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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

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A Brief Word...

Now that spring has finally got underway, hopefully so has your work schedule.

There has been a growing pensiveness as municipalities and contractors have held their breath hoping that winter would release its icy grip.

This tension has rippled throughout the economy causing economic forecasts to be revised unfavorably. The cycle further adding to the stress across most industry sectors, and most notably, coinciding with an increase in new equipment pricing magnified by the lowest exchange rates we've seen in more than three years.

So it comes down to understanding value rather than price, a basic economic principle that most equipment buyers don't consider. But how can value be appreciated?

The best method is by direct experience and the experiences of colleagues. Labor and related costs as well as productivity must be the key criteria.

These, in conjunction with a dealer or vendor reputation for after-sales representation, bring the evaluation of an apparent high price into a more correct perspective.

Part of InfraStructures' role is to help provide you with some of this information to assist you with your deliberations. With industry news and stories directly relevant to the Canadian job site, InfraStructures is your leading research source for your equipment needs.

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TOP FIVE DEALERS FOR LINK-BELT 2013

Skeeter Collins, Link-Belt's manager of North American Sales, has announced the top five dealers for 2013. These dealers were selected on the basis of overall performance in sales and marketing of Link-Belt cranes. Their ability to sell cranes is not only a reflection of a superior product but also their outstanding customer service, long-term financial stability and solid reputation in the industry.

Link-Belt's top five dealers for 2013 (listed in alphabetic order):

- Atlantic & Southern, Lake City, Georgia
- Consultants F. Drapeau, Inc., Quebec
- General Equipment, Fargo, North Dakota
- HOLT Crane & Equipment, Houston, Texas
- Mardian Equipment, Phoenix, Arizona

"2013 brought many challenges to our dealer network. Having the strongest distribution in the crane industry and some of the finest sales professionals helped

Link-Belt have one of its best years in its history. These top five dealers, like the rest of our distributors, did a great job reinvesting in their companies as well as having strong sales of cranes to their customers," according to Mr. Collins.

Source: Link-Belt Construction Equipment Company

MONTABERT EXTENDS BRAND INTO NORTH AMERICA

Montabert, a worldwide leader in the design and manufacture of hydraulic demolition and drilling attachments and pneumatic equipment, has completed a transition that extends its brand into North America and replaces the Tramac brand name on select products.

The rebranded products include hydraulic breakers, plate compactors, drilling attachments and pneumatic equipment – which formerly had been branded "Tramac by Montabert." Now that the Montabert brand is established in North America, the "Tramac" name has been dropped on these Montabert® attachments.

"Joint branding on our products introduced the Montabert name to the market without a complete departure from what people were accustomed to," said Stephane Giroudon, business manager for Montabert North America. "It provided a good foundation for us to move in this direction."

With the transition to simply "Montabert", customers and dealers will benefit from a heightened level of product support and service.

"It's the same great product and exceptional service as before, backed even more by Montabert's long-standing commitment to innovation and technological leadership," Mr. Giroudon added. "We are even keeping our iconic green color, which we've had since we invented the first hydraulic breaker 50 years ago."

More important, he said, customers can rely on Montabert's ongoing commitment to what customers have come to expect in its products: ease of use, great efficiency, low maintenance costs and unrivaled reliability.

Source: Montabert



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W.S.TYLER & MAJOR WIRE INDUSTRIES JOINT ANNOUNCEMENT

W.S.Tyler and Major Wire Industries are pleased to announce the next stage of their joint partnership. Both manufacturers equally complement one another with the industry's widest range of screen media solutions including Ty-Wire™ and Flex-Mat®3.

To more effectively serve the North American market, a new strategic plan is being implemented along the lines of each company's strengths and relationships. Taken into account are the multiple capabilities of W.S.Tyler in the manufacturing of screen media, vibrating screens, vibration analysis services and washing technologies for the mining and aggregate markets. Major Wire will continue to pioneer and focus on its Flex-Mat 3 brands of self-cleaning and OptimumWire® screen media.

Each company will maintain its key North American customers with the following guidelines:

- W.S.Tyler will continue to serve its key accounts, original equipment manufacturers and all customers requiring fine mesh and synthetic screen media. W.S. Tyler will supply woven wire to Major Wire's authorized dealers in Central and Western Canada. The W.S. Tyler company stores will sell synthetic screening media, fine mesh, equipment and related services.
- Major Wire will continue to sell through its authorized dealer network. Flex-Mat 3 will become the sole brand sold for the self-cleaning screen media market.

"Both companies bring together tremendous, well-earned strengths to the screen media market. Working together will allow each manufacturer to maintain its identity and serve its core customer base with the highest quality solutions and support," commented Walter Haver, managing partner of Haver & Boecker, shareholding company of both partners Major Wire Industries and W.S. Tyler.

Source: Haver & Boecker

OPENING DOORS FOR INCREASED ABORIGINAL INCLUSION

On February 25, 2014, the Aboriginal Mentoring & Training Association (AMTA), formerly the British Columbia Aboriginal Mine Training Association, announced it is making its Aboriginal workforce development solution available to resource-sector industries across the province. This will

open the door to increased Aboriginal workforce inclusion and contributions to Canada's provincial and national economies.

"Our mission, and the work we do, will not change," says Laurie Sterritt, AMTA's chief executive officer. "We remain committed to empowering First Nations to create economic health for themselves and their communities through skills training, education and career opportunities. What's

changed is that we'll be working with a broader group of resource-sector partners and companies, with more potential job opportunities for AMTA candidates."

Four years ago, representatives from industry, government, educational institutes and First Nations began AMTA with the goal of connecting Aboriginal people to jobs in BC's exploration and mining industry. The resulting Aboriginal workforce development model has challenged



The poster for the AORS Municipal Trade Show 2014 features a green background with a large white oval in the center. Inside the oval is a photograph of a red snowplow clearing a road. The text "AORS" is prominently displayed in white, with "ASSOCIATION OF ONTARIO ROAD SUPERVISORS" in smaller white text below it. To the right of the oval, the dates "June 4 & 5, 2014" and the location "Arnprior, Ontario in the beautiful Ottawa Valley" are written in white. At the bottom left, the text "EXHIBITORS – Reserve your booths today! Call 1-519-461-1271" is displayed. Below this, a paragraph describes the trade show as a two-day event for public/private sector public works employees to share information and technical developments in materials, services, and equipment required to build and maintain municipal roads and core infrastructure projects. It mentions that hundreds of suppliers of municipal equipment and services will be on hand, displaying their products in one area and developing new business relationships. At the bottom right, there are three circular logos: the top one is the AORS logo, the middle one is the Arnprior logo, and the bottom one is the Ottawa Valley logo. The website "www.aors.on.ca" is printed at the bottom center.

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assumptions about Aboriginal workers and has offered critical solutions for our industry partners.

"More than 200 employers have hired AMTA candidates because they are trained, certified to recognized industry standards and are ready to work," continues Ms. Sterritt. "Our roots will always be in exploration and mining, but we've created a business solution other industries want to adopt; a solution that benefits many First Nation communities and our provincial and national economies."

Companies working across the resource sector are looking for ways to respond to labor shortages within their own industries. Graham, one of Canada's largest construction companies, approached AMTA earlier this year, recognizing alignment in the two organizations' approaches to workforce development.

"Graham builds deep roots in the communities where we operate," says Trevor McGiveron, Graham's director, Strategic Accounts. "Whenever possible we hire locally, and we recognize the importance of building collaborative partnerships with organizations that help us do this. We're very impressed with the results AMTA has achieved in the mining sector, and are eager to work together to provide Aboriginal people with opportunities for skills upgrading, education and project-specific training in the construction sector."

Since 2010, AMTA has placed more than 715 Aboriginal people into jobs and has registered almost 2300 more in a variety of education, training and development initiatives. According to a report from Pricewaterhouse Coopers LLP (PwC), AMTA candidates contribute approximately \$137,000 to Canada's gross domestic prod-

uct, \$107,000 of which is realized in BC. This results in a total impact to the national economy of almost \$98 million annually.

AMTA provides a credible and proven Aboriginal workforce development solution to Canadian resource sector industries looking for workers. To learn more about AMTA, visit www.amta-bc.com.

Source: Aboriginal Mentoring & Training Association (AMTA)

AECON JV AWARDED JOHN HART GENERATING STATION CIVIL CONSTRUCTION CONTRACT

Aecon Group Inc. recently announced that a joint venture of Aecon (60%) and SNC-Lavalin Constructors Pacific Inc. (40%) has been awarded a contract by SNC-Lavalin Inc. for the civil construction scope of the John Hart Generating Station replacement project in British Columbia.

