A legacy of hard-working trucks since 1897

A newcomer in the Class 7 & 8 Cabover category

The oldest North American truck brand, Autocar\(^\text{®}\) 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
A Brief Word...

It was only twenty years ago we were collectively gripped by mass hysteria that, at the stroke of midnight, our VCRs would eat tapes, digital watches would ceaselessly beep, and our equipment would refuse to work.

Fortunes were made out of the Y2K hyperbole.

Hard to imagine what would happen today with electronics far more entwined into our routines. Fortunes are being made pedalling the latest gadget or App to help make life “less stressful”.

How much time do you lose endlessly checking your device or reading your Outlook schedule?

You’ll NEVER waste time as you peruse the pages of InfraStructures. Whether in print or online we provide you news and insight into the industry you can use to plan your future and use your time profitably.

We hope you made the most of the Chrimbo-Hogmanay break, there is a whole new decade ahead!

On the cover: Two Gilbert Grizzly MultiGrip vibratory pile drivers were used in Sainte-Marthe-sur-le-Lac as part of the major work to repair, raise and waterproof the dike. Nearly 5 km of sheet piling were driven during this job which had to be finalized as quickly as possible.
HUSQVARNA ACQUIRES THE CONCRETE POWER TROWEL BUSINESS FROM WACKER NEUSON

Husqvarna Group is acquiring all the product, R&D and manufacturing assets relating to walk-behind and ride-on concrete power trowels. Sales in the power trowel segment (acquired assets) in 2018 amounted to about SEK150 million ($20.4 million).

“Power trowels complement our current range in a great way, connecting the entire process from ground compaction to polished concrete floors, and fits well into our divisional strategy to grow our Concrete Surfaces and Floors business. With the addition of the ride-on trowels we will now have a complete offering for concrete surfacing and polishing which will add great value to our customers,” said Henric Andersson, president Construction Division of Husqvarna.

A Husqvarna product range will be launched early in 2020 and as part of the agreement Husqvarna Group will in parallel manufacture power trowels on Wacker Neuson’s behalf.

Source: Husqvarna AB

CORBEC BREAKS GROUND ON ITS FIRST GALVANIZING PLANT IN ONTARIO

Corbec recently broke ground at the site of its first galvanizing plant in Ontario. The project, which is slated to be complete by the end of 2020, will create between 80-110 local jobs and see investments to the tune of $30-40 million made by the Quebec-based company.

“Today’s ground-breaking ceremony marks yet another milestone in Corbec’s distinguished history. We are thrilled about our Hamilton facility and are confident that it will become a testament of our commitment to consistently offer superior quality steel products at a competitive price to businesses across Canada. We are truly grateful to the City of Hamilton and the Government of Ontario for their support as we seek to serve various industries across the province and are also proud to be an integral part of the country’s thriving steel industry,” said John Hall, CEO, Corbec.

Located in Hannon, near Hamilton, the galvanizing plant will serve customers in the South-West Toronto region. The new plant will be spread over an area of 9,300 m² with an annual production capacity of 45,000 t. In addition to being one of the most technologically advanced galvanizing plants in North America, the facility will also possess state-of-the-art safety and green features.

Some of the steel products that would be galvanized at the new facility include engineered structures such as bridges, windmills, towers, exposed architectural steel structures, fencing and farming equipment, Original Equipment Manufacturer (OEM) products, and a variety of metal parts and hardware.

Founded in 1965, Corbec Inc. is one of the leading steel galvanizers in Central and Eastern Canada and has been a key player in the Canadian steel industry for over 50 years. Corbec is a member of the Canadian Institute of Steel Construction (CISC) and is actively involved with galvanizing associations as well as technical and engineering societies across the world.

Source: Corbec Inc.
TIMKEN COMPLETES ACQUISITION OF BEKA

The Timken Company, a global manufacturer specialized in engineered bearings and power transmission products, has completed its previously announced acquisition of BEKA Lubrication (BEKA), a global supplier of automatic lubrication systems.

Founded in 1927, BEKA lubrication systems are used in a diverse range of industrial sectors including wind, food and beverage, rail, on- and off-highway and other process industries.

This acquisition positions Timken as the world’s second largest producer of industrial automatic lubrication systems, which extend equipment life and improve reliability over manual lubrication methods, reduce the environmental impact caused by over-lubricating and lower total costs for equipment and machine owners.

