (AEMP), the premier organization for asset management professionals of off-road fleets, will provide a unique learning opportunity for developers, software professionals and asset managers for its recently released industrywide Telematics Standard.

Several topics will be covered during the seminar, titled The AEMP Telematics Data Standard and Its Implications for Mixed-Fleet Management, including the Telematics Standard, available resources, and the practical implications of its use for managing mixed fleets of off-road equipment.

Following the presentation portion of the seminar, a developers' panel discussion on the standard will be held, allowing attendees to interact with panel members involved in its development for an informal Q&A session. The panel will be available to answer technical questions regarding specific data elements, and will provide information on the process of accessing the web service and retrieving fleet data. Specifically, IT managers and developers are encouraged to ask questions regarding the nuts and bolts of the standard at this unique educational opportunity.

The new Telematics Standard, developed by AEMP in cooperation with key equipment manufacturers, standardizes the delivery of critical data to machine owners. It is being hailed as a significant step forward in efforts to meet asset manager's reporting needs for mixed fleets of heavy equipment.

The seminar is part of AEMP's 29th Annual Management Conference being held in conjunction with CONEXPO-CON/AGG, and is included with registration to the conference. Those wishing to attend the seminar only may do so by registering online at www.aemp.org for a fee of \$149. The program will take place on Monday, March 21st, 2011 from 8:30 – 11:00 at the Las Vegas Hilton, one day prior to opening day of CONEXPO-CON/AGG.



Formed in 1980, the AEMP represents fleet professionals and maintains relationships among manufacturers, users, governmental agencies, educational institutions and others involved in the design and management of heavy equipment.

Source: Association of Equipment Management Professionals

🕘 booth GL-3213





Back in December 2009, the Multilift Group commissioned special vehicle manufacturer SCHEUERLE with the development of a side girder deck of unrivalled dimensions. For the transportation of increasingly larger generators and transformers, the world's biggest side girder deck offering a payload of up to 620 t was designed and built within a very short period.

Late last year, the Multilift Group performed its first big transportation

with the STB 1000 – the transport of the biggest transformer ever built by Siemens from Nuremberg to Wilhelmshaven, in Germany. With combination weight of 870 t, this was the largest major heavy transportation ever performed in Wilhelmshaven.

The Multilift Group carried out the first assignment with the STB 1000 on November 12, 2010. The transportation began at the Siemens transformer plant in Nuremberg. The 495 t Siemens TRPM9056 transformer destined to the Tractebel engineer-

ing company, a subsidiary of the GDF SUEZ Group, was carried on 2 x 14-axles InterCombi trailer. Due to limited space, the transportation out of the Siemens production hall was only made possible by using the additional coupled InterCombi PowerBooster units. By using the Power-Booster technology, there was no need to use a pushing vehicle.

As planned, at 22:00, the over 100 m long combination drove along the heavy

load route to the Nuremberg port. The next morning, the 13 m long, 4,3 m wide and 5,1 m high load "rolled on" to the waiting pontoon.

As we all know patience is a virtue, as when each axle came onboard the pontoon, ballast water had to be discharged to level the load. The next step of the undertaking was the journey along the Rhein-Main-Donau canal to the Netherlands via Dordrecht and Delfzijl. Then, after some storm-caused delays, the transportaCombi PowerBooster equipped with additional drive axles was also connected and, with 200 hp available power, would provide sufficient thrust to supplement the two MAN TGX41.680 tractors, each equipped with a 16,2 l engine producing 680 hp.

The dimensions of the whole combination speak for themselves: The 102 m long, 5,5 m high and 4,4 m wide transport was ready for its journey through downtown Wilhelmshaven.



tion continued over the North Sea to the town of Wilhelmshaven.

AN ENCOUNTER OF A SPECIAL KIND IN WILHELMSHAVEN

Monday, December 6, 2010, on the Lüneberg quay in Wilhelmshaven, the transformer was again lifted with the side girders of the STB 1000. This time, however, the load was distributed over 2 x 20-axle InterCombis. A 4-axle Inter-

TECHNICAL DETAILS OF STB 1000

The STB 1000 side girder deck offers several options for accommodating generators and transformers. In connection with the main beam, the load is placed on the top boom by means of brackets. Alternatively, the load can be taken on board via additional lifting gear with cross beams. The load can also be coupled directly with the supporting tip without the main beams. Furthermore, it is capable of picking up the load without the help of a crane due to the additional support bogies. A flexible range of applications provides the deck with a span of 38,2 m and a length of up to 47,2 m - this is adapted to suit the required number of axles lines of the platform vehicle combination as well as the size of the load. The load width of the side girder deck is continually adjustable from 2,0 m through to 5,2 m, and can therefore be adjusted to match individual loads. The vertical lift of the deck for accommodating the load is 160 cm. Flexible, but this is not only concerning the size: the SCHEUERLE STB 1000 can carry generators, transformers as well as other loads up to weights of 620 t and is unrivalled anywhere in the world.

