InfraStructures
One Magazine for the Entire Industry
One Magazine for the Entire Country
DOWNLOAD THE 2018 MEDIA KIT ON WWW.INFRASTRUCTURES.COM

CANADA'S EQUIPMENT MAGAZINE
A Brief Word...

Well, summer weather has arrived (for most of you) and the jobsites are humming like a hive in an apple orchard. Some other versions of humming are going on in Ontario since the recent election, but you can decide which kind for yourselves.

They say “A Change is as Good as a Rest”, and often in economic terms that is true. Although it may not affect you this season, I am sure there were a number of projects that were hovering until the election was over. The G7 Summit likely played its part too, and now that Ottawa has stated it will act on a tit-for-tat tariff basis there will be much buzzing.

For those who know their history, it was tariffs which contributed greatly to the industrial growth of this country. The U.S. did this same stunt in the late 19th century against us. We retaliated with the British Empire Trade Act, and U.S. firms poured over the border to plug into the global market that Canada was a major part of. That eroded rapidly when the U.S. went from #2 to our #1 trade partner in the mid-1970’s. The Canadian dollar went with it.

With the UK exiting the EU and Australia and New Zealand strongly promoting a CANZUK trade group, could Canada’s economic future be as rosie as his past? Would Free Movement and Free Trade between comparable economies, each with unique strengths provide the shelter in these turbulent economic seas?

In the meantime, the local forecast is positive and there is work to be done. InfraStructures will be here to help you predict the tsunami of technologies that may make you more productive on the jobsite.

On the cover: a Merlo Roto 40.30 MCSS telehandler working in the subway extension project in Toronto, Ontario.
JOHN DEERE EXTENDS WARRANTY OFFERING TO 2 YEARS ACROSS COMPACT EQUIPMENT LINE

Reinforcing its commitment to producing the industry’s most reliable and durable machinery, John Deere extended its machine warranty on all Commercial Worksite Products to 2 years. This coverage includes new compact track loaders, skid steer loaders, compact wheel loaders and compact excavators.

“Extending our warranty across our entire lineup of compact machinery reinforces our confidence in the quality of the equipment we produce,” said Graham Hinch, division manager, John Deere Commercial Worksite Products. “Backed by our robust dealer network, this added protection offers our customers peace of mind so they can focus on maximizing productivity and profits.”

The standard warranty now promises that Deere will fix any defects in materials or workmanship for 2 years after delivery or 2,000 hours – whichever comes first. The previous standard warranty was for one year.

Source: Deere & Company

NORTRAX RETAINS 38 JOHN DEERE DEALERSHIPS AFTER SALE OF 7 STORES TO MCCOY GROUP

Nortrax, Inc. has sold 7 stores in its Midwest Region to the family-owned company McCoy Group, Inc. based in Dubuque, Iowa. The company will do business as McCoy Construction & Forestry (MCF) and will retain the Nortrax employees in the Michigan, Wisconsin and Minnesota branches.

“We believe this sale represents a key strategic distribution move for John Deere and Nortrax,” said Tim J. Murphy, Nortrax president and CEO. “The McCoy family has a phenomenal track record going back to 1958 of investing and growing business for the long term. They are hiring our Nortrax Midwest employees which will retain the expertise and more importantly the relationships with the forestry and construction customers. They bring a proven track record, great financial stability and a long-term commitment to grow and support the John Deere brand. John Deere has very high standards financially, structurally and ethically as it relates to their dealer channel. The McCoy Group exceeds those standards and Nortrax is handing off a business that will allow McCoy to compete and to grow throughout the 21st century. I believe this is an exciting move for the McCoy Group, for John Deere, for the Midwest employees and most of all, for our customers.”

Nortrax will now focus on their existing 38 John Deere dealerships made up of locations in the states of Maine, New Hampshire, New York and Vermont, and their locations in Ontario, Newfoundland and Quebec.

“The heart of our business will remain at our store locations in front of the customer. It is there that we can cement our position as the technology leader in the industry through the products and services of John
Deere. We have the systems today to maximize uptime and productivity through 24-hour machine monitoring, Machine Health Prescriptions, Ultimate Uptime packages, MyNortrax customer portal, all tools designed to keep John Deere machines and John Deere customers ahead of the curve,” stated Mr. Murphy.

Source: Nortrax, Inc.

BCA PRODUCT OFFERING CONTINUES TO GROW

NTN, the parent company of BCA Bearings, has announced the release of over 50 new product SKUs. The new products cover both BCA's bearings and seals product lines.

“It has been a strong start to our new fiscal year for product expansion,” said Kevin Judge, vice president of Sales & Marketing, Automotive Aftermarket. “I am pleased with the progress we have made as the addition of these BCA parts further illustrates the commitment we have made to our customers. As always, our goal at BCA is to improve customer satisfaction by providing key product coverage of the highest quality.”

BCA Bearings, powered by NTN, is a long-time, trusted OE supplier to the automotive aftermarket. Proud to be providing solutions that include the most durable bearing products you need in the industry, BCA offers a full line of wheel hub assemblies, seals and loose bearings.

Source: NTN USA Corporation

THI AND CONTINENTAL IN THE TOP 5 FOR HERMES AWARD 2018

The Technische Hochschule Ingolstadt (THI) and the technology company Continental have made it to the TOP 5 of the internationally renowned Hermes Award for technology with their joint research project for more vehicle safety. It is the only research collaboration between a university and a company that has been nominated for the globally recognized industry prize. At the opening event of the Hannover Messe 2018, on April 22, the joint project for the new integral security system SAFE was acknowledged in the presence of Chancellor Angela Merkel.

THI and Continental have been researching innovations in vehicle safety together for 13 years. With the SAFE research project, future developers are pursuing the goal of anticipating collisions before they occur, thereby gaining valuable, often crucial (milli)seconds in which safety systems can be activated well before impact. With SAFE, partners Continental and THI will help to reduce the number of road fatalities by around half in the long term, while the – long-term – potential in emerging markets and developing countries is even greater.

At the Continental booth, both development partners demonstrated a solution for use in the industrial environment. The expertise accumulated in the automotive industry can thus also be transferred to applications in the intralogistic context. Using the example of an industrial truck, the technology partners demonstrated how connected sensor technology can help to significantly improve driving and industrial safety in intralogistics. Work accidents in warehouses can therefore be reduced, while also enabling the automation of industrial trucks. It provides the basis for a

Double goal for Palazzani at Incheon International Airport

Designed to look like a Korean Temple, Incheon International Airport is the largest airport in South Korea, the primary airport serving the Seoul Capital Area, and one of the largest and busiest airports in the world.

The airport has 111 boarding gates altogether, with 44 in terminal 1, 30 in Concourse A (connected to terminal 1), and 37 in terminal 2, a golf course, spa, private sleeping rooms, an ice-skating rink, a casino, indoor gardens, and a Museum of Korean Culture.

Opened in 2001, the whole complex has been built with high tech and environment-friendly materials, and from 2011 to 2017 ₩4,000 billion ($4.8 billion) was invested to add a second passenger terminal in the northern field of the airport and expand its existing cargo terminal and other infrastructure.

After completion, Incheon International Airport is able to handle 62 million passengers and 4.5 million t/y of cargo, up from the previous capacity of 44 million passengers and 4 million t/y.

Two units of Palazzani Spider Lifts TSJ 27 were recently supplied for the new terminal maintenance/cleaning activities, on wheels for easy maneuvers and powered by AC electric motor and DC gel batteries pack for indoor use mainly. The gel batteries have been preferred for better performance even in the harshest conditions and lower overall maintenance costs as well as no acid pollution.

Source: Palazzani Industrie
fully connected, integrated and automated warehouse of the future.

The stand exhibited an innovative pedestrian dummy with artificial muscles that imitate the movements of a person. In the future, the dummy will be used in the development of vehicle surroundings sensors such as lidar, radar and camera systems as well as for the validation of these sensors. One of the challenges facing vehicle surroundings sensors is the influence of the environment on the signals that need to be evaluated. As an example, the influence of fog is demonstrated on the design. For this purpose, 3 common types of sensor “monitor” the pedestrian dummy while the visible area is impaired by fog. The changes can be clearly seen when the sensor signals received are visualized.

With more than 6,000 exhibitors from 60 countries and 225,000 visitors from around the world, Hannover Messe is the world’s largest industrial trade fair.

The Technische Hochschule Ingolstadt has 5,500 students in the fields of engineering, computer science and economics. One third of the degree programs are tailored to the automotive and aviation industry, in line with the requirement as a mobility college. Research represents an important pillar of THI, in particular with the CARISSMA research and testing center, the scientific control center for vehicle safety in Germany.

Source: ContiTech

HEXAGON ACQUIRES NEXTSENSE GMBH, A LEADER IN INDUSTRIAL MEASUREMENT AND INSPECTION SOLUTIONS

Hexagon AB recently announced the acquisition of NEXTSENSE, a leading innovator in noncontact profile measurement and surface inspection. NEXTSENSE specializes in solutions that enhance product quality with speed and efficiency at micrometer accuracy in the automotive, railway, steel and aerospace industries.