Source: The Timken Company

FPT INDUSTRIAL SIGNS MEMORANDUM WITH MICROVAST

FPT Industrial, brand of CNH Industrial, signed a memorandum of understanding foreseeing an industrial and commercial cooperation with Microvast, which will enable FPT Industrial to design and assemble in-house high-voltage battery packs, to be offered on CNH Industrial vehicles and to third-party customers.

Microvast, based in Houston, Texas, is a market leader in the design, development and manufacturing of ultra-fast charging, long-life battery power systems with superior safety for electric vehicles.

“FPT Industrial is a recognized leader in alternative propulsion systems, and this agreement further prepares us for the challenges facing our industry,” said Hubertus Mühlhäuser, CEO, CNH Industrial.

“In a fast-evolving sector, CNH Industrial is committed to entering into targeted partnerships to deliver advanced alternatives to traditional fuels, this accelerates our journey to a sustainable tomorrow.”

Additionally, as part of this cooperation, FPT Industrial will start a new e-platform to develop and industrialize complete electric powertrain systems, customized and sized for specific missions, with the aim to guarantee the most efficient performances both for on-road and off-road applications.

Conclusion of negotiations for the definitive agreements, including cooperation and license contracts, is expected by Q1 2020.

Source: FPT Industrial

ZF AND DANFOSS SEAL STRATEGIC PARTNERSHIP

ZF Friedrichshafen AG and Danfoss Silicon Power GmbH have stepped up their existing cooperation with a new strategic partnership for silicon- and silicon-carbide power modules. The partners plan to improve the efficiency of electric drivelines by leveraging engineering and cost benefits at the interface between power modules and inverters.

The partnership will see the 2 companies engage in joint research and development, with Danfoss also supplying power modules for silicon applications. One of the first major milestones in this new initiative is a supply contract for Danfoss power modules destined for large-scale ZF volume production projects. Beside 400 V standard applications the 2 companies have also begun co-developing an 800 V Silicon Carbide power module for a
The CERABOND X grinding wheel, developed for heavy-duty applications, has now been on the market for more than half a year. In tests conducted around the world, it has proven to be the most aggressive wheel of its kind on the market. Designed for deburring, notching and surface grinding, of steel and stainless steel, the wheel has seen particular success in the steel construction industry, shipyards and foundries.

The reason behind the success of CERABOND X is TYROLIT’s unique bonding system. The CERABOND X technology binds the grain in a way that allows never-before-seen grinding speeds.

“TYROLIT is 100 years old and we’ve been perfecting our bonding technology since the very beginning. There are many grinding wheels with sintered aluminium oxide grain on the market, but none perform as well as CERABOND X, because no one is able to bond the grain in the same way as we do,” says Wolfgang Gruendl, product manager at TYROLIT. “We are extremely proud of this product. For us CERABOND X is more than just a grinding wheel, it’s a symbol of cutting-edge innovation – a flagship product that represents the strength of TYROLIT abrasives.”

At a steel fabrication company in the Canadian province of British Columbia, CERABOND X outperformed its main North American competitor by a notable 85% in G-ratio. The G-ratio is a parameter that is standard in the industry showing the volume of material removed per unit compared to the volume of wheel wear.

CERABOND X is available in dimensions ranging from 115 to 230 mm and in widths of 4 mm and 7 mm. Contact your local TYROLIT dealer for more information.

Source: TYROLIT Group
The Total Piling Solution: HMC's comprehensive range of piling and foundation equipment includes excavator mounted sidegrip® vibratory driver/extractors, piling hammers and piling drills. Hercules Machinery offers not just piling equipment but a most efficient, fast, flexible, accurate and safe solution.

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which is expected to take place in the second quarter of 2020, remains subject to the statutory creditor hearing process and receipt of all required regulatory and other approvals, including other remaining competition clearances.

Source: Metso Corporation

**COMPOSITE TUBING FOR PNEUMATIC AND HYDRAULIC CYLINDERS**

Polygon Composites Technology, a leading manufacturer of composite tubing solutions for bearings, dielectric applications, surgical devices and more, announces PolySlide® Composite Tubing for pneumatic and hydraulic cylinders.

PolySlide tubing replaces metallic material in a variety of cylinder applications.

Supplied as a cylinder tube ready for customer assembly, or as fully engineered cylinder assemblies for equipment manufacturer applications, the tubing is made of continuous filament-wound glass fiber and polymer resins. The fiberglass filament and resin materials combine together to form a high strength component that exhibits dimensional stability, is non-corroding, impingement resistant and is non-conductive. PolySlide is the solution for service in harsh environments. The cylinder tubing performs in high and low temperatures, grease, grit, salt, chemicals and other extreme conditions.