The SCHEUERLE STB 1000 is compatible with the SCHEUERLE InterCombi series as well as the self-propelled modular vehicles (SPMT). Depending on requirements, these can be coupled together for up to 2 x 20 axle lines and in 2, 3, and 4-file line ups respectively. In addition, the deployed platform vehicle combinations can be equipped with 2 x 4-axle InterCombi power



boosters in order to be able to reduce the number of towing and pushing vehicles required for uphill gradients – both in-plant and on public roads. Optionally, the drive for the total combination can also be achieved via the InterCombi power booster units so that the overall weight of the combination is reduced which is an advantage, for example, when crossing bridges.

In order to guarantee a safe transport process, the operating personnel have

two heated high tech driver's cabs at their disposal – each designed to accommodate a crew of two. The generously-sized cabs feature screens which are used to permanently monitor the status of the load during transportation by means of camera mounted on the two main beams. The widest position of the total combination is thus constantly in the direct field of vision.

Source: SCHEUERLE Fahrzeugfabrik

looth S-814





Michigan Logger Builds New Chip Fleet with Titan Trailers

With successful operations already running in excavation and logging, Jim Carey was in no hurry to add new chip trailers to the fleet for his growing biomass business. He took his time to decide where he could expect to get the best return on his latest investments.

"When we got into the chipping business four years ago, we bought reconditioned multi-axle trailers to get started. We had frames put on them but there was always some sort of issue. They had poor tires, bad brakes, the structure was poor – we had to weld on quite a bit of material!," he says.

Over time, Mr. Carey spoke to several operators who run wood chip businesses in the Upper Peninsula of Michigan. He attended the logging conferences in the region each year, and always made a point of checking out the trailers on display. "I asked three or four Titan owners and they told me they just never have problems. The Titans just work!," he adds.

With his interest zeroing in on Titan, Mr. Carey contacted Dale Handrich, the owner of Handrich Trucking and a second-generation chip hauler in Mio, Michigan. As Jim Carey recalls, "Dale bought out a company that had a bunch of trailers in the late '90s, and he got a few Titans in there and had added some. He's just Titan's biggest advocate. You can talk to lots of people and they'll brag up their equipment even if what they had was junk. But Dale's the kind of man that, if he told me something, I'd believe it. Since he got those first units, he slowly switched over his whole fleet to Titan." Now, with a fleet of 6 chip vans and 7 trucks, Mr. Carey is on the same track.

FROM LOGGING TO TRUCKING

J. Carey Logging and Excavation has been part of the Michigan logging business for about 30 years. Jim Carey started out working with slashers, feller-bunchers and chainsaws and eventually got into cut-tolength contracts in the 1990s. By expanding his equipment fleet, he developed the business into a full-service operation that offers everything from woodlot management to roadbuilding. Finally, the chip business presented itself as an opportunity for him to make better use of his equipment.

The Carey chip trucks average about



A Bandit 2680 tracked grinder at work in the bush filling one of Jim Carey's Titan trailer.

130 km per haul. All of the trailers are fitted with moving floors, because his customers do not have tippers on their site. When he converted three old trailers to moving floors, Mr. Carey took the advice of his Titan dealer, Jeff Root at Hudsonville Trailer and chose KEITH[®] WALKING FLOOR[®] systems.

INVESTING IN BIOMASS FUTURES

Now, Jim Carey sees biofuel as his greatest growth prospect. Recently, Carey Logging received a letter of intent for another mill contract calling for 45 000 t of biomass for its power plant. Carey has just commissioned a new Bandit 2680 grinder to produce the material, and he plans to upgrade an older grinder before long.

With a pair of brand new Titan trailers

With more readers across Ganada than any other trade magazine **MPRSTAUCTIONS** offers you the **widest coverage** available to advertise

your products and services.

With readers involved in all aspects of the industry **MPRSINIEUIPES** offers you the **deepest coverage**

available to advertise your products and services.

in his fleet, he sees several ways that the investment is paying him back. According to Jeff Root, the Titan trailers will pay off in the long term by outlasting traditional equipment, with less downtime and lower maintenance costs. Hudsonville Trailer also helped to accelerate the return on investment by arranging terms for financing that were more favorable than Mr. Carey's bank could offer.

Jim Carey also notes that even small details in manufacturing and design turn into maintenance savings. The distinctive Titan trailers, with their end-to-end extruded aluminum panel construction, have been attracting attention everywhere Carey Logging goes.

Source: Titan Trailers

Why advertise anywhere else?



Choose MPASTRUCTURES for your next campaign.

"Clean & Green" Machine Sets the Pace at Armstrong Coal

In a few short years, Armstrong Coal has made great progress in its mission to supply clean coal for power generation. As its newest venture readied to start production, the Equality Mine on western Kentucky's Green River, the coal producer set about commissioning a new dock facility 8 km downstream to serve its coal preparation facility at Centertown, Kentucky.

Now in full operation, the new Armstrong Dock has proved itself to be a showcase for clean, efficient productivity.

The centerpiece of the dock is one of the largest hydraulic material handlers in America: a 159 t SENNEBOGEN 880 R-HD. Swinging a 10,7 m³ clamshell and designed to outpace much larger rope cranes, the 880 R-HD is a model of purpose-built efficiency. For a machine of its size, it is also surprisingly quiet, economical and environmentally-friendly, owing to the allelectric drive supplied by SENNEBOGEN.