Founded in 2007 and headquartered in Graz, Austria, NEXTSENSE employs more than 80 people worldwide. Its advanced manual, inline and automated solutions are backed by patented CALIPRI technology. The CALIPRI measurement principle automatically compensates for tilts and rotations during scanning, providing the ability to address profile deviations and surface defects immediately with highly-accurate measurement values that are free of operator influence.

“The cutting-edge technology and algorithms from NEXTSENSE provide the necessary analytics to introduce corrective measures sooner. This nicely complements our approach to enabling the smart factory, which is founded on unleashing the full potential of quality data,” said Ola Rollén, Hexagon president and CEO. “Additionally, the acquisition extends our breadth of capabilities in automotive fit and finish – the analysis of how well the parts of a car fit together, which impacts perceived quality at the point of purchase – as well as in industries such as rail and steel where we have a comparatively small footprint today. Together, the combination of sensors, software, and advanced analytics from both portfolios will bring added value to all customers while extending the global reach of NEXTSENSE solutions to new markets and regions.”

NEXTSENSE will be operating within Hexagon’s Manufacturing Intelligence division.

Source: Hexagon AB

SNAM TO ACQUIRE COMPRESSOR BUSINESS FROM WESTPORT FUEL SYSTEMS

Through its subsidiary Snam4Mobil, Snam S.p.A. signed an agreement to acquire the business arm operating in the design, development and production of technological solutions for natural gas fuelling stations for the automotive sector of M.T.M., which is controlled by the Westport Fuel Systems group.

The acquisition, which includes the Cubogas brand, will allow Snam to internalize and consolidate entirely the value created along the chain, positioning itself as a leader in providing turnkey solutions for sustainable natural gas mobility.

Looking for more stories? Visit www.infrastructures.com

New, Internet-Based Specification Application for AEL Product Line

AKG, a leading supplier of high-performance coolers, heat exchangers and cooling systems, has released its AEL configuration application (app). The app helps engineers specify the right AKG Engine Line (AEL) package for their application.

AEL is a standard line of cooling packages with fast lead times, typically 2 to 3 weeks. Each package includes a radiator, charge air cooler and optional oil cooler. The AEL series is used primarily for cooling 30- to 700-hp diesel engines on power generators, hydraulic power units, diesel engine-driven compressor units, airport snowblowers, forestry equipment, oil-field machinery and others.

The AEL specification app allows customers to size their own cooling packages and streamlines communication with AKG’s engineers. Using the app, customers can download or print a full performance sheet in as little as 30 minutes. AEL also features a configuration screen that quickly provides cost information for the specified package. Users can save project configurations for future reference. The app redefines how engine cooling packages are specified. Along with the new sizing program, AKG offers discounts off list prices to reward customers with repeat or larger volume orders.

Source: AKG of America
The completion of the acquisition, which will be carried out by a newly established company 100% controlled by Snam4Mobility, is expected in July, after meeting certain conditions including trade union procedures. The company will work to further develop the strengths of Cubogas such as brand value, customer orientation and level of service. The value of the transaction is €12.5 million ($18.8 million), subject to a price adjustment mechanism at closing.

The use of compressed natural gas (CNG) in transports is one of the best technologies available to reduce polluting emissions and improve air quality in cities.

Snam is Europe’s leading gas utility. Founded in 1941 as “Società Nazionale Metanodotti”, it has been building and managing sustainable and technologically advanced infrastructure guaranteeing energy security for over 75 years. Snam operates in Italy and, through subsidiaries in Austria (TAG and GCA), France (Teréga) and the United Kingdom (Interconnector UK). It is one of the main shareholders of TAP (Trans Adriatic Pipeline) and is the company most involved in projects for the creation of the Energy Union.

Source: Snam S.p.A.

BALDOR ELECTRIC COMPANY IS NOW ABB
ABB integrates the Baldor Electric Company name into its global ABB brand as a part of its Next Level strategy, which includes harmonizing different ABB-owned brands under the global ABB master brand. Since March 1, 2018, Baldor Electric Company, a member of the ABB group for more than 7 years, is known as ABB.

“This represents yet another great step in building a market-focused, lean organization and unifying the ABB brand across the globe,” said Sami Atiya, president of ABB’s Robotics and Motion division, which includes the organization currently known as Baldor. “With aligning all of our activities under the ABB brand we are delivering on our Next Level Strategy to unlock value by streamlining and strengthening our portfolio.”

As ABB, the organization will continue to manufacture, design and market the product brands of Baldor-Reliance® motors and Dodge® mechanical power transmission products from 15 manufacturing locations in the U.S. The organization will continue to support ABB’s entire U.S. motors and generators business unit, including ABB branded IEC motors, large AC motors, generators and related services from the motors, generators and mechanical business headquarters in Fort Smith, Arkansas.

In addition to having access to the same local manufacturing, inventory and customer service, customers will also be able to rely on global support, ABB Ability™ digital technology and more than 130 years of ABB innovation.

Source: ABB Ltd.

CUMMINS AND JAC MOTORS FORM JOINT VENTURE PARTNERSHIP
Cummins Inc. and Anhui Jianghuai Automobile Co. Ltd. (JAC Motors) recently announced the formation of a 50:50 joint venture after Cummins purchased Navistar’s 50% equity of the JAC-Navistar Diesel Engine Company (JND).

“I am delighted that Cummins is expanding our long-term relationship with JAC Motors, one of the most respected automotive companies in China,” said Steve Chapman, Cummins group vice president, China and Russia. “Cummins and JAC share similar values and are both committed to bringing our customers the right power solutions at the right time to power their success. By strengthening our relationship, we can focus on becoming more competitive in our markets by developing and offering high-quality, clean and fuel-efficient products.”

The new joint venture will continue its operations at the manufacturing facility in Hefei, China. Cummins currently supplies light-duty, mid-range and heavy-duty engines to JAC Motors for its domestic market in China as well as its global operations. The joint venture will continue offering customers leading NS V diesel engines and focus on developing new products that meet NS VI standards.

The ownership change of the joint venture is subject to regulatory approval and the operations of the new joint venture are expected to commence following completion of all approvals.

Source: Cummins Inc.
**1st SAFETY AWARDS PRESENTED AT THE CRAC’S 20th ANNIVERSARY CONFERENCE**

The Crane Rental Association of Canada (CRAC) is pleased to announce the very first recipients of the newly introduced Safety Awards.

The Awards, presented at the Annual General Meeting, place 8 companies on center stage for their commitment and dedication in creating a safe work environment for their staff, operators and the public. They are:
- All-West Crane & Rigging Ltd – Quesnel, British Columbia;
- Canadian Crane Rentals Ltd – Wingham, Ontario;
- Canuck Concrete Pumping & Crane – Yellowknife, Northwest Territories;
- ENTREC Corporation – Fort McMurray, Alberta;
- Irving Equipment Ltd – Saint John, New Brunswick;
- Niwa Crane Ltd – Medicine Hat, Alberta;
- NCSG Crane & Heavy Haul Services Ltd – Acheson, Alberta;
- Sterling Crane – Edmonton, Alberta.

“The Crane Rental Association of Canada is dedicated to improving the safety of the Canadian crane industry and we are excited to announce our first annual safety award winners and we congratulate them on their industry leading safety performance” said Ted Redmond, Chairman of the Board, who presented the awards at the Annual General Assembly on June 9th.

The Safety Awards were introduced at the 2017 Annual Conference in St. Andrews, New Brunswick in preparation for the 20th Anniversary of the Crane Rental Association of Canada. The annual conference took place in Winnipeg June 6-10. The Crane Rental Association of Canada’s members are crane rental companies, manufacturers and suppliers of cranes and equipment, and supplier of service used in the specialty crane rental business in Canada. Members come from Canada, the United States and Europe.

Source: Crane Rental Association of Canada

---

**TENCO Opens in Mississauga**

TENCO is pleased to announce the opening of a new Parts and Service Center located in Mississauga, Ontario. With this new location, TENCO is able to better fulfill the needs of their valued clients across Ontario.

In addition, a 24/7 emergency mobile service is available to keep your fleet moving.

Source: TENCO Inc.

---

**HIDROMEK, Leaves Its Mark on Global Construction Machine Sector**

HIDROMEK recently put its signature on 2 great international success. On top of having its name among the 50 largest global construction equipment manufacturers on the “Yellow Table” list for the 6th time, HIDROMEK, also received 2 important awards at the Red Dot 2018 Design Awards.

The “Yellow Table” is composed by KHL Group, a business that provides information on construction machine manufacturers all over the world. Being listed on the “Yellow Table” 6 years in a row, HIDROMEK stands out as the first and only Turkish construction machine manufacturer to do so.