The Aecon/SNC-Lavalin Constructors joint venture scope of work for the project involves the construction of a new water intake at the existing John Hart Spillway Dam, replacement of three 1.8 km long above ground penstocks with a 2.1 km long tunnel, the construction of a new underground generating station, and a water bypass facility. Aecon's portion of this scope is expected to represent approximately \$225 million.

"Aecon looks forward to working on this significant hydroelectric project with SNC-Lavalin for B.C. Hydro," says Teri McKibbin, president & COO, Aecon Group Inc. "We are proud of our portfolio of hydroelectric projects and are pleased to be working on the John Hart project which will help maintain a reliable power supply for the region."

Work on the project is expected to commence in the second quarter of this year and is scheduled for completion by the end of 2018. An Aecon/SNC-Lavalin joint venture is also currently working on the Waneta Dam power plant expansion project in British Columbia.

Source: Aecon Group Inc.

ASTEC Builds 600th Warm Mix System

ASTEC, Inc., an Astec Industries company, reports that it has sold the 600th warm mix system since it began producing it in 2007. The 600th system will be installed at Delta Contracting in Humboldt, Tennessee.

The ASTEC warm mix system enables ASTEC's worldwide network of existing and new plant owners, who are all experiencing rising fuel and liquid asphalt prices, to lower their overall operating costs without sacrificing quality.

The ASTEC warm mix system allows producers to reduce fuel consumption, increase production, eliminate smoke and smell and use a higher percentage of recycle by producing mix at a lower temperature. The ASTEC warm mix system does not require the addition of expensive commercial additives. Instead, water is injected into the mix along with the liquid asphalt cement. The injection of water causes the liquid asphalt to foam and expand in volume, which helps the liquid asphalt coat the aggregate at a lower temperature.

When it was introduced in 2007 the ASTEC warm mix system was a major breakthrough in the warm mix asphalt technology arena that had been attempting to define a process that would provide both the desired "green" benefits of lowered emissions and lower overall production costs. Since that time, the ASTEC system has experienced phenomenal acceptance in the field.

The ASTEC warm mix system can be installed on either existing or new ASTEC drums. The ASTEC warm mix system can also be retrofitted to continuous mix and batch plants from any manufacturer.

Source: Astec, Inc.



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CONESTOGA COLLEGE STUDENTS AWARD-ED FIRST PRIZE IN NATIONAL COMPETITION

On World Plumbing Day, an annual international event that celebrates the important role plumbing plays in the health and safety of modern society, the Canadian Institute of Plumbing & Heating CIPH announced the winners of Canada's Most Water Wise School Competition. The

Institute's first-ever competition challenged students to identify an action plan to decrease their school's water footprint. The first place team from Conestoga College will share a \$3,000 prize, while runner-ups from the University of Ottawa will share a \$1,000 award.

In total, seven teams of students studying engineering, business, environmental

studies and other relevant fields from five colleges and universities participated in the competition. Schools represented include: Carleton University in Ottawa; Conestoga College in Kitchener; Holland College in Charlottetown; Mount Royal University in Calgary; and the University of Ottawa.

"CIPH was extremely impressed with all of the submissions, in particular the attention to detail given to analyzing the technical and financial aspects of water conservation and the creative ideas presented to help their school reduce water consumption," said Ralph Suppa, the Institute's president and general manager. "Given the positive response to this competition by students from across the country, CIPH is proud to commit to sponsoring an interdisciplinary case study competition on an annual basis."

Yearly, the World Plumbing Council, along with plumbing industry groups across the globe, celebrates World Plumbing Day to highlight the importance of access to clean drinking water and sufficient sanitation as well as the essential role the plumbing industry plays in keeping people safe and healthy. This year, communities across Canada have proclaimed Tuesday, March 11 as World Plumbing Day.

Source: Canadian Institute of Plumbing & Heating

Compact and Quiet: New CBC 40 Silent Cutter from Bauer Maschinen

Singapore's underground train network needs to be expanded. In order to meet the demands of urban planning and to obey the strict construction regulations of the city-state, Bauer Maschinen GmbH has developed a compact trench cutter with low noise emission – the CBC 40 Silent Cutter.

Construction company Songcheon is involved in the civil engineering work for the underground train shafts in the narrow streets of Singapore. To avoid having to rip out the full width of a street in the city already very limited in terms of space, the client required a cutter for which half of the street's width would suffice. This way, the traffic on the free side of the street can flow undisturbed.

The construction is being carried out in shifts. However, a machine that operates in the middle of Singapore for 24 hours a day must comply with strict regulations. For the CBC 40, this does not pose a problem – its noise levels are much lower than those of any other trench cutter on a standard piece of equipment. Furthermore, a modular system makes it easy to transport the machine.

With the CBC 40, Bauer Maschinen has succeeded in developing a machine whose upercarriage is only 8 m long, thus permitting maximum maneuverability even in the most confined spaces. In order to keep the dimensions small, the hydraulic power pack which enables extremely quiet operation is not attached at the rear as usual, but rather at the side. In Singapore, a crane usually used for milling, must comply with a number of other requirements. A specifically designed machine does not have to do that. And, the trench cutter CBC 40 with all its special features is one of those.

The client did not accidentally turn to Bauer Maschinen with this request. He already owns a CBC 33 – a model of which Bauer sold several pieces to Japan in the mid-90s, which has the same inner-city conditions with narrow streets. Impressed by its performance and compact dimensions, the client wanted a second cutter of this type. The CBC 40 was designed with new components and taking into consideration all modern standards. Other clients already expressed interest in this cutter. The CBC 40 heralds a new generation of equipment for assignments in urban environment – so called urban cutter.

Source: Bauer Maschinen GmbH



BIRD CONSTRUCTION ANNOUNCES NEW CONTRACT AWARDS

Bird Construction Inc. recently announced that it has been awarded new contracts totalling approximately \$300 million. The projects involve civil and building construction activity in each of its industrial, institutional and commercial sectors throughout its geographic operating areas, including a contract to construct a large condominium complex in downtown Toronto. Construction of the projects will commence immediately with expected completion dates extending into 2017. These project awards will be added to the Company's backlog in the first quarter of 2014.

"We are pleased with the start to our securement program during the first quarter of the year," stated Tim Talbott, Bird's president and CEO. "In addition to our record securement of work in 2013, these projects will support our extensive work program across the country as we commence construction of these exciting

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projects, many of which are for repeat clients of the Company."

Source: Bird Construction Inc.

GENALTA POWER TO BUILD 12 MW POWER GENERATING FACILITY

Genalta Power Inc. is pleased to announce that it has entered into an agreement with Baytex Energy Ltd. for the construction of an electrical power generating facility located near Baytex's Peace River Field in northern Alberta. The facility will be an industry leading power plant designed specifically to reduce the amount of solution gas being flared in the area while providing a new source of low emissions electricity for approximately 14,000 homes.

Genalta Power will engineer, own, and operate this power generation facility, which is forecast to be commissioned in late 2014.

"The project has been designed to the specific site conditions and exact gas composition using a combination of technologies that will produce power to feed directly into the Alberta power grid, displacing coal-fired base load generation," said Graham Illingworth, Genalta

Power's CEO. "In addition to making a positive impact on the environment, we will also have the opportunity to develop new, patentable technologies with numerous industry applications."

Genalta Power is a Canadian-based, clean electricity generation company, leading the way in energy generation from waste heat, liquid pressure, gas pressure and solution, vented and surplus gas applications. The electricity generated from these applications is one of the most promising growth industries in the clean energy sector.

Source: Genalta Power Inc.

MERRICK & COMPANY AWARDED MULTI-YEAR PROGRAM WITH ALYESKA PIPELINE SERVICE COMPANY

Merrick & Company's Surveying team is pleased to announce that it has been awarded a multi-year program with Alyeska Pipeline Service Company (Alyeska) of Anchorage, Alaska, to provide professional surveying services and remote sensing subject matter expertise. Alyeska was formed in 1970 to design, build, maintain and operate the Trans-Alaska Pipeline System, which transports oil from

Alaska's Prudhoe Bay to the Valdez Marine Terminal, approximately 1,300 km to the south.

Merrick is providing Alyeska access to a staff of professional land surveyors to perform various field survey operations supporting Alyeska's mission to provide safe, environmentally responsible, reliable and cost-effective oil pipeline transportation from the North Slope of Alaska. Merrick will base operations in both Anchorage and Fairbanks, Alaska.

Dave Huelskamp, Merrick's president and CEO stated, "The Alyeska program win is a huge step in Merrick's continued expansion in the energy market. We are excited to support Alyeska, and we look forward to providing innovative solutions to their challenging pipeline infrastructure, which is one of the largest oil & gas delivery programs in the world!"