To build and operate the Armstrong Dock, the company turned to Wabash Ma-



rine, a specialist in river construction and contracting based in Henderson, Kentucky.

They mounted the material handler to a barge built to their specifications by Eagle Industries of St. Louis, Missouri, then brought the completed barge to the Armstrong Dock, 160 km upriver.

Wabash Marine continues to work on the Armstrong Dock maintaining the equipment and operating the material handler.

Armstrong Coal's 880 R-HD features SENNEBOGEN's hydraulically elevating cab. The operator can move the cab up and out, within a radius of about 6 m. This allows him to achieve the best vantage point for seeing the target area while loading as well as the area around the machine.

Source: SENNEBOGEN LLC



The most copied street sweepers



Because ours are the most powerful, the most reliable and the most economical. And they are made they are made

Why?

The absolute best pothole patcher



Why? Because it's the only one that creates permanent patches with standard asphalt mixes. The operator stays safely inside the cab instead of out

in traffic. It saves time and money and fixes potholes before your car's wheel alignment needs to be fixed.

See us at CONEXPO-CON/AGG in Las Vegas March 22- 26 Booth B-909

Python Manufacturing Inc. www.pythonmfg.com inc. 306-337-4440

Volvo's CareTrack Will Find You

Stealing two brand new Volvo motor graders from the City of Montreal's public works lot must have been a challenging task. But recovery was fast and easy thanks to Volvo's CareTrack, a GPS-enabled remote machine monitoring system that allows fleets to 'talk' to dealers and customers.

One cold November morning, two people cut a city storage yard fence from its posts, started several Volvo G900-Series motor graders and drove slowly out to an unmarked building in Laval, just north of Montreal, Canada. The thieves intended the building as a hideout until things blew over and investigators gave up, but CareTrack – Volvo Construction Equipment's telematics system – was already on the case.

Fitted to all new, larger machines (in markets currently offering the system) CareTrack works with each machine's diagnostic system to transmit operating



and location data wirelessly, via a mobile telephone network or satellite communication, to fleet managers and dealers, locally and across the globe. Obtaining the current and historical operating data is as simple as logging on to CareTrack's password protected web portal.

Discovering the theft, a city public works official telephoned Gilles Ager, Technical Service director of Strongco Equipment, Volvo's dealer in Laval. Gilles Ager immediately went online to CareTrack, which reported the street location of the missing machines – so new, they only had 10 hours of operating time. After an investigation by police and city officials, the motor graders were returned to the public works lot by 21:00 the same night.

Claude Lussier, Montreal City's mechanical foreman, said one unprotected motor grader was stolen several years ago in Plateau Mont-Royal and never recovered. "CareTrack traced the machines so fast. The police told us that if just one more day had passed they would have been gone," he said.

Bill Hurni, product manager in the Volvo Customer Support Division in Asheville, North Carolina, says:



A fleet of Volvo Construction Equipment G900-series motor graders, all fitted with Volvo's telematics system, CareTrack.

"With CareTrack, your machines are always online, talking to you. You know where your machines are located, when it's time for service, and, most importantly, that each machine is in optimum use. Our primary focus is getting important information to the dealer and the customer."

GRADED ON GOOD SERVICE



Montreal has an annual snowfall of over 200 cm. So the city uses 51 Volvo G900-Series motor graders, rented from Strongco, to clear thousands of roadways, parking lots and walkways for the 3,6 million people that live there.

The city has enjoyed a 10 year relationship with Strongco – one of the largest multi-line equipment distributors in Canada. "The partnership between the city and Strongco has been built upon Strongco's professional, responsive service and reliable equipment," says Claude Lussier.

CARETRACK CUSTOMER SUPPORT

Launched in 2006, Volvo's CareTrack is racking up millions of dollars in savings for users around the world, from enabling enhanced maintenance planning and reducing inappropriate use to lowering fleet and project insurance costs. There are currently two versions of CareTrack on offer. While the Basic version is available for all Volvo Construction Equipment as well as machines from other brands, CareTrack Advanced is designed for Volvo's larger equipment, including wheel loaders, excavators, articulated haulers and motor graders. The Advanced version also offers the ability to review fuel consumption data, see error codes or alarms the machine has generated, and to download all logged data in the machine's tracking system.

"Signals are sent every time the machines are operated, reporting everything from location to idle time," says Bill Hurni. "CareTrack can produce information on a group of machines or even entire fleet reports.

"One recycling professional told me that he can go into CareTrack and see if his operators have the differential lock engaged when it doesn't need to be," he continues. "He saw one articulated hauler operator with it on for a long period of time and called him to say, 'Hey. What are you doing out there?' With CareTrack, you have more information at your fingertips than if you were actually on the work site."

CareTrack is currently available in parts of Europe, North America, Indonesia and the Middle East, with plans to launch into Brazil this year and then on to China, Korea and the Eastern Region. "As far as the industry goes, we're just scratching the surface of this," concludes Mr. Hurni. "Thanks to CareTrack, the machines are talking and we're listening."