The Red Dot Design Award is an international product design and communication design prize awarded by the Design Zentrum Nordrhein Westfalen in Essen, Germany. There are prize categories for product design, design agencies, and design concepts. Organized since 1955, the Red Dot Design Awards are considered as one of the most prestigious design contest in the world. In 2018, HIDROMEK received double awards for its HMK 60 CR mid-size excavator and HMK 145 LC SR short radius crawler excavator, which are also known as the “Two Smart Giants”. The Red Dot Awards will be handed in Essen, Germany on July 9, 2018.

Source: HIDROMEK
SONIC SIDEGRIP® WITH ARTICULATING SIDE-GRIPPING JAWS

The Sonic SideGrip® has been designed, tested, enhanced and proven for more than 17 years.

1° OF PLUMB
Optional Auto II Steering System® utilizes angle sensors to automatically correct the straightness of the pile to within 1° of plumb.

360° OF ROTATION
The 360° rotation and the three axis of movement allow for full range of motion.

50’ OF PILE
The Sonic Side Grip® can handle pile up to 50’ long, H-beams, pipe pile and wood pile.

AUTO II STEERING SYSTEM®

- Improves Safety – Fewer chances for accidents with this method
- Production Rate – 745% more square feet per man hour
- Start Time – Up and running in 50% less time
- Mobilization Costs – Reduces 40% of mobilization costs for a job
- Equipment Costs – Reduces 25% of equipment costs for a job by eliminating extra equipment
- Job Completion – Increases productivity by cutting time by 50% on each job

Hercules Machinery Corporation
Manufacturer and Supplier of Foundation Equipment

CALL: 800.348.1890 | ONLINE: HMC-US.COM
New Synchronous Motors from Rexroth

The new IndraDyn S series MS2N synchronous servo motors from Rexroth improve the consistency of path velocity and thus the processing quality, thanks to significantly reduced torque ripple. Moreover, in conjunction with IndraDrive control units, completely new applications for higher availability of machine tools in a networked environments are possible with the MS2N motors as a data source.

In the new IndraDyn S series MS2N, intelligence now reaches all the way up to the motor. This is possible because the individual measurements of each individual motors, as well as saturation and temperature data, are stored in the respective motor’s memory and are automatically process by IndraDrive controllers. This information greatly increases the precision of the torque and reduces the tolerance range to a fraction of previously accepted values. Also, for the first time, the servo motor provides data as well. This allows machine tool operators to implement Industry 4.0 applications, such as condition monitoring and predictive maintenance economically and without additional components.

Thanks to the new motor construction and an optimized electromagnetic design, this new generation is able to achieve significantly reduced torque ripple. This is especially important for maintaining constant path velocity and thus, increased product quality, as in free form milling. In addition, the developers at Bosch Rexroth have reached up to 30% higher torque density. The motors are significantly more compact despite their enhanced performance.

Machine manufacturers can thus use smaller motors in existing drive tasks or use more power within a given motor compartment. Up to 5 times overload capacity guarantees the fastest acceleration and optimum dynamism for all sizes.

With different degrees of rotor inertia, machine manufacturers can offer application-oriented design for different masses.

Wirtgen Group Showcases Highly-Specialized Solutions for Worldwide Road Construction

The focus of this year’s Road Technology Days held by the Wirtgen, Vögele and HAMM brands was on synergies, 3D applications and networked jobsite processes. The climax of the event was the live machine demonstrations.

When no less than 3 global market leaders present their latest technology, it is bound to draw the crowds. Some 4,000 customers and road construction experts from more than 100 countries flocked to the Road Technology Days held by in April, on the 370,000 m² site of Joseph Vögele AG in Ludwigshafen am Rhein, Germany.

The companies of the Wirtgen Group’s Road Technologies business sectors provided practical insights into the latest developments in the fields of cold milling, cold recycling, soil stabilization, paving and compaction. In addition to specialist talks by selected experts and technology exhibitions, visitors were also able to enjoy live demonstrations, factory tours and a machinery exhibition featuring around 70 exhibits. The high point of the event was a gala evening in the newly constructed 22,200 m² dispatch hall at the Vögele brand headquarters.

“A personal and professional exchange with our international customers is very important to us,” says Domenic G. Ruccolo, CEO of the Wirtgen Group. “That’s the only way we can develop tailored country- and customer-specific solutions in an industry with such diverse and highly differentiated requirements. This makes the Road Technology Days an ideal platform for exchanging knowledge and experiences.”

Since 2005, the event has been held alternately at the brand headquarters of cold milling specialist Wirtgen, road paver manufacturer Vögele and roller manufacturer HAMM.

Source: Wirtgen Group
Thanks to high-quality materials, the MS2N motors achieve significantly greater continuous power, even at higher speeds. As such, the new development is perfectly suited for use in driven tool axes in lathes. Also, thanks to their optimized winding technology, the motors help to reduce internal losses. Thus, the new generation accomplishes dramatic increases in energy efficiency.

Rexroth offers the IndraDyn S series MS2N in 6 sizes with up to 5 lengths each. The series covers the power range from 4 Nm to 360 Nm maximum torque and 0.8 Nm to 148 Nm continuous torque at standstill. Machine manufacturers can choose from 3 encoder systems, all finely graded in both precision and resolution. For the electrical connection of power and encoder signal, Rexroth provides an innovative single cable connection, as well as conventional 2-cable solutions with highly flexible cable options and practical quick-lock.

Source: Bosch Rexroth Canada

---

**Xtreme Shell® Pipe Flange Containment System**

Andax is proud to announce their newest product, the Xtreme Shell® Pipe Flange Containment System, has been awarded 2018 New Product of the Year by Environmental Protection Magazine: Health and Safety / Cleanup category.

The Xtreme Shell® is a patented, reusable, hard containment shell designed to fully enclose a pipe flange, manifold or any other leak point. The Xtreme Shell’s drain hose diverts the leak to a closed container, thereby reducing the potential danger of accidents or injuries caused by spills around equipment and walkways and eliminates the mess and ground contamination. It practically eliminates shut downs, work stoppage or overtime. A leak can be fixed on your planned maintenance schedule.

Furthermore, the optional Andax Remote Monitoring System can save time and money by eliminating the need to visually monitor remote locations. Monitor fluid levels right from your Smartphone or computer 24/7. Receive instant alerts and notifications via text or e-mail.

Source: Andax Industries LLC
Vanguard™ Launches New Line of Single Cylinder Engines

Vanguard™ introduces the first in a complete line of all-new single-cylinder horizontal shaft commercial gasoline engines built from the ground up based on customer input. Vanguard developed the new engines around key areas of performance critical to improving overall productivity, including starting, maintenance intervals, service and support, and total cost of ownership. The new line will span from 5 to 13 hp (gross) to meet power requirements for a wide range of global commercial applications.

“For decades, manufacturers have been modifying old designs. We went out and asked people what they wanted and needed out of a single-cylinder engine before we even started designing this platform,” said Jim Cross, marketing manager, Briggs & Stratton Commercial Power. “We interviewed hundreds of stakeholders including rental houses, end users and dealers worldwide to better understand the issues they face; the need for improved starting, reduced maintenance, less noise and vibration, and better service and support. Then, we engineered a superior product that outperforms the competition in each category.”

The ground-up design process allowed Vanguard to comprehensively engineer all-new carburetion, ignition and combustion systems to promote reliable starting in any environment. To ensure four-season starting, the engine is designed to start at temperatures as low as -29°C. To further improve starting, all surfaces inside the carburetor that contact fuel feature a special corrosion and stale fuel resistant plating.

The new line of engines also includes an advanced version of TransportGuard, Vanguard’s exclusive single ignition and fuel shutoff designed to prevent oil dilution during transport. The lever now incorporates throttle control, expanding application opportunities and repower capabilities. Additionally, the engine's dimensions and bolt configuration make it a drop-in solution for equipment powered by other engine manufacturers.

To reduce maintenance and downtime, the engine features an industry-leading oil management system that allows the engine to run efficiently for up to 200 hours between oil changes – double the industry standard.

An advanced fully-cyclonic air filtration system lessens downtime by extending recommended air filter replacement intervals to 600 hours – twice as long as the leading competitor. Unlike competitive engines, which offer cyclonic air filtration as an upgrade, this system is standard on the new Vanguard single-cylinder horizontal shaft engines.

Vanguard also engineered the engine’s main components to lessen the impact of vibration on performance and engine and equipment wear, as well as to enhance operator comfort. To improve overall engine noise, acoustic engineers not
only emphasized reducing decibel levels, but also the perceived harshness of the engine’s sound.

“We didn’t stop with performance. Our feedback indicated customers feel other manufacturers fall short when it comes to service and support,” said Mr. Cross. “That’s unacceptable. From training to warranty processing, we provide customers with unmatched support so they can be more productive and, at the end of the day, have more money in their pockets.”

