

InfraStructures

CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 20 • Number 10 • November 2015 • *English Edition*





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A Brief Word...

We'll hopefully by the time you read this you will be over October's fright.

What does it mean for our industry and for the economy generally? In all likelihood it will be short term gain and long term pain.

We can anticipate an initial spending commitment on infrastructure for as much as two years. This will be similar to what we have seen in the past few years, though the regional emphasis will likely change.

So as the dollar lags at near all time lows, capital equipment costs will be high, so construction costs will also be high stretching the budget funding to the maximum.

In this period, interest rates will begin to rise, though not driven by Canadian policy we will follow. The end result will be a significant knee jerk as our public officials realize we can't afford much of what has been promised.

So, enjoy it while you can and plan on having a good Christmas, it may be a while until your next one.

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On the cover:

with winter coming, road maintenance professionals and landscapers must be looking forward to a few months of cold and snowy weather.

JCB ADDS DEERLAND TO ITS DEALER NETWORK

Deerland, headquartered in Fort Saskatchewan, Alberta has joined JCB's dealer network as Deerland JCB. The company offers JCB equipment including Loadall telescopic handlers, wheel loaders, Telemasters, and the world's safest skid steers and compact track loaders with unique side-entry doors.

Deerland JCB has two additional loca-

tions in Alberta – one in Vegreville and the other in Athabasca, the Athabasca location is moving to a brand new building in 2016 just east of its current location. All three locations will offer JCB agricultural equipment.

"Deerland's innovative and industry leading staff is consistently striving to find the best solutions for our customers," said Brett Yakimetz, owner of Deerland JCB. "In order to do that to our fullest potential we

needed to find a line of skid steers, wheel loaders, and telescopic handlers that is as forward thinking and quality driven as we are. That's where the partnership between us and JCB seemed like a natural fit."

Deerland has over 30 years of experience in the sales and service of agricultural equipment as well as a dedicated turf and lawn department. The staff of 100 employees includes a sales team to match customers with the best equipment for any task and a parts and service department to assist with repairs and upgrades.

"Deerland's innovative focus and reputation for excellent customer service perfectly aligns with JCB's own objectives," said Dan Schmidt, JCB North America's vice president of Agriculture. "We look forward to working together to bring the best quality equipment and service to customers."

Source: JCB

G. COOPER EQUIPMENT RENTALS TO ACQUIRE SMS RENTS

G. Cooper Equipment Rentals Limited of Toronto, Ontario, recently announced a definitive share purchase agreement to acquire SMS Rents, a division of SMS Construction and Mining Systems Inc. The transaction is expected to close by December 31, 2015.

Cooper, backed by Canadian private investment firm, SeaFort Capital, based in Halifax, Nova Scotia, is the leading compact equipment rental company in the Greater Toronto Area, operating 6 full service equipment rental locations from Burlington to Scarborough. SMS Rents, a member of the Sumitomo Corporation Group, is a division of a major Canadian construction equipment business. SMS Rents employs over 200 people and operates 15 branches located across Ontario and Quebec.

Announcing the purchase, Darryl Cooper, CEO of Cooper said, "By combining SMS Rents and Cooper, we are creating a strong Canadian business with considerable scale. Each of our 21 full service branches employs a highly skilled and knowledgeable team and offers a specialized fleet comprised of category leading brands." Doug Dougherty, president of Cooper, added, "SMS Rents has an excellent reputation for customer service and support. SMS Rents' employees share our passion for delivering the best possible

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equipment solutions for customers. I am confident that the combination of Cooper and SMS Rents will result in exciting new opportunities for all employees and continued great service for customers, over a much broader network. This will also be our first exposure to Quebec and we are excited about the opportunities in this vibrant marketplace."

Established in 2003, SMS Rents has built a loyal customer base across several industries, including building construction, infrastructure development, demolition, landscaping, industrial maintenance and mining.

The 2 branch networks will continue to operate under their current business names for the immediate future and through a transitional phase in the New Year. Mr. Dougherty notes that the service areas of the 21 locations have almost no overlap and does not anticipate any store closures. "This is a positive move for both companies," he says. "This agreement was a collaborative effort between companies that share common values and a common vision. Our people, facilities, and rental fleets are highly complementary. We expect the integration of our businesses to result in an excellent stable platform for future growth."

Source: G. Cooper Equipment Rentals Limited

DFK EQUIPMENT SALES NOW DISTRIBUTES GRYB PRODUCTS

By achieving a partnership with DFK Equipment Sales Inc., GRYB will now be able to offer its quality products and services in the regions of Ontario and Atlantic Canada.

DFK Equipment Sales Inc., in business for over 30 years, sells and services farm equipment, light industrial, recreational and turf equipment. The company is committed to developing markets for manufacturers and providing the services required to best support these products.

This partnership will contribute to the expansion and growing reputation of GRYB. "We are proud to offer our wide range of products on a larger territorial scale," says Rémi Beaudoin of GRYB. "Our ultimate goal is to always offer, quality products with a more personalized service which adapts to customer requests, and that is close to home. DFK is very competent and its employees know the products

they sell. We believe that the partnership will be beneficial!," he adds. According to Mr. Beaudoin, having representatives that are close to their clients increases service quality and accessibility of parts.

To demonstrate their shared vision, DFK Equipment Sales Inc. and GRYB will be at Landscape Ontario Congress in January in Toronto. Several products will be displayed.

"People are invited to come and meet

us and our team and learn more about our products," concludes Rémi Beaudoin.

Source: DFK Equipment Sales Inc., GRYB  booth 1972

JONAS CONSTRUCTION SOFTWARE ANNOUNCES INTEGRATION WITH CONTIGO SYSTEMS

Jonas Construction Software recently announced its integration with Contigo Systems, an industry leader within the



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location-based services market.

The Contigo system provides real-time vehicle location and status information, which is shared with Jonas Construction Software to enable tracking and reporting of job scheduling, asset utilization, and vehicle location. This integration greatly enhances the Jonas Dispatch Scheduler, as service-based industries will now be able to better manage their fleet and improve productivity overall. With GPS routing

technology, the nearest technician to the next service job can be scheduled, thus enhancing the efficiency of both the back office staff as well as the technicians in the field.

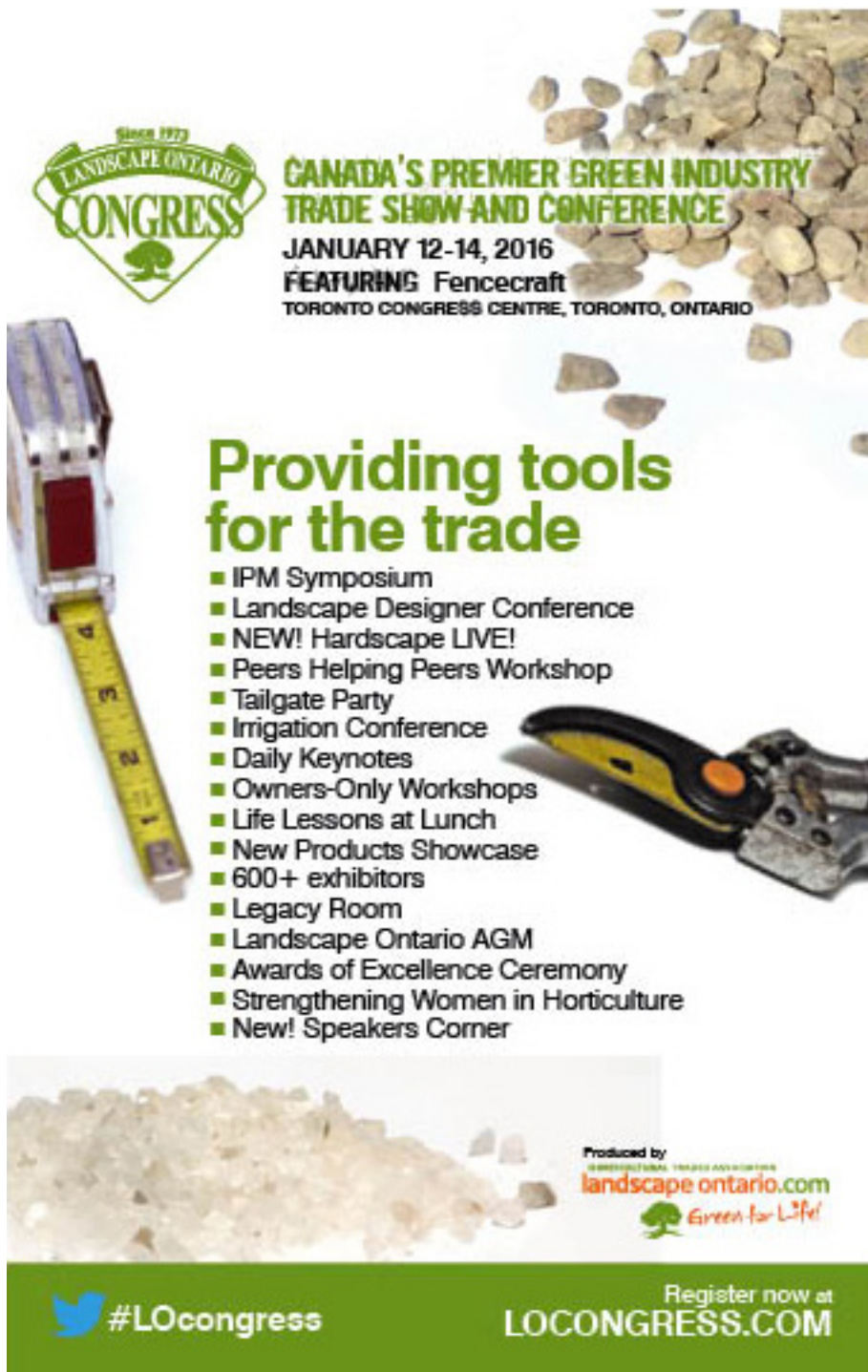
"The combined Jonas Construction Software and Contigo System offering saves time and money for construction and trade businesses by ensuring that dispatchers and back-office coordinators no longer need to move between two separate

products to accomplish their most pressing tasks," states Matt Naish, vice president Sales & Marketing, Contigo Systems.