PolySlide cylinder tubing sizes range from as low as 6.3 mm inner diameter (ID) up to industrial-sized 609.6 mm IDs. The features of the tubing allow the seal to slide over the bore surface contour, minimizing interlocking friction. The inside diameter of the tubing has a smooth finish. Contact with the non-metallic rod guide bearing prevents galling and provides for a low coefficient of friction. A wear resistant material incorporated into the bore surface further increases the lifespan of the composite cylinder tubing.

Commonly found in pneumatic and low pressure hydraulic applications, such as fifth wheel actuation, gate valve actuators, water treatment flow control mechanisms, tie rod cylinders and more, a translucent version of the composite cylinder tubing is also available.

Source: Polygon Composites Technology

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**The World’s First Cordless Breaker**

Hilti Inc. expands its cordless tool offering with the addition of the world’s first cordless breaker, the TE 500-A36. Specifically engineered for the challenges associated with breaking concrete and masonry, this new tool gives construction professionals the power of a corded breaker with the mobility and productivity of a cordless solution. Hilti continues to build upon its best-in-class 36 V cordless platform leadership with this new breaker on the heels of introducing the world’s first cordless chipper, the TE 300-A36, last year in Las Vegas at the World of Concrete trade show.

Powered by the strongest and highest capacity (36 V 9.0 Ah lithium-ion) battery in its class and a high efficiency brushless motor, the cordless breaker delivers unmatched power, performance, and reliability. The tool includes Hilti’s exclusive Active Vibration Reduction (AVR) technology, which reduces the tool’s triaxial vibration over 30% compared to the competition and helps keep contractors productive. Couple it with the VC 75-A22 cordless backpack vacuum system for an OSHA compliant virtually dustless solution that allows users to fully cut the cord.

Dedicated to helping customers improve productivity, Hilti offers innovative cordless tools for professionals including the best warranty and services in the industry. The TE 500-A36 is backed by Hilti’s industry best Tool Warranty – 20 years of repair or replacement of defective parts; 2 years no cost repair including wear and tear; and a guaranteed 1-day turn-around on repairs – and is fully available for those customers experiencing the unprecedented flexibility and service of Hilti Tool Fleet Management.*

*Tool warranty: Some limitations apply. Contact Hilti for details.

Source: Hilti Inc.

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**ARW TRUCK EQUIPMENT ROLLING OUT ACROSS WESTERN CANADA**

ARW Truck Equipment Ltd. is growing. The company recently announced the expansion of its service area to cover all of Saskatchewan, as well as Northeast and Southeast British Columbia, including Golden, Cranbrook, Fernie, Dawson Creek, Fort St. John, Chetwynd and Fort Nelson. The company will service the Fort St. John area through its established ARW Truck facility in Grande Prairie.

ARW Truck Equipment Ltd. has its roots in Alberta selling and servicing the materials handling, light construction, and truck-mounted equipment markets. In the more than 77 years since, the company has built solid long-term relationships, and an enviable reputation for product quality and careful attention to customer needs.

ARW Truck has been the exclusive factory-authorized sales and service dealer in Alberta for HIAB cranes, Moffett forklifts and Multilift hooklifts since 1997.

“It was time to roll out our operations,” said Trevor Steinke, general manager of ARW Edmonton. “There was a great demand for our products, in-depth knowledge and unmatched expertise in truck-mounted equipment in other parts of the west, and we’re well-positioned to meet those needs.”

HIAB is a global leader in truck-mounted
equipment. HIAB cranes, Moffett Forklifts, and Multilift Hooklifts are #1 in Canada. Their patented innovative features are renowned for improving productivity, profitability, long life, and ease of use. And their reputation for quality and durability gives them the highest resale value in the marketplace.

ARW will continue to provide the same superior level of sales, rentals, and certified factory-trained service support to its Alberta customers, while expanding to the new regions. In Saskatchewan, ARW has partnered with Cervus Equipment to be the authorized parts and service provider through their locations in Saskatoon and Regina.

Source: ARW Truck Equipment Ltd.

