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A Brief Word...

Forgive me for a bit of self-indulgence in this issue but, as I write this, I have learned some tragic news about a former colleague.

James Hankins, 85, was shot in the head on his front lawn. He worked for Duraco and helped me do my first Durapatcher demonstration in a snowstorm in Humboldt, Saskatchewan. They don't do snow tires in Mississippi, and I was sure we'd lost him when he slid across the Trans-Canada in blizzard conditions at an intersection.

A business is more than just the product or service it offers. As cliché as it may sound, a business succeeds or fails because of the people who work there. Sweeper to senior executive, all play a part in creating a living entity that interacts with customers and other businesses. In this age of technocratic accountancy and disassociated shareholders, people still make it happen for the most successful.

Richard Branson knows this even if Corporate America chooses to forget it.

I think of a man I didn't know well, but liked, who was there to get me started on a long and fruitful run. I am grateful to have known him and saddened, not for his loss, but for the shameless way in which he died.

If you know someone in your organization who means something to your success, let them know.

Thank You,

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On the cover:

Les Entreprises Michaudville Inc. is using its new Grizzly MultiGrip™ vibratory driver to install sheet piling on a tunnel water pipe jobsite in Montreal, Quebec.

The Grizzly MultiGrip™ is designed and manufactured in Roberval, Quebec, by Les Produits Gilbert Inc.

NEW YORK CITY ACCEPTS HIGH STRENGTH STEEL DESIGNS USING ASTM A1035 REBAR

The New York City Buildings Department recently published Buildings Bulletin 2015-036, allowing for structural designs using high strength Grade 100 concrete reinforcing steels in the city. Through the issuance of the bulletin, the city accepts designs employing the 100,000 psi yield strength of ASTM A1035/A1035M-15 rebar, clearing the way for applications of MMFX

high strength Chr mX® rebar and efficient high rise construction.

By applying high strength steel reinforcement designs in high rise buildings, designers can solve costly rebar congestion problems and developers can complete construction more quickly, resulting in substantial savings. Using high strength Grade 100 rebar, such as ChrōmX 2100 (ASTM A1035), in high rises allows for substantial reduction in steel of up to 40%,

and reductions in related fabrication and placement costs of up to 60%. There are also additional potential efficiencies in construction design, such as narrowing shear walls and columns or thinning mat foundations, resulting in significant savings in costs and time.

"ASTM A1035 is now the only 100 ksi reinforcing steel allowed in any New York structure, the only reinforcement over 80 ksi that can be used in beams and slabs, and the only 100 ksi reinforcement that can be used in Seismic Design Categories A, B and C," said Tom Russo, MMFX Steel Corporation CEO. "Designing at these higher strengths using this new bulletin and ChrōmX (A1035) rebar will result in up-front construction cost savings, as well as increased construction efficiencies and eased logistics, benefiting contractors, developers and city residents."

Specifically, Buildings Bulletin 2015-036 allows designs up to 100,000 psi yield using ASTM A1035 reinforcement in accordance with ACI 318, as modified by ACI ITG 6R-10 and ICC-ES AC429. The bulletin allows applications of ASTM A1035 Grade 100 reinforcement in longitudinal and transverse members, including slabs and beams, in Seismic Design Categories A, B and C.

With the adoption of Buildings Bulletin 2015-036, New York City joins other major high rise markets such as Miami and Seattle that are already applying high strength rebar designs in high rise towers. The timing of this bulletin is beneficial to design teams and developers with high rise projects planned across New York City. These projects stand to immediately benefit from applications of high strength steel designs as they reach higher and higher to make the most of the city's precious real estate.

For example, the 111 West 57th Street residential tower being constructed by JDS Construction Group in partnership with Property Markets Group will reach over 426 m into the sky. With a width to height ratio of only 1:23, it will be the narrowest tower in the world.

Other projects currently in planning and construction such as One Vanderbilt (461.4 m), Nordstrom Tower (472.4 m), 432 Park Avenue (425.5 m), and 53 West 53rd (381.0 m) could have clearly benefitted from high strength designs. The new bulletin provides opportunities for the



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many towers and skyscrapers in design to realize the advantages of 100 ksi reinforcement and represents an important step forward in the improvement of construction in New York City.

Source: MMFX Steel Corporation

2015 TOP 5 LINK-BELT DISTRIBUTORS

Skeeter Collins, Link-Belt's manager of North American Sales, has announced the top 5 distributors for 2015. These distributors were selected on the basis of overall performance in the marketing and sales 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 5 distributors for 2015 (listed in alphabetic order):

Atlantic & Southern, Lake City, Georgia
Crane Sales & Service, Omaha, Nebraska
Kelly Tractor Company, Miami, Florida
Pinnacle Cranes, Charlotte, North Carolina
Wood's CRW Corp., Williston, Vermont.

"We owe a great deal of our success to our strong distributor network," said Mr. Collins. "To rise to the top, a distributor has to be truly extraordinary in both sales and, especially, service. These distributors have demonstrated great strength in both of these critical areas."

Source: Link-Belt Construction Equipment Company

BOTLINK ANNOUNCES DRONE INTEGRATION INTO PROCORE CONSTRUCTION MANAGEMENT SOFTWARE

Botlink announced recently that Procore customers now have the ability to incorporate drone workflows directly into Procore's construction management software. Users can easily and safely fly drones at work-sites and automatically upload processed imagery directly into Procore.

Construction managers can remotely oversee the progress of projects, document the evolution of jobsites, ensure OSHA compliance, monitor equipment and anything else that can be viewed from the air. Since the typical flight takes less than 10 minutes and data begins flowing into Procore before the aircraft has even landed, all project stakeholders with Procore access, no matter where they are located, will be able to access the same aerial imagery instantly.

"At Procore, we've built the best in-class

construction project management platform. Many of our customers have applications that are 'must haves' for their business to run efficiently," said Steve Zahm, president of Procore Technologies. "Through Procore Connect and our partnership with Botlink, we are able to provide our customers with access to drone technology that offers real-time aerial imagery. Procore Connect makes it easy to integrate with the apps, solutions and processes that our clients want to use."

Procore users simply connect a small Botlink cellular device to their compatible drone and then use the Botlink app for mission planning, automated flight control, safety advisories and real-time data delivery. Advisories are displayed on a georeferenced map and show the exact location of the user's aircraft in relation to restricted airspace, nearby manned aircraft and incoming weather.

While in flight, Botlink triggers the drone's camera and captures hundreds of high-resolution images that are stitched together using georeferenced position data and discrete features within each image. The result is a single, high-resolution orthomosaic image that can be manipulated and analyzed as needed. This process was previously only available through expensive airplane and helicopter flights or by using low-resolution satellite images that can be more than a week old, due to weather and other limiting factors.

Source: Botlink

TRIMBLE ANNOUNCES MACHINE CONTROL SYSTEM FOR WHEEL LOADERS

Trimble recently introduced version

12.81 of its Trimble® GCS900 Grade Control System. The new version further expands the mix of machines supported to now include wheel loaders, demonstrating Trimble's continued commitment to meet the contractor's needs for construction technology across a mixed fleet and for all phases of the project life cycle.

The Trimble GCS900 version 12.81 release includes a new 3D configuration for wheel loaders, broadening the range of machine types supported. Contractors can realize a higher and more rapid return on their investment in technology by using Trimble machine control components on a variety of machines and for more applications.

"Trimble GCS900 version 12.81 means big productivity gains for contractors who operate wheel loaders," said Ryan Kunisch, marketing director for Trimble's Civil Engineering and Construction Division. "We have seen up to a 40% increase in productivity for material placement and grading activities and typically a 25% reduction in undercutting when the GCS900 system is used."

The new configuration for wheel loaders allows contractors to realize productivity gains in both fine and rough grading applications. Operators can precisely control the amount of material being graded, improve fine grading accuracy and time, and reduce the potential for undercutting the surface during material placement or removal. Using a wheel loader equipped with GCS900, contractors can track material weight with a Trimble LOADRITE® weighing system. In addition, material placement and grade can be monitored by adding a VisionLink®

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Source: Trimble

VECTOR MANUFACTURING TO REPRESENT US JETTING BRAND IN NORTH AMERICA

Vector Manufacturing recently announced it has entered into a marketing agreement with US Jetting, LLC, to market and distribute trailer- and skid-mounted

jetters under the Vector name to municipal and industrial customers in North America.

The partnership with US Jetting, a leading provider of sewer jetting equipment, is effective immediately. It allows Vector to offer products and solutions tailored to smaller municipalities and industrial contractors working on specific applications that require trailer- and skid-mounted jetters with capacities up to 3,800 l. Current US Jetting customers in the United States

and Canada will gain access to additional expert service and support from Vector's expansive dealer network in North America.

"This agreement allows Vector Manufacturing to further extend our product offerings in North America and provide our municipal customers and dealers with more options to meet their sewer cleaning needs," said Sam Miceli, senior vice president of Federal Signal's Environmental Solutions Group, with oversight of Vector Manufacturing. "This partnership strategically complements Vector's existing suite of products by filling a need for smaller trailer- and skid-mounted jetters."

"We are excited about taking this next step to grow our North American market presence through Vector's unmatched dealer support network," said Nick Woodhead, president and founder of US Jetting, LLC.

The addition of jetters from US Jetting expands Vector's leading sewer cleaning line that includes Vector 2100 Plus series combination sewer cleaners and Vector Ramjet® jetters.

Source: Vector Manufacturing

NEW "NO STINK" PRIMER FOR CONCRETE OVERLAYS INTRODUCED AT WORLD OF CONCRETE

AC•Tech introduced its new "No Stink" Primer for Concrete Overlays at World of Concrete 2016. The AC•Tech RMS-Enviro Primer™ is a single-coat epoxy resin that seals porous substrates to reduce "pin-holes" and bubbles, control moisture drive, increase adhesion, and minimize cracking in the finished installation. This 2-part epoxy resin was specifically engineered with the health and safety of flooring contractors and building occupants in mind.