"Having the systems talk to each other not only increases dispatch efficiency but also improves real-time and long term decision making for our mutual customers, giving them a leg up on the competition."

With an industry leading GPS dashboard and real time tracking capabilities, service-based construction companies will be able to operate a more streamlined and optimized business, effectively enhancing efficiencies and producing greater results.

Source: Jonas Construction Software



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VINCI NAMED PREFERRED BIDDER FOR THE REGINA BYPASS PROJECT

The consortium led by VINCI Concessions (37.5%) and consisting of Parsons Enterprises (25%), Connor Clark & Lunn GWest fund (25%) and Gracorp Capital (12.5%) has been designated by the Saskatchewan Ministry of Highways and Infrastructure as the preferred proponent for a public-private partnership contract with a term of 30 years for the completion and operation of the bypass highway of Regina, Saskatchewan.

The Regina Bypass is the first transport infrastructure project to be completed by a public-private partnership in the province of Saskatchewan. The bypass is part of the Trans-Canada Highway 1, which plays an important role in movement of goods. It will also improve mobility by speeding up traffic flows and will increase traffic safety around the city of Regina.

The project involves the design, financing, construction, operation and maintenance of the 61 km – 2x2 lanes – of the Regina Bypass, including 37 km of new construction, 24 km to be renovated and 12 interchanges, together with their access roads and 38 civil engineering structures, for a total of approximately 400 lane-km.

The construction works, which are estimated to last about 4 years, will be carried out by a joint venture consisting of Carmacks – a wholly-owned subsidiary of Eurovia (18.75%), VINCI Construction Terrassement (18.75%), Graham (37.5%) and Parsons Canada Ltd. (25%). After construction is completed, the motorway will be operated and maintained by a fully-owned subsidiary of VINCI, for a period of 30 years.

Source: VINCI

TURNER & TOWNSEND CHOSEN FOR MAJOR CANADIAN RAIL NETWORK TRANSFORMATION

Turner & Townsend, the global program management and construction consultancy, has been selected to support a five-year program to modernize one of Canada's major rail networks.

The Metrolinx Regional Express Rail (RER) Program will involve the electrification of the rapid transit system for the greater Toronto and Hamilton area in Ontario. This upgrade will increase capacity and reduce travel times for passengers.

Environmental and engineering consultancy CH2M has contracted Turner & Townsend to carry out cost estimation, risk and claims management support for the Project Management Office (PMO). This will help ensure the safe and successful transformation of the fully operational rail network in Canada's most populated regions.

Turner & Townsend has been involved in other Metrolinx projects, including the Union Pearson Express (passenger rail service between Pearson airport and downtown Toronto) in a cost consulting role for Infrastructure Ontario.

"We are delighted to be working once again with CH2M, bringing our global expertise from delivering some of the most challenging major transit and rail programs in the world, including Europe's largest construction project – Crossrail in the UK," commented Dominic Leadsom, director for Turner & Townsend in Canada. "By defining and implementing controls, processes and procedures through the PMO, we will work closely with CH2M and Metrolinx to deliver the successful roll out of this network-wide program."

"Our team at CH2M has fostered strong relationships throughout the Metrolinx organization and we are pleased to have Turner & Townsend again as part of our team," added Doug Willoughby, CH2M's Transportation business manager for Canada. "We are deeply committed to understanding the project needs, which translates into a winning partnership for all involved. Every project we take on with Metrolinx is a chance to move the community forward one more step, and we see that as an incredible privilege."

Source: Turner & Townsend, Canada

LAUNCH OF NEW COMPANY TO REVOLUTIONIZE THE MODERN ERA OF MODULAR BUILDING CONSTRUCTION

Company owners Barry Zekelman, JMC Steel Group Inc., and Dominic Amicone, Amico Affiliates, are proud to announce the launch of Connexio Building Systems Inc. Connexio was formed in partnership for the use of patented VectorBloc precision HSS connection systems to construct off-site construction buildings.

VectorBloc precision HSS connection systems are standardized, prequalified and pre-engineered "building blocks" that are available from multiple suppliers and assemble efficiently to create complete, operational buildings. The use of the VectorBloc system delivers a precisely fitting, higher-quality structure in less time than other construction options. The precision locating features of the VectorBloc chassis system provide for the highest attainable

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Connexio is proud to be using VectorBloc products, which are 100% North American-made with the chassis plant colocated at JMC Steel Group's Atlas Tube mill in Harrow, Ontario. Atlas Tube's Harrow facility is the only facility in the world with the capability to convert steel coil into structural modular building chassis under one roof. Beyond the chassis themselves, the portfolio of VectorBloc's modular building solutions extends to include com-

prehensive methods for manufacturing, hoisting and surveying building modules. This delivers efficiencies in each stage of the building construction process.

"The investment in capital and technical expertise on behalf of JMC Steel Group is a direct result of the benefits that HSS offer the building construction market in terms of user friendliness and efficiency," stated Barry Zekelman, chairman and CEO of JMC Steel Group. "On behalf of the JMC Steel Group and VectorBloc partnership, we are grateful for the confidence shown by Con-

nexio in the VectorBloc system."

"Amico is thrilled to make this strategic investment towards revolutionizing vertical construction technology. As demands on sustainability, building quality, 'value for money' and expediting construction completion timelines accentuate, it is imperative that these new construction methodologies are perfected and implemented to ensure that the building industry meets these challenges," commented Dominic Amicone, Amico's CEO.

Amico Affiliates is a family-owned Canadian development company that is recognized for meeting clients' needs by developing an in-depth understanding of project objectives, generating innovative approaches, assembling a top-flight team, and putting in mechanisms to facilitate and support a client-based approach to project management.

Over the past 28 years, Amico has earned a reputation for its distinctive competencies and its track record of quality and excellence in delivering projects on time and on budget. Amico brings significant expertise and experience in managing large, complex and highly visible projects with demonstrated acumen in issues management regarding neighborhood and community implications, legislative and regulatory requirements, and communication and relationship elements. Amico has established a strong presence in the institutional and public sectors with significant experience in health care, commercial and public infrastructure projects.

"The town is excited to welcome Connexio to establish their new business venture in Tecumseh (Oldcastle). The experience and ingenuity of Dominic Amicone and Barry Zekelman bring immediate integrity and anticipated success for this new company," said Tecumseh Mayor Gary McNamara.

Source: JMC Steel Group Inc.

3D POINT CLOUD PROCESSING SOFTWARE NOW INCORPORATES HIGH-DYNAMIC-RANGE IMAGERY

Leica Geosystems has teamed with NC-Tech, developer of reality imaging systems, to deliver automated, colorized 3D point clouds for enhanced usability and clarity.

In Leica Cyclone, 3D point cloud processing software, users can now automatically import and align high-dynamic range (HDR) data from NCTech's iSTAR camera

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database, producing enhanced deliverables quicker and easier.

"It is not only about attractive images but also the accuracy to which these images fit the 3D point cloud data that is paramount, and NCTech's iSTAR camera produces high-quality HDR imaging at the accuracy everyone expects," said Faheem Khan, vice president, business development for Leica Geosystems High-Definition Surveying (HDS). "Including this capability directly into Leica Cyclone provides fully optimized workflows for maximum productivity. This starts from data collection through to deliverable production that leverages new products, such as Leica TruView Global and JetStream to tackle the increasingly complex challenge of multi-platform, multi-device and multi-discipline project delivery."

Previously, Leica Cyclone users accessed iSTAR imagery database through NCTech's ColourCloud software application, which produced colorized point clouds in E57 format. With the new partnership, export and reimport of this highly-accurate data is eliminated, speeding up and simplifying the overall 3D point cloud creation process.

"We are excited to collaborate with Leica Geosystems on this development, which provides direct access for Leica Cyclone users across the world to colorize their point clouds using iSTAR's panoramic HDR imaging," said Cameron Ure, CEO, NCTech. "With our iSTAR products, we are focussed on capturing the most accurate color data as rapidly as possible, and everyone benefits when that data is seamlessly integrated into our partners' applications."

NCTech designs and manufactures leading 360° reality imaging systems that automate and streamline the workflow of image documentation and can be used repeatedly, accurately, consistently by anyone, anywhere.

Leica Geosystems is part of Hexagon, a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

Source: NCTech Limited
Leica Geosystems

VERMEER INTRODUCES JOB READY™ PRE-OWNED EQUIPMENT PROGRAM

The Vermeer Job Ready™ program provides a new solution for the pre-owned equipment market. Designed to

give contractors peace of mind that used equipment will be productive long after it is sold, the Job Ready program combines the support of the trusted Vermeer dealer network and a robust service contract that covers major component failure.

Coverage varies by product line, but in the case of an HDD, major components of

the engine, fuel system, exhaust system, cooling system, select electrical components and hydraulics are included in the Job Ready program.

Source: Vermeer Corporation

 booth 1542

Polaris Introduces the All-New GEM®

Polaris Industries Inc. is introducing the all-new Polaris GEM®. The new GEM has more built-in comfort and street-legal safety features than a golfcart, and is more maneuverable, cost-efficient and sustainable than a truck or van. It offers a spacious interior with a compact footprint and quiet electric power for low-cost, low maintenance operation. GEM is the market leader in the electric low-speed vehicle (LSV) industry and has sold more than 50,000 vehicles worldwide. GEM vehicles have been driven more than 725 million km, saving almost 75 million l of gasoline. And now, the ride is even better.




Whether you are moving people or cargo, the new GEM vehicles get the job done easily and efficiently. Built with quality and durability in mind, GEM features an aluminum chassis that passes SAE roof-crush-test standards, front-wheel disc brakes, an automotive-style suspension and a variety of maintenance-free battery options. The result is a reliable, zero-emissions vehicle with a smoother ride.

GEM vehicles provide the versatility to go anywhere – indoors, outdoors, streets or sidewalks. GEM's premium safety features including high-back forward-facing seats, 3-point seat belts, an automotive glass windshield, and LED signal lights provide drivers and riders increased confidence. With a maximum speed of 40 km/h, GEM vehicles are legal to drive on streets in most states and provinces, typically on roads marked up to 55 km/h. The optional RiderX™ app provides free access to maps of nearby residential roads, helping you plan your trip as well as track your vehicle's performance.