As a further commitment to productivity, Vanguard’s robust service and support network delivers the parts and technical support customers need. Through a single national distributor with 9 locations in the U.S., Vanguard provides next-day delivery of more than 50,000 genuine parts and replacement engines to their commercial dealer network. Training resources are available both online and in person, with 11 training centers providing on-demand certifications and advanced EFI training. And with online technical support, a commercial telephone Answer Center and the industry’s only global 3-year commercial limited warranty, Vanguard delivers the enhanced productivity commercial markets deserve.

The first available model in the new single-cylinder line, the 6.5-hp (gross)* Vanguard 200, will be available to OEMs and for engine repowers in 2018. The remaining models – ranging from 5 to 13 hp (gross)* – will be introduced over the next 2 years.

*All power levels are stated as gross horsepower at 3,600 rpm per SAE J1940.

†Based on proper starting procedures and fuel and oil specifications.

Source: Briggs & Stratton Corporation
Elgin Sweeper Changes Future of Street Sweeping with New Twist on Single-Engine Technology for Crosswind® Sweeper

Elgin Sweeper recently introduced an innovative single-engine configuration of its popular Crosswind® regenerative air sweeper used for cleaning large, paved areas such as streets, parking lots and airport runways. A variable-speed device installed between the chassis engine and transmission on the new configuration allows the engine to simultaneously power both the truck and the sweeper.

“Until now, single-engine air sweeper technology required a cumbersome multi-step process to switch between road and work modes,” said Mike Higgins, vice president and general manager of Elgin Sweeper. “With the single-engine Crosswind sweeper configuration, Elgin Sweeper is radically changing sweepers for good. More municipalities and contractors are embracing the single-engine Crosswind for their street sweeping needs.”

The new Crosswind allows the operator to switch between modes with a simple push of a button on the fly, without the need to stop. According to Mr. Higgins, the new sweeper is very easy to operate, with minimal training required compared to prior designs.

“Although traditional single- and twin-engine sweepers clean effectively and satisfy EPA Tier 4 requirements, we knew we could create a better solution, and our customers agreed,” said Ron Schmidt, vice president of technology development at Elgin Sweeper.

Elgin Sweeper invested significant dollars and several years of research developing the new single-engine Crosswind before offering pre-production models to customers for field tests. “Thousands of hours of real-world use provided valuable customer feedback that helped us further refine the product and the technology before introducing this breakthrough sweeper to the market,” said Mr. Schmidt.

“The complaints we most often hear from operators of twin-engine sweepers are related to the noise and vibration from the auxiliary engine,” said James Crockett, strategic product manager at Elgin Sweeper. “Because the average operator sweeps 6 hours per day, the din of the engine and the tremors of the auxiliary engine and its drivetrain can be both irritating and fatiguing to the operator. The single engine, combined with Elgin Sweeper’s Quiet Pak™ sound-dampening technology,

Redesigned Merlo Rotating Telehandler Cab Enhances Operator Comfort and Safety

Merlo redesigned the cab of its Roto MCSS rotating telehandler line, featuring a modular design with 360° views and a new air venting and filtration system to optimize operator comfort and safety.

The wide cabs are engineered with unique mounts to reduce vibration. Seats offer independent suspension, and the split door opens a full 180°. Merlo’s Roto MCSS models offer a 360° slewing turret, independent and jacking stabilizers, and the capacity to lift and move loads at height.

All the electronic and hydraulic lines are enclosed within the boom itself, and it is engineered to eliminate flex and any risk of damage. The Roto MCSS models can adapt to a variety of attachments, including man baskets and space system. Mounting and locking operations of the Tac-Lock system is controlled from the cab.

Depending on the model, Roto MCSS lift height range from 20.7 - 30.5 m (68’ to 100’), with a reach from 17.6 - 25.3 m (58’ - 83’). Maximum operating capacities range from 4,000 - 4,535 kg (8,820 – 10,000 lbs).

They have the most compact footprint with 8.3 m (26’8”) length by 2.49 m (8’2”) width, or 5.26 m (17’3”) with stabilizers extended.

Safety features include 2 real-time safety systems: the Merlo Local Interactive Network (MerLIN) electronic machine management program that displays the position of the machine’s center of gravity and how it moves, and the Merlin Continuous Slew Safety (MCSS) system, which automatically and continuously checks the forces acting upon the 4 independent stabilizer pads. The stabilizers, which can operate only partially extended, can be configured for the terrain and slope of the job site. Safety features also include self-levelling hydro-pneumatic pumps, and headlights installed on the turret.

Source: Manulift EMI Ltd.
helps minimize vibration and noise on the new Crosswind."

Because the chassis engine on the new Crosswind operates under a higher load, it minimizes particulate matter buildup that would require active regeneration to burn off. The time-consuming and costly maintenance checks, after-treatments and additional service requirements associated with an auxiliary engine are eliminated on the single-engine Crosswind. Downtime and expenses are drastically reduced with only one set of engine maintenance requirements.

“Performing oil changes, belt inspections and filter replacements on the single-engine Crosswind costs a fraction of the annual maintenance required on twin-engine sweepers,” said Mr. Crockett. “Those cost savings will have a more positive impact on a municipal or contractor customer’s bottom line.”

Source: Federal Signal Corporation

—

The 2018 Media Kit is available for download on www.infrastructures.com
You can watch videos related to some of our featured stories on www.infrastructures.com

Watch for the logo

Fleet Managers Discuss How New Technologies Solve Operational Challenges at CUFF

Terex Utilities recently participated in the 27th Annual Canadian Utility Fleet Form (CUFF) in Toronto, Ontario. The event format is for open discussion between fleet managers and equipment manufacturers. In Canada, Terex Utilities partners with its dealers Wajax and Commercial Equipment Corp.

Terex Utilities’ presentation featured several new technologies and operational aid concepts, all designed to provide solutions for safety and productivity challenges. The newest technologies from Terex Utilities includes wireless load monitoring for digger derricks, Load Alert for monitoring jib and basket weights on aerial devices, and the Z45 Utility Substation Articulating Boom Lift.

The wireless load monitor for digger derricks provides operators with the ability to determine actual load being lifted. Load Alert helps operators know if the boom condition is near capacity or overloaded through visible and audible alarms. Optionally, the system can send email and/or text notifications to designated personnel when an alarm condition occurs. Load Alert, for aerials, monitors boom angle, jib angle and length, winch line distance from the platform pivot point, and basket and jib load.

“The Z45 Utility Substation Articulating Boom Lift, a self-propelled aerial from our sister company Genie, with insulated boom tip, evolved out of discussions we had with customers who were looking for a solution to operating in substations,” said Joe Caywood, director of Marketing.

Terex Utilities also shared 2 other concepts with Forum attendees in order to gain feedback. Outrigger object detection would prevent outrigger deployment if an

DEUTZ® TCD 2.2 Engine Makes North American Debut in New Skyjack SJ519 TH Telescopic Handler

Skyjack has introduced a new compact telescopic handler for the rental industry that features the high-torque, 75 hp, Tier 4 final DEUTZ TCD 2.2 L3 diesel engine. Both the Skyjack SJ519 TH telescopic handler and the DEUTZ engine made their North American debuts at the 2018 ARA Rental Show in New Orleans earlier this year.

“With the Tier 4 final deadline less than a year away, it’s important that manufacturers install engines that not only meet Tier 4 standards, but also offer simple maintenance and optimal performance at a reasonable cost,” said Steve Corley, chief sales officer for DEUTZ Corporation. “This is particularly important in the equipment rental industry. Based on our successful TCD 2.9 Series – which Skyjack uses in many of its other telescopic handlers – our new TCD 2.2 L3 uses a DVERT® oxidation catalyst (DOC) that enables maintenance-free operation under all application and ambient conditions for Tier 4.”

All DEUTZ 75 hp TCD engines are able to provide high levels of torque that compensate for their lower horsepower, which is particularly useful for load-lifting machines like telescopic handlers. As a result, the new Skyjack SJ519 TH telescopic handler can raise heavy loads and travel safely over rough terrain.

“Our goal is to produce and sell machines that combine reliability, outstanding performance and top value,” said Malcolm Early, vice president of marketing for Skyjack. “We’ve previously
Chosen DEUTZ engines for other Skyjack telescopic handlers. Now, we're confident that the TCD 2.2 L3 is an ideal solution for the compact SJ519 TH model thanks to its small footprint, excellent reliability, cost benefits and Tier 4 final compliance."

According to Skyjack, the TH line was engineered to meet the broad requirements of the rental equipment industry while filling a gap in the telehandler market with “workhorse” machines that offer the features and versatility previously only found on premium units. The new, compact SJ519 TH remains consistent with this philosophy by offering easily accessible service points, a simple control panel and multifunction display and a modular cab that rental dealers can easily convert from open to closed as needed.