Source: Merrick & Company

RITCHIE BROS. SELLS MORE THAN \$57 MILLION IN FIRST CANADIAN AUCTION OF 2014

Ritchie Bros. Auctioneers sold more than \$57 million of equipment and trucks at its first Canadian auction of 2014, held at its permanent auction site in Edmonton, Alberta in February. Close to 3,800 equipment items and trucks were sold in the two-day auction, including a large selection of oilfield hauling equipment, as well as construction, transportation and other heavy equipment items. Every item was sold unreserved, without minimum bids or reserve prices.

"Pricing was solid and bidding was very active throughout the two-day auction," said Jim Rotlisberger, regional sales manager, Ritchie Bros. Auctioneers. "In particular we witnessed strong demand for the heavy yellow iron in the auction – wheel loaders, motor graders, crawler tractors and excavators – as well as the bed and rig moving trucks. It was our first time holding an auction in February and even though it was very cold that week in Edmonton, our onsite attendance was still strong. We saw good participation both onsite and online, with 41% of the equipment purchases made by online buyers."

Almost 5,500 bidders from 49 countries, including all Canadian provinces, two Canadian territories and 37 U.S. states, registered to bid in person or online for the Edmonton auction.

Source: Ritchie Bros. Auctioneers

Hewitt Rentals Now an Authorized Distributor for Flygt Pumps

Hewitt Rentals Inc. announces that it has entered into a non-exclusive agreement with Xylem Canada for the distribution of Flygt submersible drainage pumps and sludge pumps in Quebec and the Maritimes. Thus, Hewitt Rentals Inc. adds these world-renowned products to the wide range of equipment it offers for rent and sale.

Flygt pumps meet pumping needs in mines, on construction sites, for public services and for the environment. Reliable and easy to install and maintain, these pumps offer a very favorable total cost of use.

"We are very pleased about this business agreement with Xylem, which will allow us to expand our offering of superior-class solutions to quickly and efficiently meet the needs of our customers in Eastern Canada", affirms Stéphane Guérin, president and COO.

Source: Hewitt Equipment Limited



Jim Hewitt (center, left), chairman and CEO, and Stéphane Guérin (center, right), president and COO, at the official signing of the agreement with Xylem's general manager, François Forget, on February 26 in Pointe-Claire, Quebec. The Hewitt and Xylem teams were proud to formalize this promising new partnership.



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SALT LAKE CITY'S AIRPORT LIGHT RAIL EXTENSION WINS GRAND AWARD FOR BEST CONSTRUCTION PROJECTS OF 2013

Salt Lake City's Airport Light Rail extension was the most significant construction project of 2013, the Associated General Contractors of America (AGC) announced on March 6, 2014. As a result, the project's contractors, Stacy and Witbeck and Kiewit Western, were the Alliant Build America Grand Award winner, while 19 other firms received awards in various categories.

The project also earned a merit award in the Marvin M. Black Partnering Excellence category and was recognized as an AGC in the Community Award winner.

"Projects like these reflect the qualities – elite skill, diligence and resolve – that have made the construction industry successful," said Paul Diederich, the association's president and president of Industrial Builders Inc. based in Grand Forks, North Dakota. "These contractors are setting the standard of excellence in our industry."

The Utah Transit Authority Airport TRAX project included a 10 km light rail extension connecting the Salt Lake International Airport with downtown Salt Lake City, which developed a brand new gateway to the downtown area. The joint venture team of Stacy and Witbeck and Kiewit also shortened a viaduct for the existing Union Pacific Railroad's active mainline and UTA FrontRunner tracks, minimizing the impact for more than 120 business, organizations and residential communities near the construction alignment. The project was completed ahead of the 2015 scheduled completion date and under the initial \$250 million cost projections.

The project also won the AGC Charities' AGC in the Community Award for the venture partners' in-depth community outreach program that created a long-term connection with local businesses and the community at-large. Field crews collected money for residents at Freedom Landing – a local transitional housing facility for veterans – for a full Thanksgiving dinner, as well as new community room furniture and a big-screen TV. Stacy and Witbeck and Kiewit employees also adopted local West High School, which primarily serves low-income students, and Neighborhood Youth Works, a youth guidance program.

The Alliant Build America Awards highlight the nation's most significant construction projects. A panel of judges, representing all areas of construction, evaluated an impressive number of submissions this year, assessing each project's complexity, use of innovative construction techniques and client satisfaction, among other criteria. The awards, which were announced during the association's annual convention in Las Vegas, are considered by many to be the most prestigious recognition of construction accomplishments in the U.S.

AGC in the Community Award winners are selected by a panel of judges representing all areas of construction. Award entries were evaluated based on the level of commitment, the scope of the philanthropic efforts and the quality of the benefits to the community.

Source: Associated General Contractors of America

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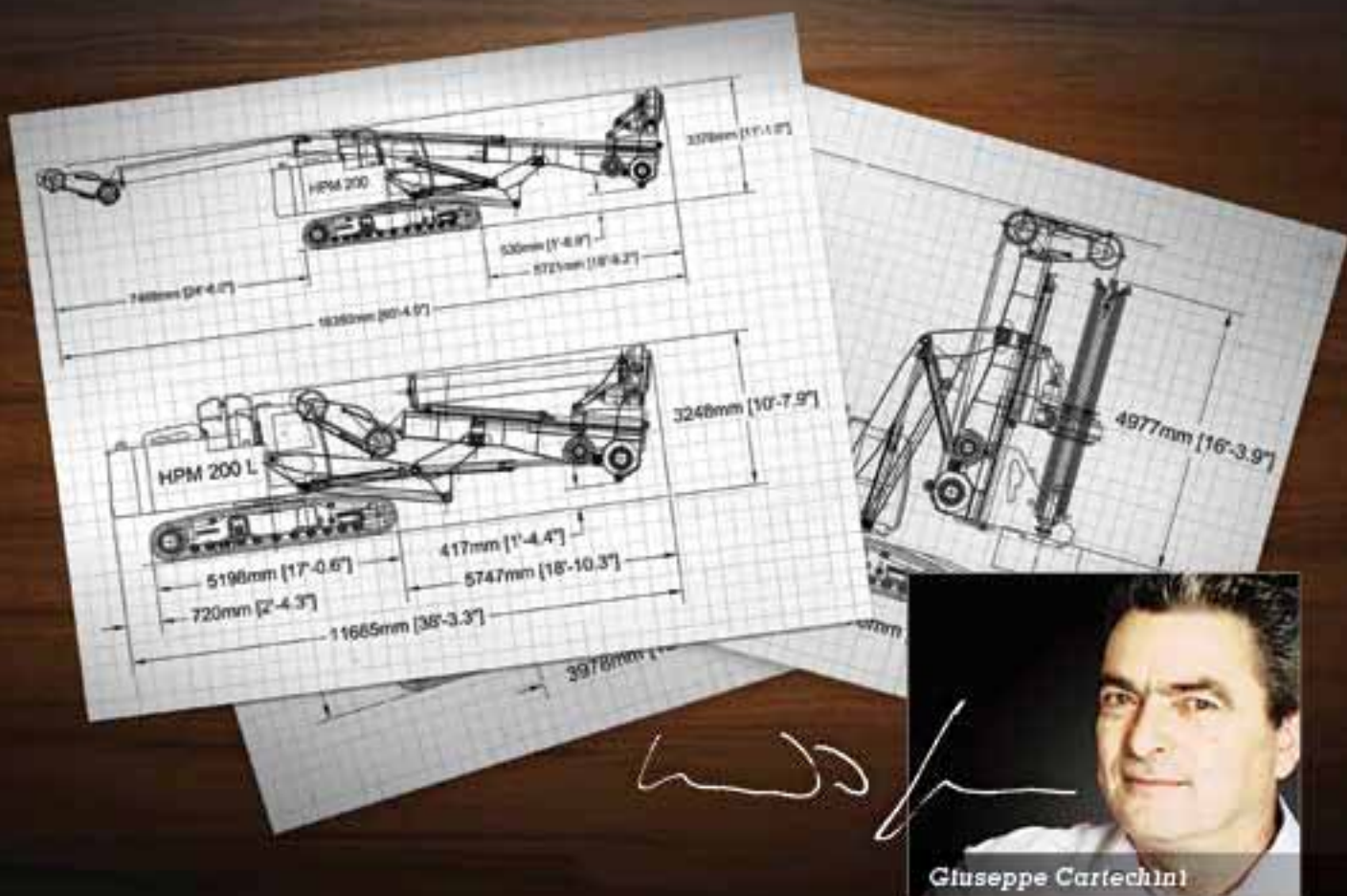
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Hatz Diesel at CONEXPO-CON/AGG

Motorenfabrik Hatz came up with a variety of new products at this year's CONEXPO-CON/AGG in Las Vegas. Most important the American introduction of the 4H50TIC, which is characterized by its compact design and the DOC-only emission concept. Developed with a consistent downsizing approach, the engine is especially tailored to customers in the U.S. and the EU.