"RMS-Enviro Primer™ is a real problem solver," stated Johan Bohlmann, a member of the firm's 'Substrate Sleuths'. "Not only does it spread fast and uniformly – a big plus when it comes to crew production – but it has none of the odor or VOC emissions that is so prevalent in many of the solvent-based primers used with polished overlays".

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* Compared to the Cat® Fuel Guarantee Program fuel consumption guarantee levels as of November 2, 2015. Cat® is a registered trademark of Caterpillar. The Hitachi Fuel Advantage Program is available now through August 31, 2016.

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sensitive projects where only a primer is needed, the AC•Tech RMS-Enviro Primer™ readily accepts sand broadcast to provide the strong mechanical bond that polished concrete overlays, cementitious underlayments and other breathable wear toppings require.

"The need came to us from the field," says Mr. Bohlmann. "Many of the resilient flooring contractors we have supported for years with moisture mitigation and alkalinity control epoxies are diversifying

their business to include polished overlays. They approached us for a better primer. We are always happy to help solve customer issues."

Source: Allied Construction Technologies, Inc.

MAXX FRICTIONAL MASTIC SURFACE TREATMENT APPLICATORS EXTEND PAVEMENT LIFE

Bergkamp Inc. offers the MAXX line of truck-mounted Frictional Mastic Surface

Treatment Applicators, which allow contractors and government agencies to apply premixed frictional mastic surface treatments and premixed slurry seal over highways, roads, parking lots and airport runways. Frictional mastic surface treatment is a mixture of asphalt emulsion, increased levels of angular fine aggregates, recycled materials, polymers and catalysts. The purpose of the treatment is to protect the pavement surface and extend its life, while minimizing future maintenance treatments. It is designed to allow traffic back on the pavement faster following treatment than with other processes.

Available in 2 models, the MA20 and MA30, the MAXX Applicator applies a material mix that is made to precise specification, resulting in fewer operator calculations and on-the-job adjustments, which minimizes operator training time.

The full-length ribbon mixer works to maintain the proper material consistency during transit, pumping and spraying operations, regardless of the truck engine speed. The pavement treatment is then applied over the existing pavement through a patent-pending, hydraulically operated, variable-width, low-pressure spray bar that has side-shift capabilities. Hydraulically powered pumps automatically adjust to the truck's speed, ensuring accurate application rates at variable speeds.

The MA20 has a 7,571 l material tank and the MA30 features a 11,356 l material tank. In either model, this steel tank contains a hydraulically-driven, full-sweep ribbon mixer with counterflow mixing technology that keeps the aggregates in suspension. In-cab controls eliminate the need for a rear operator by allowing the driver to operate all systems, including the mixer start/stop/reverse and spray bar start/stop, height and width, side-shift and individual nozzle controls. Application is computer controlled with an onboard system that ensures accurate application rates by continuously varying the pump rate, based on the truck speed and spray width. Easy-access mastic strainers protect the pump and spray nozzles from clogging and potential damage by aggregates and solid material.

The MAXX line offers a technologically advanced low-pressure system that operates at less than 40 psi (275.8 kPa). It provides single- or dual-pump operation, with more than 378.5 l/min delivered through

Wacker Neuson Crowns New Trowel Challenge® Competition Winner

Concrete finishers from around the world competed in Wacker Neuson's Trowel Challenge® competition held at World of Concrete in Las Vegas, February 2-5, 2016. Over 150 of the best finishers from 7 countries, 4 Canadian provinces and 29 U.S. states tested their trowel operating skills as they maneuvered around a timed obstacle course.

Like the previous years, the challenge draws thousands of spectators to the Wacker Neuson booth to cheer on the finishers vying for the grand prize; a custom 48-inch CRT 38-35VX ride-on trowel powered by a special Vanguard™ BIG BLOCK™ V-twin engine. The contestants with the top 10 fastest times from the qualifying rounds advanced to the finals held Thursday, February 4. The top 10 finalist each had one run through the course and that time was added to their preliminary time.

Kevin Suchy, owner/operator of Easy Lay Concrete in Tofield, Alberta, won with a



From l. to r.: 3rd place, Douglas Garber, B Concrete; 1st place, Kevin Suchy, Easy Lay Concrete; and 2nd place, Josh Smith, H & M Precision Concrete.

Second place finisher was Josh Smith, of H & M Precision Concrete in Greenville, Ohio, with a combined run time of 63.549. Third place went to Douglas Garber of B Concrete, in Brookville, Ohio, with a combined run time: 65.054. Mr. Garber is not a stranger to the Trowel Challenge finals finishing in 3rd place in 2014.

Source: Wacker Neuson Group



combined run time of 62.963. Mr. Suchy came into the finals with the fastest qualifying time of 31.326. He maintained his lead and took home the grand prize with a final run time of 31.678. After his winning run, he celebrated with a victory lap to the cheers of the large crowd that gathered to watch the exciting final that resulted in less than 1 second separating 1st and 2nd place.

"It feels great to be the champion of the 2016 trowel challenge," said Kevin Suchy. "My wife and brother were with me at the competition and both of them couldn't believe it. I entered the competition focused on winning."

 FS.1208/A / FS.1209 / FS.1109 / B0.110E

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Source: Bergkamp Inc.

REMOTE CONTROL SYSTEM FOR CAT® SKID STEER, MULTI TERRAIN AND COMPACT TRACK LOADERS

TORC Robotics and Caterpillar announce the availability of the RemoteTask™ remote control system for Cat® D Series Skid Steer, Multi Terrain and Compact Track Loaders. The RemoteTask system enables operators to precisely control the machines from outside the cab – as far away as 300 m and

at a safe distance from potentially hazardous tasks and environments.

“Providing customers a solution to remove the operator from harm’s way while operating Cat compact loaders in certain applications further supports Caterpillar’s commitment to safety,” stated Jeff Griffith, sr. market professional for Caterpillar. “TORC Robotics and Caterpillar have teamed up on the development of this solution for SSLs, MTLs and CTLs and have an exclusive marketing agreement to distribute and support RemoteTask through Cat dealers.”

The RemoteTask controls feature virtually no lag in machine response time. With RemoteTask, the remote operator’s performance is as fast and smooth as in-cab operation. The intuitive remote control interface is designed to closely mimic in-cab machine controls, creating an easy operator transition from manual to remote operation.

“When I use the RemoteTask controller, the machine response is instantaneous,” said Bob Shoop, product demonstrator/instructor for Caterpillar. “The feel and response mirrors the operator controls of the machine itself. Remote controls I’ve tested previously often had a delayed response.”

Transforming a machine is simple. It only takes about an hour for a Cat dealer to install the RemoteTask system. With the system installed, the machine can transition from manual to remote mode at the turn of a key switch. The system is completely transferrable between units.

The portable yet durable console allows the operator to move as needed for good lines of sight. RemoteTask can be integrated into 16 models of Cat D Series Skid Steer, Multi Terrain and Compact Track Loaders and can control more than 200 work tools with all hydraulic functions controlled via the remote system.

Source: Caterpillar

“Little Brother” Packs a Mighty Punch

Constant innovation and continuous enhancements are what drives successful products. This also holds true for construction machinery such as the reversible soil compactor CR 6 made by Weber MT. This machine scores high marks with its improved operating characteristics and supreme ease of use. Delivering a centrifugal force of 55 kN at an operating weight of 412 kg, this soil compactor ranks among the most powerful machines in its class.




The CR 6 bears a striking resemblance to the larger CR 7. Weber MT revisited the functionality and performance characteristics of both machines and gave their design a complete overhaul. Its reliable Hatz diesel engine gives it ample power. The engine is encased and protected all around. This reliably keeps out dirt and dust and protects the engine against damage. To increase operational safety, the accelerator cable and the hydraulic shift cables have been placed inside the guide bar. The maintenance cover in the front provides unobstructed access to the maintenance items. In addition, the centrifugal clutch, which tensions the V-belt automatically, reduces the necessary amount of maintenance even further. The low hand-arm vibrations define the high degree of user comfort just as much as the standard E-start and the ergonomically adjust-

able guide bar, which can be easily positioned to the height of the operator.

Better still, apart from performing admirably during such classic applications as road building, civil engineering and vibrating paving stones, the CR 6 is equally well-suited for compacting in the trenches. Boasting a low overall height, the machine is highly versatile as its working width can be adjusted to 46, 59 and 74 cm by means of attachable extensions.

Model version CR 6 CCD of this new compactor is available with the tried-and-tested COMPATROL® compaction control system. It indicates to the user to which degree the soil has been compacted. Weak spots in the soil can, thus, be detected and compensated. The final result is consistent and uniform compaction. As it eliminates the nuisance of unnecessary passes by up to 25%, this machine helps you save time and money.

Source: Weber MT, Weber Maschinentechnik GmbH

 FS.1107/1

HONDA ADDS GFCI FEATURE TO ADDITIONAL GENERATOR MODELS

On February 2, 2016, during the 2016 World of Concrete show, Honda Power Equipment announced that it has added ground fault circuit interrupter (GFCI) technology to 3 of its most popular generator models for commercial, rental and residential applications. Honda unveiled 3 enhanced models, the Honda EB6500 Industrial Series generator, the Honda



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EM5000 Deluxe Series generator and the Honda EG4000 Economy Series generator, each equipped with GFCI 20 A duplex receptacles. GFCI protects a user from electrical shock by shutting down the circuit when current is flowing along an unintended path, or ground fault.

"Honda has built its reputation on developing products that improve people's lives," said Scott Conner, senior vice president, Honda Power Equipment. "Optimizing these 3 popular generator models with GFCI illustrates how Honda goes beyond

developing innovative new products, also incorporating technology that enhances existing products, building unparalleled durability, quality and reliability into every Honda product."