“Since launching the TH telehandler range, we’ve received excellent feedback from the rental market,” said Mr. Early. “Demand for compact machines continues to grow, and because the new SJ519 TH offers top-notch features and a DEUTZ engine, we anticipate many rental dealerships adding them to their fleets. Partnering with DEUTZ provides our customers with access to worldwide service support, brand recognition and a reliable reputation that they can trust.”

The TH telescopic handler range is not the only Skyjack product line that features DEUTZ engines. The company’s powered boom line has been powered by DEUTZ engines since 2006.

“Supplying engines to a prestigious equipment manufacturer like Skyjack is truly a testament to the technology and innovative spirit that are at the heart of every DEUTZ product,” said Mr. Corley. “Our goal is to provide Skyjack and all our OEM customers with engines that give their machines a competitive advantage in the marketplace. The TCD 2.2 L3 is another example of our dedication to that goal.”

Source: DEUTZ Corporation

Safe & Sound Shipping Thanks To Brigade’s Broadband Alarms

Brigade Electronics Canada recently kitted out Montreal, Quebec, container terminal operator Termont’s entire vehicle fleet with 97 of its white noise BBS-Tek broadband sound backup alarms as part of a noise abatement exercise; which resulted in optimized safety.

Termont has been operating the port’s Maisonneuve Terminal for over 25 years. It is in constant operation – providing cargo and container handling services for both import and exports. However, following recent complaints from neighboring residents, Termont conducted a noise study; finding that some of their vehicles’ warning alarms were the root of the problem. In order to reduce their noise footprint it was clear they needed to find a new technology.

After researching potential solutions, Termont decided to undertake a trial using Brigade’s BBS-Tek alarms. As part of this trial, the Termont team conducted a secondary study to judge the efficacy of the alarms and confirmed that the alarms were effective in both reducing noise complaints and keeping their employees safe.

“On a typical day, there’s an abundance of noise coming from a lot of different vehicles,” said Jonathan Paris, EHS director at Termont. “Some of it is unavoidable, but warning alarm sound carries across a broad area. That’s why we decided to opt for white noise alarms. Broadband sound is directional, so only those in the most immediate vicinity of a vehicle are alerted to danger; which is exactly what we needed.”

Using a mixture of 107 dB alarms for their transtainers and adjustable 87-107 dB alarms for the rest of the fleet, BBS-Tek alarms are compatible with a huge variety of vehicles; and are now installed right across Termont’s fleet of cars, pickups, stackers, and yard tractors.

“Noise pollution itself is a health and safety issue,” said Henry Morgan, director and CEO of Brigade Canada. “Not just from an overall environmental standpoint, but in terms of risk reduction. Being able to distinguish between a nearby vehicle and one that’s approaching that poses a risk is paramount, and narrowband tonal beepers only adds to confusion on a busy jobsite.”

“Termont has a clear commitment to both its employees and its local community, and I applaud their initiative for finding a solution that benefits all,” he added.

Source: Brigade Electronics (Canada)
Goodyear Launches Enhanced EMTrack OTR Tire Performance Monitoring System

Tires can be critical to the success of mining, construction, quarry and port operations, and they can represent a significant investment for businesses in those sectors.

To help optimize the performance of tires for these industries, The Goodyear Tire & Rubber Company has launched a significantly enhanced version of its EMTrack OTR tire monitoring system, which is available to Goodyear customers worldwide.

“The completely updated Goodyear EMTrack tire performance monitoring system will enable faster, even more accurate collection of critical tire data like tread depth, inflation levels and other indicators,” said Eric Matson, global field engineering manager, Goodyear.

“The enhanced EMTrack system also offers convenient, cloud-based data storage and more robust reporting capabilities thanks to the addition of the newly introduced Goodyear EMTrack App,” he said. “This will give mining, construction, quarry and port operators an enhanced platform so they can make even more informed decisions about their valuable tire assets.”

Here is how the Goodyear EMTrack system works:

• Trained Goodyear tire technicians perform fleet surveys, using a special Goodyear EMTrack scanning tool to capture tire inflation, tread depth and other critical measurements.
• Tire performance data automatically uploads via Bluetooth to a cloud-based platform for password-protected storage and easy access.
• End users download the data into easy-to-read, customizable reports that show tire performance.

“Through the Goodyear EMTrack App, a user can view collected tire data and reports simultaneously and in real time, regardless of their geographic location, for complete visibility,” said Mr. Matson.

End users can view performance data for their tires across their operation and even zero in on specific tires, calculating...
Among other benefits, this will help end users identify, if applicable, maintenance opportunities to help ensure optimal tire performance,” he said. “And the information collected through Goodyear EMTrack can also help in forecasting future tire requirements.

“The needs of our customers are continually evolving,” added Eric Matson. “The trusted products, worldwide support, reliable services and management tools that Goodyear offers – such as EMTrack – are also evolving. We are confident that the enhanced Goodyear EMTrack system can help improve end users’ operational efficiency and help lower their operating costs.”

Source: The Goodyear Tire & Rubber Company

According to the results of a new survey of parking professionals by the International Parking Institute (IPI), technology continues to have a tremendous effect on the parking industry, whose scope goes far beyond parking cars.

The 2018 Emerging Trends in Parking Survey reveals that more than 60% of parking professionals surveyed now identify as “parking, transportation, and mobility professionals”, their jobs increasingly integral to design, management, and operations of parking that are part of the broader movement to ease traffic congestion and create more livable, walkable communities.

Emerging as a top industry and societal trend is the importance of curb management in response to transportation network companies such as Uber and Lyft, which can put greater stress on pick-up and drop-off points.

Those surveyed include professionals who design, manage, and operate parking and transportation services in cities, universities, airports, hospitals, sports and entertainment complexes, as well as industry consultants, commercial operations, engineers, architects, planners, and equipment and technology providers.

The study reveals a profession whose responsibilities have continued to expand, often encompassing promotion of alternative commuting methods, sustainable operations, bike programs, traffic calming, transit, special events, technology integration, and data collection.

According to the IPI survey, more than half of respondents agree that perceptions of their profession have improved during the past 5 years. Although 40% see increased collaboration between parking, transportation, and decision-makers, answers also provided insights to why architects, planners, and contractors would benefit by working more closely with parking professionals.

IPI is the world’s largest association of parking professionals and the parking industry.

Source: International Parking Institute
Minnich Manufacturing, the leading manufacturer of concrete dowel pin drills, concrete vibrators and vibrator monitoring systems celebrating its 50th anniversary in 2018, has introduced the M-Box vibration control solution at World of Concrete, in Las Vegas, earlier this year.

The Minnich M-Box is an innovative control speed high-cycle power converter that enables high-cycle vibrator operators to control the speed/vibrations per minute (VPM) of up to 2 vibrators. The M-Box minimizes time and cost associated with patching structural concrete surface blemishes caused by excessive vibrator speeds.

In pumped concrete mixes, available/bleed water can be an issue. The faster the vibrator speed, the more water separation occurs and collects on the form faces. Chipping and patching labor and patch material can be expensive.

Minnich M-Box operators can select from speeds of 6,000, 8,000, and 10,800 VPM. The product converts the 230 V, single-phase outlet of a 3,500 W generator to 230 V, 3-phase output, allowing the operator to choose a uniform and compatible constant speed under different concrete loads.

“The M-Box gives our customers complete control of their concrete,” said Rob Minnich, vice president of marketing at Minnich Manufacturing. “By helping operators apply the most force with the lowest speed, the M-Box maximizes vibration quality – and, in turn, the quality of the concrete structure.”

The M-Box joins the growing Minnich family of concrete control solutions including the Minnich Auto Vibe systems, which can monitor, control and program hydraulic vibrator speeds during the paving process for superior concrete surface results.

Source: Minnich Manufacturing
Kohler continues to strengthen its distribution network for the company’s KDI diesel engines with the addition of Diesel-Bec, based in Boisbriand, Quebec. Diesel-Bec is a longtime distributor of diesel engines, which will help to bring highly-customized Kohler diesel solutions to equipment manufacturers in Canada while also improving service and parts availability for end users. The new distributor will cover Eastern Canada, including Ontario and Quebec, as well as Atlantic Canada and will work closely with both new and existing Kohler engine dealers throughout these regions.

“We’ve been interested in enhancing the support and value-added packaging capabilities of our KDI diesel engines in Canada and Diesel-Bec is the ideal company to make this happen,” said Kyle Brandemuhl, director of diesel engines for Kohler. “It has been incredibly rewarding for us to engage more and more distribution partners throughout the U.S. and Canada as our KDI diesel engines continue to deliver power, performance, and reliability in a diverse array of applications all around the world.”

In the North American market, the award-winning Kohler Direct Injection diesel engine line meets the latest emissions standards without a diesel particulate filter (DPF). The impressively compact engines are designed to deliver optimal power and torque for the toughest jobs while also maximizing fuel consumption and limiting emissions.