The new GEMs include Smart Power that matches the power to the task, combining an efficient electrical system and a right-sized motor, with the ability to choose the best combination of battery and charge options. In addition to more traditional battery options, GEM is the first vehicle in the industry to offer a warranty-backed Li-Ion battery.

In addition to battery options, all GEM vehicles are fully customizable to enhance comfort, convenience and productivity. In-windshield defrost, electronic power steering, integrated doors and a full range of rear carrier options are just a few of the factory-installed and warranty backed options available with a GEM. The GEM eL XD is the first vehicle of its kind to offer a recessed bed option to lower loading height and maximize hauling capability. With its rugged build, the ability to haul over 635 kg, and the wide variety of accessories, this vehicle delivers a smart alternative to traditional transportation options.

Source: Polaris Industries Inc.

 booth 1385A

A Fully Mobile, Customizable Air Compressor Room

Industrial compressed air systems generally have operating shifts of several hours per day, as well as producing potentially hazardous noise, and not to mention the considerable amount of floor space they can take within your company's infrastructures. For these modern industrial challenges, Comairco has a solution. The installation of an exterior and electrical compressor station, or AWA package (All Weather Air package), could be the answer to your industrial needs.

Particularly inexpensive in comparison to other industrial compressed air systems, because of its low energy requirements, AWA packages prove to be considerably efficient when it comes to managing small



spaces, or reducing noise levels.

With its unique "Comairco" trademark, a leader in the field of industrial compressed air technologies in North America for over 40 years, the company has engineered a compact, all inclusive, and portable, robust and test proved metallic compressor station, customizable to your industrial needs, with the advantageous capacity of being installed anywhere on your location.

The AWA packages enable you to operate your compressed air system efficiently and effectively while focussing on your business operations instead of your equipment, and thus, regardless of weather conditions.

The AWA mobile compressed air station does not require supplemental logistics in installation, and conveniently only necessitate a single electrical, and a single pneumatic connection.

Fully customizable according to your needs, and also available for an already existing air compressor, dryer, or receiver tank, it is equally suitable for a short-term



installation, as for permanent use.

Additionally, its ultra-rigid design has been tested, and is guaranteed to stand up against extreme weather (environments ranging from -40°C to 50°C), and the steady structure can be easily managed; only requiring the help of a forklift to move.

In order to respond adequately to industrial demands, the AWA outdoor air compressor station offers numerous

other advantages: energy costs up to 8 times lower than those of traditional diesel compressors, reduced heating costs by recovering the heat produced by your compressor, an arched roof that prevents the accumulation of water, lockable doors, 220 PSI aluminum pipes guaranteed against leaks for up to 10 years, potential municipal tax exemptions (check with your local government agencies), and reduced installation costs, to name a few.

Available for purchase or lease, the AWA compressed air station can also be

operated using a programmable remote control system, which helps in providing precise temperature and pressure alarm readings.

Because every project is unique, the AWA outdoor mobile station is available with a multitude of different options and configurations in order to suit your specific needs.

Source: Comairco



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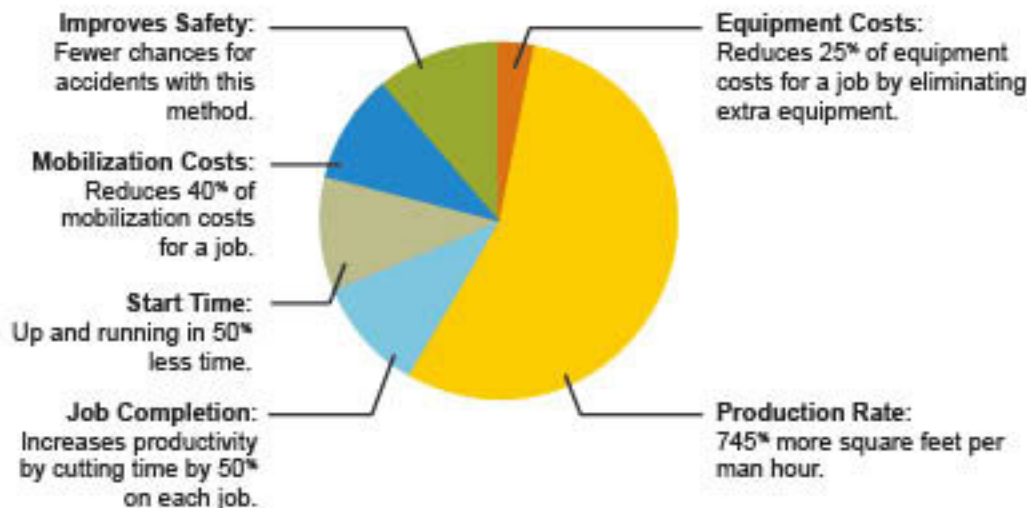
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AUTO II STEERING SYSTEM®

The Sonic SideGrip® vibratory pile driver substantially improves job efficiency while reducing extra costs. The side-gripping jaws working in unison with the Auto II Steering System allow for increased maneuverability, driving and capability.

SONIC SIDEGRIP® VIBRATORY PILE DRIVERS



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Manufacturer and Supplier of Foundation Equipment

Contractors Add TrucBrush® to Menu of Snow Services

TrucBrush Corporation offers a mobile device to address the winter's challenge of snow accumulation on fleet rooftops for companies who move freight across North America's Snowbelt. The polypropylene-bristled broom device, called TrucBrush®, quickly connects to a front-end loader that is commonly utilized in snow management, making it a mobile, fast and safer method than other alternatives.

Embraced by the trucking industry, TrucBrush® is the first device that is easily outsourced to a facility's snow service contractor. In the past, contractors could only employ manual labor, one of the most dangerous options for clearing snow off the tops of trucks and trailers, that has more recently come under scrutiny by insurance companies. "The tops of trailers are not designed to withstand the weight of a driver or other personnel on top to clean the accumulated snow and ice," said the American Transportation Research Institute (ATRI) in a study of the issue. "Furthermore, the potential for slips, falls and even death associated with individuals attempting to get to the tops of trailers covered in snow and ice to clean the trailer top far outweigh any potential benefits," they said.

The continuation of harsh winters has driven more states to institute additional transportation legislation aimed at reducing the number of vehicles traveling with accumulated snow and icy debris on their rooftops. "Canadian efforts to address this safety issue mirror those in the U.S., though some aspects are more progressive than the U.S.," said ATRI. Quebec, for example, has a regulation specifically prohibiting any vehicle operator from allowing snow and ice to fall from their vehicle.

For many contractors, TrucBrush represents an opportunity for a new pool of clients, namely distributions centers, trucking terminals and bus companies. Others are utilizing TrucBrush to elevate their strategic relevance with existing clients by expanding their service offerings. "I added TrucBrush at two of my clients' distribution centers last winter as a secondary service to my snow management contracts, which also replaced a fixed snow scraper system at one location that had been an issue for my client," said Dale DesMarais of DesMa-

rais & Sons.

"TrucBrush is a great way to grow your business and show your client that you can assist them with one of their biggest winter-related issues: safely and effectively removing snow from the tops of their fleets."

It is a win-win for contractors and their clients. "The TrucBrush has been a pivotal component to our fleet when dealing with our harsh winters," said TrucBrush customer Jarod Warsofsky, general manager of Boston Trailer.

"The savings we have gained from significantly reducing down time has made this investment well worth it. TrucBrush is quick, easy and very effective. Now we can effectively clear 20 to 30 trailers in the amount of time that it would take us to shovel one," he said. It takes approximately one minute to clear snow from a tractor-trailer and 30 seconds for a typical box truck.

"I've worked on the issue of accumulated snow on trucks and trailers in transit for twenty years," said Mike Riley, president of the Motor Transport Association of Connecticut. "TrucBrush is a really innovative approach and one answer to what the trucking industry has been looking for to address the concern," he said.

TrucBrush originated as a response to a request by a manager of a large Boston-based airfreight company to find a way to manage the largest snow-related problem in their industry. "He was seeking



a solution that was safer than the manual method and did not require significant infrastructure and year-round dedicated facility space to effectively remove snow from the tops of the company's trucks and trailers," said Debora Babin Katz, vice president of TrucBrush Corporation who noted that TrucBrush recently received its patent. Manufactured in the U.S. and sold throughout North America, Canadian TrucBrush dealers include Quebec-based E2HS and Spectrum Equipment in Calgary, Alberta.

Source: TrucBrush Corporation

You can watch videos related to some of our featured stories on www.infrastructures.com

Watch for the  logo

Legacy Achieves ISO 9001:2008 Quality Certification

Legacy Building Solutions has achieved ISO 9001:2008 certification, the highest quality-management certification standard available in industrial manufacturing. The comprehensive system audits cover every aspect of operations.

ISO 9001:2008 is a quality management system standard that was developed by the International Organization for Standardization, which is an association of governmental and nongovernmental organizations from many countries. The ISO 9001:2008 standard is utilized to certify quality management systems that focus on continuous improvement, customer satisfaction and the active involvement of both management and employees in a process-based approach.

As part of the ongoing ISO certification process, Legacy will undergo an annual quality audit to ensure that every level of the organization – from engineering to manufacturing to customer service – is working toward continuous improvement

to achieve greater customer satisfaction.

"Fulfilling the strict requirements of the ISO 9001:2008 standard highlights our focus and commitment to deliver total customer satisfaction," said Ben Fox, president of Legacy Building Solutions. "Each individual in our operations must be wholly dedicated to the pursuit of quality. By scrutinizing our enterprise at every level, we assure that our customers are receiving superior customer service and the highest quality products."

Legacy Building Solutions is the first manufacturer to create tension fabric buildings on structural steel I-beams. This rigid-frame engineering concept provides a higher level of design flexibility over traditional fabric structures, enabling customers to specify the exact dimensions



and building accessories they require. Legacy fabric structures feature durable polyethylene or PVC fabric roofs with high translucency that allows buildings to be filled with natural light.