Moreover, "Hatz Systems" division, which develops and sells entire systems based on the Hatz diesel engines, showcased a combination system, consisting of a climate compressor and alternator as well as the PM generator IPP (intelligent power pack).

Since January 2014 the engine line-up of the Motorenfabrik Hatz has been extended with a new member: the 4H50TIC (TIC: turbo intercooler). Like all Hatz engines this 2.0 l diesel engine also brings a number of technical innovations with it which make it the most compact in its class with the best power density compared to its competitors.

With 1952 cm³, the engine has a maxi-

mum power of 75 hp and a maximum torque of 177 lb ft (240 Nm), which is already available from as low as 1,600 rpm. Including starter and alternator, the engine weighs just 173 kg and thus saves 90 kg compared to its next competitor. Therefore the engine has by far the highest power to weight ratio in its power class.

Due to the new combustion process iHACS (intelligent Hatz Advanced Combustion Strategy) and an optimized combustion chamber geometry, combined with the sophisticated technology of the Bosch common rail system, which operates with injection pressures up to 1800 bars, the particulate emissions are considerably reduced. Therefore it is possible to conform to Tier 4 final emission standard without the use of a diesel particulate filter (DPF).

The engine also scores high marks with low cost of ownership with both a low fuel consumption and a long service interval of 500 h.



The 1D81C Aircon APU combines an air conditioning compressor with a generator and is driven by an air-cooled diesel engine. Application areas for the Aircon APU are primarily construction machines, which are driven by a large engine. On average,



Plant Control Redefined



The new Ammann as1Push line is designed specifically for simple and mobile plants.

The fully automatic control system is very simple to use. A specially developed manual operation function allows the operator to control the plant manually using "Soft Push Buttons".

Plant calibration is supported by corresponding "Wizards". Production reports and statistics are saved automatically in the background and can be read out at any time. as1Push is consistently aligned with the essentials and is the ideal solution for mobile mixing plants.

Source: Ammann



construction machines with large engines are working between 30 and 50% of the time in daily use and run on idle speed the rest of the time.

The Aircon APU supplies cooling air to the cab via the compressor and simultaneously charges the batteries of the machine. Depending on the requirements, the system can be operated with various Hatz engines. In addition to much lower fuel consumption, the Aircon APU gives security against upcoming non-idling laws in the U.S. that prevent the use of the main engine for air conditioning during idle time. Because of their compact size, the 1D81C Aircon APU can be easily integrated into existing applications.

Source: Motorenfabrik Hatz

Awards Event in British Columbia Celebrates the Best in Wood Building and Design

Ten years of Wood Design Awards in British Columbia were celebrated on March 3, 2014, by more than 350 distinguished design and building professionals in Vancouver including architects, structural engineers, project teams, local government, industry sponsors and guests. Nominees and winners of the Wood WORKS! BC 2014 Wood Design Awards were honored and recognized, as were those who have participated in the Wood Design Awards in British Columbia during the past decade.

Wood WORKS! is a national industry-led initiative of the Canadian Wood Council, with a goal to support innovation and provide leadership on the use of wood and wood products. Wood WORKS! BC provides education, training and technical expertise to building and design professionals involved with non-residential construction projects throughout British Columbia. The annual Wood Design Awards evening recognizes leadership and innovation in wood use, while being an opportunity to publicly honor and encourage continued excellence in the building and design community.

There were 113 nominations in 12 categories for the 2014 awards from all over the province, as well as some national and international project submissions, including projects in Qingdao, China and the Yukon Territory. All projects showcase distinctive and unique qualities of wood such as strength, beauty, versatility, and cost-effectiveness. The evening included a 10 year retrospective video journey which gave those who attended a glimpse of how wood design and building innovation has advanced over the past decade. Wood Champion award winners from the past 10 years credited the awards program for pushing innovation in design and building with wood and encouraging new types and sizes of buildings, beautiful aesthetics, increased structural performance and scale, and environmentally responsible design.

Mary Tracey, executive director of Wood WORKS! BC has been at the helm of the British Columbia awards evening since its inception. "We are truly in awe of the

teams, academics, industry sponsors and many others who have supported and participated in our awards program during this past decade."



*"Architect Award - Commercial Wood Design Award; Mike Mammone, Ratio Architecture - Interior Design - Planning; Salmon Arm Savings and Credit Union - Uptown Branch; Salmon Arm
Courtesy: Wood WORKS! BC*

innovative and unique ways that wood has been used both architecturally and structurally this past decade and this year is a milestone, as we celebrate and reflect on 10 years of excellence. The building and design community has amazed us again in 2014 with a continued exploration of the potential of wood, and showing us what is possible through their impressive structures," she said. Notable points about this year's nominations were the range of projects submitted and the variety of wood use – ranging from mid-rise light-frame wood construction to mass timber as a structural material.

"We are pleased and proud to be celebrating a decade of Wood Design Awards and look forward to another," added Mary Tracey. "We sincerely thank the architects, structural engineers, project

"Wood Design Award nominees and winners have left a meaningful legacy in our communities including sustainable human-centred buildings and streetscapes; structures that are true to our wood heritage; employment for people in forestry and wood products; and advancement of innovation in wood design and building which has put B.C. on the forefront nationally and indeed globally," concluded Ms. Tracey.

Source: Wood WORKS! BC



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Expanded Transmission Offerings for International DuraStar

Navistar, Inc. announced recently it is expanding its transmission offerings on the International® DuraStar® with the Cummins ISB 6.7 I engine. The company will now offer the Allison® 3000 Series transmission on its proven platform to deliver a combination of power, performance and reliability for a range of vocational applications including dump, utility and crane applications.

"We are excited to offer our vocational customers more choice by providing expanded transmission options for the DuraStar with ISB," said Bill Kozek, president, North America truck and parts, Navistar. "In addition to our transmission offerings, the DuraStar is available with the broadest array of engine offerings in the industry and backed by our extensive dealer network, providing superior after-sales support."

The DuraStar provides a swept back front windshield for improved visibility, a 50° wheel cut offering a tight turning radius



and a roomy cab for driver comfort. The vehicle also comes standard with Diamond Logic® electronic control system, one of the most advanced electrical multiplexing architectures available in commercial trucks. Diamond Logic maximizes ease of body integration and helps deliver a number of smart, customizable features for added convenience and safety.

The company also announced it continues to invest in its severe service and

medium-duty product lines by expanding vehicle enhancements and powertrain choices on International® brand vocational truck models. In addition, the company will add selective catalytic reduction (SCR) emissions technology to its high horsepower mid-range engines starting this summer.

The company's medium-duty SCR transition began in September 2013 with the International® DuraStar® and the Cum-



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mins ISB 6.7 I engine. MaxxForce® 9 and MaxxForce® 10 engines with SCR will be available exclusively on the International® DuraStar® and International® WorkStar® vehicles.

"Our medium-duty transition to SCR started strong with our DuraStar with Cummins ISB 6.7 and we have high expectations for this chassis/engine combination as we see the construction market continue to rebound," said Mr. Kozek. "We also know

a number of our customers require more horsepower and torque and we're pleased to offer these customers an expanded engine choice by adding SCR to our 9 I and 10 I engines."

The International® TerraStar® will also be offered with added enhancements. The Allison® Optimized 1000 Series transmission with an optional 6th speed is now available exclusively on the TerraStar. With the addition of the 6th speed, the close ratio, fully-

automatic transmission offers improved fuel economy, lower engine noise and optimized performance. The TerraStar also features a refined front suspension with a redesigned front spring and bumper. The suspension offers a smoother ride especially when driving over rough terrain.

Source: Navistar International Corporation

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Source: Hilti, Inc.



Chicago Pneumatic Launches Comprehensive Concrete Equipment Product Line

Global construction equipment manufacturer, Chicago Pneumatic, has announced the launch of its comprehensive new concrete equipment line. The range of products covers all facets of concrete finishing applications, including vibration, levelling, finishing, and cutting.

"The new product offering will provide contractors a superior alternative for any post-pour concrete application," explains John Vogel, executive vice president for Chicago Pneumatic Construction Equipment. "Additionally, contractors will receive the same high level of service and support that they experience for our other product lines through CP's global network of authorized distributors."

Freshly poured concrete contains air pockets that require vibration to increase the density and strength of the concrete. This can be achieved by utilizing a poker or a screed. Contractors can now select from a line of mechanical, or pneumatic pokers

from Chicago Pneumatic to meet the needs of the specific application.