Kohler also recently introduced a new global emissions platform for its KDI lineup, called Kohler Flex. Kohler Flex is a suite of advanced engine systems which are integrated into the KDI line – based on the specific needs of global equipment manufacturers – to meet every emissions standard in the world. Kohler Flex combines the existing design advantages of the KDI diesel engine line, including its high-pressure common rail system and cooled-gas recirculation, with the most compact after-treatment devices to deliver an ideal emissions solution for leading equipment manufacturers around the globe.

Kohler Co. has been manufacturing engines for more than 90 years. The company offers a full array of gasoline, diesel and gaseous-fueled engines.

Source: Kohler Co.
Scania to Supply “Trucks for German eHighways” Research Project

The German Government has recently decided to co-finance a research project to test and develop electric road technology for eHighways. Volkswagen Group Research together with Siemens will develop technology and electric hybrid long-haulage trucks supplied by Scania for the German eHighway research project. This research is a preliminary phase before the start-up of 3 different test areas on German public roads, with electric power supplied from overhead lines.

The project, “Trucks for German eHighways”, aims to reduce carbon emissions from long-haul heavy-duty commercial vehicles. During 2019 and 2020 electrically-powered trucks are to be tested on 3 new German eHighways. The project is co-financed by the German Government through BMUB, the Federal Ministry of the Environment, Nature Conservation and Nuclear Safety.

One test road will be built in Schleswig-Holstein on the A1 Autobahn close to Lübeck, one in Hessen on the A5 Autobahn south of Frankfurt, and a third in Baden-Württemberg on the B462 federal highway.

“For long-haulage transport, Scania sees electric roads as one promising technology for a sustainable transport future. Vehicle electrification is developing quickly and with its environmental, social and cost benefits, it will play an important role in the shift to a fossil-free transport system,” says Claes Erixon, executive vice president Research and Development, at Scania.

The research project is being managed by Volkswagen Group Research, that will contribute with resources and knowledge.

The World’s First 5,443 kg Telescopic Handler with no Engine After-treatment

JCB recently announced that its 512-56 Loadall telescopic handler is now available with a 74 hp JCB EcoMAX engine, making it the world’s first 5,443 kg telehandler that requires no diesel particulate filter (DPF), no diesel engine fluid (DEF) and no other engine after-treatment.

The new model uses the proven engine from the company’s 510-56 telehandler, with enhancements to achieve 14% more available power and an 11% increase in power-to-weight ratio.

“The 74 hp version of the 512-56 Loadall is the perfect machine for rental operations and large construction projects. It is the only machine on the market that can offer such impressive lift height and capacity without the operating costs and hassle of engine after-treatment and regeneration,” said Andrea Whelan, vice president for direct sales at JCB North America. “And with JCB telehandlers commanding the highest resale values on the market, it has the potential to boost profits and productivity, especially for fleet buyers.”

The 512-56 Loadall features JCB’s unique U-pressed steel boom that requires fewer welds and results in fewer stress points, further enhancing the strength and durability of the machine. Also unique to JCB Loadall telehandlers are the 500-hour extended service intervals and simplified maintenance procedures, with all daily checks performed at ground level.

Maintenance planning is enhanced by JCB’s available LiveLink telematics system, which provides machine status information to remote devices.

JCB pioneered the telescopic handler in 1977 and is the world’s leading manufacturer, with more than 250,000 units sold worldwide. The 512-56 Loadall adds to the growing range of 15 Loadall telehandler models for the construction and rental industries – 8 tool carriers and 7 lift-and-place machines – with lift capacities ranging from 2,500 kg to 6,350 kg and lift heights from 6 m to 20 m.

Source: JCB North America
regarding vehicle electrification for passenger cars, and investigate research synergies for the electrification of heavy commercial vehicles.

In the first phase of the project, Scania will supply 2 electric hybrid long-haulage prototype trucks with different powertrains: one will have a single battery with a 15 kWh capacity, the other will have several batteries for greater capacity.

Similar to Scania’s ongoing trials of electric hybrid trucks on an electric road in Sweden, the world’s first public road test of this technology, the German tests will see Scania trucks equipped with a pantograph power collector developed by Siemens mounted on the frame behind the cab.

“Scania will enter this new project with all our experience from the Swedish project. In the German project, the most important research areas will be to analyze and optimize the powertrain concept, energy management, the hybrid transmission, battery ageing and the next generation cooling system,” says Christer Thorén, project manager for Electric road technology at Scania.

As part of Scania’s goal to drive the shift towards a sustainable transport system, the company is working on several projects aimed at accelerating electrification technology progress for both urban and long-haulage transport. Scania is also participating in a Swedish-German government innovation initiative on mobility and electrical roads. Concrete partnership projects such as “Trucks for German eHighways” are further proof of Scania’s approach to innovation; by working with public and private sector partners in an integrated way, Scania believes that it can help find the shortest distance and time to a sustainable transport system.

Source: Scania
Optimized Cost Per Ton with Metso Alloy Hammers for Metso Shredders

The hammers used in shredder lines represent a key factor in plant efficiency. Metso has developed a new hammer series, Metso Alloy Hammer, with the goal of extending the lifetime of these tools. Featuring a special alloy, the high-quality cast-steel hammers from the Group’s own foundry ensure substantially enhanced economic efficiency and can be used in all Metso’s Lindemann shredder series.

The special Metso alloy, in combination with a specific post-treatment process, helps to keep the shape of the hammer for a longer operational time. The result is a higher production over the extended hammer life.

“Our customers in Europe have been very satisfied with our optimized hammer solution. With this hammer, they have achieved a longer uptime and they have needed fewer hammers per year. Our customers have seen significant savings in their shredder operation, making their business more profitable. We are very pleased to note that the hammer provides an excellent cost-per-ton shredding result.” says Michael Pogritz, product manager Lindemann™ Shredder parts, sales and service manager CEE.

Metso’s product offering for metal recycling covers a wide range of efficient solutions for the fragmentation, compaction and separation of virtually every type of metal scrap. Through the Lindemann™, Texas Shredder™ and N-Series™ product lines, Metso offers a full range of pre-shredders, shredders, shears, balers, and briquetters, along with the capability to develop custom solutions for customers’ ferrous and non-ferrous scrap separation processing needs.

Source: Metso Corporation

---

We’re getting ready for the Waste & Recycling Expo Canada that will be held in Toronto on October 24-25, 2018.

Send us your ads or news releases to be featured in the October issue of

Advertise with us!
The complete media kit is available online at www.infrastructures.com

InfraStructures
Deadline is September 20, 2018!
Info: 416-795-1295
Visitors at IFAT, held last May in Munich, Germany, had the opportunity to preview the next big innovation from refuse collection vehicle manufacturer Dennis Eagle, with an exclusive first glimpse at the company’s new eCollect electric vehicle, due to go into production towards the end of 2019.

A fully-integrated product (low-entry chassis, refuse compaction body, bin lift and telematics system) with specifically-designed battery packs and control systems, the eCollect features 300 kW next-generation batteries, incorporating the latest available technology, with a 200 kW electric motor driving a conventional axle.

It will initially be available in a 26 t 6x2 rear steer narrow (2.25 m wide) configuration with left or right-hand drive options, a 19 m³ narrow body and automatic split bin lift.

“We are very excited to be unveiling our new eCollect electric model at IFAT, said Kevin Else, managing director at Dennis Eagle. “It is the result of many years’ R&D, and we are confident the end result will offer our customers a more environmentally friendly refuse collection vehicle that delivers affordable lifetime costs, whilst delivering zero emission waste collection and transportation.”

Aside from the replacing the diesel engine with an electric drive system, minimal changes to the vehicle design were made, helping to ensure ease of maintenance, as well as product familiarity with drivers and crews.

“As part of our rigorous development process the vehicle is currently being subjected to extensive trials and technical verifications. These are designed to optimize battery management software, enabling the range of the vehicle to meet the requirements of urban collection and ensuring it provides a viable, high-performance solution comparable to traditional fuel types, added Mr. Else.”

Source: Terberg, RosRoca Group
Hiab, part of Cargotec, has launched its renewed HIAB light range loader cranes with a capacity from 4 to 11 tm. This range of HIAB loader cranes combines strength and reliability with ease of use. Four options for remote and manual control systems ensure that the customer can choose between the systems that meet specifically the level of precision needed when operating a crane.

“When we started the development of this HIAB loader crane series, we wanted to ensure that the renewed equipment will make work easier for the operators, keep it safe and increase efficiency, as we have learned that these are our customers’ priorities when choosing a loader crane. The unique X-4 SPACE system on the light range loader cranes enables the operator to handle the crane with the greatest ease and with higher load cycling speeds,” says Jan Vink, director, Light Range Loader Cranes, Hiab.

As the HIAB light cranes are made with durable high-tensile steel, they combine low weight with the capacity to deliver heavy loads. Also, an external display gives a better overview of the active crane and service status. Depending on the choice of control system, a range of features are available for improving capacity, durability, flexibility, as well as safety. These features include semi-automatic folding system, load stability system and remote control systems.