Source: Volvo Construction Equipment Booth N-1641

Bale Breaker for Materials of All Kinds

The BAL-O-MAT Bale Breaker serves for unraveling of press bales from PET-bottles, waste paper, residual waste and other materials. The loosened up material is presented in a metered condition to the subsequent processes. The material degree of dispersion can

be adjusted for ensuring optimal processing conditions.

In contrast to shredders and mills, the Bag Opener does not crush the material. It is merely prepared for most effective sorting.



The material is being loosened up and dispersed. If necessary, an additional ripping device is available for opening tied up bundles and cartons.

The low purchase price and operating costs are further advantages of the BAL-O-MAT Bale Breaker. The machine can handle up to 20 bales/h weighing 200 - 1000 kg/m³

Source: BRT Recycling Technologie GmbH

NEW in 2011 at **New Way Diesel** and Diesel-Bec!

New Way Diesel and Diesel-Bec inc. are proud to announce that they are now distributors of Clarke, Fire Protection for Quebec, Ontario and Atlantic Provinces.

For the customer's information on those products, Clarke Fire Protection Products is the world's leading manufacturer of diesel engines dedicated for driving stationary emergency fire pumps.

New Way Diesel and Diesel-Bec inc. are now offering engines, start-up, maintenance, service and genuine replacement parts on all engines for diesel-driven fire pumps. All those services are provided by certified technicians for Clarke products.

Source: Diesel-Bec inc. 1-866-441-3401 1-877-663-9929 New Way Diesel



Who's the first name in fire protection? CLARKE Sales - Parts - Service We offer you 70 diesel engine pump models readily available! Your distributors of fire pumps diesel engines for Province of Québec and Atlantic Provinces Call us! DIESEL-BEC www.diesel-bec.go.co

www.newwaydiesel.com

New SCR Technology Improves Fuel Efficiency

Case Construction Equipment recently introduced three new F Series wheel loader models. The new machines provide faster acceleration, quicker cycle times and higher travel speeds while delivering as much as 17-percent greater fuel efficiency.

The new Case 721F, 821F and 921F wheel loaders evolved from the company's E Series product line. The Case F Series wheel loaders use proven selective catalytic reduction (SCR) technology to meet Tier 4 Interim emissions standards while also delivering increased power and improved fuel efficiency.

The Case 721F, 821F and 921F wheel loaders feature a 6,7 | Tier 4i certified engine, rated at 179, 211 and 242 hp, respectively.

A new optional, five-speed transmission with a lockup torque converter, opendifferential axles and advanced system programming provides even more fuel savings. A new dual-mode shutdown feature maximizes fuel economy and



monitors vital engine components. Using the fuel-saver mode, the operator can limit the time the machine will idle. The desired shutdown time can be set in five-minute increments.

The new Case wheel loaders include standard limited-slip front and rear axles that provide outstanding traction in all conditions, especially in non-compacted surfaces, such as gravel. The standard fourspeed transmission with manual kick-down

provides maximum traction and increased bucket penetration.

The Case 921F wheel loader, with a 3,6 m³ bucket, launches a new size class for Case. With greater tipping load weight and bucket breakout force relative to its payload, the 921F meets the needs of aggregate stockpiling and high-production truck-loading applications.

Source: Case Construction Equipment 🥘 booth N-1609

Kawasaki Introduces New Compact Wheel Loaders

Kawasaki is introducing two new wheel loader models into the compact loader market. The new Kawasaki models, the 42ZV-2, a 0,6 m³ loader, and the 45ZV-2, a 0,9 m³ loader, are designed and engineered with all of the performance and reliability of the larger Kawasaki wheel loaders, but in a smaller package. With standard features such as a hydraulic quick coupler and 3rd spool hydraulics, these loaders are small in size but big in value.

With Tier 4i emissions-compliant Kubota engines, heavy box frames and a well balanced design, these compact Kawasaki wheel loaders provide stable, reliable operation. Innovative HN Bushing technology, easy access electrical relays, and the sideby-side aluminum radiator and oil cooler provide easy access for maintenance.

From the walk-through cab design, to the easy-read monitors, this is an operatorfriendly wheel loader. With a rubbermounted cab engineered to reduce noise and vibration, suspension seat, pillar-less full length windows, this is one comfortable, efficient working environment.



Overall you will find these loaders to be responsive, and fast. With one of the highest ground speeds in its class, the 45ZV-2 features an electronically controlled Hydrostatic powertrain providing quick, smooth acceleration. The wrap-around counterweight allows for a very stable, well balanced loader.

Kawasaki is the oldest ongoing manufacturer of rubber-tire, articulated, wheel loaders in the world, serving the North American market for over 30 years. Source: KCMA Corporation

booth C-4735



Subaru Launches Vertical Shaft Engine for Lawnmowers

The new EA175V Engine from Subaru is the first in its extensive engine line ideally suited for use with walk-behind lawnmowers. Featuring an innovative and completely original design, the engine is built lightweight, yet rugged and powerful enough for demanding mower applications, and is also designed for use on a variety of other vertical-shaft engine applications. By incorporating industry-leading technology and numerous advanced features, the vertical shaft, 174 cm³ displacement engine offers superior power and reliability when compared to competitive engines.