In addition to the new ISO 9001:2008 certification, Legacy has previously been recognized by the Canadian Standards Association (CSA) A660 certification program for steel building systems. To date, Legacy's in-house, professional installation crews have constructed more than 35 million square feet of fabric structures.

Source: Legacy Building Solutions



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The Bolts of Bosphorus Bridge Were Tightened Precisely Using ITH Bolting Technology

Franz Niklas Gampe, on behalf of
ITH GmbH & Co. KG
Special Collaboration

nearly 700 reduced shank bolts M36 x 734 (36 mm x 734 mm) of all 84 cable clamps were tightened precisely and reliably. ITH Bolting Technology provided bolting tools, engineering know-how, professional project management and fulfilled all requirements of this international large-scale project.

TIGHTENING CABLE CLAMP BOLTS PRECISELY WITH ITH BOLT TENSIONING CYLINDERS

To carry the various loads (self-weight, working load, dynamic loads) efficiently, main cables of suspension bridges are often made out of numerous single steel wires. This concept is also used at the Golden Gate Bridge in San Francisco, California, for example.

These high-strength wires are anchored in concrete foundations on both sides of

while anchoring in a cast iron plate when fixed to the traffic-carrying deck.

USING CARDANIC WASHERS WHEN BOLT-ING CABLE CLAMPS

Compared to steel parts in machine engineering the production tolerances in steel construction and the tolerances of the concrete-composite cable clamps are relatively high. The supporting surfaces were not machine processed. This and parameters of the design of the clamps lead to a certain vertical misalignment of the reduced shank bolts. This effect was compensated by the use of cardanic washers, which were included between the nuts and the supporting surface.

Accordingly, the ITH Bolt Tensioning Cylinders were designed with integrated cardanic washers as well.

The Bosphorus Bridge and the Fatih Sultan Mehmet Bridge are currently the only 2 suspension bridges spanning the Bosphorus strait in Istanbul, Turkey, with the Yavuz Sultan Selim Bridge under construction.

Connecting Europe and Asia, they are gravity-anchored suspension bridges with steel towers and inclined hangers.

The Bosphorus Bridge, built in 1973, has a total length of 1,560 m. Its 2 main cables each measure 2.5 m in diameter. These main cables consist of numerous, smaller and high-strength steel wires which are pressed together by 84 concrete cable clamps. During a main overhaul project



the coast (anchor blocks). While extended over the 2 main towers of the bridge, the wires are pressed together and held by large concrete cable clamps. The clamps also provide a suspension point for the series of vertical hanger cables, which carry the deck. At the suspension point, the cables are seated in a spherical bearing

"With this customized design we ensure that the required preload forces are applied

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evenly and with a high precision," explains Frank Hohmann, general manager of ITH Bolting Technology. "This is essential for the long-term stability of the bolted joint."

PRECISE IMPLEMENTATION OF THE PRE-LOAD FORCES BY ITH MULTI TENSIONING

Before tightening the bolts of the cable clamps, the main cable was pressed together by a hydraulic press. After that, all bolted joints were tightened simultaneously by using the "ITH Multi Tensioning" method.

Therefore 10 (or 4 depending on the application) ES 36-470 type ITH Bolt Tensioning Cylinders were connected to an hydraulic circuit and then connected to the ITH hydraulic pump, ensuring the preload forces are transferred into the bolted connection with a tight tolerance and high precision of $\pm 2.0\%$.



"Obviously, no project partner could afford any time delays. We are happy that all sides were satisfied with project manage-

ment and bolting job performance by ITH."

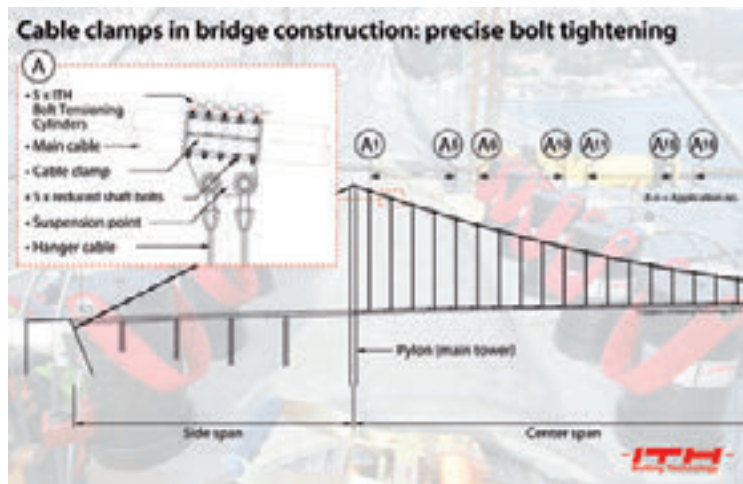
For this major overhaul project of the Bosphorus Bridge, the Turkish Ministry of Traffic contracted a Japanese construction company, which chose

ITH Bolting Technology for their expertise in bolted joints.

"International projects are our daily business. It was beneficial to include our team from ITH Japan into the project," explains

Frank Hohmann. "We are thankful for the trust our customer has set in us and happy that we have met all expectations."

ITH Bolting Technology maintains long-term relationships to worldwide industry leaders, which trust in the know-how and the experience of ITH Bolting Technology. Among other industry sectors ITH bolting tools are used in all power generating industries like wind turbines, construction and mining machines, oil & gas, offshore industries, general engineering companies and more. ITH bolting tools have also been used at the Oresund Bridge between Denmark and Sweden and the Kattwyk Bridge in the harbor of Hamburg, Germany.



INTERNATIONAL INDUSTRY LEADERS TRUST IN ITH BOLTING TECHNOLOGY

"Infrastructure projects of this size create a certain public attention, because it affects the people's lives," says Mr. Hohmann.

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Watch for the ITH logo

Installation of the Cables for the 3rd Bridge Over the Bosphorus

Since April 2015, teams from Freyssinet (Soletanche Freyssinet/VINCI Construction) have been installing the 176 stay cables of the Yavuz Sultan Selim Bridge in Istanbul, Turkey.

Hybrid cable-stayed and suspended, this structure with a span of 1,408 m will set a new world record for a cable-stayed span, dethroning the Russky Island Bridge

(Russia) which, with a 1,104 m span, was opened in 2012 and is also equipped with Freyssinet cables. Once the works have been completed, the bridge will boast 2x4 traffic lanes plus 2 railway tracks in the middle, thus providing a way of bypassing Istanbul and crossing the



Bosphorus to the north of the city.
Source: VINCI

The End of the Road for Noise Complaints!

Oxford Plastic Systems has joined forces with a key trade association in the U.S. to spread the word about its innovative products which reduce risk to both contractors and pedestrians during street works – whilst also reducing the noise pollution associated with steel road plates.

Oxford Plastic Systems has become a National Partner of NUCA (National Utility Contractors Association) which works

communication services, contractors are finding them much easier and safer to lift into place than heavy steel plates – and much more stable and durable than plywood.

Molded from a single piece of glass-reinforced



composite, the company's trench covers are much lighter than

as their steel equivalents, with a ribbed framework on the underside providing added strength.

Both Oxford Plastics road plates and trench covers have a permanent slip-resistant surface to make them safe for pedestrians too.

Source: Oxford Plastics Systems



solely for the utility construction and excavation industry in the U.S.

This partnership is raising awareness across North America of the company's road plates and trench covers, which ensure the safety of contractors, pedestrians and vehicles during utility, cabling and maintenance projects.

Made from composite materials, Oxford Plastics innovative road plates feature an integral flexible edge made from a PVC compound, which acts as a noise dampener when vehicles drive over them, providing the ideal solution to noise pollution in urban areas caused by the knocking of steel plates.

Popular with utility firms, this innovative product is particularly successful in allowing the temporary reopening of the roadway during the rush hour to reduce traffic delays.

Oxford Plastics products are much easier and safer to maneuver than heavy steel plates and can simply be lifted into place by 2 people, eliminating the need for heavy lifting equipment – yet they are strong enough to withstand the weight of an 43.5 t truck. As a modular system which can be locked together to create a range of sizes, the plates also offer flexibility to suit each specific situation.

Meanwhile, Oxford Plastics trench covers for sidewalk use include Safe Cover 16/12, currently being deployed in Yonkers, New York. Popular with utility companies working on gas, water, electricity and

traditional steel covers and are tested to a distributed vehicle weight of up to 2 t – so they are every bit as strong and durable

Completion Now Within Reach: Flooding of a Canal Section

With the flooding of a canal section in June 2015, tests have begun in readiness for the scheduled opening of the expansion project in 10 months time. Since 2011, PERI has delivered around 1,100 containers of formwork and scaffolding materials to Panama. Once again, the company has demonstrated its superb service capabilities as well as ability to deliver – in this particular case through the excellent teamwork of several subsidiaries.

The Panama Canal connects the Atlantic Ocean to the Pacific Ocean, and is a key conduit for international maritime trade: Round about 6 % of the world's trade in goods passes through the Panama Canal. Opened in 1914, the canal has been expanded within the recent years. Two new locks have been built on the Atlantic and on the Pacific side, thus the canal can be passed by larger container ships in the future. Now, around 10 months before the canal's reinauguration, part of the canal was flooded for test purposes. Only 10% of the project work is still to be finished.

For PERI, this also means that the largest single order in the 45-year history of the company is now slowly coming to an end. Due to its enormous dimensions and complexity, the project posed its own set of significant challenges in terms of know-how, logistics and construction site support. However, the extremely close and constructive cooperation between the different PERI national subsidiaries has had a very special importance during this gigantic project. The transnational cooperation of engineers, logistics specialists and other experts played a key role in ensuring the success of the project.

Source: PERI GmbH



Approximately 10 months before the scheduled opening, the first test sections of the expanded Panama Canal were flooded. For PERI, this also means that the mega project will therefore be completed soon. (Photo: PERI GmbH)

BSP Produces Its Largest Piling Hammer for Venezuelan Bridge Project

Piling hammers do not come much bigger than the CGL590 hammer developed and produced by BSP International Foundations (BSP), one of the world's leading manufacturers of hydraulic hammers and related equipment.