The new durable and user-friendly VPM mechanical pokers are designed for mid-sized applications using medium-to-high slump concrete. For jobs of any size with low-to-high-slump concrete requiring high-speed vibration, the VPP pneumatic poker range delivers high-performance centrifugal force. With compressed-air cooling and low maintenance, these pokers are highly dependable even in the most remote locations.

The Chicago Pneumatic poker range is fully complemented by a wide selection of portable power sources. Mechanical pokers have a choice of gasoline or diesel drive units with rugged construction, rubber mountings to reduce vibration and noise, and quick-release couplings. A complete range of air compressors is available to run VPP pneumatic pokers on different job sites.

The new concrete product line includes walk-behind screeds that provide a consistent, even surface without any guide or supporting tube. Equipped with reliable Honda® engines, they offer reduced hand-arm vibration, with an easily-accessible ignition switch and throttle control for quick adjustments. The LBG 1200 hand-held screed provides surface vibration only; it is suitable for slabs of all types and concrete of all consistencies. Recommended for smaller slabs and medium-to-low slump concrete, the LBG 800 bull float screed provides deeper vibration and single-step levelling.

Screeding time, labor and transport costs can also be cut with the CP Combi-Form lightweight, leave-in-place screed rail system. CombiForm is easily prepared and cast into the concrete, providing an efficient levelling solution. Without requirement for concrete pre-levelling before screeding, it can also eliminate the need

40 CNG-Powered McNeilus Mixers Sold to Argos USA

McNeilus Companies, Inc., an Oshkosh Corporation company, has sold 40 McNeilus® Bridgemaster® ready-mix trucks to Argos USA based in Houston, Texas. The vehicles feature McNeilus' industry-leading next generation (NGEN) compressed natural gas (CNG) configuration that is engineered and fully tested at the McNeilus campus. The vehicles will be delivered beginning this spring.

"These 40 McNeilus Bridgemaster trucks are the first-ever CNG trucks purchased by Argos worldwide, and the purchase reflects our management team's commitment to go green," said Daryl Mizell, Argos USA sourcing manager. "We challenged several manufacturers to present a well-configured CNG ready-mix vehicle to us. After careful deliberation, we determined that the McNeilus CNG package is the best one available at this time."

Twenty of the vehicles are bound for Argos operations in Houston, and the remaining 20 will be delivered to facilities just outside of Dallas. Argos is constructing dedicated fueling stations – each with 25



fill posts – at both locations. The trucks will plug in at the end of each shift and time-fill overnight.

"Argos USA carries an excellent reputation for high-quality cement and concrete products and services, and we're thrilled to be chosen to engineer and build their first-ever CNG mixer trucks," said Brad Nelson, Oshkosh Corporation senior vice president and president of the Commercial business segment. "We've engineered and installed CNG power on more than 8,000 trucks in the field, and that experience translates to

alternative-fuel systems that work hard for our customers."

The identical mixer vehicles are a five-axle configuration, outfitted with an 8.4 m³ McNeilus drum and Bridgemaster tag axle. Each of the trucks features a 60 Diesel Gallon Equivalent (DGE) fuel tank, an automatic transmission, an anti-roll stability system, and wireless mixer controls.

Engineered with both the operator and the service team in mind, the McNeilus NGEN CNG system is designed for the rugged ready-mix concrete environment. The plumbing system is built with CNC-formed high-pressure lines, compression fittings, and fewer connection points to deliver more consistent and reliable fuel flow. The lightweight, natural gas vehicle (NGV) Type 4 tanks and long-lasting fuel storage



With efficient, reliable performance and low maintenance, they create long-lasting durable finishes for concrete slabs, industrial floors, parking lots and alleys. The STG 24 is a small power float edger intended for smaller slabs and finishing edges, especially in confined spaces and by walls. STG 36 and 46 are higher capacity trowels designed for larger slabs.

Completing the range are concrete and asphalt floor saws that deliver a straight, stable cut for expansion joints, to a maximum depth of 150 mm. They ease the operator's work with adjustable handles and ergonomically positioned controls.

for a floor saw.

Chicago Pneumatic's STG power trowels are ideal where smoother finished surfaces are essential. Models are available for jobs from small edging tasks to larger floors.

Both gasoline and diesel models are available, and both conform to Chicago Pneumatic's standards of reliability and simple maintenance.

Source: Chicago Pneumatic



Pictured here is a diesel-powered vehicle

Pods feature all-aluminum tank covers. The fuel control module is designed for either fast-filling or time-filling to fit customer preferences.

Argos USA employs over 2,300 people at its offices and 238 concrete plant locations, 3 cement plants and grinding stations, and 10 cement terminals. These facilities are located in Alabama, Arkansas, Georgia, Florida, Mississippi, North Carolina, South Carolina, Texas and Virginia.

Source: McNeilus Companies, Inc.

Doing Big Things in Small Places

From a vast army of workers to gargantuan machines to immense volumes of material being moved, almost everything about the Port of Miami Tunnel (POMT) project points to tunneling on a massive scale. Almost.

The star of this underground and underwater show is a Herrenknecht TBM, a colossal, worm-like piece of equipment nicknamed "Harriet" by a local Girl Scout troop. With her 12.3 m-diameter cutting head and a total length of 139.3 m, Harriet is boring through thousands of cubic meters of clay, dirt and sand, which is often mixed with coral and other materials, to create two 1,280 m traffic tunnels connecting Watson Island and the Port of Miami (Dodge Island) beneath Biscayne Bay in Florida.

But in the midst of all of the oversized equipment and machines, a strong contender for the best supporting nod goes to a relatively tiny machine: the Brokk 400. Bouygues Civil Works Florida crews are using the compact, remote-controlled and electric-powered machine to excavate five cross passages between the twin traffic tunnels. The passages will be essential to the safety of people who drive their vehicles under the bay every day.

UNDER-BAY EXCAVATION

The POMT project, launched in October 2009, consists of three primary components: excavation and construction of the traffic tunnels, connections to the Port of Miami's roadway system, and widening of the MacArthur Causeway Bridge. Bouygues Civil Works Florida is the

design-build contractor and one of the lead companies on the project.

When the twin tunnels are complete, they will run under what is known as Government Cut, the main shipping channel in Biscayne Bay. At their deepest points, they will be 36.6 m below the floor of the bay. Each of the 11.9 m-diameter tunnels will comprise two traffic lanes, curbs, walkways, ventilation fans and other safety



Bouygues Civil Works Florida crews are using the compact Brokk 400 (right) to excavate five cross passages between the twin traffic tunnels of the POMT project.

features. Eastbound traffic will be moving into the port and westbound vehicles will be heading out.

The cross passages will provide emergency egress for drivers and passengers. They range in height and width from 3 to 4.2 m, and from around 4.9 m to nearly 21.3 m in length. They are large enough to allow people to escape from one traffic tunnel to the other, and all five also will have additional room to store equipment for maintenance, pumping and other uses.

The Brokk 400 came to Miami courtesy of Alain Mazzia, Bouygues plant and equipment manager, who first ran into one of the compact machines several years ago on a nuclear waste project in France. On that job, Mr. Mazzia was part of the team that dug two 500 m-deep shafts, using a

Brokk to excavate galleries at the bottom. When he looked at the complicating factors of excavating the POMT cross passages, the Brokk came to mind.

His reasons for bringing the Brokk 400 to Miami were straightforward. First, at only 4.2 m long, 1.5 m wide and less than 1.8 m tall, the Brokk 400 is small enough to stay out of the way when it is working in the main tunnels, where crews and larger machines are constantly coming and going. It also has exceptional maneuverability and can move freely inside the relatively cramped space of the passages. Next, since it is powered by an electric motor, there are no dangerous emissions. And while the Brokk 400 is small, it is extremely powerful. With nearly 30,573 N (6,873 lbf) of breakout force, it can break through extremely hard and artificially reinforced ground. Finally, and most importantly, since it is remote-controlled, it removes operators and other crew members from potential danger.

"This is the perfect machine for this part of the project," said Mr. Mazzia. "With the cramped space, challenges in safe excavation and the need to stabilize the ground around the passages, the Brokk's power, precision, size and versatility make it ideal."

DIG, BREAK, HOLD, REPEAT

The miners start and finish each cross passage by first cutting a rectangular hole through the concrete wall of the main tunnel, using the Brokk 400 to break up and remove the concrete. Once they move beyond the entry and before they come too close to the point where the passage will connect to the other traffic tunnel, they put the Brokk to work with four attachments

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– a breaker, a drum cutter, a bucket and a beam manipulator.