Subaru's EA175V is the first to bring chain-driven overhead cam (OHC) technology to the small, air-cooled, vertical shaft engine market, allowing it to offer easier starts, quieter operation and more power than similar-class engines. OHC technology combined with a highly efficient hemispherical combustion chamber allow the intake and exhaust valves to be positioned to offer lower resistance for the air/fuel mixture flow, thus optimizing engine performance. This allows the engine the ability to utilize a high compression ratio, thus producing higher power and torque.

Durable, high-quality materials and added features are included to extend engine life. Heavyduty piston rings and a cast-iron cylinder liner reduce engine wear, while a patent-pending oil delivery system increases longevity. Cooling fins and air circulation have been engineered to optimize cooling capacity to effectively reduce heat and further enhance engine life. The EA175V offers a perfect balance of easy starts in cold weather and superior cooling, making it ideal for lawnmowers and other pieces of multi-seasonal outdoor power equipment.

For use with lawnmower applications, an aluminum alloy flywheel ensures smooth engine operation. The low-mount configuration combined with the aluminum alloy



construction furthers the engine's lightweight design. The flywheel also features a safety brake, which, when released, automatically stops the mower blade within three seconds. For all other equipment applications, a high-mass flywheel is standard.

Source: Robin America, Inc.





www.marind.ca



Roxboro Teams-Up with MINDS

From humble beginnings with one backhoe, Roxboro Excavation has grown into a large diversified company that offers a full range of construction services ranging from earthwork and pipe work to pavement and snow removal. The company also



performs environmental work such as site remediation, landfill construction and the disposal transportation of contaminated materials.

As a family asphalt producer and

contractor based in Dorval, Quebec, Roxboro had decided to build their own asphalt plant, however a critical component – plant controls – the brains of the plants was needed to control the blending and operations of asphalt manufacturing.

"MINDS accompanied us all the way giving us useful and pertinent insight into the control part of the design saving a lot of time and errors" says Daniel Théorêt. "As a matter of fact we bought another plant in 2010, a mobile drum mix unit and we stripped the old control system out without hesitation".

The outcome is ultimately a win-win



relationship between MINDS and Roxboro. "The relationship is more of a long-term partnership and we understand and meet the needs of contractors/producers while they remain loyal to us as their automation partner" concludes Pierre Vidaillac, CEO of Minds Inc.

Source: MINDS Inc.



Two Durapatchers for Durham

The Regional Municipality of Durham recently took possession of two Cimline Durapatcher trailer models for use by various Roads Department depots between Oshawa and Port Perry, Ontario.

The units, purchased after a thorough operational trial and public tender, were



delivered to Durham's main maintenance depot in Whitby. This consisted of operator and service/repair training as well as a thorough inspection by the Fleet Department.

So what is the Durapatcher Process exactly? Nat Alford, vice president of Cimline Pavement Maintenance Group (CPMG) Duraco Division explains: "We were the first to develop a simple, semi-automated, non-mechanical system of pavement and pot hole repairs. Our patented approach relies on the fundamental laws of physics



to get an emulsion and aggregate to blend, spray and apply cleanly and quickly. It is a type of Macadam which is created to fill holes or repair imperfections to asphalt or concrete pavements. The product can also be used to stabilize shoulder wear and erosion or surface, treat driveways and other areas."

Durham Region had pioneered an in-house solution which created a similar repair mix. "The end result was very satisfactory, but there were draw-backs," explained John Parry of the Roads department. "I happened across the Durapatcher at the National Heavy Equipment Show and spoke to a factory representative and we eventually arranged a trial during the summer of 2009. That gave us (Durham Region) a chance to vary the emulsion, aggregate and application techniques. Cimline was so confident in their equipment that we were able to use it with no obligation in true conditions for evaluation and that confidence was justified."

CPMG is the largest manufacturer of pavement repair and maintenance products on the continent. Products like the well known and highly popular Magma Series melter/applicators, PCR-25 crack routers as well as Durapatcher and Duratank have made CPMG the recognized leader by pavement maintenance professionals.

Source: Cimline Pavement Maintenance Group booth C-7215

Dynapac's Street-Smart Range of Compact Tandem Rollers

Quiet, modern and with a water-cooled engine - Dynapac's new range of articulated compact tandem rollers – the CC1100, CC1200 and CC1300 – means good news for customers. The rollers have an operating weight of 2400 kg to 3900 kg and are available in two configurations throughout the range: with dual steel vibratory drums or as a combi version featuring one vibratory drum and four rubber tires.

The new rollers feature state of the art drivers' platform, design and engines. Engineered primarily for asphalt compaction on streets and pavements in urban areas, the CC1300 is also suitable for compacting sub-bases and base courses and is adequate to follow a small paver.

The large drum diameter makes them especially effective on soft asphalt compounds. In addition, the ratio of drum diameter to static linear load considerably reduces the risk of cracks.

In the combi versions, the rubber tires are operated in pairs by separate drive mo-

tors. This reduces the risk of marring newly laid asphalt when making sharp turns. A very low center of gravity keeps the machines stable, and sturdy handgrips and boarding steps make it safer to get on and off the machine.