This monster of a hammer, built at the company's facility at Great Blakenham, near Ipswich, England, weighs in at a massive 82 t with its 40 t dropweight and pile sleeve and is capable of driving concrete and steel piles up to 2 m in diameter. However, fitted with special attachments larger diameter piles can be driven. When freely suspended it stands 12 m high and has maximum impact energy of 584 kNm.

The hammer takes advantage of BSP's unique hydraulic cylinder design, first seen at the turn of the century on the company's CX range of hammers. The "through rod recirculation" design promotes a running pressure of 290 bar and reduces the hydraulic oil supply to 1,200 l/min. Controlling the dropweight is a key feature of all BSP hammers and the CGL590 is no exception. A maximum blow rate of 32 blows per minute can be achieved at 1.5 m maximum stroke but when reduced to a 200 mm stroke in excess of 75 blows per minute can be recorded.

There are not many projects around the world requiring a piling hammer of his magnitude but the CGL590 was specifically built for Brazilian contractor Odebrecht, one of the world's largest civil engineering companies, to be used to drive the 60 m long, 1.8 m diameter piles required for the foundations of a new bridge over the Maracaibo Lake in Venezuela.

Prior to piling a multipurpose drilling rig working from a jack-up platform was employed to carry out offshore and nearshore site investigations to determine the laying of the foundations for the bridge. Boreholes were drilled to a maximum depth of 70 m through soft to stiff clays overlaying mudstones.

During on-site operation the hammer has had to cope with extreme temperatures, high humidity and a stiff salty breeze. Originally, Odebrecht rented the CGL590 but, subsequently delighted with its performance, the company decided to purchase the hammer together with a BSP

power pack. Two other large CG hammers with power packs purchased by Odebrecht are also working on the project.

Odebrecht's subsidiary in Venezuela began preliminary construction work for this second bridge known as the Nigale Bridge in October 2012. It has been named after Chief Nigale,

an indigenous warrior of the Los Zapara tribe, which originated from Zapara Island located on the lake. When completed the new bridge will consist of 4 vehicle lanes



and 2 rail lines and will at 12.4 km be the longest road and railway bridge in Latin America.

Construction of the bridge will include a road system consisting of a 15.5 km west highway, a 26.5 km east highway, and an 11.4 km rail road connection between both East and West sides of the lake. It will



provide a link between Santa Cruz de Mara in the West and Punta de Palmas in the East. Currently, the Rafael Urdaneta Bridge, constructed some 50 years ago, is the one option to cross the lake.

When completed in 2018, this second bridge will contribute toward the region's economic, social and cultural development, facilitating the future commerce between the Central region of Venezuela and other South American countries, improving the movement of commercial exchange and people's mobility.

The CGL590 is the largest model in the BSP piling hammer range offering dropweights from 40 t down to a mere 1 t. Running pressures extend from 160 bar to 290 bar. All BSP hammers can be used crane suspended or configured with back guides for leader use.

BSP has been at the forefront in the innovation and manufacture of piling hammers and related equipment for over a century. During its 110-year history the company has pioneered the development of steam, air and diesel powered hammers culminating in the introduction of its first hydraulic powered hammer in the early 1980s. More recently, the company has developed rapid impact compactors for ground improvement projects.

Source: BSP International Foundations Ltd

ITA TUNNELLING Awards 2015

Next November 19th, the International Tunnelling and Underground Space Association will organise the edition 2015 of the "ITA Tunnelling Awards" in a unique underground location: the Hagerbach underground test facility in Switzerland. In the perspective of the Award Ceremony organized on the D Day, 32 projects have recently been preselected. Three of them have notably been nominated in the category "Major Tunnelling Project of the Year", related to large-scale tunnelling and underground space projects requiring an investment of over 500 million € (715 million \$). And the nominees are... the Eurasia Tunnel, the New York City's Second Avenue Subway, and the Futian Station of the Guangzhou-Shenzhen-Hong Kong High-Speed Railway. Focus on these 3 ambitious projects.

The Eurasian Tunnel • The 1st highway tunnel joining Asia and Europe by using a



mechanized tunnel boring machine (TBM)

- Inner tunnel diameter: 12 m
- TBM diameter: 13.7 m
- Total tunnel length: 14.6 km
- First 5.4 km section: a 2-storey tunnel
- Main part of the project: the 3.34 km long subsea tunnel under the Bosphorus
- Second 5.8 km section: a road expansion, improvement works
- Total cost: 1.24 billion \$



- Contracting authority: the Turkish Ministry of Transport, Maritime Affairs and Communication, and the General directorate of Infrastructure Investments (AYGM).

New York City's Second Avenue Subway Project • Initiated 8 years ago and operational by 2016, the New York City Second Avenue Subway is the largest U.S. transit project so far. It consists in constructing a new subway line to expand the metropoli-



tan subway network, for the lines 4, 5 and 6 that are currently the only ones serving the Upper East Side. With an expected ridership of over 200,000 weekday riders, it will contain overcrowding and delays on the existing parallel line, improving travel within the City center as well as in the suburban commuters, and upgrading access to mass transit for residents of the East Side of Manhattan.

- Cavern diameter: 22 m
- Cavern length: 400 m
- Nature of the works: excavation and lining of TBM-bored tunnels, mined stations caverns, cut-and-cover stations, architectural fit outs, Trackwork, mechanical and electrical systems
- Construction duration: 8 years
- Deadline: 2016
- Total cost: 4.5 billion \$
- Client's name: New York City Metropolitan Transportation Authority Capital Construction.

The Futian Station of Guangzhou-Shenzhen-Hong Kong High-Speed Railway

and the urban high-speed train • The Guangzhou-Shenzhen-Hong Kong High-Speed Railway is a part of the Beijing-Hong Kong High Speed Railway, planned to connect mainland China and Hong Kong. It aims at developing transit from Guangzhou South Station to Kowloon West, Hong Kong, notably going through the Shenzhen North Station and the Futian Station, which was to be constructed. Essentially visited by high-end business passengers, the Futian Station is now the first underground railway station in China and the largest one in Asia.

- Total length of the works: 11.4 km
- Futian Station:
 - 1 km long, 32 m deep, 78 m wide
 - A 3-layer underground structure
- Yitian Tunnel: 6.2 km long
- Duration of the works: 7 years (from 2008 to June 2015)
- Total cost: 933 million \$
- Client's name: Guangzhou Shenzhen Hong Kong Passenger dedicated line limited liability company.

Source: International Tunnelling and Underground Space Association



Continental CST Showcased Its Comprehensive Specialty Tire Portfolio at CeMAT Asia 2015

Continental Commercial Specialty Tires goes Asia: The international tire manufacturer and supplier from Hanover, Germany, showcased its innovative specialty tire portfolio at this year's CeMAT Asia which took place October 27 - 30 in Shanghai, China.

The solid rubber tire Continental SC8 has an extra deep tread profile resulting in outstanding durability and high performance – perfectly suited for the Asian market.

The sturdy solid tire Continental SC18 for the premium segment offers a high mileage, strong sidewalls and also an excellent rim fit.

The Continental SC20 is equipped with the revolutionary mounting principle Continental CSEasy which allows super elastic

tires to be fitted quickly and easily without a press and a mechanic.

The industrial pneumatic tire ContiRV20 offers high driving comfort, extraordinarily high mileage, good traction, and low energy consumption.

The all-rounder with press-on-band construction offers excellent traction and a high load capacity.

Continental develops intelligent technologies for transporting people and their goods. As a reliable partner, the international tire manufacturer, automotive supplier and industrial partner provides sustainable, safe, comfortable, individual and affordable solutions.

Continental Commercial Vehicle Tires is one of the largest manufacturers of



truck, bus and commercial specialty tires worldwide.

The business unit is continuously developing from a pure tire manufacturer to a solution provider, offering a broad range of products, services and tire-related solutions.

Source: Continental Commercial Specialty Tires



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New Transmission Enables Flexible Deployment of Single-Engine Sweeping Systems

Operating daily in uncompromising conditions, sweepers must deliver sustained, dynamic performance on the road. They need to deal with heavy-duty cleaning on crowded streets in urban and inner-city areas. Agility is the key. The answer is a winning combination of flexible driving force and compact efficiency. With this in mind, the experts at Stiebel have developed its special-purpose manual transfer case model 4664. Sweepers can now switch between mechanical and hydrostatic drives according to deployment. The vehicle features a single diesel engine – instead of the previous two engines – to ensure more effective driving and operation. Overall costs are lowered by reducing weight, fuel consumption and exhaust emissions.

MECHANICAL DRIVE FOR OPERATING IN ROAD TRAFFIC

To travel to the next deployment area, the driver simply changes the shift position

of the transfer case to “drive”. The vehicle is capable of road speeds of up to 80 km/h. Power/engine speed is then transferred directly from the diesel engine and drive transmission to the vehicle’s drive axle.

HYDROSTATIC OPERATION FOR SWEEPING AT OPTIMUM SPEEDS

To start sweeping, the driver simply moves the shift position of the transmission to “distribution”. The driving gear is now in an idling position. Drive power is delivered by a hydraulic motor mounted directly on the transfer case. This hydraulic motor is fed via a pump on the diesel engine’s PTO unit. Engine speed is reduced using a compact, dual-stage step-



down ratio in the transfer case (up to 14.6:1 is possible). This ensures that the required operating speed for sweeping – 0 to 10 km/h – is achieved within the optimum diesel engine speed range.

“The challenges we faced in development and implementation focused on

Innovation in Condition Monitoring Drives Next Gen of SensoNODE™ & SCOUT™

Parker Hannifin is enabling new possibilities in condition monitoring for predictive maintenance with its second-generation Industrial Internet of Things (IIoT) solution, SensoNODE™ Blue and SCOUT™ Mobile. As global competitiveness drives companies to find new ways to improve efficiency and product quality, Parker is advancing conditioning monitoring across multiple applications and industries.

SensoNODE Blue and SCOUT Mobile help companies eliminate massive information gaps by catching and reporting performance fluctuations that could damage assets over time. By monitoring assets and tracking data, users can employ predictive maintenance routines that allow them to address even the smallest issue before it snowballs into a serious problem.