First comes the quantitative excavation in which the crews use the Brokk's power with the breaker to remove the largest amount of material, break it down and size it. In areas where the ground is reinforced with grout or frozen for stability, they use the drum cutter, which excavates with less vibration. Then they use the bucket to load material into carts and remove it from the passage. The crews also use the Brokk, along with a specially designed beam manipulator, to place support ribs in the passages.

The qualitative excavation takes advantage of the precision and sensitivity of the Brokk's remote control to approach what Gregory Berger-Sabbatel, the cross passages field engineer, calls the "theoretical excavation limits" without over-excavating. These are areas outside of the passage's predetermined dimensions, or near the end of the passage where it will intersect with the traffic tunnel.

Steel support rib installation has provided a unique challenge, and Brokk retooled



its standard beam manipulator specifically for the job. The ribs are horseshoe-shaped or circular, depending on the passage in which they are being placed. They come in several sections that need to be connected, and the full assembly needs to be attached to the inside diameter of the cross passages before excavation can move forward. In all of the tunnels, the ribs are placed at 1 m intervals.

The Brokk 400's innovative three-arm design, which expands its reach both horizontally and vertically, comes into play in placing the ribs. The beam manipulator grasps the top section of a steel rib, carries it to the installation point, lifts and positions it, then holds it in place while miners bolt the lower sections to it. With the ribs in place, the miners install wire mesh around the walls and ceiling and a contrac-



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tor applies shotcrete. Then the process starts over again: mine, break and remove materials, reinforce with ribs, install wire mesh and apply shotcrete. Changing attachments before each task takes no more than 15 minutes.

"The multiple attachments, and how easy they are to put on and take off of the Brokk, really save time," said Éric Deltour, the Bouygues cross passages superintendent. "We keep them at the entrance to the cross passage so they're ready when we need them. When we change tasks from excavation to spoil removal to rib installation, changing tools is quick and efficient."

But before speed and efficiency, the primary concern for this type of project is safety. "The main danger in any mining is a ground collapse, and there is more of a chance for that during the quantitative excavation," said Gregory Berger-Sabbatel. "With the Brokk, the operator can stay out of the way with the remote control. The machine is the only thing out front, so everybody is safe."

POWER AND INTENSITY

August Scalici, the field sales application expert at Brokk and an experienced miner himself, trained Éric Deltour, Gregory Berger-Sabbatel and the crew members who are now excavating the cross passages. "It's an intense process," he said. "They have to keep water out while they're digging the passage, and when it's done, it has to be water tight and withstand the extreme pressure of the dirt on top of it. These guys are pros, and it's pretty interesting to see how it's all getting done."

Getting it done, Mr. Deltour said, requires leveraging all of the strengths of the Brokk that attracted Mazzia to the machine in the first place. For example, the small size comes into play not only inside the cross passages, where the Brokk can maneuver easily compared to other machines, but also in getting into the cross passage in the first place.

"The most challenging aspect is definitely the confined space," Mr. Deltour said. "This is different than traditional mining, where the miners have room to excavate. Also, the openings from the main tunnels into the cross passages are relatively small compared to the size and volume of the



A close-up view of the beam manipulator designed specifically for the POMT project by Brokk's sister company, Kinshofer. Crews are using the remote-controlled Brokk 400 and this beam manipulator to pick up and maneuver the steel support ribs into place in each cross passage.

excavation we're doing. With the Brokk, our crews are able to get right in there and easily get the excavated material out."

The Brokk's power has been on full display as it has broken through materials being used to reinforce the soil and reduce the potential for cave-ins. "We're treating the ground prior to the excavation, and in some cases during the excavation, to increase the ground strength," Mr. Berger-Sabbatel explained. "It keeps the cross passages stable and minimizes risk."

The soil is being stabilized around the cross passage excavation areas in two ways. The first method consists of creating a cohesive and watertight plug from the surface with Cutter Soil Mix panels completed by Malcolm Construction Company out of San Francisco, California. The second method is to freeze the ground by super cooling the water in the soil. This is accomplished by circulating chilled liquid brine through

small pipes. Nicholson Construction Company, from Cuddy, Pennsylvania, is drilling and installing the freeze pipes and Moretrench, from Rockaway, New Jersey, is handling the freezing process.

Not to be overlooked is the Brokk's precision, which has been a must because the locations of cross passage openings in both traffic tunnels are predetermined. "Before the excavation even begins, our surveyors align a laser along the cross passage," Gregory Berger-Sabbatel explained. "This gives us offsets from the laser point so we know how much left, right, up or down we need to excavate. The accuracy of the Brokk makes it much easier to follow the alignment given."

THE LITTLE BIG GUY

If everything remains in alignment and on schedule – in the tunnels where Harriet is eating her way from one side of Biscayne Bay to the other and in the small cross passages where the Brokk continues to make headway rib by rib – the POMT project will be completed and open to traffic in May 2014.

When it is all said, done and dug, there will be lessons learned for the companies who took on the project. For the men who



After the support ribs are secured and shotcreting is completed, the Bouygues Civil Works Florida crews install waterproof covering. The forms attached to the far wall are in place to aid in the construction of the eventual access door.

relied on the Brokk 400 to excavate and fortify the five cross passages, it is this: even when you are talking about tunneling on a massive scale, never, ever underestimate the little guy.

Source: Brokk Inc.

SSAB at CONEXPO-CON/AGG

Hardox has literally set the standard for wear plate all over the world with its unparalleled combination of hardness and toughness. Visitors to CONEXPO-CON/AGG 2014 were able to see video of impact tests clearly demonstrating the huge savings in weight and gains in strength and wear resistance resulting from using Hardox. Using mild steel as a reference another display showed how the various grades of Hardox wear plate increase service life of wear areas. Samples of SSAB's impressive – and unmatched – range of types, grades, widths and thicknesses of high-strength steels were also on display. Plus details of the company's Hardox Wearparts program and unparalleled customer support.

Thickness used to be a limitation, but now SSAB offers wear plate in thicknesses from 22 gauge (0.7 mm) to 6¼" (160 mm). Combined with new dimensions and its

ability to double as structural steel, this allows even greater creativity and opens up new possibilities.

SSAB also displayed its unparalleled product portfolio: Hardox wear plate, Weldox structural steel for heavy and demanding applications, Domex structural steel for sustainable and lightweight solutions, Toolox pre-hardened engineering and tool steel, and overlay plate, pins and pipes.

However, the wide range of wear plate



BIM, Point Cloud Workflows Among Hot Training Topics at HxGN LIVE 2014

Preliminary details have been released for the Geosystems track and hands-on training sessions at HxGN LIVE 2014, and the schedule already highlights numerous opportunities to learn about key trends and innovative solutions shaping fields such as surveying, engineering, construction and mining. The global technology conference and networking event will be held June 2-5 at the MGM Grand in Las Vegas and will feature hundreds of practical sessions and over three football fields of innovation.

This year's conference includes the most training sessions ever offered at the conference, with more than 21 available courses providing the equivalent of 84 hours of training time. Topics include Cyclone tips and tricks; registration techniques; easy-to-use point cloud plug-ins for CAD, such as Leica CloudWorx; and laser scanning for forensics. Attendees will also have the opportunity to preview the next beta version of Cyclone, which promises easier, more flexible implementation and exciting new tools.

BIM is a major focus of the conference, with training courses offered on popular topics such as concrete flatness scanning; progressive scanning for coordinating the built structure and mechanical, electrical and plumbing (MEP) systems; and scanning workflows on preconstruction for MEP.

Other training sessions will focus on increasing field productivity with SmartWorx Viva and STAR*NET; creating impressive deliverables with the Pegasus Software Suite; and streamlining workflows with the MS50, Infinity and MultiWorx hardware and software package.

"There are a lot of great classes and interaction, but the real value is in the integration of technologies," said Greg Perkins, LS, technical sales and support representative for Leica Geosystems. "You have the opportunity to learn how to apply a solution like the MS50 in a surveying operation, with the entire workflow laid out, and then you can go down the hall and learn about high-definition scanning, and you can learn about monitoring. So you can see the whole process."

Seats are limited in all training courses, so early registration is encouraged.

Source: Leica Geosystems Inc.

grades, widths and thicknesses offered by SSAB would not bring the benefits of longer service life and higher payload to end-users if manufacturers were not able to form, cut and join the plates in their workshops. The balance between hardness, toughness and workability – regardless of grade or thickness – is the key to the remarkable success of Hardox.

Customer support has played a key role in SSAB's success. SSAB has a long tradition of providing assistance in design, wear, workshop techniques and production efficiency, as well as customer-specific innovation support. SSAB goes beyond offering technical support but also collaborates with customers to develop innovative products through its Knowledge Service Center. Support is always tailored to the customer and the solution so it is not surprising that more than 75% of SSAB's customers work with SSAB on development projects.