“To avoid unnecessary downtime in our end customers’ operations, HIAB light cranes are designed for easier everyday maintenance. Key parts and components of HIAB loader cranes combine strength and reliability with ease of use. Four options for remote and manual control systems ensure that the customer can choose between the systems that meet specifically the level of precision needed when operating a crane.

HoistCam™ cameras from Netarus were recently featured at 2 international construction equipment shows, where show attendees were particularly interested in HoistCam™ Director enterprise fleet monitoring software. HoistCam Director enables construction owners and managers to remotely monitor an entire jobsite. By capturing data from integrated sensors, the software provides GPS recording, geofencing, and searchable archives of recordings.

FLG Services, a specialist division of A-Plant and a leading lifting equipment rental company operating in the UK, showed HC140, HC180, and HC190 cameras at Vertikal Days, held in Donington Park, UK in May. FLG Services represents HoistCam in the UK.

Recently FLG Services provided a HoistCam to VINCI Construction UK for use in conjunction with tower cranes on a highly congested construction project at the University of Bath’s main Claverton Down campus. “The HoistCam has proved to be a valuable piece of kit on this site due to the fact that space is so limited and the buildings have a complex shape with a restricted view for tower crane operators. It has given our crane operators clear vision of the blind loads being slung, thus enhancing safety,” said Alex Clements of VINCI Construction UK.

Rayco-Wylie Systems, based in Quebec City, Quebec, is a world leader in crane monitoring systems, including load indicators, range limiting devices, and weighing systems. HoistCam’s dealer for France and Canada showed the HC140 and HC180 cameras at Intermat, the international exhibition for construction and infrastructure, held in Paris, France in April. “Attendees were interested in the ability to record lifting activities with HoistCam Director, which can be referred to later if there is a problem during the lift,” said Jean Pierre Thomas of Rayco-Wylie.

Providing a centralized monitoring point, HoistCam Director is more than just a one-way camera system. A fully-integrated system allows construction owners and general contractors to view and manage hundreds of jobsites or equipment operations, improving productivity and safety. Space is severely restricted.

HoistCam Director includes a mobile digital video recorder (MDVR) with 4 channel video input. Customizable alarms include geofencing, Shock/G-Sensor, temperature sensor, voltage output triggers, and
The ALL Family of Companies has been named the new authorized dealer for Maeda Mini Cranes for the territory of Illinois, Indiana, Ohio, Minnesota, Wisconsin, in the U.S. and Ontario, in Canada. ALL Crane will sell and service Maeda’s full line including spider cranes, knuckle boom cranes, and crawlers.

As authorized dealers for many major manufacturers, ALL recognizes the value in adding new names to the roster with the potential to make customers’ jobs easier, more efficient, and more cost effective. As an authorized Maeda dealer, ALL is committed to offering extensive product and service training support to ensure customers can rely on their efficiency, durability, and productivity.

Game-changing Maeda Mini Cranes have been engineered, designed, and manufactured in Japan since the company’s founding in 1962. These ultra-compact machines are known for excellent performance in tight spots where other cranes simply can not go. Some are as little as 0.6 m wide. The construction industry especially values these small cranes for their ability to be placed high up in a structure and assist with glazing and curtainwall installation.

Although Maeda manufactures the most compact crane models in the industry, they have loaded them with features normally found on larger cranes. These include full load moment indicators (LMI) and custom outrigger programs. They also have impressive load charts. Overall, Maeda has earned a reputation for eye-opening power and performance in a compact package with great accessibility to confined work sites.

As a global brand, Maeda equipment not only exhibits peak performance, but will also conform to each country’s environmental and emissions standards. They are eco-friendly and user-friendly machines.

“Maeda is known for its customer support, strong dealer network, and commitment to maintaining inventory in North America,” said Mike Garrity, new equipment sales director for ALL Crane. “This aligns well with our own goals to provide customers with the broadest fleet in the industry, backed up by unmatched service, support, and expertise. Maeda is a valuable addition to the ALL family.”

Source: The ALL Family of Companies
**Appointments**

The **Association of Equipment Manufacturers** (AEM) has elected **Willie Harbert**, vice president, sales, hydraulics group of Eaton, to the AEM CE Sector Board to fill an unexpired term.

AEM officers and directors work on behalf of all member companies, giving their time and talent to provide strategic direction and guidance for the Association’s business-development initiatives in areas including public policy, market data, and exhibitions, as well as technical, safety and regulatory issues and education/training.

“AEM benefits from the support of our member companies and the leadership talents of our Board members, who are selected to reflect an industry cross-section,” said AEM president Dennis Slater. “Their dedication helps ensure Association programs continue to meet member and industry needs, and we welcome Willie’s knowledge and participation.”

As vice president sales for Eaton’s hydraulics group, Mr. Harbert leads the OEM sales, customer service and sales support organizations in the Americas. He has held various leadership roles within the company, including plant manager; director, business development; director, sales; and product line business unit manager.

Source: The Association of Equipment Manufacturers

**BOMAG Americas, Inc.** is pleased to announce and welcome **Matt Cadnum** as vice president of Sales & Marketing. He will be responsible for the strategic sales leadership and support of BOMAG’s dealer and rental channel partners, marketing, product management and cultivating new business development growth opportunities.

Mr. Cadnum is a highly-driven industry professional who possesses a strong background in both aftersales and commercial sales responsibilities. The first 15 years of his career were spent in various aftermarket leadership roles with Allied Construction and Atlas Copco Construction Equipment. Most recently, he held senior management positions as vice president Sales of Atlas Copco Construction’s Rental sales team and vice president Hydraulic Attachments for Epiroc, a division of Atlas Copco Group.

“Matt’s extensive background in supporting dealer, rental and end use customers coupled with his hands-on management style, strong technical skills and sales orientation is exactly what BOMAG needs to help our customers expand their business with us,” stated Rob Mueckler, president of BOMAG.

Source: BOMAG Americas, Inc.

The **Canadian Airports Council** (CAC) recently announced that **Sam Samaddar**, airport director of the Kelowna International Airport, has been elected as its new chair. Mr. Samaddar, who has served as the council’s vice chair since 2016, succeeds Howard Eng, president and chief executive officer of the Greater Toronto Airports Authority.

“It has been a pleasure to work with Sam over the past 2 years during his time as vice chair of the CAC,” said Mr. Eng. “Sam brings extensive knowledge of the airport industry and has been instrumental in his airport’s successful growth over the past decade, promoting the efficient movement of people and goods, and providing travellers with access to more air service options to the community.”

Sam Samaddar began his airport career at the Vancouver International Airport in 1988. In 1992, he began working for the Kelowna International Airport as superintendent of airport operations. In 2008, Mr. Samaddar was appointed airport director for the Kelowna International Airport. He is also a board member at Tourism Kelowna, Central Okanagan Economic Development Commission and Airports Council International – North America (ACI-NA).

“I look forward to my new role with the CAC, as the national trade association working with government and other industry stakeholders to provide travellers with safe, comfortable air access that connects Canada with the world,” said Mr. Samaddar. “Canada’s airports are an economic success story in this country. They are not only responsible for providing a safe, comfortable environment for travellers, they also play an important role in regional economic development and support nearly 200,000 direct jobs throughout Canada.”

In addition to serving as chair of the CAC, Mr. Samaddar also joins the executive committee of ACI-NA, the parent organization for the CAC, which represents airports throughout the U.S. and Canada.

“The partnership and collaboration between airports in Canada and the U.S. has never been stronger,” said Mr. Samaddar. “The multinational nature of ACI-NA means Canadian airports are able to work closely with colleagues on the U.S. side of the border to improve the cross border facilitation of travellers and goods, while learning from innovations and best practices being developed at airports around the world.”

Source: Canadian Airports Council

21 years on the web! 
Looking for more stories? 
Visit [www.infrastructures.com](http://www.infrastructures.com)
Time is money. That is particularly true on small jobsites, where work has to be completed quickly but reliably day after day. And that is exactly what the W 60 Ri small milling machine from Wirtgen delivers. As soon as the job is done, it is quickly loaded and ready to speed off to its next project.

The Norwegian milling service provider Asfalt Remix AS has recognized this advantage. The company attaches particular importance to the versatility and cost-effectiveness of its machines. The short road construction season in Scandinavia makes the company reliant on the efficiency and flexibility of its machines. And that is precisely why it exclusively uses machines from Wirtgen for its core business – cold milling.

Headquartered near Oslo, Asfalt Remix AS has been serving customers throughout Norway for more than 20 years. For the 2017 season, the country’s largest milling service provider expanded and updated its fleet of around 20 machines, adding 2 Wirtgen W 60 Ri small milling machines to the lineup along with 3 Wirtgen large milling machines of type W 220. The small milling machines more than proved their flexibility and versatility over the season.