The wireless SensoNODE sensors are designed for portable and diagnostic applications with mobile devices, including phones and tablets. Small and simple to operate, SensoNODE Blue sensors monitor assets for changes in pressure, tem-

perature and humidity. Users can then receive that data via SCOUT Mobile, which converts it to useful analytics that can be used to track real-time and historic trends with an easy-to-use interface. SCOUT Mobile can also alert users to unexpected condition changes that may damage assets.

“We designed SensoNODE Blue and SCOUT Mobile with prevention in mind,” says Dan Davis, product sales manager for SensoNODE/SCOUT. “Traditional monitoring for everyday applications comes with a number of challenges, from unplanned downtime and unnecessary shutdowns, to high maintenance costs and potentially dangerous situations for workers. Our solution helps to alleviate those with a wireless, accurate solution that monitors your assets to get you the vital information you need to keep processes going.”

In addition to helping to keep maintenance costs down and preventing unscheduled downtime, information gathered with



the SensoNODE Blue and SCOUT Mobile solution can help companies refine their processes and optimize their systems. Making better, data-driven decisions ensures peak performance of assets and processes, resulting in the highest level of product quality.

Source: Parker Hannifin

Hirschmann MCS Introduces New Load Moment Indicator

transmission flexibility,” explains Paul Hermann Schumacher, CEO of Stiebel-Getriebebau GmbH & Co. KG. “Sweepers weighing up to 12 t are now equipped with a single engine to deliver outstanding adaptability. Our specialists have done a superb job, working meticulously to significantly improve drive efficiency.”

The Stiebel transfer case also boasts greater flexibility. It is not only the driving force in sweepers, it also comes into its own when used in other municipal vehicles that require a reduced-speed operating mode. Following on from this impressively dynamic transmission solution, the Stiebel team is already working on the next advanced drive technology.

Source: Stiebel-Getriebebau GmbH & Co. KG

Hirschmann MCS has introduced the qSCALE I2 / I3 load moment indicator. The qSCALE I2 / I3 provides the operator with a graphic display of the cranes current load and geometric information, including the actual and allowable load, boom length, boom angle, and load radius. The display also includes an integrated bar graph which provides the operator with information about the cranes utilization.

The system offers the flexibility of a 10.9 cm (qSCALE I2) or 17.8 cm (qSCALE I3) color graphic display that features superior HMI graphic interface for easy operation. The console was designed with a IP66/67 protection rating which is suitable for use in both non-cab and in-cab applications. Setup of the crane parameters and LMI functions are done through a new and easy to use Configuration Tool. The system also features a simplified calibration procedure through a menu-driven process to reduce calibration time. The qSCALE I2 / I3 meets the requirements of OEM and aftermarket applications.

Hirschmann’s MCS division supplies a variety of sensors and control systems that meet numerous market and safety requirements.

Source: Hirschmann Automation and Control



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New Bobcat Loaders Boast DPF-Less Tier 4 Engine Solution

Bobcat Company has increased the number of its Tier 4-compliant skid steer and compact track loaders with the transition to a 3.4 l diesel engine in its 700- and 800-frame-size loaders.

Bobcat® S750, S770 and S850 skid steer loaders; T750, T770 and T870 compact track loaders, and A770 all-wheel steer loader are manufactured with a Tier 4-compliant, Bobcat 3.4 l diesel engine. Bobcat diesel engines deliver high-performing torque across a wide span of engine rpm, and lower engine noise for enhanced operator comfort. Bobcat 3.4 l diesel engines do not require a diesel particulate filter (DPF), which would make a regeneration process and routine filter cleanings necessary.

New Bobcat 700- and 800-frame-size compact loaders combine the following technologies to meet Tier 4 emission standards:

- High-pressure common-rail (HPCR) fuel injection system

- Cooled exhaust gas circulation (EGR)
 - Diesel oxidation catalyst (DOC)
 - Selective catalytic reduction (SCR) system
- Selective catalyst reduction requires diesel exhaust fluid – a urea-based solution – also known as DEF.

The DEF fill tank cap is blue and clearly labeled to avoid mistaking it for the diesel fuel tank cap.

All new 700- and 800-frame size loaders rated at 75 hp and above have an updated display panel inside the cab. The updates include a DEF level indicator to inform operators how much DEF is in the loader's tank. Additionally, an SCR error icon will illuminate when the DEF tank is at 25% capacity. Audible alerts will also remind operators when DEF is getting low.


Operators may notice new air inlets designed in the Bobcat loader tailgate and above the cooling system. Electric air inlet fans in the loader tailgate help to keep the engine compartment cool. Additional air outlets are located above the tailgate for



warm air to exit the engine compartment.

Horsepower ratings for Bobcat 700- and 800-frame-size loaders remain the same, with the exception of the T870, which increases to 100 hp – the first Bobcat compact track loader with 100 hp.

Source: Bobcat Company

 booth 830

Innovative Ecovolve Electric Dumper to be Fitted With McLaren Industries NuAir Tires

McLaren Industries has joined forces with construction field innovator Ecovolve. The Irish green-tech manufacturing company recently unveiled its ED1000, a fully electric high tip dumper. Fitted with McLaren's NuAir solid cushion tires, ED1000 operators will experience unmatched stability, toughness and smoothness of ride.

"We are thrilled to partner with McLaren," Ecovolve owner Sean Breen said. "Ecovolve prides itself as an innovator, so it was a natural fit to join a company also renowned for pushing technological boundaries."

The 100% electric ED1000 makes no fumes, requires no fuel or fuel storage and produces very little noise. The nimble 1-ton dumper transports easily, and was made for city or residential settings, as well as night work. An integrated charging system automatically picks the correct voltage from a power source, and charging overnight allows the ED1000 to go a full workday without stopping.

In conjunction with a unique steering system, McLaren NuAir tires significantly reduce unwanted tire marks on surfaces, making the ED1000 ideal anywhere cleanliness is mandatory, such as clean rooms, shopping malls, hospitals, and food processing plants. Because NuAir tires last four to five times longer than pneumatic tires with zero downtime from flats, they maximize the efficiency and productivity of the ED1000 for any construction or demolition project.

McLaren Industries, Inc. is a leading supplier of rubber tracks for mini-excavators, track loaders, agricultural machines and carrier vehicles, flat-proof tires for skid steers, telehandlers, wheel loaders and backhoes, and over-the-tire tracks for skid steers.



Based in Laois, Ireland, Ecovolve was founded in 2013 and is a green-tech manufacturing company developing and building cutting-edge, fully electric construction machinery.

Source: Ecovolve Ltd.

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New Holland C Series Compact Wheel Loaders Offer Increased Stability, Comfort and Productivity

New Holland C Series compact wheel loaders are completely new, with a stable, more compact design, and with more built-in comfort and convenience. With dependable engines and hydraulic power, and a choice of buckets and attachments, New Holland compact wheel loaders do much more than load. They allow operators to scrape, grade, push, rake, haul, and more.

Each of the New Holland C Series compact wheel loaders, the W50C, W50C TC, W80C, and W80C HS, can perform smoothly and quickly to boost efficiency on every jobsite.

With reduced machine length and width,

for load-and-carry, high-production applications.

The precise, parallel lift path of the W50C TC model eliminates the need for manual correction. The self-levelling lift path means



operators can focus on load placement instead of leveling and can increase speed. This model works for multiple applications, but is ideal for forklift work.

And finally, clean-running Tier 4 engines are fuel efficient and reduce emissions while providing the power needed to get the job done.

Optional features include high-flow hydraulics (W80C only) for added versatility and power with

128 l/min @ 200 bar; auto ride control option for more comfortable rides, less spilling and less machine wear and tear; creep speed option for applications that require slow and steady control; high-speed option (W80C only) for faster travel on the jobsite and between locations; and the return to dig option quickly returns the bucket to the dig position after dumping with the push of a button.

Source: CNH Industrial America LLC

as well as a lower overall machine height, New Holland compact wheel loaders are even more compact than previous models, so you can work and manoeuvre easily in restricted spaces.

C Series compact wheel loaders also feature increased stability, which allows the operator to lift and move large loads, enjoy a smoother ride even in tough conditions, and operate with more confidence.

The brand-new cab design incorporates big comfort, with roomy dimensions and natural, ergonomic controls. Redesigned wide steps give you easier cab entry and exit. The seat, steering column and armrest adjust to make every operator comfortable. The standard LCD display puts information within an easy glance. The high-performance heater/defroster is standard with optional air conditioning for comfort in any season.

The new Z-bar linkage design on models W50C, W80C, and W80C HS provides increased breakout force, digging and lifting power. This rugged, simple design is ideal

Gehl Welcomes Caliber Equipment to the Gehl Dealer Network

Gehl, a leading manufacturer of compact equipment is pleased to welcome Caliber Equipment, Ltd. to the Gehl dealer network.

Caliber Equipment has been in business since 2006, when the owners purchased the assets of Central Valley Farm Equipment and revitalized its facility. It will represent Gehl compact track loaders, skid loaders, compact excavators, telescopic handlers, and articulated loaders. It will serve Vancouver, British Columbia and surrounding areas.

Founded in 1859, Gehl – now Manitou Americas – is headquartered in West Bend, Wisconsin.

Source: Manitou Americas



Toro Introduces All-New Dingo® TX 1000

As the pioneer in the tracked compact utility category, The Toro Company is pleased to introduce the latest and most powerful Dingo® to its lineup – the Toro® Dingo® TX 1000. The newest member of the Dingo family has a rated operating capacity exceeding 450 kg, which is the strongest in the category. When the loader arms are fully extended, the hinge pin measures an impressive 205 cm from the ground to allow the TX 1000 to easily reach over the side of dumpsters and one-ton trucks to maximize jobsite productivity.

Also unique to the industry and the category is Toro's exclusive vertical lift loader arm, which keeps the load closer to the machine to allow operators to lift more weight with greater confidence. Additional-

ly, this feature increases the reach at full height to make dumping more efficient. The vertical path of the lift arms is also exceptional in vertical applications with the auger or concrete breaker. Another exclusive feature on the new TX 1000 is the power-to-weight ratio. The narrow track model is 1,184 kg, and the wide-track model is 1,266 kg. The wide-track model can lift more than any compact utility loader (CUL) in the category at 487 kg.