THE ROAD TO A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION IS PAVED

On Friday November 22, the EU-funded DigiPLACE project hosted its first public event and launched the call for registration to the project’s Community of Stakeholders. Organized in Bologna, within the professional trade fair Digital&BIM Italia, the DigiPLACE Launch Conference “Towards a European digital platform for construction” gathered close to 200 attendees and several more watching the live-streaming feed.

Representing the DigiPLACE partnership, Assistant Professor and consortium coordinator Alberto Pavan of Politecnico di Milano, presented the project, listing its goals and ambitions, detailing its timeline and milestones, and introducing its 19 partner organizations.

The conference was opened by Federica Brancaccio, president of Federcostruzioni, and Gabriele Buia, president of ANCE, who highlighted the importance of digitalization for SMEs. Representing the Italian Ministry for transport and infrastructure, Pietro Baratono addressed in his opening presentation the challenge of connecting national and international digital platforms.

CECE Secretary General Riccardo Viaggi moderated the event, welcoming on stage the project partners to enhance the project’s visibility and to hold the first DigiPLACE Advisory Board meeting. Within the next months, DigiPLACE will host several national workshops with the aim of expanding the Community of Stakeholders.

Source: DigiPLACE

KOEL PARTNERS WITH ORIGIN ENGINES

KOEL Americas Corp., a wholly-owned subsidiary of Kirloskar Oil Engines Ltd. (KOEL) from India, has entered into an ex-

BOMAG Launches the BF 200 Paver

BOMAG recently launched the new BF 200 cart path and small construction site paver. It is available for the first time in North America. At just 6,000 kg operating weight and 1.3 m transport width, this compact and nimble paver can be transported to job sites on a trailer. At home paving paths, on the golf course and road rehabilitation projects, the paver’s narrow 1.1 m track width fits in the cut of a 1.2 m cold planer to boost efficiency of mill-and-fill applications.

The hydraulically extendible electric screed offers base paving widths ranging from 1.1 m to 2.0 m. Manual screed extensions feature Quick Coupling technology with a locking wedge-and-socket design to quickly extend paving widths to 3.4 m. Available reduction skids allow contractors to pave as narrow as 0.41 cm wide, significantly increasing the paver’s flexibility.

The BF 200 paver boasts patented BOMAG MAGMALIFE technology that heats the screed up to paving temperatures in approximately 20 minutes. This exclusive BOMAG MAGMALIFE design casts heating elements into a single aluminum block for superior thermal conductivity. In addition to quick heating, MAGMALIFE delivers higher uptime guaranteed and more uniform heat distribution throughout the screed bottom for a tight mat texture without scuffing or tearing.

A 2-level operator platform design provides the best view to both the hopper and paver sides without compromise. Offering single-operator capability, this new BOMAG paver helps to lower labor costs as well as long-term operating costs. Equipped with an automatic steering radius system, the paver easily matches and holds cart path radius, while conveniently allowing the operator to focus on other paving functions.

While compact size, the machine’s large 4.5 t hopper capacity provides extended paving intervals between loads. Optional hydraulically unfolding hopper wings deliver convenient loading with an end loader. Alternatively, for mill-and-fill paving, the hopper’s 3.0 m width easily accommodates truck loading, while the paver offers the traction and power required to push the truck.

Powered by a fuel-efficient 74 hp (55 kW) diesel engine, the BF 200 paver requires no diesel particulate filter (DPF) or diesel exhaust fluid (DEF) aftertreatment to meet stringent Tier 4 final emissions regulations. BOMAG ECOMODE active engine and hydraulics management system reduces fuel consumption by up to 20% standard mode operation. By delivering fast screed heat-ups, MAGMALIFE further lowers fuel consumption to reduce the paver’s total cost of ownership.

Source: BOMAG Americas

exclusive distribution agreement with Origins Engines. Origin Engines will be responsible for the gasification, EPA Certification and packaging of Kirloskar’s V8, V10 and V12 engines. This relationship enhances Origin Engines’ gas engine line with a heavy-duty gasified product line capable of up to 500 kW (670 hp) power.

“This partnership with Origin Engines for gasifying our DV series engines is another step towards our long-term commitment to the U.S. market and we’re excited about our strategic entry in the U.S. gas engine industry,” said Atul Kirloskar, executive chairman of Kirloskar Oil Engines Ltd, who was present during announcement of this partnership at the POWERGEN Show. “This is an important step towards Kirloskar being a global engine manufacturer and achieving our vision.”