The high clearance at the drum edge facilitates compaction close to high curbs. When equipped with optional features such as a sideways sliding seat and dual driving controls, there is a clear view of the edge of the drums.

The rollers are equipped with a corrosion-free, impact-resistant water tank. Three separate filters alleviate the problem of clogged sprinkler nozzles, and the entire sprinkler system can be drained easily with a few simple hand operations.

This new family of rollers is built up from a lot of common parts. This not only secures great parts availability now and in the future, but also indicates that these



models will be offered for many years to come – thus further underlining the high second-hand value of Dynapac equipment. Source: Dynapac Compaction Equipment





Your Atlantic Canada Source for Off-Highway Engines



Arctic Snow & Ice Control Products Offers Sectional Sno-Plow for Smaller Equipment

Sectional Sno-Plow, a product division of Arctic Snow and Ice Control Products, has developed a line of plows to be used with compact equipment. The LD plows are compatible with several types of lighter-duty equipment including backhoes, skid steers, compact loaders, and tractors. Designed by an experienced snow and ice management contractor, the LD snow pushers are ideal for facility managers, and construction and landscape contractors looking for a productive solution for inactive equipment during the winter months, as well as established snow and ice control professionals.

Incorporating several unique, patented features, the LD plows increase snow removal efficiency, reduce fuel costs, and virtually eliminate follow-up plowing. The patented steel moldboard design is made up of 81 cm-wide individual sections, each featuring spring-loaded trip edges.

Each moldboard section features an

AR-400 hardened-steel trip cutting edge, designed to effectively scrape snow and ice down to the pavement.

Every LD plow comes equipped with Sectional Sno-Plow's

patented Slip-Hitch system, which provides quicker, easier, and more efficient operation. The plow operates independently of the machine, and automatically and continuously adjusts to the pavement grade, resulting in fewer missed areas and less follow-up plowing. Because it adjusts to the pavement mechanically, less operator time and effort is required to position the plow, making it ideal for inexperienced operators. Additionally, the hitch ensures all four tires remain on the pavement at all times. As a result, the machine is able to achieve full traction, and eliminate drag

and loss of horsepower.

Designed for equipment weighing less than 6800 kg, the LD plows are available in four sizes to accommodate a range of equipment. And every LD plow is backed by a 2-year limited warranty.

Source: Arctic Snow and Ice Control Products



The New Doosan DX700LC Tops Doosan's Crawler Excavator Range

Doosan introduces its largest crawler excavator, the DX700LC, designed for heavy-duty mining and quarrying applications as well as major infrastructure construction projects and mass excavation work.

Powered by a 463 hp turbocharged Isuzu diesel engine, the DX700LC has an operating weight of 72 099 kg with standard boom and arm, 90 cm double grouser shoes and 3,3 m³ bucket. Optional buckets range in size from 2,5 m³ to 4,5 m³.

The DX700LC offers a new power mode control system that provides optimum power and efficiency under all operating conditions.

The unit's positive control piston pump and open center valve enable fine metering of hydraulic flow for smooth, precise control of machine functions. Flow regeneration conserves energy and enables increased boom and arm cycles. Both the boom and arm cylinders are cushioned to provide smooth end-of-stroke operation while the holding system prevents attachments from falling when the controls are in the neutral position.

The DX700LC – like every Doosan machine – is covered by an innovative 48-hour parts guarantee. The program guarantees that if a "machine-debilitating" part is needed, Doosan will deliver this part to the end user within two business days or Doosan will pay for a replacement machine rental.

Source: Doosan Infracore Construction Equipment America

🍥 booth G-100





The Genrep Engine Team is on call to work with OEMs across Canada to supply the best possible industrial engine whether it is a power unit, pumpdrive, generator-drive or marine application.

Our Team will take into consideration power requirements, size and weight, technology and of course... price.

We work with OEMs across Canada as the distributor of two world-scale engine manufacturers, we are ideally positioned to be a value-added collaborative partner.

Contact us today!

HEAVY EQUIPMENT SHOW

Toronto, Ontario, March 3 - 4 • Booth #3955

Sales • Parts • Service • www.genrep.com



ONTARIO: 905-502-9950 ATLANTIC: 877-732-3966



Comesee as at

QUEBEC: 450-901-0131 WESTERN: 877-732-3966







Water Industry Associations Organize First Joint Congress

wat + WASSER BERLIN INTERNATIONAL will be taking place May 2 - 5. For the first time all the relevant water industry associations have succeeded in combining their expertise to organise a joint event. The organizers' aim is to focus on the latest topics and take a close look at practical matters in a way that has not been realized up to now. Over 120 high-profile experts representing research, politics and industry will deliver their reports on all the issues concerning the water industry. A matchmaking service will set up a direct link between the congress and exhibition.

Source: WASSER BERLIN INTERNATIONAL

Students Across the U.S. and Canada Advance to Construction Challenge National Championships

Creative thinking and teamwork are what have earned students from across the U.S. and Canada the opportunity to travel to Las Vegas and compete in the national finals of the AEM Construction Challenge presented by Volvo Construction Equipment taking place March 21 - 25, at the international CONEXPO-CON/AGG construction industries trade show.