"We're thrilled that the new Dingo TX 1000 is already proving to be an outstanding machine on underground and utility operations across the globe," explains




Josh Beddow, marketing manager for The Toro Company. "We know having one machine that can perform a variety of functions on the jobsite is of the utmost importance, and the Dingo TX 1000 has over 20 attachments that make this an incredibly versatile piece of equipment."

In addition to a high level of utility across general construction, earthmoving, landscaping and road building sectors, the TX 1000 can also be outfitted with a number of attachments specific to the underground and utility industry. Among the attachments in this specific group include: a vibratory plow attachment for irrigation and cable installations; a bore drive head attachment for boring under sidewalks or other space-restrictive areas; and, high-torque and high-speed trencher attachments for small- to mid-size trenching projects, just to name a few.

When compared to dedicated horizontal directional drill (HDD) or vibratory plow units, the relatively small footprint of the Dingo TX 1000 can potentially minimize turf and terrain damage that can occur during utility installation projects. The Dingo TX 1000 provides utility contractors a highly mobile and maneuverable alternative to traditional underground and utility equipment.

With 9 different models including wheeled or tracked, gas or diesel, and now the all-new Dingo TX 1000, Toro offers the strongest compact utility loader lineup in the industry. Customers can continue to count on a Toro Dingo to get their work done with a powerful, reliable and easy-to-use lineup.

Source: The Toro Company

 booths 1212, 1216

New Rental-Ready Terex® TLB840R Backhoe Loader Works for a Living

Configured to meet the rental market's need for a low acquisition cost, high-performance backhoe, the competitively priced Terex® TLB840R backhoe loader is designed to give rental business owners a more immediate return on investment without sacrificing performance and/or quality. The TLB840R backhoe loader

is equipped with a powerful 74-hp, Tier 4 final Deutz diesel engine, a 4-speed synchro shuttle transmission and a robust hydraulic system to excel at digging, reaching, lifting and loading tasks. The engine, transmission, and hydraulic systems have all been designed for easy maintenance by rental company technicians and mechanics.

With a 4,282 kgf bucket breakout force, a loader lift capacity of 3,307 kg and bucket capacity of 0.76 m³, this new Terex backhoe loader offers high-capacity production to tackle any project a customer needs a backhoe for. Terex has designed this unit to give operators unrestricted visibility to the bucket edge, which is ideal in grading applications. The curved boom design and up to 4.09 m loading height (with an extendable stick) of the new TLB840R backhoe loader offers operators excellent clearance to reach up and over obstacles, as well as and the ability to load closer into trucks for greater productivity.

This rental-ready backhoe loader comes standard with 4-wheel drive, tilt steering wheel, suspension seat and selectable pattern change pilot controls. It can be ordered with either a canopy or fully enclosed cab that includes heat and A/C, as well as a choice of a standard or extendable dipperstick. All Terex TLB840R backhoe loaders are equipped with a fully tilting hood for easy access to all service points, including the engine, oil cooler, radiator and air cleaner.

Source: Terex Corporation



JCB 3CX Compact Backhoe Delivers Big Machine Performance

JCB is launching its innovative 3CX Compact Backhoe Loader, delivering big machine performance for confined jobsites. A pioneer of the compact backhoe, JCB is taking the concept to a new level, to meet the demands of tomorrow's construction sites. The 3CX compact is well-suited for the utility, cemetery and municipal markets and ideal for use on construction projects in urban areas with space constraints.

The 3CX compact combines the digging power and ease-of-use of a compact excavator, with the capabilities of a compact wheel loader, yet it is far more than simply a digging and loading machine. Backhoe

exhaust aftertreatment or exhaust fluid.

The engine drives through a 3-speed hydrostatic transmission to all 4 wheels, for maximum traction across difficult site conditions. The hydrostatic transmission offers a 40 km/h top speed for travel between sites. The transmission also features a creep mode,

which allows the operator to run at high engine rpms to power high-flow attachments such as road planers, with a maximum travel speed of just 3 km/h.

Riding on equal-sized wheels, the 3CX compact has selectable 2- and 4-wheel steering. An exceptional turning radius of 5.8 m to the

outside of the wheels with brakes engaged and 6.7 m without brakes makes the machine highly maneuverable and easy-to-operate on tight urban jobsites.

Pilot controls are standard on the 3CX compact, reducing operator effort and

increasing controllability. The comfortable operator's cab provides plenty of storage capacity with easy-to-reach gear selector. The operator benefits from a fully adjustable suspension seat and can adjust temperature inside the cab through the heater and optional air conditioning system.

The hood design is slim, providing maximum visibility for the operator. A laminated front screen, reinforced glass and rear window protection improves safety. Flat glass permits simple replacement of broken windows. Front and rear halogen work lights deliver maximum worksite visibility. Optional LED lights with boom-mounted lights are available for all around night operation visibility.

The 3CX compact is supplied as standard with JCB's LiveLink telematic tracking and monitoring system. LiveLink permits the owner to monitor the machine's performance. In addition, LiveLink allows real-time tracking to permit rapid relocation in the event of machine theft.

Source: JCB



loader, compact excavator and skid steer loader attachment compatibility allows the 3CX compact to work with a wide-range of attachments and hand held tools, for maximum versatility and utilization.

At the front end, the loader comes with a range of buckets that can be supplied with optional cutting edge for road stripping applications. A load over height of 297 cm and max forward reach at full height of 112 cm allows easy loading of trucks and other high-sided vehicles. The machine can also be ordered with a hydraulic quickhitch, for faster attachment changes.

The 6-in-1 bucket makes the 3CX compact the ideal machine for a host of jobs on site. Pallet forks and specialty attachments, such as sweepers, add to the machine's versatility.

The 3CX compact is powered by a 74 hp Tier 4 final diesel engine. This highly efficient engine meets both U.S. and European emissions standards without the need for a diesel particulate filter (DPF) or any

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OEEC 2015: Constructive, Anti-Cyclical and Energetic

With 658 exhibitors, 23,000 m² floor space and visitors from 86 nationalities, Offshore Energy Exhibition & Conference 2015 (OEEC) was not only a big success, the event also grew compared to last year. A remarkable achievement in this turbulent and challenging year for the offshore industry. 11,865 visitors came to Amsterdam RAI to meet up with companies or to attend one of the many Technical Sessions,



Keynotes and Master Classes from our conference program. All with one constructive goal in mind: Investing in the future of energy.

The event brought together industry leaders, (young) professionals and students during a high quality conference program, at the many networking opportunities and on the large exhibition area. For 3 days, Amsterdam was a meeting place for a host of international clients, OEMs, EPC companies and suppliers active in oil and gas exploration and production as well as renewable energy development.

In the different pavilions, such as the Italy pavilion, the Holland pavilion and the

OEEC 2015 was opened by Coert van Zijl Langhout, managing director of Navingo BV and Scarlett Mummery, a YP offshore geotechnical engineer specializing in geology and seabed drill operations.

Training and Development pavilion, people came together in an energetic environment to meet up and/or network.

The high quality conference program at

OEEC contained Technical Sessions such as Well Intervention Vessels, Technical Data Management, Decommissioning and Subsea Processing where delegates from Shell, Helix Well Ops and OneSubsea, among many others, discussed the topics presented by the speakers. The Keynotes included an Industry Panel, Human Capital Panel and Drilling & Dollars Panel where industry leaders discussed potentially disruptive changes, human capital trends and opportunities for exploration and production offshore Africa, respectively. Last but not least, young professionals could attend special Master Classes with Masters from Royal IHC, Damen Shipyards and Shell.

The organization thanks all exhibitors, visitors, sponsors, partners, speakers and delegates for their support and contribution to this years' event.

The next Offshore Energy Exhibition & Conference will take place on October 25 - 26, 2016.

Source: Navingo BV

Subaru Power Products Receives Club Car's Supplier of the Year Award

Subaru Industrial Power Products, a global leader in small engine production, is Club Car's top supplier for 2014. The company received the George H. Inman Supplier of the Year award during Club Car's annual Supplier Awards ceremony for its excellence in cooperation, product quality and support.

"Club Car engineers spent a year researching what other major engine manufacturers offered before partnering with Subaru," said David Woodward, Club Car product manager.

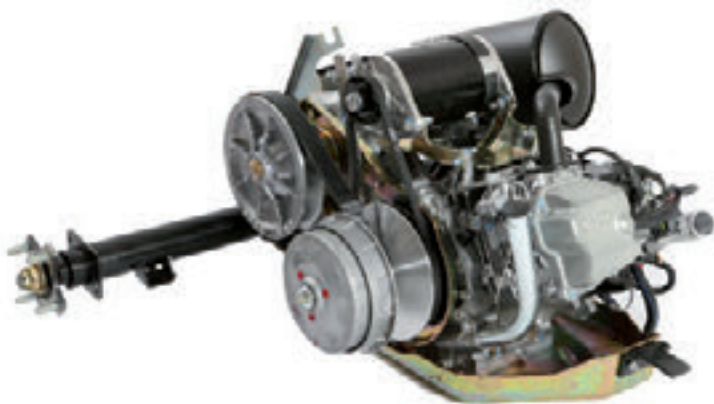
Club Car uses Subaru's 14 hp, 404 cm³ single-cylinder overhead cam engine in many of its golf cars and utility vehicles, including the new XRT800 and XRT850. The engine features electronic fuel injection, capacitive discharge ignition, hemispherical heads and a case-hardened steel timing chain to enhance reliability. And its splash lubrication system eliminates the need for oil filters, simplifying maintenance and reducing environmental waste.

"Receiving Club Car's award is an

honor," said David Frank, Subaru Power Products vice president of sales and marketing. "We take pride in the quality of product we produce and the level of service we provide. For us, this award means that we are holding up our commitment to provide exceptional reliability and support as well as offer the lowest total cost of ownership in the industry."