“We’re certainly pleased as we’ve been looking for a strategic partner to help us expand our product offering and power range and we’re happy to announce we have one,” said Shawn Sterling, president, Origin Engines. “This will be a game changer.”

Kirloskar Oil Engines Ltd. specializes in the design and manufacturing of both air-cooled and liquid-cooled diesel engines. The company is consistently adapting and evolving its business strategies based on modern technology adoption, systematic operations, customized processes and developing a culture to drive positive results across all its business verticals. Over the years, the Kirloskar brand has become synonymous with trust, quality, assurance and customer satisfaction. Providing highest quality at every stage in its business is the cornerstone of Kirloskar’s business strategy and a promise that it delivers each day.

Source: IKO Americas Corp.

IKO Introduces Acrylic, Adhesive-Backed Vapor Barrier Membrane

IKO recently introduced 2 new products to its line of AquaBarrier™ air and vapor barrier solutions. IKO AcrylicStick SA and IKO AcrylicStick SA Tapes are acrylic, adhesive-backed vapor barrier membranes that provide exceptional adhesion to most surfaces.

The acrylic adhesive used in IKO AcrylicStick SA and IKO AcrylicStick SA Tapes is pressure-sensitive, allowing for high-quality adhesion to substrates, including gypsum, concrete and plywood, without the use of primers. This saves up to 30% in application time, leading to labor cost savings. IKO AcrylicStick SA Tapes are available in 4 different widths.

IKO AcrylicStick SA is a primerless, self-adhesive, non-permeable air and vapor barrier that provides extra protection and durability to keep outside elements out and inside elements in, as well as ensure wall assemblies remain dry and airtight. Completing the line are the IKO AcrylicStick SA Tapes, which use extra durability and versatility to prevent air and vapor leaks in specialized areas, such as windows, doors and skylights. Used alongside the full AquaBarrier product line, these IKO products provide superior air and vapor protection for a wide variety of commercial building needs.

IKO AcrylicStick SA and IKO AcrylicStick SA Tapes provide an effective barrier to moisture, vapor transmission and air leakage when installed according to IKO specifications, thereby protecting the integrity of the entire building. The acrylic formulation used in the products meets low volatile organic compound standards and can be used effectively in cold weather temperature applications. The membrane can be used for a variety of wall assembly applications, such as masonry cavity walls and metal cladding systems.

IKO produces a suite of asphalt low slope roofing systems, including built-up roofing, cold applied, heat welded, self-adhered and more. In addition, IKO offers building envelope, bridge deck and waterproofing membrane systems and accessories, along with wall insulation and air/vapor barrier systems.

Source: IKO

AGF ACCESS GROUP AWARDED NUCLEAR CONTRACT BY AECON

Montreal-based AGF Access Group, Inc. recently announced it was awarded a sub-contract by Aecon to fabricate 2 customized Winsafe upper feeder platforms for the Bruce Power’s Major Component Replacement (MCR), a project that involves the refurbishment of 6 nuclear reactor units. The 2 suspended platforms, based on a modular concept, will be used to provide access inside the reactor vaults.

The MCR Project begins in January 2020 and is part of Bruce Power’s Life Extension Program, which started in 2016 and will enable the electricity supplier to operate safely through to 2064. The Winsafe work platforms will be used during the refurbishment of the Primary Heat Transport Systems located in the reactor.

“We are becoming well known for our access ingenuity and experience within the nuclear industry,” said Alex Di Domenico, vice president, Major Projects, AAG. “Our relationship with Bruce Power, Hatch and Aecon has evolved over the years, and we have successfully expanded our contract to be an even more experienced fabricator for the nuclear application.”

The 2 platforms, suspended from existing structures, will provide support for the replacement of the upper feeder tubes and associated components within the space-limited reactor core.

Measuring roughly 18 m long and 9 m wide, each platform has the capacity to support multiple workers and their tools while they maneuver and fit up the tight and exacting tolerances for work with the heavy feeder tubes.

“Our unique approach for the nuclear industry is to provide a design concept that allows workers to quickly put together the feeder platforms without struggling with nuts and bolts while wearing their protective gear,” said Emmanuel Piec, general manager, Winsafe. “By making...
the platform modular and almost tool-free, they can quickly assemble it into place in a constricted space both safely and accurately.”

Bruce Power produces 30% of Ontario’s electricity at 30% less than the average cost to generate residential power. The company’s Life-Extension Program will add approximately 30 to 35 years of operational life to each of the units while creating 22,000 direct and indirect jobs annually.