Honda Power Equipment markets a complete line of generators for commercial and consumer applications. Lightweight, compact Honda generators produce between 1,000 and 10,000 W of power, providing smooth, dependable power for recreation, construction, rental, computers, appliances and emergency use. All Honda generators

are powered by advanced Honda 4-stroke engines and incorporate technology that make Honda generators among the world's quietest. Honda generators for typical residential use average 64-73 dB(a) with the Super Quiet Series operating at noise levels as low as 49 dB(a) – roughly the noise level in a private office.

Source: Honda Power Equipment, a division of American Honda Motor Co., Inc.

JCB Demolition Package Helps Contractors Tackle Tough Work

JCB has introduced a new demolition application package available across its entire range of 18 skid steer and compact track loader models. This new specialty package was designed to equip JCB skid steers with the additional durability and safety features required to meet the increasingly rigorous demands of the demolition industry.



The new demolition package is available on any new JCB skid steer or compact track loader model and is factory-installed during manufacturing of the selected unit. It includes a fire extinguisher, Level 2 FOPS guard, a twine cutter (wheeled models only), front screen guard and heavy-duty rear bars. Canopy models require the front impact protection option to accommodate the new demolition package.

Pressurized JCB cab model SSLs and CTLs reduce dust and debris exposure to harmful airborne materials. Additional operator safety is built in with JCB's "PowerBoom" design which boasts a single arm rather than the conventional two-arm skid steer design. This enables the use of a left-side entry door, allowing the operator to enter and exit the machine clear of the attachment and loader arm regardless of arm position. There is also a large front emergency exit which could prove crucial in potentially hazardous applications.

Additionally, the JCB PowerBoom results in unrivalled visibility at 270°, a 60% advantage over competitive manufacturers, delivering clear visibility of the operator's surroundings. A large rear service door allows for easy access to the engine and daily maintenance checkpoints. Machine protection is enhanced by the routing of hydraulic hoses through the boom to prevent damage from impact in confined spaces on site.

JCB's line of skid steer and compact track loaders range from 6,153 to 11,596 lb operating weights and are powered by 48 – 74 hp no-DPF JCB Diesel Tier 4 Final engines. JCB custom builds each unit to the customer's exact specifications. Customers can choose from radial or vertical lift, wheeled or tracked, cab or canopy and a variety of other options.

Source: JCB

 FM.713/1

CONEXPO-CON/AGG LAUNCHES 2017 CREATIVE THEME: IMAGINE WHAT'S NEXT

On February 17, 2016, CONEXPO-CON/AGG revealed its theme for the 2017 exhibition: *Imagine What's Next*.

The theme reflects the vision for the 2017 show as it fully embraces applied technologies that help the construction industries reduce downtime, maximize efficiency at jobsites and minimize waste while increasing bottom line profits and enhancing safety. CONEXPO-CON/AGG will continue to provide attendees access to the newest products from every major construction-related industry, including asphalt, aggregates, concrete, earthmoving, lifting, mining and utilities.

Co-located with the IFPE exhibition for fluid power, power transmission and motion control, CONEXPO-CON/AGG will be held in Las Vegas on March 7-11, 2017.

A recent snapshot survey from AEM found that nearly half (45.9%) of previous CONEXPO-CON/AGG attendees responding were enthusiastic and optimistic about the new possibilities when asked what the construction industry will look like in 2025, and nearly one-third (32%) were interested in what will come but apprehensive about how to successfully get there.

CONEXPO-CON/AGG 2017 will bring the theme *Imagine What's Next* and technology focus to life through a 6,968 m² pavilion dedicated entirely to presenting emerging construction innovations that are driving change and process improvement across the industry.

In October, the triennial CONEXPO-CON/AGG earned the top spot on Trade Show Executive's prestigious Gold 100 trade show ranking as the largest show in the U.S. of any industry in 2014 with more than 218,000 m² of exhibit space (and more than 2,100 exhibitors and more than 129,000 attendees).

Source: Association of Equipment Manufacturers (AEM)



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Contact Hercules Machinery today for more information about pile driving equipment and the Sonic SideGrip® at 800-348-1890.

Over the past 17 years, Hercules Machinery Corporation (HMC) has developed and enhanced the Sonic SideGrip®. With this knowledge and expertise gained over the last 17 years, HMC has been able to bring value and superior service for their customers. Heneault Gosselin, Inc is one of HMC's customers that has seen first hand the value that the Sonic SideGrip® can bring to the company.

After purchasing the Sonic SideGrip®, Heneault Gosselin was able to tap into a new market exposing them to new opportunities and jobs than they had done in the past. While specializing in rebuilding existing foundation, Heneault Gosselin has now been installing piles for new construction in Eastern Canada. The Sonic SideGrip® has provided the ability to build on ground never considered before. Before, Heneault Gosselin was using a hydraulic hammer could do 4-5 piles in the amount of time that they now can do 20-25 piles using the Sonic SideGrip®. Peter Tobin, at Heneault Gosselin, has expressed how the Sonic SideGrip® has not only provided efficiencies in job performance but also an opening in a new market resulting in new opportunities to win bids and complete jobs that they could not have before.



CALL: 800.348.1890 | ONLINE: HMC-US.COM

World Trade Center 3: Each week Another Storey

Rebuilding at Ground Zero is moving full speed ahead. The World Trade Center Complex will serve simultaneously as a new landmark and a memorial for the City of New York. Following Towers 2 and 4, Austrian formwork experts' know-how is required for Tower 3 as well. Doka is providing formwork solutions, engineering design and field supervision to support the construction schedule.

After a standstill lasting several months, construction of the World Trade Center Tower 3 continues under the leadership of Roger & Sons Concrete. Owing to its decades of experience in highrise construction, Doka was secured as the reliable formwork partner for 3 World Trade Center. Upon completion, the tower also known by the name of its address, 175 Greenwich Street, will boast an overall height of 329 m.

For his design of the 80-story tower, British architect Richard Rogers of the architectural firm Rogers Stirk Harbour +

Partner was awarded the Pritzker Prize. The building, planned to be the 3rd-highest on the World Trade Center-area, is characterized by a design that combines concrete and steel. The core, made of reinforced concrete, is enveloped by the silhouette of a steel structure with the facade consisting of glass. Most stories will accommodate offices. Shops and technical facilities are slated to occupy the podium consisting of lower 8 levels. A massive reinforced steel core with built-in lifts and staircases dominate the interior of the building. This structural concept meets the highest requirements for safety. All other sister towers of the World Trade Center are built based on the same principle.

In order to optimize formwork utilisation, Doka engineers recommended a solution consisting of automatic climbing formwork, timber-beam formwork, crane-less and therefore cost-saving table lifting system, as well as innovative floor props for above-average ceiling heights.



The SKE100 plus automatic climbing formwork capable of transporting up to

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10 t per unit is ideal for repositioning large working platforms and wall formwork consisting of Frami S framed formwork and Top 50 S large-area formwork. The automatic climbing formwork is used on the outside of the building. It ensures rapid construction progress as well as safety for the site crew. The platform levels are completely enclosed so that the personnel can work safely in any weather condition and even at wind speeds up to 72 km/h. The TLS self climbing table lifting system that is also attached to the exterior wall is the safe way to reposition floor-slab formwork, tools and other equipment without the need for a crane. The inner building core is poured using the high-performing automatic climbing formwork, the Super Climber SCP. By using it, the inner building core grows 3.9 m (one level) taller each week.

Another proven technology specific to the U.S. market, the 10k shoring system, is employed to prop up large-area floor-

slabs with heights exceeding 5.5 m. Two Doka 250 stair towers easily assembled from frames and pre-assembled stairway elements are integrated directly into the Super Climber SCP platform and provide intermediate safe access to all working levels.


Doka engineers were involved in the planning process from the very beginning and could therefore define the optimal formwork solution according to the customer's requirement. A Doka formwork instructor ensured smooth assembly on site and instructed the construction team how to use the different formwork systems correctly.

3 World Trade Center is scheduled to open in 2017. The integrated safety systems will exceed by far the building code requirements of the City of New York as well as the Port Authority of New York and New Jersey. Certification according to the LEED (Leadership in Energy and Environmental Design) gold standard for



energy efficiency is sought as well.

Source: Doka GmbH

 FN.420

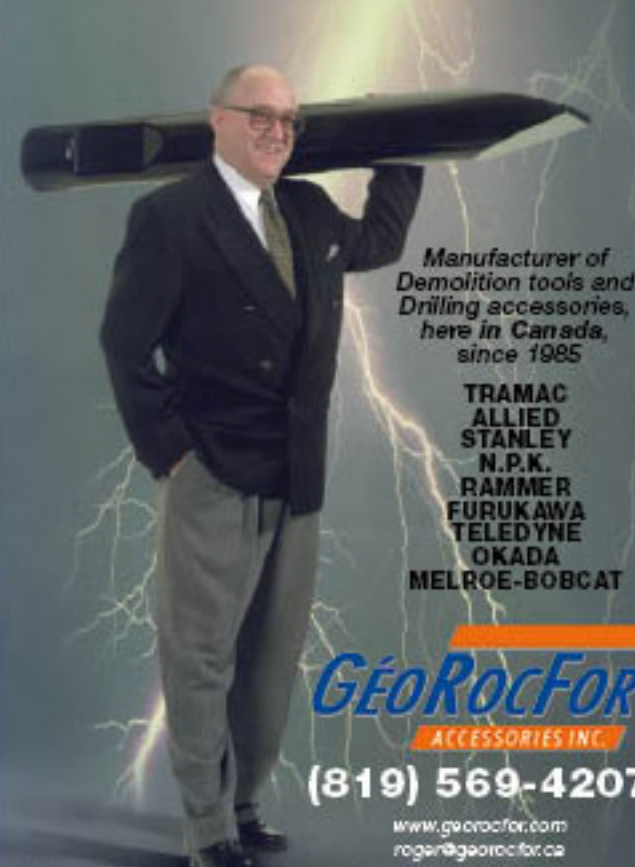
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McCloskey International's Redesigned Crusher on Display at World of Asphalt/AGG1

Visitors at World of Asphalt/ AGG1 will get a first look at McCloskey International's latest version impact crusher, the I44R, in Nashville, Tennessee, March 22-24, 2016. The latest version I44R combines crushing, screening and recirculating to provide seamless production.