“The sophisticated machine concept, together with other invaluable details, delivers the edge that ultimately is the key to economic success,” says Eyvind Brynildsen, junior director of Asfalt Remix.

On jobsites, the W 60 Ri small milling machine hits the mark with numerous easy-to-use added and automated functions. Milling machine operator Jon Anders Fjeld, for instance, is thrilled that the height of the machine can be adjusted using the multifunctional armrest. It means he can adjust the height and save the set value with just one hand while remaining comfortably seated. When the milling drum is lowered into the working position on a parallel track, the machine then mills to exactly the same depth as before. In total, 4 buttons on the W 60 Ri can be customized with a range of functions, allowing each operator to adapt the small milling machine perfectly to their own working style and the requirements of a particular jobsite. In Norway, where surface courses are mainly milled to a depth of 4 cm, this function saves a lot of time.

What is more, the display on the multifunctional armrest shows a lot of important information such as job data (e.g. the milled area, and the number of trucks loaded), the filling level of the tank, the current advance rate and the selected milling drum speed. This information enables the operator to organize the work optimally, as well as any stops for refueling and changing cutting tools.

Apart from the actual milling work, maneuvering is a major part of the day-to-day work of a small milling machine operator. This includes travel to and from the transport vehicle and the job site, as well as maneuvering and backing off on site. On many days, Mr. Anders Fjeld has to work on 4 or more jobsites. To ensure this tight schedule can be kept to, Wirtgen has, for instance, accelerated the speed at which the rear wheel swivels in: 30 seconds is all it takes. The milling drum has no contact with the ground, so the pavement is not damaged by the maneuvering.

The small milling machine also moves swiftly from the transport vehicle to its position on the jobsite, traveling at a speed of up to 12 km/h (4-wheel version) or 8 km/h (3-wheel version). Relocating to the start of the next milling track is also speedy, because this small milling machine can reverse with the milling drum activated.

In maneuvers, steering can optionally be performed using the joystick on the multifunctional armrest or – if the locking angle is to be particularly great – using the steering wheel. Once the rear wheel is swiveled in, it is automatically steered as well. This ingenious design reduces the turning radius. Since small milling machines often have to turn in the tightest of spaces, this feature additionally speeds up the work while maximizing cost-efficiency.

“The easy loading and great flexibility when maneuvering are simply phenomenal. This helps me get through my workload of small jobsites each day,” says Jon Anders Fjeld, summarizing his experience with the W 60 Ri. “Thanks to the many innovations, the new small milling machine is even more powerful overall than the preceding generation.”

Accurate leveling is a crucial factor for precise milling. Here too, the Asfalt Remix team is a firm believer in Wirtgen solutions. LEVEL PRO PLUS, Wirtgen’s advanced automatic leveling system, can be operated intuitively and supports an extremely high degree of automation.

“Ultimately, that further increases the precision of the milling results and leads to high quality,” says junior director and operations manager Eyvind Brynildsen.

After the first season, he is highly satisfied with his new small milling machines. “The W 60 Ri is a real premium machine and is extremely economical. Firstly, because it allows us to complete our projects quickly. And secondly, because we can handle a vast range of tasks using one and the same small milling machine,” he adds.

Source: Wirtgen GmbH
Agenda

Hillhead 2018
June 26 - 28, 2018
Buxton, England

APWA - 2018 PWX
August 26 - 29, 2018
Kansas City, MO USA

Extraction 2018
August 26 - 29, 2018
Ottawa, ON Canada

INTERNAT ASEAN
September 6 - 8, 2018
Bangkok, Thailand

APOM Technical Day
September 13, 2018
Lévis, QC Canada

The 11th annual WSI conference and expo
October 3 - 5, 2018
Las Vegas, NV USA

Waste & Recycling Expo Canada/Municipal Equipment Expo Canada
October 24 - 25, 2018
Toronto, ON Canada

IRF / R2T Global Expo & Conference
November 7 - 8, 2018
Las Vegas, NV USA

Congrès INFRA 2018
November 18 - 21, 2018
Quebec City, QC Canada

The Big 5 Dubai
November 26 - 29, 2018
Dubai, UAE

bauma CONEXPO INDIA 2018
December 11 - 14, 2018
Gurugram/Delhi, India

World of Concrete 2019
January 22 - 25, 2019
Las Vegas, NV USA

baum
April 8 - 14, 2019
Munich, Germany

National Heavy Equipment Show
March 28 - 29, 2019
Toronto, ON Canada

Canada North Resource Expo
May 24 - 25, 2019
Prince George, BC Canada

Atlantic Truck Show
June 7 - 8, 2019
Moncton, NB Canada

MATEXPO 2019
September 11 - 15, 2019
Courtray, Belgium

inter airport Europe 2019
October 8 - 11, 2019
Munich, Germany

baute
February 18 - 21, 2020
Berlin, Germany

steinexpo
August 26 - 29, 2020
Homberg/Nieder-Olfleiden, Germany
A newcomer in the Class 7 & 8 Cabover category

The oldest North American truck brand, Autocar® enters the Class 7 & 8 cabover market with a range of trucks designed for heavy work such as road maintenance and heavy pick-up and delivery, the Autocar Xpert.

The Autocar Xpert is designed to ensure the best sight lines in any cabover or conventional truck. The spacious cab features a huge windshield, side, and rear windows.

The Autocar Xpert can be equipped with an OEM dual steering system. With all controls placed either in the middle, or duplicated and mirrored on both sides.

The high performance dual steering gear system is designed for an extra tight turning radius, and the electrical system is designed for dual steer from the ground up, with no third party splicing into a wire harness.

Distributed by:
Accessories Machinery Limited
www.aolaml.com
1-800-461-1979
NEW SALES REP. FOR MONTREAL AREA

J.A. Larue Inc. welcomes the very energetic and professional David Olivier to its team as Sales Representative for the regions of Greater Montreal, Laval, the Outaouais and Montérégie. David has strong experience with heavy equipment and can expertly advise you when it comes to snow blowers, pavers, and compactors, whether it’s Larue, LeeBoy or Dynapac. Contact him by e-mail at david.olivier@jalarue.com or on his phone 514-953-3033.

From left to right: Denis Larue, David Olivier, Louis Larue.

PAVING AND COMPACTION

- Leeboy gravity fed paver 1000G 2016, 8-13 FT
  Selling price $95,000

- Leeboy paver 5000 5 to 9 FT
  Selling price starts at $108,000

- Leeboy paver 7000 8 to 13 FT
  Selling price starts at $105,000

- Road widener LBP RW 36B 2017
  Selling price $125,000

- Dynapac planer PL500TD 2013
  150 hours
  Selling price $159,000

- Dynapac roller CC4200 combi 2017
  68 inches/68 inches
  Selling price $179,000

- Many rollers from 35 to 61 inches available
  Selling price starts at $25,000

- Dynapac paver F1000T 2012
  10 to 20 FT
  Selling price $295,000

ALSO AVAILABLE:

- ROAD WIDENER LBP RW35A 2013
  Special price $98,500

- DYNAPAC ROLLER CC424HF 2012
  Special price $125,000

Montreal/Laval

DAVID OLMIER
2397, Michelin Street, Laval (Qc) Canada H7L 5B9
Tel.: 450-781-3693 • Cell.: 514-953-3033
Fax: 450-781-3692

Quebec

ÉRIC ROY
660, Lenoir Street, Quebec (Qc) Canada G1X 3W3
Tel.: 418-658-3003 • Cell.: 418-564-4557
Fax: 418-658-6799
WE SQUEEZED OUR ENGINES SO YOU DON’T HAVE TO SQUEEZE SPACE.

Hatz Space-Saver Engines Fit Where Others Won’t.

Our H-series 3 and 4-cylinder engines are so compact, the 3-cylinder can fit into a 2’ cube and weighs less than anything in its class. These turbo-charged, high torque engines can deliver a maximum output of 83 HP and feature a Bosch common rail system for unmatched fuel economy, quiet combustion, low noise and vibration. Plus, they can meet Tier IV and EU Stage 5 emission regulations.

DISTRIBUTORS

EASTERN CANADA
MARINDUSTRIEL & DAC INDUSTRIAL ENGINES
Covering: QC, ON and Atlantic Provinces
BRANCH LOCATIONS:
Montreal: 514.342.2748
Mississsauga: 905.607.5052
Dartmouth: 902.468.3765
marind.ca

CENTRAL CANADA
CUMMINS WESTERN CANADA
Covering: SK, MB
BRANCH LOCATIONS:
Winnipeg: 204.652.5470
Saskatoon, SK: 306.933.4022
Regina, SK: 306.721.9710

WESTERN CANADA
WESTQUIP DIESEL SALES
Covering: AB, BC
BRANCH LOCATIONS:
Acheson: 780.960.5560
Calgary: 403.261.0601
Vancouver: 778-522-4350
westquip.ca

hatzusa.com