Delivery of the Winsafe platforms is scheduled for the end of February 2020.

Source: AGF Access Group

WASTEWATER FACILITY TO SIGNIFICANTLY REDUCE GREENHOUSE GAS EMISSIONS VIA BIOGAS RECYCLING

Brown and Caldwell has been selected by the Derry Township Municipal Authority (DTMA) to design energy efficiency improvements at its Clearwater Road Wastewater Treatment Facility (WWTF).

Already accepting organic waste from third-party carriers, the Authority is developing long-range plans to maximize the capability to receive additional organic wastes. Facility upgrades are considered key to expanding capacity and increasing energy efficiency, thus evolving the 19 million l/d WWTF into a highly sustainable operation.

Under DTMA’s US$15 million ($20 million) energy enhancement program at the WWTF, Brown and Caldwell will lead the design of a combined heat and power (CHP) facility capable of burning biogas that will power 2 generator engines. After pairing with a new gas conditioning system for high-quality fuel production, the CHP facility will integrate into the WWTF’s existing electrical and heating system to provide electricity and heat throughout.

Brown and Caldwell will assist DTMA with the procurement of the engines through COSTARS, the Commonwealth of Pennsylvania’s cooperative purchasing program.

Other improvements include a conveyance system to transport gas throughout the facility, sludge blending tank enhancements to maximize energy recovery via biogas generation, and secondary digester modifications for future conversion to a primary digester.

Upon completion of improvements, the WWTF will increase biogas power generation from 280 to 1,600 kW/h, significantly reducing the facility’s carbon footprint.

The design phase of the project will run through May 2020, with construction scheduled to begin by fall 2020.

Source: Brown and Caldwell

PREPARATIONS ARE PROGRESSING AT FULL SPEED FOR BAUMA CHINA

With less than a year to go before the start of the trade fair, preparations for bauma CHINA are progressing at full speed. The 10th international trade fair for construction machinery, building material machines, mining machines, construction vehicles will be held November 24 - 27, 2020 at the Shanghai New International Expo Centre (SNIEC), in China.

Any companies wishing to register can still do so up until the end of February. The relevant documents can be found at www.bauma-china.com/application.

Source: Messe München GmbH

Electric Truck Fleet to Boost Mine Efficiency at Conuma Coal Resources

Conuma Coal Resources Limited is pleased to announce the replacement of a fleet of haul trucks at its Wolverine Mine with 5 new Komatsu electric 830E-5 models supplied by SMS Equipment Inc. Conuma is a Canadian metallurgical coal producer with more than 950 employees and 3 surface mining operations near Tumbler Ridge and Chetwynd in northeastern British Columbia.

Based on comprehensive engineering and financial analysis, Conuma determined that the deployment of new Komatsu 830E-5 haul trucks at Wolverine would meaningfully increase production at the mine, largely due to the improved overall availability of the Komatsu electric drive haul trucks. Contributing factors include easier maintenance and higher durability. The 830E-5’s are also quieter and more fuel-efficient than the existing haul trucks.

“Conuma is confident that we have chosen the right partners for results with Komatsu equipment and SMS Equipment’s parts, service and support. Their proven results and experience speak to the quality of their products and service,” noted John Schadan, Conuma’s president.

The first 830E-5 was released to the mine at the end of August 2019, and the remainder of the fleet will be delivered over the next 2 months. The new trucks complement existing equipment that SMS Equipment supports on Conuma’s mine sites.

“SMS Equipment is committed to working with Conuma through the long-term to ensure full support, resulting in maximized uptime and availability of their Komatsu fleet,” said Dennis Chmielewski, executive vice president of Mining at SMS Equipment.

“We are honored to have our trucks supporting Conuma’s Wolverine Mine operation and are excited to help the mine realize its operational targets by providing consistent quality and reliability,” said Daniel Funcannon, vice president & general manager, Mining Division, at Komatsu.

The Komatsu 830E-5 electric truck leads the 227 t class market with its proven durability and reliability. Powered by a 2500 hp Komatsu SDA16V160 engine, the drive system provides efficient transfer of power to the ground while realizing low fuel consumption and excellent reliability.

Source: SMS Equipment
Putting the Family Business First

Ferlin Kang did not always know he wanted to go into the construction industry. Born and raised in Calgary, Alberta, he was exposed to the energy and opportunity that comes with living in a growing, evolving city. He knew he could pursue different paths in life, but he also knew how unique it was to have the opportunity to carry on his father’s business as a first-generation Canadian.