AGG1 is seen as the perfect opportunity for McCloskey International to introduce the new features and benefits of the I Series impact crusher line, particularly well-suited for aggregate and concrete recycling applications. The I44 and I54 crushers have also been enhanced with a number of production boosting features.

New features include changes to the 105 cm diameter x 110 cm wide Impactor side wall angles to allow better material flow, a re-designed under pan that delivers more throw and enhanced material movement, and an all new feed boot on the main conveyor to accommodate more material flow from the under pan.

One of the key new features is a radial return conveyor that allows recirculated oversize to either go back to the hopper, be stockpiled or fed to another machine.

"We have been on-site at customer projects around the world for over a year now," said John O'Neill, vice president Sales and Marketing for McCloskey International. "We based the current design on customer feedback. Once we incorporated their feedback, we sent it back into the field for their assessment. All have come back saying their production has increased substantially, and their processing of materials in a number of formats is even more efficient than before."

The I44R also features a TEDD panel that is more concise, and easier to understand. For quarries with multiple equipment operators, training is reduced as the panel is easy to read, and displays more functions in an intuitive manner.



As with all McCloskey equipment, the I44R has excellent access for maintenance with its open chassis design, saving time and reducing costs. With additional options such as a water pump and dust suppression system, or refueling pump, as well as its high standard safety features, the I44R is high performance, portable and productive.

Easy to move from site to site, the I44R has transport dimensions of 3.4 m

high and 15.34 m long, and weighs in at 48,534 kg including optional magnet and hopper extensions. With the advantage of the design efficiency of McCloskey's integrated hydraulic folding hopper and conveyors, it can be on-site and operational in a matter of minutes with its folding hoppers and conveyors.

Source: McCloskey International Limited



Rototilt® Celebrates 30 Years of Innovation and Success

30 years ago in Umea, Sweden, the world of excavation began to rotate and tilt as the Rototilt tiltrotator was born. And things have never been the same since.

Rototilt is a tremendous example of entrepreneurship and innovation that now transforms excavators around the world into multifunctional tool carriers. With its 360° continuous rotation and 40° tilt each way, Rototilt allows excavators and backhoes to perform all types of work more efficiently with less machines and reduced manpower. As a result, tiltrotators have now become standard equipment in the Nordic countries on excavators up to 30 t capacity and quickly growing in the Central Europe and North American markets.

With extensive expertise in rotating technology, hydraulics, tribology and materials knowledge, Rototilt has developed in to an extremely durable product and grown in to a family of models covering excavators up to the 30 t class. With a variety of complimentary accessory attachments including buckets, grapples, and compactors, Rototilt products are used across a wide range of industries to perform any kind of excavator task safer, more productive, and more profitable.

While Rototilt was born 30 years ago, the innovations continue to flow at the development, testing, and world leading manufacturing facility in Vindlen, Sweden. A dedicated North American operations is located in Brantford, Ontario.

"It is our passion, our vision and that force drives us every day. We are well positioned to provide our customer with the greatest possible confidence to invest in tiltrotators from Rototilt," states Anders Jonsson, Rototilt's CEO.

It was the same 30 years ago and the commitment will continue.

Source: Rototilt Inc., Rototilt Group AB



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What to Expect at bauma 2016...

ANMOPYC, the Spanish Manufacturers Association of Construction, Public Works and Mining Equipment, will be present at bauma 2016 along with 52 of its members.

ANMOPYC was founded in 1982 as the sole representative of construction sector in Spain. Its main aim is promoting exports of its members worldwide, to give them encouragement for manufacturing of safe machines and equipment and strengthen R&D activities in construction sector.

The accurate and professional work developed by ANMOPYC has contributed to the progressive increase not only of their members but also of the promotional activities. ANMOPYC currently represents about 100 companies from all over Spain. They entrust of the Association to the guidance of their promotion abroad.

ANMOPYC  A1.218

Alsina Group will participate in the upcoming edition of bauma 2016. Visitors will see all its products, engineered systems and formwork solutions and all the information related to them as well.



With 65 years of experience creating value in the industry, Alsina Formwork Engineering has become one of the leading companies in the formwork world. Ongoing investment in R&D in recent years have been the key to important new technological developments helping to create better, safer, ergonomic and more productive formwork systems.

Alsina Formwork Engineering

 A2.448

BAUER Maschinen Group will once again present its complete portfolio of equipment for specialist foundation engineering in the open-air exhibition area of bauma 2016. In addition to Bauer's core area of BG series rotary drilling rigs, the duty-cycle cranes of the MC series and

diaphragm wall technology – with cutters and grabs, as well as the subsidiaries such as Klemm, Prakla, Hausherr, RTG, ABS Trenchless and MAT will also display their new developments.

Bauer celebrates a special anniversary – the first Bauer rotary drilling rig, the legendary BG 7, was first used on a construction site exactly 40 years ago. This first drilling rig was the prototype for all rotary drilling rigs that have now been built by different manufacturers worldwide for decades. At that time, the only available equipment for pile bores came from other construction areas and had to be temporarily converted for the new procedures.

BAUER Maschinen GmbH

 FN.520

During bauma 2016 **BBA Pumps** will display its recently launched dewatering units. The lineup consists of new 101 mm (4"), 203 mm (8"), 305 mm (12") and 508 mm (20") pump units. The main focus went to the reduction of the carbon footprint. All units are equipped with the cleanest highly regulated diesel engines to comply to the stringent European emission legislations.

BBA Pumps BV

 FN.621/5

During 2016, **Brokk** will celebrate 40 years of innovation as the world's leading manufacturer of remoted-controlled demolition machines. The first Brokk machine that was introduced in Sweden back in 1976 meant a revolution in the demolition industry.

At bauma 2016, the company will introduce the Brokk 120 Diesel, the world's smallest diesel-powered model. The basic design elements remain the same:



a compact, flexible, productive and stable machine with an innovative 3-arm system for maximum reach and precision. With Brokk machines, work can be done in a safe and efficient way, allowing the operator to stay clear of risky situations.

Brokk AB

 FM.613

Comer Industries S.p.a. is strongly committed to offer green, safe and sustainable solutions featuring boosted efficiency and product integration.

The company's wide product range features efficient power transmission systems for stationary applications, such as concrete mixers and crushing equipment, and for off-highway vehicles that include complete drivelines: axles, hydrostatic transmissions and wheel drives.

Several OEMs have already planned to introduce Comer Industries' solutions in their new Tier 4 final vehicles. Some of these will be on display at bauma 2016 including Atlas Weyhausen's new AW1070 soil compactor and Thaler's new 200 Series compact wheel loader.

Comer Industries S.p.a.

 A4.139



DOLL Fahrzeugbau GmbH is a trailer manufacturer which has established itself in its markets as a high-tech specialist for transport solutions. At bauma 2016, the company will be exhibiting trailers which have been optimised regarding payload and application area, price-performance ratio, as well as quality and reliability, safety and longevity.

Visitors will be able to see the panther low-loader: a 1+3-axle combination with the dolly firmly fixed



with the gooseneck and the VARIO semi low-loader: a 4 axles unit with friction steered axle which is a robust, flexible vehicle for the construction sector.

DOLL Fahrzeugbau GmbH

 FN.830/1

Contractors who want to more fully exploit the potential of their machine, or their fleet, would find it well worth their while to drop in at the **DYNAVIS®** technology team's exhibit at bauma. There, they will hear the testimonial of Nuova Ghizzoni S.p.A., an Italian pipeline contractor, that switched an entire fleet of hydraulic excavators to a fluid formulated with DYNAVIS® technology.

Machine manufacturers are also invited to get an idea of the potential of hydraulic fluids formulated with DYNAVIS® technology. Many construction-machine manufacturers have their own programs for lubricants, using their own brands.



An additional highlight at the stand is a pair of "Efficiency Bikes", which are technically identical fitness bikes. Both drive hydraulic pumps comparable with those used in construction machines. One of the hydraulic systems contains a DYNAVIS® fluid and the other a conventional hydraulic fluid. A liquid column indicates how much more efficiently the DYNAVIS® fluid functions as the "cyclist" provides the pumping power.

Evonik Resource Efficiency GmbH

 A6.245

Visitors at the **Hatz** stands will see the world premiere of the water-cooled 3-cylinder engines of the current Hseries. Hatz Systems will introduce modern generator sets and hydraulic power packs.

The already existing water-cooled Hatz 4H50 will soon be joined by a 3-cylinder unit. With a capacity of 1.5 l and a maximum speed of 2800 rpm this engine sets standards.

The Hatz 3H50TIC, in particular, is

designed for the U.S. market, Canada and some Asian countries. In order to comply with the EPA Tier 4 final exhaust emission standards and EU stage IIIB, a combination



of external exhaust gas recirculation (EGR) and diesel oxidation catalyst (DOC) guarantees the necessary reduction of exhaust emissions. Both engine variants will extend the Hatz engine product range from 2018.

Motorenfabrik Hatz GmbH & Co. KG

 A4.548

bauma 2016 will see the international launch of a range of new products from **JCB** – including the innovative 3CX Compact backhoe loader and 4-wheel loaders with Command Plus cabs.