SSAB is also celebrating not only 40 years of manufacturing Hardox wear plate, now firmly established as the global benchmark for wear-resistant steel plate, but also that Hardox is now produced in the U.S. following the completion of a new quenching line at SSAB's steel plant in Mobile, Alabama. Built as part of a \$300 million project, it is the world's most modern quenching line and raises SSAB's U.S. quenched and tempered plate capacity by some 220,000 t/y.

Source: SSAB

Philippi-Hagenbuch Introduces Revolutionary Cutter

Philippi-Hagenbuch (PHIL) has introduced its newest patent-pending invention from LeRoy Hagenbuch, P.E., the Rolling Wedge™ Cutter. It offers an innovative material-cutting approach that could dramatically improve material trenching and mining processes while improving cut size and reducing cutting (coal) dust by as much as 50%.



The Rolling Wedge Cutter is a solution for trenching and mining through challenging environments for general construction, road construction, mining and utility ap-

plications. It can be used in aboveground and underground environments, and can create time efficiencies and accomplish techniques that were previously thought very difficult, and in some cases, unachievable.

The greatest benefit of using the Rolling Wedge Cutter is that 60-70% less energy is required to roll material out in tension



than the sheer, brute force required to take materials past their compressive strength. Instead of blasting material apart by exceeding its compressive strength through



brute force, which has been the traditional method, the Rolling Wedge Cutter places material in tension and pulls it apart by overcoming the material's tensile strength. When put in tension, material such as concrete has just one-fifth the tensile strength of its compressive strength.

Because of that, the Rolling Wedge Cutter curtails the challenges associated with trenching and mining through difficult materials such as concrete, concrete with

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rebar, frozen ground and pavement. It causes less disruption to the ground underneath streets and roadways than backhoes and jackhammers forcing their way through pavement. It eliminates the need to wait for the ground to thaw by allowing users to trench or cut through materials without jackhammers, saws or other cutting devices. And users who want to break up a chunk of concrete can just drill a small hole and drive in a Rolling Wedge Cutter.

The Rolling Wedge Cutter adapts easily to many makes and models of trenchers and mining equipment. It is constructed out of hardened steel and is available in various sizes, from 19 to 228 mm diameters. It can be outfitted with a host of optional tips to meet the specific needs of a project, and the company is currently developing cutters for specific cutting applications. The width of the trench dictates the total number of cutters required.

With the Rolling Wedge Cutter, PHIL continues in his long-held vision of designing solutions that improve productivity while maximizing efficiency.

Source: Philippi-Hagenbuch, Inc.

CTE at MusikMesse Exhibition

CTE has participated at the International exhibition MusikMesse, held in Frankfurt, Germany, from March 12-15.

The CTE main product was the stairclimber Pianoplan, the little ideal companion for the handling of musical instruments and generally heavy and bulky materials.

Thanks to the hospitality of the CTE French partner Pianolift, CTE has received visits from a lot of foreign visitors interested in the Pianoplan product, characterized by easy of use and great capacity.

Pianoplan is available in 3 different version: standard, vertical or horizontal (the difference is between the loading platform height), all with 600 kg of maximum loading capacity and with a loading autonomy of about 50 floors.

Thanks to these characteristics, Pianoplan is the ideal product for moving safes, air compressors, air conditioners, lift motors and many other bulky and heavy objects.

Source: CTE SpA



McCloskey Announces New Product Division at CONEXPO/CONAGG 2014

McCloskey International unveiled a new product division at CONEXPO/CONAGG, held in Las Vegas, Nevada, from March 4-8, 2014. The McCloskey Trenchless Equipment Division will supply Horizontal Directional Drilling (HDD) Equipment to oil and gas, construction and development companies, as well as utilities including communication, power, gas, and water.

"Through this new division we position ourselves well in the North American HDD market as we continue to develop and deliver products that boost productivity and profit for our customers," said Paschal McCloskey, president and CEO of McCloskey International. "The drilling business is a natural fit for us."

The McCloskey TR-14 Horizontal Drill Rig sets a new standard in HDD with the most torque and horsepower in the smallest footprint in its class. An advanced electric hydraulic system delivers more horsepower to the ground, better fuel efficiency and guarantees 62 275 N (14,000 lbf) of thrust/pullback while simultaneously delivering 2169 Nm (1600 ft lbf) of torque rotation.

The TR-14 and TR-40 boast a fully featured microcomputer supporting internet and satellite communications, while interactive diagnostics alert operators to service and supply needs, as well as when to order parts and regularly scheduled maintenance.



Combining brains and brawn, the rugged and reliable TR drills are ready to tackle the toughest jobs.

Source: McCloskey International Limited

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Work Truck Show 2014 Success Reflects Rebounding Industry

Indianapolis, Indiana, was once again the center of the vocational truck universe as more than 10,000 industry professionals gathered for The Work Truck Show® 2014, March 5-7 at the Indiana Convention Center. The event featured significant new product introductions, a day-and-a-half Green Truck Summit, more than 60

the Show as a platform to announce new partnerships and technology adoptions. For example, UPS and the Propane Education & Research Council (PERC) announced that UPS is buying 1,000 propane delivery trucks and building 50 fueling

stations for a total investment of approximately \$70 million.

One of the hottest areas in the work truck industry in recent years has been the development of sustainable technology. This trend has driven



educational sessions, and a record number of ride-and-drive opportunities.

"The success of this year's Work Truck Show is reflective of the slow but steady growth our industry is currently enjoying," says Steve Carey, National Truck Equipment Association (NTEA) executive director. "Vocational trucks and equipment are the tools that millions of people rely on every day to get their jobs done. As the economy improves and budget restrictions ease, vocational fleets are able to start replacing older equipment. The Work Truck Show offers the best opportunity to see and try the latest products, get questions answered and develop a better understanding of industry trends, all in one place at one time."

The Work Truck Show is produced annually by NTEA – The Association for the Work Truck Industry. The event's educational conference, including the popular Green Truck Summit, kicked off on March 4. Altogether, 10,160 people attended The Work Truck Show 2014, making it one of the best-attended events in NTEA history.

More than 100 new products were introduced at the Show, including the 2016 Ford F-650 and F-750, Mitsubishi Fuso Truck of America's 2015 Canter FE130 cabover work truck, and many technology developments designed to improve work truck fuel utilization. Several companies also used

the ongoing popularity of the Green Truck Summit and the Green Truck Ride-and-Drive at The Work Truck Show. At the 2014 event, attendees had the opportunity to test-drive nearly 30 "green" vehicles for themselves between the Green Truck Ride-and-Drive and the new PERC-sponsored Propane Autogas Ride & Drive.

The NTEA 50th Annual Convention was held in conjunction with The Work Truck Show 2014. At the Show, NTEA celebrated 50 years of serving the industry with

special NTEA member giveaways, displays in the NTEA Member Lounge and a photo retrospective during the President's Breakfast and NTEA Annual Meeting with keynote speaker Condoleezza Rice.

The Work Truck Show returns to Indianapolis March 4-6, 2015. Educational programming begins March 3. Exhibit space on an even larger Show floor is already 99% sold out.

Source: National Truck Equipment Association (NTEA)

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Elgin Sweeper Offers Consolidated Configuration on Eagle® Mechanical Sweeper

Elgin Sweeper, the leading manufacturer of street sweepers for general street maintenance, special industrial and airport applications, has introduced a consolidated platform on the Eagle® mechanical broom sweeper that incorporates the best features, systems and components of the Eagle, Broom Bear® and Road Wizard® sweepers that make up the company's four-wheel mechanical sweeper line. The redesigned sweeper features added water capacity, streamlined controls, a wider conveyor, improved dump height and maintenance access, and a choice of cabover or conventional chassis, while delivering the same reliable, heavy-duty performance customers have come to expect from the Eagle since its introduction by Elgin Sweeper in 1988.

"As a result of years of extensive customer input, engineering and field testing, Elgin Sweeper has developed a common platform that includes the best features of the four-wheel mechanical sweeper line – along with some additional configuration options not previously available on any of the three models," said James Crockett, sweeper products manager at Elgin Sweeper.

Elgin Sweeper customers and sweeper operators familiar with the Eagle sweeper will notice that the new Eagle configuration looks different. The sweeper's exterior now more closely resembles the profile of the Elgin Broom Bear and Road Wizard models. Steel enclosures on the previous Eagle sweeper have been replaced with robust, lighter weight and corrosion-resistant fiberglass enclosures.