Regional rallies across the U.S. and Canada gave students the chance to demonstrate their creative abilities and imagination as they vied to secure a spot to the national competition by building structures that related to transportation and water infrastructure.

"We saw amazing creativity and problem-solving skills from student teams at each of the rallies," said Volvo senior marketing and program specialist Paul Parker. "We look forward to bringing this next generation into the construction field to help meet infrastructure needs in North America and to solve problems we may not even be considering today."

At the national championships the top 24 teams that advanced from the regional rallies will compete for scholarships and other prizes and have the opportunity to meet and learn from leaders in the construction industry.

The Association of Equipment Manufacturers (AEM) designed the Construction Challenge specifically to engage teens in an educational setting and spark interest in careers in the construction industry. The Challenge offers a chance for students, teachers, parents and community leaders to learn more about the scope and contributions of the construction industry and the need for skilled professionals to solve infrastructure problems such as crumbling bridges, overcrowded roadways and aging water and wastewater systems.

The Construction Challenge presented by Volvo Construction Equipment is a joint effort by the Association of Equipment Manufacturers (AEM) and Destination ImagiNation (DI). Since its inception, the AEM Construction Challenge has directly engaged more than 10 000 middle and high school students across North America, and the program and its messages have made an impression on more than 18 million students globally. Nearly 70% of Challenge participants said they are now considering a construction career. AEM's support for the construction equipment industry is also demonstrated in the association's "I Make America" campaign that highlights the importance of infrastructure investment for the country's long-term prosperity.

Source: Association of Equipment Manufacturers (AEM)

Appointments

Eaton Corporation announces that Egon Lechner has been named solutions architect for the Hydraulics Group.

In this role, Mr. Lechner will work closely with Ruppert Russionello, vice president – Global Markets, on global segment needs and William VanArsdale,



president – Hydraulics Group, on business development. He will continue to be based in Baden-Baden, Germany, and will be responsible for translating the business needs of Eaton's global market segments into technical requirements, as well as working across the business to identify targeted customer solutions.

Egon Lechner joined Eaton in 2004 from Bosch Rexroth Industrial Hydraulics where he served in a number of positions of increasing responsibility in sales, operations and research and development. He holds graduate and doctorate degrees in mechanical engineering from the University of Karlsruhe in Germany.

Source: Eaton Corporation

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

CDE Global has announced the appointment of **Terry Ashby** to the board of directors following the company's recent annual general meeting. Mr. Ashby moves to the new position having been general manager for CDE with specific responsibility for their operations in the British market for the last 10 years.



Having worked in the quarrying and construction materials industry for over 30 years Mr. Ashby is one of the most respected and well known personalities within the industry in the United Kingdom and beyond. In addition to the extensive knowledge of the British market he has also been pivotal in the development of many export markets for CDE having spent considerable time in North America and the Middle East.

In his new role Mr. Ashby will work closely with the CDE Global sales team and growing distributor network to ensure the continuing expansion of the company both within existing markets and strategic export markets outside Ireland and the U.K. Source: CDE Global Ltd

EVO Plants, Hamm Rollers Debut at CONEXPO-CON/AGG

Wirtgen America is moving from the outdoor display area to its 2860 m² exhibit

inside the Central Hall at CONEXPO-CON/AGG 2011.

On display will be the exciting new MR 110 EVO mobile impact crusher plant. Kleemann's EVO line constitutes the next generation of impact crushers, and represents a genuinely

new evolution for the entire plant spectrum in terms of performance, economic efficiency and equipment longevity.

New from Wirtgen America will be the

Hamm HD+ 110 VO featuring both conventional vibration and exclusive Hamm



Oscillation compaction. Also new will be the Hamm GRW 280, an advanced-design eight-wheel pneumatic roller.

With the exception of a handful of

models, all equipment exhibited will be either new to CONEXPO-CON/AGG, or



improved while retaining the original model numbers. Source: Wirtgen America, Inc.

🌔 booth C-5733





Move your Equipment Easily & Efficiently

Transport of Industrial Equipment, Agricultural Machinery & Oversized Loads Services adapted to your needs: Anyway, Anytime, Anywhere From the U.S. to CANADA or CANADA to the U.S. STEP DECK 53' • 3 AXLES • DOUBLE DROP DECK • RGH • DRY VAN Quebec • Ontario • Atlantic Provinces • Western Canada • United States Phone: 450-836-7117

Trottex Transit Specialized Transport CAN • U.S. CAN # 6-Q-306501 • US EIN # 98-0568750

..... send the changes to us by mail or by fax or type-in the information in an e-mail

Make changes or add your colleagues to the mailing list Old Address Name: Company: Address: Postal Code: Name: Title: Company: Address Postal Code: Phone: Phone: Fax (optional): e-mail (optional):



Address Change

Complete the coupon and send it to us by mail

> InfraStructures Magazine Subscription Department 4330 Saint-Hubert Street Montreal, QC H2J 2W7

> > or by fax at

514-528-9932



APEX 2011: Great timing

The APEX aerial platform exhibition in September 2011 is perfectly timed for a recovery in the access equipment market after several years of low investment by rental companies and end users.