"2016 is an important year for JCB with the launch of some great new products. bauma will be the first international outing for the 3CX Compact which has just gone into production. Feedback on this machine is fantastic," said Tim Burnhope, JCB chief innovation and growth officer. "We are also very excited about the launch of a range of new wheel loaders. The Command Plus cab has been met with rave reviews from users of our flagship 457 model and its introduction on other machines in the range gives us some great opportunities for growth."

JCB Deutschland GmbH

 FM.713/1

Stanley Infrastructure is a division of Stanley Black and Decker. It consists of 4 divisions: Dubuis, HS Blades, Stanley Hydraulic Tools and LaBounty. Present at

the exhibition will be HS Blades, Stanley Hydraulic Tools and LaBounty.

The company will show a modernized UP multi-system with faster interchangeable jaw sets for concrete cracking, concrete pulverizing, reinforced concrete processing, scrap metal shearing, and plate shearing. It will also present its hydraulic power packs working with breakers, chain saws or grinders. The long lasting experience of Horst Sprenger GmbH recycling tools and the strong marketing and distribution network of Stanley Infrastructure reflects in the new name HS Blades.

Stanley Infrastructure Solutions

 FN.821/1B


At bauma, the **Liebherr Group** will showcase many new and further developed products from every area of its extensive range of construction machines, mobile and crawler cranes, material handling technology, mining, as well as components, on a total display area of more than 14,000 m².

Liebherr will be presenting numerous global premières with the over 60 outdoor exhibits. These include a new 8-axle mobile crane, a 70 t crawler tractor, and a material handler for loads of up to 10 t with a 20 m range. A special innovation is the high-strength fiber rope for hoisting applications, and the large mining machines are represented with a newly developed 200 t excavator. The 240 t dump truck will once again serve as an additional magnet at the Liebherr stand in front of the pavilion.



Indoors, Liebherr presents the latest developments from the areas of mechanical, hydraulic and electric drive and control technology. This special stand for components also offers global premières – including the in-house developed energy storage system "Liduro" and the Liebherr SCRFilter as an exhaust gas treatment system for stage V diesel engines.


Liebherr-International Deutschland GmbH

 A4.213 /B0.210A
FM.809/810/813

The new **Link-Belt** HTT-86110, base rated at 100 t, will debut at bauma 2016. The HTT-86110 telescopic truck terrain crane features simple, all-wheel steer capability for optimum crane maneuverability in




congested spaces. Steerable rear axles with super single tires are what make the HTT-86110 so agile and with 4 steering modes – independent front, independent rear, combination, and diagonal, this crane can move in and around jobsites with ease. The HTT-86110's turning radius is less than 8.3 m from the centerline of the tire; this is comparable or better than similar 4-axle all-terrain cranes.

Link-Belt Construction Equipment Company  FS.903/3

With 20 installations and a host of highlights, **PALFINGER** will present itself as an innovative market leader for mobile loader cranes and as a technological pacesetter for hydraulic lifting and work systems at bauma 2016. PALFINGER will demonstrate a wide product range, extending from the latest heavy-duty crane PK 165.002 TEC 7 and timber and recycling cranes right up to container handling systems, truck-mounted forklifts and access platforms.



There is a further market innovation in store in the form of the fall protection mode feature. PALFINGER is the first crane manufacturer to offer a personal protection mode for loader cranes and is thus an absolute pioneer when it comes to safety.

PALFINGER AG  FN.826/5 Palfinger Platforms GmbH



 FS.1304/1

The new **G&Z** S400 compact slipform paver is designed to carry on the top performance of the G&Z brand, while adding even greater value for the customer. The S400 is an entry level, single/dual lane paver with the ability to perform versatile applications including: city streets, ramps, shoulders, highway, airport, dual lane, off-set, zero or minimum clearance and barrier walls.



"The S400 is a slipform paver that does not confuse 'entry-size' with 'entry-quality'. Its functional design at an affordable price point opens the G&Z brand to a wider set of the market," says Ron Meskis, president of G&Z. The S400 adds value to the customer in its versatility, low operating cost and productivity.

Guntert & Zimmerman Const. Div. Inc.

 FS.1013/4 

Three Finnish companies combine their forces to show a wide variety of attachments that can be used in recycling, demolition, forestry and many other applications. The largest display is offered by **Ramtec**, an established attachment manufacturer and is supported with bauma newcomers, **Ecomeca** and **Marttiini Metal**.

Ramtec's core product is the new Robi RP32R pulverizer, which is the 3rd model in the Robi pulverizer series designed for secondary stage demolition. It can be mounted on excavators between 22 t and 35 t. Other products on display include the MM104 Multi Master screening bucket, FH20R forest harvester, and DG15 sorting grapple.



Ecomeca has different models of crusher

buckets available for excavators from 18 t to 50 t and models that can be installed on wheel loaders. At bauma the company will showcase its model Ecomeca 145, designed for 28 t to 40 t excavators.



Marttiini Metal is specialized in tiltrotators and other devices that can be mounted on excavators. At bauma the company will display 2 of its 4-model series: the mRoto-10 for 7.5 t to 10 t excavators and backhoes and the mRoto-20B for 14 t to 20 t machines.



Ramtec Oy, Ecomeca Oy, Marttiini Metal Oy

 B3.427


Axiomatic fosters the advance of connectivity in machines with the CAN/Ethernet converter AX140900.

The AX140900 is a bridge to the cloud. CAN networked devices on the machine can interface with an Ethernet networked device with internet connectivity via the Axiomatic converter. Alternatively, an Axiomatic CAN-Wifi or CAN-Bluetooth converter can link the machine control system to the cloud.



Typical applications include: off-highway vehicles, on-highway vehicles, oilfield

services equipment, and agricultural equipment.

AXIOMATIC Technologies Corporation
 A3.549

Scania turns 125 this year and the company will be showing both the width and depth of its range at bauma 2016. Three divisions will be present, with products and services that share the common objective of providing the best possible total economy, regardless of application. Scania's combination of robust products and connected services provides intelligent solutions that make all the difference.

Five trucks will be showcased, all weight-optimized thanks to Scania's modular construction. Robust, reliable trucks, featuring connectivity and attractive services, help transport companies that choose Scania to increase their profitability.


Three industrial engine platforms – 9 l, 13 l and 16 l – for Tier 4 final and Stage IV.

Scania introduces a new era in meeting the mining industry's transport needs, with smart and holistic solutions that lead

to increased efficiency, by focusing on optimization at every stage.



"bauma is an outstanding showcase for Scania's collected offering within rough and tough," says Isabella Habijan, Scania's bauma project leader. "We have 3 divisions on-site, and each is a leader in its field with special significance for the bauma target groups."

Scania Deutschland GmbH
 B4.212

Linamar Corporation's **Skyjack** division will unveil 2 new products at bauma.

Skyjack will be launching the SJIII 4740 DC electric scissor lift and the SJ30 ARJE articulating boom with rotating jib, and

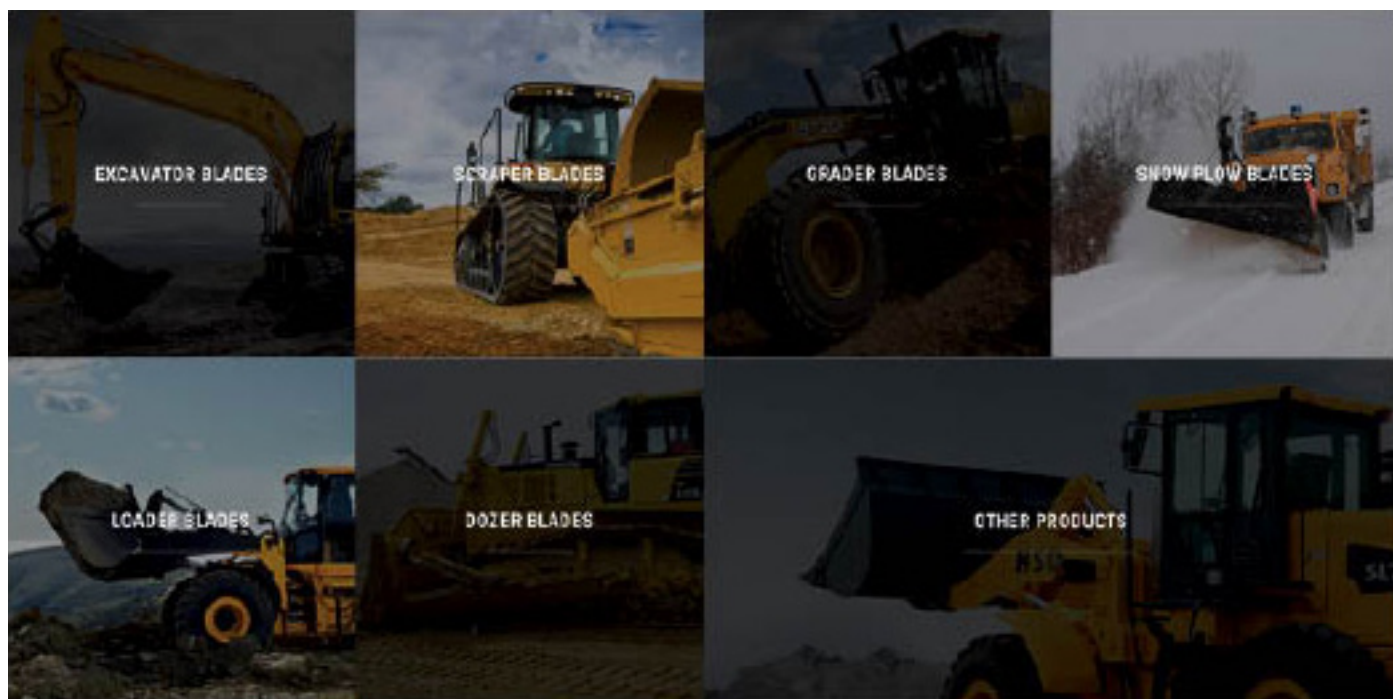
display its existing range of simply reliable aerial work platforms and accessories.