The new configuration also includes a low-emission, 74 hp Cummins diesel engine – one of the most powerful standard auxiliary engines available on a mechanical sweeper – without compromising the performance of the sweeper system.

The Eagle features a high-productivity sweep system mounted on a cabover or conventional chassis with a five-speed overdrive automatic transmission. The standard chassis cab is dualized with OEM parts, including full factory controls, steering, and an OEM gauge package that is identical for both left- and right-operator stations.

The Eagle's standard conveyor uses molded-in, full-width cleats that move large debris without jamming. High-strength belt material provides long wear and maximum uptime for a wide range of applications, including highway sweeping, general municipal sweeping, and pick-up of trash, leaves and other organics.

The conveyor is controlled from in-cab, in both forward and reverse direction. A built-in washdown makes cleanup quick and easy.

The sweeper is also available with an optional elevator squeegee-style conveyor for road construction contractors performing applications such as aggregate and granular material pick-up of gravel and millings. The conveyors are variable-speed-dependent on engine speed, providing maximum on-the-go productivity and ease of cleaning.

The sweeper's control console, located between the operator stations, has been streamlined to provide quick, easy access for increased productivity and safe operation. "The 'one-button' automatic return-to-sweep greatly improves operator efficiency," Mr. Crockett said. "For added safety, tactile-feel controls allow the operator to control switches while keeping his eyes focused forward on the road."

The Eagle is available with an optional dry dust control system that is ideal for industrial applications where heavy, dry materials must be swept up, while keeping dust emissions to a minimum.

The 2.75 bar (40 psi) self-priming diaphragm pump (run dry type) on the Eagle sweeper provides effective dust control.



The machine features a 1,360 l, corrosion-resistant polyethylene removable water tank – a 29% increase in water capacity over the previous Eagle model – for long sweep times between refills, and a 5.1 m fill hose. Water flow for the side and main brooms is controlled in-cab.

For greater stability and trouble-free operation, the Eagle's 3.4 m³ hopper features a center-mounted, double-scissors lifting mechanism rated at 4,990 kg. The dumping height is variable up to 3 m. An 279 mm side shift allows for a cleaner, more efficient unloading of material.

Payload capacity on the Eagle is 4,536 kg per load. A full hopper on the Eagle can dump and retract in 20 seconds for short intervals and up to 70 seconds at top height.

Additional options on the Eagle mechanical broom sweeper include side broom tilt, an outside cab with side broom down-pressure control, an outside cab with main broom down-pressure control, side broom speed control, LifeLiner hopper system, strobe lamp, arrow stick, automatic lubrication system, front spray bar and squeegee conveyor with rubber edging.

Source: Federal Signal Corporation

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Appointments

Astec Industries group president **Joe Vig** has been named Grasstops CEO of the Year by the **National Stone, Sand and Gravel Association** (NSSGA).

The Grasstops CEO of the Year award honors the chief executive officer who has been particularly active in recruiting those outside the aggregates industry in advocating for transportation, as well as setting an example for employees regarding the importance of participating in the grassroots program. Mr. Vig was presented with the award during NSSGA's annual convention in Las Vegas, Nevada, on March 4, 2014.

Mr. Vig's contributions include meeting with numerous members of Congress and congressional staffers, as well as hosting elected officials at KPI-JCI and Astec Mobile Screens' manufacturing facilities, to discuss the need for reauthorization of the surface transportation bill and to find a sustainable source of revenue to fund the program.

Pam Whitted, senior vice president of legislative and regulatory affairs at NSSGA, said Joe Vig has been a "tireless advocate" for surface transportation reauthorization, urging action before expiration of the current law and insolvency of the Highway Trust Fund.

This year marks the third annual "Growing Forward" grassroots recognition program presented by NSSGA. The program was designed to build member participation in the organization's advocacy efforts.

Source: National Stone, Sand and Gravel Association



KPI-JCI and Astec Mobile Screens has promoted **Ryan Newman** to director of parts sales for the company's three manufacturing facilities.

Mr. Newman, who has worked for the company's Yankton, South Dakota, manufacturing facility since 1999 and has served as parts manager since 2010, will assume his new position May 1. He replaces Unajean Peaks, who retires April 30 after 40 years in the industry.

In his new position, Ryan Newman will plan and implement sales, marketing and product development programs for parts in new and existing markets. He is also responsible for establishing parts policies and pricing, as well as managing training. In addition to his new duties, Mr. Newman will continue his responsibility as parts sales manager for the company's Yankton manufacturing facility.

Source: KPI-JCI and Astec Mobile Screens



Wayne Chodzicki has joined **Mertex Canada Inc.** as a director and president. In this role, he will be responsible for the strategic direction, operation and expansion of the company. Prior to joining Mertex Canada, Mr. Chodzicki was the partner in charge of the Canadian and International Oil and Gas practice for KPMG, an international advisory firm. He is currently the Past-Chair of the Energy Council of Canada. Wayne Chodzicki is a native Albertan who is active in the Calgary community.

Mertex Canada is headquartered in Calgary, Alberta and supplies high quality piping, casing and tubular products to the oil and gas industry for down-hole drilling projects. The company is dedicated to providing products that are manufactured and controlled by highly-trained personnel and produced under the best quality standards, in a convenient and timely manner. Mertex Canada aims to be the foremost trusted and distinguished distributor of oil country tubular products (OCTG) in Western Canada.

Source: Mertex Canada Inc.

Mark Woody takes on role of 50th president of the **National Truck Equipment Association** (NTEA).

The NTEA, which was founded in 1964, represents a total of more than 1,600 companies in the truck sector, making it the most important association for the American truck industry.

Mark Woody, president of PALFINGER North America, succeeds outgoing Shawn Jacobs, president and CEO of STS Trailer & Truck Equipment. Mr. Woody was officially appointed during the Work Truck Show 2014, the North America's biggest truck event.

"I look forward to filling this role and am driven to work hard to lead the NTEA during its 50th year of serving the work truck industry", said Mr. Woody.

Mark Woody has been supporting the PALFINGER Group in various roles over the past 20 years – initially as director of sales & marketing and, since 2001, in his current position as president and area manager.

PALFINGER North America has more than 1,000 employees and produces and develops a wide range of innovative lifting, loading and handling solutions for use on commercial vehicles. These include knuckle boom cranes, forestry/recycling cranes, truck bodies, liftgates, aerial lifts, cable hosts, hook-lifts, mechanic trucks and truck-mounted forklifts.

Source: PALFINGER North America



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Agenda

Truck World 2014

April 10 - 12, 2014
Toronto, ON Canada

NASTT's 2014 No-Dig Show

April 13 - 17, 2014
Orlando, FL USA

IEEE PES T&D Conference & Exposition

April 15 - 17, 2014
Chicago, IL USA

IFAT

May 5 - 9, 2014
Munich, Germany

BtpExpo

May 8 - 10, 2014
Liège, Belgium

SaMoTer & Asphaltica in Verona

May 8 - 11, 2014
Verona, Italy

APOM Technical Day

May 9, 2014
Saint-Basile-le-Grand, QC Canada

CIM Convention 2014

May 11 - 17, 2014
Vancouver, BC Canada

AORS Municipal Trade Show

June 4 - 5, 2014
Arnprior, ON Canada

road&traffic - International infrastructure and public transport exhibition / Transcaspian 2014-Transport and Logistics exhibition

June 12 - 14, 2014
Baku, Azerbaijan

International Rental Exhibition (IRE) / European Rental Association (ERA) convention / APEX 2014 (aerial platform exposition)

June 24 - 26, 2014
Amsterdam, the Netherlands

Hillhead 2014

June 24 - 26, 2014
Buxton, UK

APWA 2014 International Public Works Congress & Exposition

August 17 - 20, 2014
Toronto, ON Canada

APOM Technical Day

September 5, 2014
Asbestos, QC Canada

Pacific Heavy Equipment Show / TRUXPO 2014

September 19 - 20, 2014
Abbotsford, BC Canada

International Mining Conference & Exposition (IMEX2014)

September 23 - 25, 2014
Las Vegas, NV USA

INTERROUTE & VILLE

October 7 - 9, 2014
Lyon, France

**INTERROUTE
& VILLE 2014**
CENTRE DE CONVENTIONS - HOTEL DE VILLE DE LYON

WaterSmart Innovations Conference and Exposition

October 8 - 10, 2014
Las Vegas, NV USA

Expo-FIHQ 2014

October 29 - 31, 2014
Montreal, QC Canada

Work Truck Show

March 4 - 6, 2015
Indianapolis, IN USA

World of Asphalt & AGG1

March 17 - 19, 2015
Baltimore, MD USA

inter airport South East Asia - Singapore

March 18 - 20, 2015
Singapore

INTERMAT 2015

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