This means that the timing for APEX, taking place on September 14-16, 2011, at its usual venue of the Maastricht Exhibition and Conference Centre (MECC) in the Netherlands, will be perfect for companies who are preparing to invest again in the latest machines.

At the same time as demand starts to return in developed access markets in western Europe and North America, APEX will also attract buyers from the fast growing new access markets such as the Middle East, Eastern and central Europe and countries like India and Brazil.

APEX 2011 will attract the cream of the world's access manufacturers, established major buyers and a wide range of new potential customers and exhibitors. The show will again be supported by the International Powered Access Federation (IPAF).

One day before the exhibition, on September 13, and also in Maastricht, IPAF and Access International will jointly organize the fifth Europlatform conference, a one-day event for access rental professionals.

Source: Industrial Promotions International

Agenda

Samoter March 2 - 6, 2011 Verona, Italy National Heavy Equipment Show March 3 - 4, 2011 Toronto, ON Canada HEAVY EOUIPMENT 2011 Quebexpo - ALQ/CRA March 22 - 23, 2011 Saint-Hyacinthe, QC Canada CONEXPO-CON/AGG & IFPE March 22 - 26, 2011 Las Vegas, NV USA 20th Annual NASTT No-Dig Show March 26 - 31, 2011 Washington, DC USA **INTERMAT Middle East** March 28 - 30, 201 Abu Dhabi, United Arab Emirates Expo-Bitume, Roadbuilding equipment show March 31, 2011 Saint-Hvacinthe, QC Canada The Brazil Road Expo April, 4 - 6, 2011 Sao Paulo, Brazil SMOPYC 2011 April 5 - 9, 2011 Zaragoza, Spain **ROOFTech 2011 - The Canadian Roofing Exposition** April 12 - 13, 2011 Montreal, QC Canada AQEI 2nd Annual Congress April 21 - 22, 2011 Mont Tremblant, QC Canada wat + WASSER BERLIN INTERNATIONAL May 2 - 5, 2011 Berlin, Germany APOM Technical Day May 6, 2011 Dorval, QC Canada Expomatec Spain 2011 May 17 - 22, 2011 Madrid, Spain WINDPOWER Conference & Exhibition May 22 - 25, 2011 Anaheim, CA USA 2011 International Bridge Conference® June 5 - 8, 2011 Pittsburgh, PA USA 2nd International Rental Exhibition (IRE) June 7 - 9, 2011 Amsterdam, The Netherlands AORS Municipal Trade Show June 8 - 9, 2011 Kitchener, ON Canada APOM Technical Day September 9, 2011 Lévis, QC Canada APEX 2011 September 14 - 16, 2011 Maastricht, The Netherlands Expo-Paysages (Outdoor Landscaping Exhibition) September 16 - 17, 2011 Saint-Liboire, QC Canada **ICUEE - The International Construction & Utility Exposition** October 4 - 6, 2011 Louisville, KY USA WaterSmart Innovations Conference and Exposition October 5 - 7, 2011 Las Vegas, NV USA **Atlantic Heavy Equipment Show** March 29 - 30, 2012 HEAVY EQUIPMENT SHOW Moncton, NB Canada INTERMAT April 16 - 21, 2012 Paris, France **DEMO International® 2012** September 20 - 22, 2012 Saint-Raymond, QC Canada Bauma 2013 April 15 - 21, 2013

Munich, Germany



SMOPYC



NATIONAL CONSTRUCTION • ROAD BUILDING • LAND IMPROVEMENT • INFRASTRUCTURE HEAVY EQUIPMENT SHOW

2011

INTERNATIONAL

C E N T R E



The Leaders of the Heavy Equipment Industry Meet Here.

- The Biggest Equipment in Canada
- The Biggest Audience
- The Biggest Venue, Easy Access and FREE Parking

HEAVY FEATURES

Gravel Pit presented by: AGGREGATES & See the latest equipment from the crushing, processing, recycling and haulage aspects of the aggregate industry.

Backhoe Rodeo sponsored by



Watch backhoe operators from across the country showcase their skills, as they compete for prizes & the prestige of being named Grand Champion.

Rental Equipment Pavilion

You don't want to miss the line-up of over 80 display booths showcasing the latest equipment, tools & products that are for sale or rent in the light & heavy construction sectors.

SHOW HOURS 9AM -5PM DAILY

(Registration available at the door.)

Produced by:

ud añada courtesy of Aggregistes







Endorsed by:





Depuis 1929 Since



A VENDRE / FOR SALE

2010 KENWORTH T-470H attache-rapide AR9000, benne quatre saisons AR9000 quick-attach, four-season dump body 2010 PETERBILT 340 attache-rapide AR9000, benne quatre saisons AR9000 quick-attach, four-season dump body







care

André St-Louis 514-923-2969



Serge Desroches 514-929-0767



Nicolas Côté-Simard 418-5713383

WWW.W-COTE.COM 450-691-2967 19 rue Côté, Mercier, Quellec JGR 289