"As a popular trade fair that draws an international crowd, bauma is an important show that Skyjack can't afford to miss," said Malcolm Early, vice president of marketing at Skyjack. "The rental and infrastructure industries, which have always been solid in central Europe, are key to Skyjack's overall global development."

Skyjack
 FS.1002/3

American Augers has been handcrafting the latest in auger boring technology for over 40 years. Now, all American Augers boring machines are available in



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Tier 4 versions. The 60-1200 auger boring machine features a Volvo TAD571VE Tier 4 final engine. Other features of the newly released machine are an Eaton FS-5205A, 5-speed transmission and a total weight of 13,807 kg. The 60-1200 auger boring machine has a maximum thrust of 554 t and a 610 mm - 1,524 mm working range.



American Augers builds the largest category of horizontal directional drills in the industry and a full range of Auger Boring machines.

American Augers / Trenchor

 FN.831/3

Webasto is continuing to make trucking in the unrelenting cold, not only manageable, but cost effective for drivers. Webasto Thermo & Comfort North America's fuel-operated heaters cut idling, fuel costs and downtime while increasing profit.



Webasto's Air Top 2000 ST interior bunk heater, can lead to significant cost savings and fast return on investment. The heater is designed to operate independently from the engine, using as little as one gallon of fuel in 22 hours. The Air Top 2000 ST can be easily installed in the under-bunk storage area of most sleeper cabs, and provides rapid interior heat without idling. Offering up to 7,000 BTU/h of heat output, Webasto's air heater is CARB approved and EPA SmartWay verified.

Webasto Thermo & Comfort SE

 A4.343

Hilti Canada Winner of the TCA 2015 Innovation Award

Hilti (Canada) Corp. was awarded the 2015 "Best of the Best" Innovation Award by the Toronto Construction Association (TCA). This award is in recognition of the innovative Hilti X-Change Module (X-CM) core bit.

The Hilti X-Change Module is a breakthrough solution that splits the core bit in 2 parts (segmented ring and barrel). The ring can be easily removed and exchanged using a screwdriver, yet it provides maximum stability while drilling. The system addresses 3 major customer difficulties:

- Downtime from worn-out bits: X-Change module allows re-tipping on the spot;
- Inventory of bits: X-Change module provides space and weight savings;
- Stuck core bits and cores: X-Change module provides an easy way out of stuck situations.

TCA's Innovation Award is given annually for extraordinary achievement in innovation for devising new approaches to improve performance and create cost effective solutions.

"Innovation is at the core of what we do at Hilti," says Avi Kahn, general manager of Hilti Canada. "Solutions like our new X-Change module revolutionize the way things are done and bring significant productivity to our customers."

Source: Hilti (Canada) Corp., Hilti Deutschland AG



 A1.412

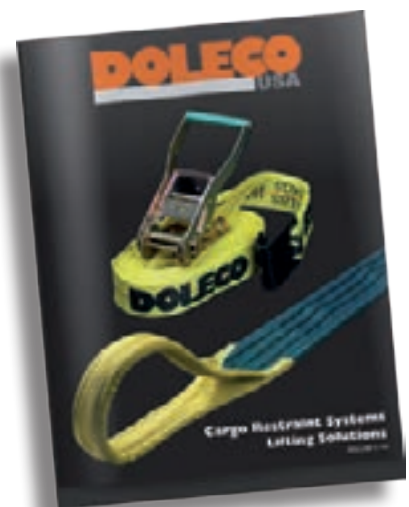
Doleco USA Publishes Extensive New 2016 Catalog

Doleco USA, a 2-year-old subsidiary of Dolezych GmbH, itself an 81-year-old German-based manufacturer of lifting equipment, slings, ropes and load-securing technologies, recently announced the release of its new 2016 Load Securement and Lifting Products Catalog. The redesigned catalog features over 100 new products and more than 300 total SKU's. The entire 52 page document is also available on the Doleco USA website.

Since its initial product catalog was released in 2014, Doleco USA has continued to expand its product line to serve the growing number of customers choosing Doleco as an option to over distributed brands. Among the new offerings are patented side loading ratchet strap assemblies, new patented winch bars, new transport chain packaging, an expanded retail strap offering, a hardware section and a new section devoted to high capacity premium Dyneema tiedowns and slings.

"We see tremendous opportunities for continued growth in the North American market, in all product lines," said Ralph Abato, president of Doleco USA. "We continue to add products and strive for innovation and improvement across our entire product line. Germany specifically, and Europe in general lead the world in terms of technical expertise in load securement and lifting technology. We aim to bring that level of sophistication to the North American market."

Source: Doleco USA



bauma Innovation Award: Nominations Announced

On January 19, 2016 during the bauma Media Dialog, in Munich, Klaus Dittrich, chairman & CEO of Messe München, announced the 15 nominated companies for the bauma Innovation Award 2016. The winners will be honored in a ceremony at the Allerheiligen Hofkirche in the Munich Residenz, on the evening before bauma opens.

The Innovation Award is presented in 5 categories: Machinery; Components; Construction Process/Construction Work; Research; and Design. In total 118 applications were received from Germany and abroad. The jury has now selected 3 new developments in each category to go forward to the final round. All of the nominated innovations offer significant practical benefit and economic potential, they are sustainable and they make a contribution towards energy- and resource-efficiency and/or towards the humanization of the workplace.

The nominated companies for the bauma Innovation Award 2016 are as follows:

Category 1: Machinery

- The Kramer 5055e, Kramer-Werke GmbH
- Autonomous Vibratory Plate, Ammann Schweiz AG
- Mobile Battery Mold, Weckenmann Anlagentechnik GmbH & Co KG

Category 2: Components

- SONO Water-Cement Analyzer, Imko GmbH
- Intelligent Crane Fiber Rope, Teufelberger Seil GmbH
- Liebherr Energy Storage, Liebherr Components Biberach GmbH

Category 3: Construction Process/Construction Work

- Reinforcement of a steel bridge, Leonhard Weiss GmbH Co KG
- Pipe-laying equipment RVG 1.0, Harald Gollwitzer Spezialtiefbau GmbH
- Building (yard) logistics 4.0 for SMEs,

Johann Augel Bauunternehmung GmbH

Category 4: Research

- Concrete-3D-Printing Technology, TU Dresden, Dept. of Construction Machinery Technology
- STEAM Hybrid Excavator, RWTH Aachen
- MIDOS for offshore foundations, Bauer Maschinen GmbH in cooperation with the University College of Dublin

Category 5: Design

- Concept Cab - The Future Genius, TU Dresden
- Mecalac MWR, Mecalac France
- Triple-Boom System, Tadano Faun GmbH

The Innovation Award is being presented in 2016 for the 11th time. The competition is a joint project held under the auspices of the VDMA (German Engineering Federation), the HDB (German Construction Industry Association), the ZDB (Central Association of the German Construction Industry), the BBS (German Building Materials Association) and bauma.



Genie® GTH™-844 Telehandler Now Available with New 74-hp High Torque Engine

The Genie® GTH™-844 rough terrain telehandler now comes with a 74-hp, Tier 4 final engine option. Boasting 287 lb ft of torque, the Deutz® turbocharged 3.6 l engine offers similar torque as higher horsepower engine packages with reduced maintenance needs, as there is no regeneration or diesel exhaust fluid (DEF).

In addition to the new 74-hp version, Genie continues to offer a 99-hp Deutz 3.6 l diesel engine, as well as a 99-hp Perkins turbocharged diesel engine.

With the engine update to the GTH-844 model, Genie also took the opportunity to update other components, including the axles. This machine now comes standard with Dana axles, which have 2 gear ratios that are performance matched to each engine size. Also, the GTH-844 telehandler is equipped with new standard features that enhance the customer's experience with the machine.

An optional rear proximity alarm on the GTH-844 telehandler can be used to supplement the operator's direct and indirect visibility, such as when looking

in the path of travel or using the machine's mirrors when maneuvering on the jobsite. This alarm gives the operator an audible and visual indication of obstacles within the detection range of the sensor when the machine is reversing.

The GTH-844 telehandler continues to be the same popular machine it has always been – an ideal tool for loading and unloading, moving and placing and jobsite preparation and cleanup. It features an impressive 3,629 kg maximum lift capacity, a 13.36 m maximum lift height and a 8.59 m maximum forward reach to get jobs done right the first time. And, there is no stopping this powerful performer: Full-time 4-wheel drive and 4-wheel steering enable operators to traverse easily on hills and in rough terrain. Its proportional frame-leveling chassis with dual cylinders allows



operators to pick or place loads up to 10° on side slopes, and its multi-functional, proportional joystick gives operators fast, precise load positioning capabilities.

With a width of 247.7 cm and a height of 239 cm, this telehandler can fit through tighter doorways and openings and can be transported without a special over-width permit. Combined with this narrow width and an outside turning radius of only 419 cm, the new Dana axles make the unit easier to steer and maneuver around any worksite.

Source: Terex Corporation

FM.711

Thank You for 35 Years of Trust!

PRINOTH would like to thank you for your trust over the last 35 years when choosing the GO-TRACT crawler carriers. That was an historical moment at the Granby manufacturing facility, home of the company's North American headquarters, when PRINOTH built and sold its last GO-TRACT!



THE EVOLUTION OF THE MUSKEG AND GO-TRACT TO THE NEW PANTHER SERIES

From the creation of the famous MUSKEG in the 1940s all the way to the successful development of the GO-TRACT carriers in the 1980s, PRINOTH never stopped developing new concepts to satisfy the needs of its customers.

In the early 2000s, the ongoing quest to provide optimal performance, flexibility, reliability and safety to all markets led to the creation of the PANTHER series. In 2011, following more than 3 years of research and development, and a host of PRINOTH-exclusive innovations, the PANTHER platform was rolled out and has not stopped evolving since. Today, the PANTHER is the new benchmark for off-road carriers and the most efficient vehicle that goes where your work and works where you go!