Club Car, the world's largest manufacturer of small-wheel, zero-emission electric vehicles, partnered with Subaru to design a sophisticated new engine that has more horsepower, higher efficiency and lower maintenance costs than pushrod engines used in competitive vehicles.

"We are proud to present Subaru with



one of our top awards," said Eric Powell, Club Car director of strategic resourcing. "Their exceptional warranty and 100-percent on-time delivery rate allowed us to support a substantial production surge and further expand our market position."

Source: Subaru Industrial Power Products

SSAB Shares Expertise on Lightweight Trailer Design with Top Trailer Manufacturers

Last month, a group of 45 trailer and heavy equipment manufacturers attended a technical seminar covering new design concepts and best practices for working with advanced high strength steel including its recently launched Strenx™ Performance Steel. The seminar, hosted by SSAB in Davenport, Iowa, focused on the benefits of using high strength steel in trailer chassis and structural components as well as educating customers on weight-saving opportunities that can be achieved by using the new Strenx structural steel launched earlier this year.

"SSAB provides technical seminars as

a part of our strategy to offer increased value to our customers and the market," said Ben Kowing, director of Marketing and Technical Support for SSAB. "Our goal is to help our customers make optimum use of our steels so their products are more competitive."

Technical experts and engineering specialists in the areas of welding, fatigue, design, forming, and production from SSAB's Knowledge Service Center in Sweden and R&D Facility in North America, shared their expertise with attendees.

Among the topics covered during the seminar were new trailer designs, success



cases, design optimization, and a detailed discussion about SSAB's Strenx Performance Steel.

"In the never ending battle for improved performance, less weight plays a vital part," said Michael Schmidt, Area technical manager for SSAB. "Less weight allows for trucks with more payload, cranes that reach farther, trailers that can haul more and many other applications that need to be light and strong. And that's the beauty of Strenx."

"We're working on a frameless trailer and need to figure a way to make it lighter," said Dustin Scholz, design engineer for TBEI, a leading truck body manufacturer in the U.S. "We had attended SSAB's Dump Body seminar a few years ago and the information provided was great. We used that information to develop lighter weight dump bodies to compete with aluminum products thereby offering a steel body which is stronger, and less expensive, than a comparable aluminum unit. We have achieved this goal and our Ox Chisholm Ultralight product is now being used in the field and feedback from customers indicates that this design exceeds expectations."

Source: SSAB Enterprises, LLC

bC India Is Now Called BAUMA CONEXPO INDIA

The first BAUMA CONEXPO SHOW - bC India in 2011 marked the start of a cooperation between Messe München and the Association of Equipment Manufacturers (AEM) in the organization of international events for the construction machinery sector.

Now, after 3 successful trade shows held under the name of bC India, the partners have agreed on a new name for the event: BAUMA CONEXPO INDIA. By doing this, Messe München and AEM are establishing a joint brand with consolidated brand management for their cooperations BAUMA CONEXPO INDIA and BAUMA CONEXPO AFRICA.

For the upcoming BAUMA CONEXPO INDIA the new dates and the new venue have now also been decided upon.

"The north of India is still a highly interesting region. With the HUDA Ground in Gurgaon/Delhi we have found an event venue in a very good location. The airport and many hotels are quick and easy to reach," says Igor Palka, CEO of the organizer of bC Expo India.

The switch to the HUDA Ground, Gurgaon/Delhi also meets with approval from the industry.

"With the exhibition being held in Gurgaon/Delhi, all important and influential key members will be coming," confirms Sunil Sapru, chief executive Marketing at Ammann Apollo India. "We at Ammann Apollo are convinced that BAUMA CONEXPO INDIA will again provide the exhibiting companies with the best possibility to showcase the latest technologies. For customers it is THE place to get a first-hand feeling of the latest trends."

The next edition of the International Trade Fair for Construction Machinery, Building Material Machines, Mining Machines and Construction Vehicles – BAUMA CONEXPO INDIA – will take place from December 12 - 15, 2016 at the HUDA Ground, Gurgaon/Delhi.

Source: Messe München, Association of Equipment Manufacturers



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IFAT India 2015 Promotes India's Environmental Upswing

The market for environmental technology in India holds great promise for foreign investors. The success of IFAT India 2015, which came to a close on October 15 in Mumbai, was further proof: India's Leading Trade Fair for Water, Sewage, Refuse and Recycling attracted many national and international exhibitors and visitors.

The agreements on environmental protection, signed by the German Chancellor Angela Merkel and Indian Prime Minister Narendra Modi on her recent visit to the country in October, also had a positive effect on the mood at IFAT India. "This year's IFAT India has maintained its position in a challenging market environment. Exhibitors and visitors alike were encouraged by the confidence of our Chancellor in the Indian market," commented Stefan Rummel, managing director of Messe München. Germany and India will in future be working more closely together on environmental protection and in particular intensifying their cooperation in waste and

water management.

The Bombay Exhibition Centre in Mumbai was for the 3rd time transformed into a showcase for the latest environmental technology and solutions. Over half of the 136 exhibitors were from outside India. The show featured country pavilions from Austria, China, Germany, the Netherlands and Switzerland.

"IFAT India is like a missing link between the Indian government and the private sector, uniting them to promote a clean India and a green future. We look forward to participating in the next edition," said Rutger De Bruijn, organizer of the Netherlands pavilion.

The figures for attendance confirm the attractiveness of IFAT India 2015. More than 4,300 quality visitors came to the Bombay Exhibition Centre on the 3 days of the show. Igor Palka, COO of MMI India, is also proud of this event: "As a spin-off from the leading international trade fair IFAT in Munich, IFAT India is synonymous

with professionalism and quality. Our exhibitors this year confirmed precisely that; they were very pleased with the high quality of the visitors and the keen interest shown in the products and solutions at the fair."

Also attracting great interest, as well as the exhibits at the trade fair, was the scientific and technical conference program. In 20 conferences and panel discussions, speakers from all over the world gave the trade audience the benefit of their expertise on topical subjects in the environmental sector.

Another highlight was the "All India Environmental Journalism Competition". Each year awards are presented on the first day of IFAT India for outstanding journalism dealing with environmental themes on the Indian subcontinent.

The next IFAT India takes place from September 28 to 30, 2016 in Mumbai.

Source: Messe München GmbH

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Appointments

Atlas Copco Construction Equipment Canada has appointed **Dan Fazekas** as Technical Sales representative – Construction Tools Division, Ontario and Manitoba.

Dan Fazekas began his career in 2005 as a welder with Hitachi Equipment. Subsequent positions in sales and marketing with Steel Craft and AMM Manufacturing helped to develop a strong portfolio of skills and a strong sense of customer focus. Most recently he worked with HMA Equipment where he was responsible for a large range of construction equipment including grapples, buckets, hydraulic hammers, pumps and buckets.

Mr. Fazekas also brings with him a strong background in account management. With previous experience in both internal and external sales, he has an ability to manage the sales process from start to finish ensuring that customer needs are addressed throughout the demonstration, quotation and delivery processes.

Source: Atlas Copco Canada Inc.



"Mike is a welcome addition to our growing team at Superior and his 20 years of technical experience will be a tremendous resource for our customers," said John Garrison, Superior's Crushing and Screening product director.

Source: Superior Industries, Inc.

Terex Corporation recently named **John L. Garrison, Jr.** CEO and president. He also became a member of the Terex board of directors. Mr. Garrison succeeds outgoing CEO Ronald M. DeFeo, who will continue to serve as executive chairman of the company through December 31, 2015. Mr. DeFeo will continue as a consultant for Terex after December 31, 2015 through December 31, 2016.

Mr. Garrison joins Terex from Textron, Inc. where he served as president and CEO of their Bell Helicopter Segment. Prior to that, he was president of Textron's Industrial Segment and E-Z-GO.

He was also president and CEO at Azurix Corporation and held senior leadership positions at Case Corporation, and served as an officer in the United States Army.

Source: Terex Corporation

Superior Industries, Inc. recently named **Mike Schultz** its product manager for the company's new crushing equipment product solutions. Mr. Schultz comes to Superior with two decades of past experience in the construction aggregates and metal mining industries.

Most recently, he was employed at Terex Mineral Processing Systems as a market area director. In this role he was responsible for sales, service, marketing, dealers and warranty. Before this position, he held several other assignments for the company including crusher product manager, operations manager, international market development and technical services manager. Before Terex, Mike Schultz was employed at the Raring Corporation in Vancouver, Washington.



Takeuchi-US recently announced **Scott Herr** as the new North-east regional service manager. Mr. Herr's responsibilities include service and warranty support for the Northeastern United States and Eastern Canada. The support includes handling service issues, warranty issues, technical support, and service training.

Scott Herr has been working with Takeuchi since May of 2015. He was previously employed by CNH Industrial America for over 20 years and he also worked at Manitou for 5 years where he held similar service positions.

The move is one of several positive structural changes for Takeuchi in their service department recently, which includes Ron Snyder as National Service and Warranty manager, Tom Reichling as Northwest Regional Service manager, Gary Bryan as Service Support manager, and Joe Topia as a National Service Training manager.

Source: Takeuchi-US

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Agenda

- Water Expo China**
November 18 - 20, 2015
Beijing, China
- Landscape Ontario's 42nd Edition of Congress**
January 12 - 14, 2016
Toronto, ON Canada
- World of Concrete 2016**
February 2 - 5 (exhibits); February 1 - 5, 2016 (seminars)
Las Vegas, NV USA
- The Rental Show**
February 21 - 24, 2016
Atlanta, GA USA
- The Work Truck Show**
March 2 - 4, 2016
Indianapolis, IN USA
- 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
- Expo Grands Travaux**
April 22 - 23, 2016
Montreal, QC Canada
- TRUXPO / Pacific Heavy Equipment Show**
May 13 - 14, 2016
Abbotsford, BC Canada
- IFAT**
May 30 - June 3, 2016
Munich, Germany
- 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
- 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
- BAUMA CONEXPO INDIA**
December 12 - 15, 2016
Gurgaon/Delhi, India
- CONEXPO-CON/AGG 2017**
March 7 - 11, 2017
Las Vegas, NV USA
- SMOPYC**
April 4 - 7, 2017
Zaragoza, Spain



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