Innovation is at the heart of PRINOTH's mission and vision. Its engineers strive to always go further, and to create new generations of vehicles that fit the needs, realities and eco responsibilities of each of its customers.

Learn more about the PANTHER series at bauma, in Germany. The carriers, equipped with Tier 4 final engine, innovative chassis design and offering payloads of up to 20,865 kg, will definitively get your stamp of approval when it comes to performance, reliability, rapid implement installation and lowest total cost of ownership. By continuing to choose PRINOTH, you benefit from the world's cleanest and most efficient carrier fleet!

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Source: PRINOTH

bauma 2016 FN.822/3

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25 Years in the Refuse Industry

McNeilus Truck & Manufacturing, Inc. is proud to announce 25 years of service to the refuse industry. In 1991, it entered the market with the PacStar Rear Loader. This year, McNeilus



celebrates its silver anniversary and a host of accomplishments, including building a superior factory-direct support and service network and growing a product line of top-performing refuse truck bodies.

Recent innovations include the launch of the Meridian Front Loader, the McNeilus Rear Loader Organics package and McNeilus CODE™.

Source: McNeilus Truck & Manufacturing, Inc.

Mack GuardDog Connect Standard in Mack TerraPro Cabover

Mack® GuardDog® Connect, Mack's integrated telematics solution, is now available and standard in all Mack TerraPro® Cabover models equipped with a Mack MP® engine. Mack made the announcement at World of Concrete 2016 in Las Vegas.

Mack extended the offering of GuardDog Connect to all Mack-powered TerraPro Cabover models after receiving positive customer response to the Uptime solution. Mack TerraPro models can be configured for many applications, such as a concrete pump, dump, mixer or refuse vehicle.

GuardDog Connect is Mack's proactive diagnostic and repair planning system. It monitors fault codes that could potentially shut down a truck or lead to an unplanned visit to the dealer. GuardDog Connect enables quick diagnosis of issues, proactive scheduling for repairs and confirmation that needed parts are in stock and ready to install, all while the truck is still on the job.

Mack made GuardDog Connect standard on TerraPro concrete pump chassis in 2015 and was the first OEM in the industry to offer proactive support service for pump applications. GuardDog Connect has been standard on the Mack Pinnacle™, Mack Granite® and Titan by Mack models since 2013.

Source: Mack Trucks, Inc.



Volvo Penta to Showcase Full Range of Stage IV/Tier 4 Final Engines at bauma 2016

Exhibiting at bauma 2016 in April, Volvo Penta will showcase its full range of Stage IV/Tier 4 final engines, all focused on delivering improved fuel efficiency.

Throughout bauma, Volvo Penta will prove why it is more than just an engine supplier, demonstrating the best ways to optimize machine performance, including maximizing engine fuel economy and lowering emissions in line with regulations.

The full range of Volvo Penta Stage IV/Tier 4 final engines will be on display at the show, which have been extremely well-received by OEMs for many factors, including reliability, robustness and the associated cost effective maintenance.

The engines are produced to the highest quality standards enabling them to be used in demanding on and off-road applications.

Volvo Penta has chosen an exhaust after-treatment solution that requires only Selective Catalytic Reduction (SCR) technology, facilitating a simple and flexible installation for OEMs. As fewer components are used in the manufacturing process, there is less

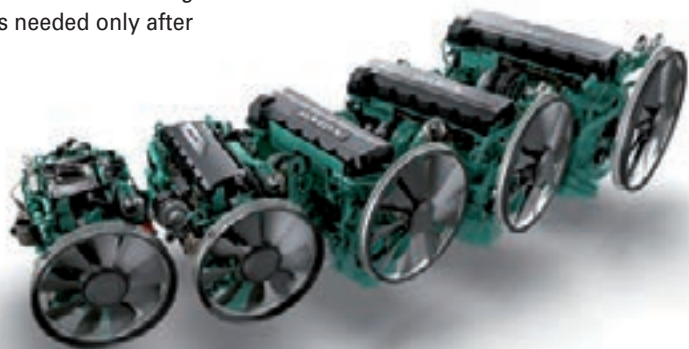
risk of malfunction, maximizing uptime and minimizing maintenance costs.

Further proof of the high quality of Volvo Penta's engines is the extended oil change intervals, with changes needed only after as much as 1,000 hours of use.

The full range of engines are available to meet Stage II/Tier 2, Stage IIIA/Tier 3 equivalent and Stage IV/Tier 4 final emissions standards — meaning that no matter where a manufacturer exports its products, Volvo Penta has an engine to match the market's emission regulations.

This ingenuity has been a hit with OEMs, who have praised Volvo Penta for its ability to meet the requirements of differing regulatory standards.

Volvo Penta is joined by sister companies Volvo Construction Equipment (Volvo CE) and Volvo Trucks, on a joint stand at



bauma 2016, with the strength of each brand contributing to the overall impact of the Volvo Group.

Source: Volvo Penta AB
Volvo Construction Equipment
Volvo Trucks

 C4.327

New Service Program to Keep Curotto-Can™ Automated Carry Cans Running for Less

McNeilus Truck & Manufacturing, Inc., an Oshkosh Corporation company, has introduced a comprehensive refurbishment program for your Curotto-Can™ branded automated carry cans through Street Smart Service™, that is designed to extend the lifespan of your refuse product.

The refurbishment program delivers new-equipment reliability at a far lower cost than purchasing new. In addition, it includes several options that meet or exceed OEM specifications, ranging from minor repair work to major refurbishments that improve the structure of the can.

"The challenge of maintaining refuse equipment requires capable partners with innovative solutions," said Darryl Ash, McNeilus vice president of operations and aftermarket development. "We're excited to have another program to help our customers in this effort, saving them money and reducing downtime."

Along with the refurbishment program,

McNeilus will offer a Curotto-Can automated carry can rental option that allows the customer to rent a replacement can while the refurbishment is being completed, virtually eliminating downtime.

"When issues arise and equipment needs to be on the job, customers deserve unrivaled service and our Street Smart Service brand can provide that," said Mr. Ash. "As more of our customers are looking for ways to extend the life of their equipment and cut costs, this program provides the perfect solution."

Refurbishment services are available through all 28 service centers strategically located throughout North America. Street Smart Parts™ also carries a variety of replacement parts on hand. All technical



support and part services are networked through an integrated call center available 24/7.

Source: McNeilus Truck & Manufacturing, Inc.

The next edition of
Waste & Recycling Expo/Municipal Equipment Expo
will be held in Toronto on
November 9 & 10, 2016



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International Truck Launches HX™ Series

International Truck recently launched the International® HX™ Series, a new line of Class 8 premium vocational trucks designed to deliver the strength and endurance required for the severe service industry. This is the first all-new vehicle introduced by International Truck since 2010.

"The launch of the HX Series is an opportunity for International to recapture a leading position in the vocational market – a segment we previously led," said Troy Clarke, president and CEO, Navistar, Inc. "The launch of the HX Series underscores our commitment to innovation, our dedication to uptime and our position as a leader within the industry."

The new truck series, unveiled at the World of Concrete trade show last month, will replace the International® PayStar® model.

"The design of our new HX Series is



based on in-depth discussions with leading users of severe service applications," said Bill Kozek, president, Truck and Parts, Navistar, Inc. "Each of the 4 models in the series has been engineered to deliver unmatched performance for the most punishing jobs, while making operators more productive."

International is taking orders for this vehicle immediately. The first vehicles will be delivered this spring.

HX Series trucks will be offered, with both set-forward and set-back front axle

models in either short or long hood, depending on the application.

The HX520, a 120" BBC Set-forward Axle Truck or Tractor with primary vocations including heavy haul tractor, construction dump and platform stake/crane, will be formally unveiled at Truck World in Toronto in April.

The HX515 and the HX615 models are powered by Navistar® N13 engines, while the HX520 and HX620 models offer the Cummins® ISX15 engine.

Source: International Truck

sunliquid® Is Awarded the 2015 German Innovation Prize for Climate and Environment

Clariant, a world leader in specialty chemicals, was honored for its innovative sunliquid technology for the production of cellulosic ethanol from agricultural residues as part of the 2015 German Innovation Prize for Climate and Environment (IKU). The biotechnological process was awarded first place in the Process Innovations category and thus prevailed against 14 competitors.

The sunliquid® technology convinced the jury of independent experts in the area of business, science, media and politics, chaired by professor Klaus Töpfer. Biofuels and bio-based chemicals made from agricultural residues such as wheat straw are produced sustainably and economically using this process without competing with food or feed production.

"Clariant is continually investing in the development of sustainable products from renewable raw materials and in the exploration of innovative biotechnologies such as sunliquid. This pioneering process has great potential for the production of

environmentally compatible biofuels and a multitude of bio-based raw materials that are suitable for various specialty products, such as those of the cosmetic industry," says Clariant CEO Hariolf Kottmann.

"Biofuels from agricultural residues play a key role in making mobility more sustainable worldwide. Greenhouse gas emissions can be reduced by up to 95% compared with fossil fuels. The award from the Federal Ministry validates our approach and of course we are very pleased," adds Andre Koltermann, head of Group Biotechnology at Clariant.

With the IKU the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and the Federation of German Industries (BDI)



awarded innovative projects focused on climate and environmentally friendly processes, products and services for the fifth time. The jurors based their selection on the profound technical analysis of all applications by the Fraunhofer Institute for Systems and Innovation Research (ISI). The award ceremony with Federal Environment Minister Barbara Hendricks and Holger Lösch, member of the BDI Executive Board, took place at the BMUB in Berlin.

Source: Clariant International Ltd



Sprinter Extreme Concept Has Super Strength, Unlimited Capability

The heavy-duty Mercedes-Benz Sprinter Cab Chassis is a powerhouse ready to take on the toughest tasks. Now, with the help of RENNtech, the Sprinter has been transformed into the ultimate work machine concept.

From the factory, the Sprinter 3500 Cab Chassis is incredibly versatile, providing an ideal platform for busses, RVs, ambulances and box bodies, just to name a few. Equipped as standard with a powerful 4-Cylinder BlueTEC diesel engine combined with a 7-speed transmission, the Sprinter Cab Chassis has a best-in-class payload capacity of up to 2,900 kg and can tow up to 3,400 kg. The Sprinter Cab Chassis can also transport 3 people, with its available 3-abreast seating.

Long-time Mercedes-Benz customizer RENNtech added numerous touches to the Sprinter Cab Chassis in order to bring it from mild to wild. Starting at the front, a custom roof rack was built to support

6 forward-facing lights with additional spotlights on the sides. A custom brush guard complete with additional fog lights and a powerful winch are located beneath the Sprinter 3500's front bumper. A suspension lift package and beadlock wheels fitted with aggressive off-road tires complete the look.

The Sprinter Extreme concept has also been equipped with a Scattolini ScattoMaax "Tipper" for expanded capability in a variety of environments. This Euro-style dump body allows the Sprinter Extreme to dump over 2,350 kg of payload to either side or to the rear. This 3-way tipping capability provides added flexibility to an already convenient platform.



Standard Load-Adaptive ESP® (electronic stability program) ensures that even when the Sprinter is loaded to maximum capacity, stability is able to be maintained, even on slippery surfaces. By taking the vehicle load and center of gravity into account, ESP automatically brakes individual wheels and reduces engine power to stabilize the vehicle if wheelspin, understeer or oversteer is detected. ESP is standard across the Sprinter product lineup.

Source: Mercedes-Benz USA

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Appointments

Minnich Manufacturing, a leading manufacturer of concrete dowel pin drills, concrete paving vibrators and vibrator monitoring systems, is pleased to announce personnel moves that strengthen the company's customer service and support, sales, and marketing.

Jeff McDaniel has joined Minnich in a business development role. He will lead Minnich strategic growth initiatives by forming new partnerships and working to expand the company's products and services. Mr. McDaniel brings 14 years of experience in the heavy equipment industry.

Randy Cleland has been promoted to Minnich sales manager for the southeastern region. Mr. Cleland covers Tennessee, North Carolina, South Carolina, Georgia, Mississippi, Alabama and Florida. An 8-year member of the Minnich family, he previously served as shipping manager and Auto Vibe service technician for the company.

Rob Minnich, sales manager for the western region, has added the role of marketing manager to his duties. Mr. Minnich will oversee the organization's marketing efforts.

Source: Minnich Manufacturing



Trackless Vehicles Limited is pleased to introduce **Ben Del Nigro** as its new Manufacturer representative for the province of Quebec. Mr. Del Nigro brings with him 16+ years' experience in the municipal and contractor equipment field. From his Laval office, he will have a strong supporting role working with the authorized Trackless Vehicles dealer, Joe Johnson Equipment, located in Anjou.

Joe Johnson Equipment's factory-trained mechanics, parts & service staff will be able to assist Quebec customers with any of their needs. Also having fully stocked service trucks on the road means down time is kept to minimum.

Ben Del Nigro's extensive knowledge in the municipal and contractor equipment market will prove to be valuable in helping current and future customers with their equipment needs. Being fluent in English and French will only make all customer interactions as smooth and seamless as possible.

Source: Trackless Vehicles Limited



ALLU Group, Inc. announced **Edgar J. Chavez** will take over as their executive vice president. Mr. Chavez will assume overall responsibility for taking ALLU Group, Inc. to the next level. For the last 2 years, he has served as director, key national and government accounts and global product development platform-marketing manager for New Holland Construction and Kobelco.

Edgar Chavez's career includes experience with Astec Industries, Mitsubishi International and Volvo Construction equipment, and he now brings his 20+ years of industry knowledge to ALLU.

Source: ALLU Group, Inc.

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As part of a planned leadership succession, **Wacker Neuson Sales Americas LLC** appointed **Johannes Schulze Vohren** as the new North American regional president in mid-2015. He now leads all of Wacker Neuson's sales, marketing, after-market, and logistics activities in both the U.S. and Canada.

Mr. Schulze Vohren started with Wacker Neuson in 1994 and has held a variety of management positions within the company including sales and product support for the U.S. and international markets, business systems and information technology, and logistics. "His experience and broad leadership skills made Johannes Schulze Vohren a natural choice to oversee the North American operation and ensure a smooth transition in leadership," explains Cem Peksaglam, CEO of the Wacker Neuson Group. In his new role as regional president, Mr. Schulze Vohren is responsible for the organization's regional market presence for all product lines and helps set and drive the strategic initiatives that best position the company to maximize market opportunities and performance in the region.

Longtime president, Christopher Barnard, retired effective December 31st, 2015.

Source: Wacker Neuson Group



Canadian Exhibitors at bauma 2016

Aluma Systems	A2.248
AutomaCAD Inc.	B1.401
Axiomatic Technologies Corp.	A3.549
Bartell Morrison, Inc.	A1.335
Birmingham Foundation Solutions Limited	C2.104
Black Cat Blades Ltd.	A6.224
Famic Technologies Inc.	A5.141
Flexxair Inc.	A3.643
GeoRocFor Inc.	C2.214
Hamsar Diversco Inc.	A5.543
Magic Screed /Geroquip Inc.	C1.106
Major Wire Industries Ltd.	B2.149
Metaris Inc.	A3.330
Motion Metrics International Corp	C2.151
Movex Innovation Inc.	B3.118
PRINOTH	FN.822/3
Polycorp Ltd.	C2.416
RAS Industries Ltd.	B2.136
RWF Bron	C4.515/L
Sensors & Software, Inc.	C4.503/J
Shaw Almex Industries Ltd.	B2.139
Thor Global Enterprises Ltd.	B2.120
Ultra-Span Technologies Inc.	B1.414
Valley Blades Limited	A6.551

Kolberg-Pioneer Honored with Prestigious Founder's Award

Kolberg-Pioneer, Inc. (KPI-JCI and Astec Mobile Screens) was recently recognized for outstanding performance with the prestigious Astec Industries Founder's Award for 2015.

The Astec Industries Founder's Award was established in 2014 to annually recognize the top-performing individual subsidiary of Astec Industries. Kolberg-Pioneer, Inc. is one of 3 Astec Industries companies that make up KPI-JCI and Astec Mobile Screens, a worldwide leader in manufacturing equipment for the aggregate, construction and recycling industries.



Jeff May, president of Kolberg-Pioneer, Inc. (left) receives the Astec Industries Founder's Award from Ben Brock, CEO and president of Astec Industries.

"Kolberg-Pioneer, Inc. is very pleased to receive the Astec Industries Founder's Award this year," said president Jeff May.

"The company had another excellent year in 2015, and we are proud to be recognized for this honor, especially considering all of the other Astec Industries companies who could have received this award. As usual, the dedication and hard work displayed by our associates was exemplary and showed their commitment to providing the best equipment value and service in the industry."

"We'd especially like to thank our many dealers and customers for their continued support and trust in us," he added. "Without them, we know none of this would have been possible."

Kolberg-Pioneer, Inc. is the second Astec Industries company to be honored with the award. Last year, Johnson Crushers International – which is part of KPI-JCI and Astec Mobile Screens – was named recipient of the award.

Source: KPI-JCI and Astec Mobile Screens

Astec Industries, Inc.

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Agenda

NASTT's 2016 No-Dig Show

March 20 - 24, 2016
Dallas, TX USA

2016 Quebexpo - ALQ's Rental Show

March 22 - 23, 2016
Laval, QC Canada

World of Asphalt and AGG1

March 22 - 24, 2016
Nashville, TN USA

Atlantic Heavy Equipment Show

April 7 - 8, 2016
Moncton, NB Canada

bauma 2016

April 11 - 17, 2016
Munich, Germany

Truck World

April 14 - 16, 2016
Toronto, ON Canada

Expo Grands Travaux

April 22 - 23, 2016
Montreal, QC Canada

TRUXPO / Pacific Heavy Equipment Show

May 13 - 14, 2016
Abbotsford, BC Canada

Strive for Sustainability Solid Waste & Recycling Conference/Trade Show

May 15 - 18, 2016
Sagamore, NY USA

IFAT

May 30 - June 3, 2016
Munich, Germany

AORS Municipal Public Works Trade Show

June 1 - 2, 2016
Sturgeon Falls, ON Canada

Ankomak 2016

June 1 - 5, 2016
Istanbul, Turkey

Waste Expo 2016

June 7 - 9 (exhibits); June 6 - 9, 2016 (seminars)
Las Vegas, NV USA

INTERROUTE&VILLE

June 14 - 16, 2016
Paris, France

World of Concrete Europe - Exhibition & Forum

September 6 - 7, 2016
Paris, France

DEMO INTERNATIONAL 2016

September 22 - 24, 2016
Maple Ridge, BC Canada

MineExpo

September 26 - 28, 2016
Las Vegas, NV USA

IFAT India

September 28 - 30, 2016
Mumbai, India

Xplor 2016

October 5 - 6, 2016
Montreal, QC Canada

Offshore Energy Exhibition & Conference

October 25 - 26, 2016
Amsterdam, The Netherlands

Waste & Recycling Expo Canada

November 9 - 10, 2016
Toronto, ON Canada

BAUMA China

November 22 - 25, 2016
Shanghai, China

BAUMA CONEXPO INDIA

December 12 - 15, 2016
Gurgaon/Delhi, India

CONEXPO-CON/AGG 2017

March 7 - 11, 2017
Las Vegas, NV USA

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April 4 - 7, 2017
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