“My father had humble beginnings, immigrating from Asia. He had been in construction since the 1960s before starting Kang Construction Ltd. in 1982 in Calgary,” said Ferlin Kang. “When I was in my teen years, I started working with the company and thought there was no way I’d be doing this.”

But for him, the opportunity to carry on the family business was something he grew interested in, and soon began to enjoy.

“My father came here, established himself, started a business and became an entrepreneur. Being able to grow the business to this point is not something to take lightly,” he said. “I didn’t want that legacy to go away.”

And that legacy will remain intact. Ferlin Kang is now the vice president of the 60-employee Kang Construction, as his father, Alvin, gradually steps back.

Initially, Kang Construction began carving out a niche in the petroleum industry. Due to an industry need for excavation, Kang Construction purchased its first excavator in early 1988 – a Hitachi EX200LC. It was the first excavator of its kind to operate in Alberta.

“For us, the Hitachi brand loyalty reaches all the way back to our beginnings as a company when we first purchased our EX200,” said Ferlin Kang. “Hitachi’s always been known for manufacturing heavy}
equipment that is tried, tested and true. They’re very reputable and providing the right equipment for the right job is always very important to us.”

The EX200 was not the only “first” for this company. In December 2018, Kang Construction was also the first company in Alberta to purchase the ZX345USLC-6.

“Our fleet of Hitachi excavators ranges from a 470, which is our largest, to the 225, 160, 135, 85, all the way down to the minis. We also have a 350 that has a long-reach telescopic boom mounted to it for deep excavations, or we can change it to a 60-feet-long-reach boom,” said Ferlin Kang. “Just from our fleet, you can see the versatility that Hitachi equipment provides.”

Over the years Kang Construction has grown drastically. Their growing fleet is a result of growing services. “We started to go more into the earthwork side of things and away from the petroleum side toward the 2000s,” he said. “We got into more detail and mass excavations for commercial, retail and industrial projects.”

Soon, Kang Construction expanded to offer installation of water and sewer underground utilities to their projects. This is where the 345’s versatility really shined. As it has grown, Kang Construction has tackled larger, high-profile jobs within the area. Recently, the company has been working at the Foothills Hospital Calgary Cancer Centre connector, providing earthworks, and water and sewer utilities to the project.

“The 345 worked out really well for this project in the sense that we have a new Tier 4 engine in there, which just gives minimal emissions,” said Ferlin Kang. “A new machine like the 345 is perfect when working near a sensitive hospital environment.”

Another advantage of the 345 is the power it brings to tight spaces as a reduced-tail-swing model.

“The fact that it’s a reduced-tail-swing and has power, that’s just an added bonus,” he said. “It’s perfect for our fleet.”

If Ferlin Kang had to choose one word that is most important to Kang Construction, it would be “productivity”. As technology advances and the needs of their clients become more stringent, he has to rely on equipment that can deliver. Along with contributing to the bottom line, Hitachi excavators are a favorite among Kang Construction operators, too.

Ferlin Kang has hopes that the company will continue to grow in Calgary, a city which he describes as “opportunistic” and he is grateful for the growth Kang Construction has seen thus far.

“We’ve always been aggressive, ever since our small beginnings. But I couldn’t have envisioned us being involved on the types of jobs we’re working today, 15 years ago,” he said. “We are excited to see the legacy continue for our company.”

Kang Construction Ltd. is serviced by Wajax, Calgary, Alberta.

By Caroline Schweitzer, on behalf of Hitachi Construction Equipment

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**MHWirth Pile Top Drill Rigs for Mumbai Trans Harbour Link**

Pile top drill rigs (PBA) by MHWirth are supporting the boom in India’s infrastructure. They provide solid foundations for constructions onshore and offshore, among others for one of India’s flagship projects, the Mumbai Trans Harbour Link (MTHL).

Five Wirth™ PBAs 818 are currently in operation at the MTHL project. MTHL will be a 21.8 km long road bridge, connecting the city of Mumbai with Navi Mumbai, its satellite city. MHWirth PBAs are currently drilling around 1,100 piles with diameters of 1.75 and 2.15 m and depths of up to 50 m.

These days, many infrastructure projects are characterized by increasing constructions, resulting in higher loads on the structures. To be efficient and competitive in such projects, the construction sector requires large foundation diameters. MHWirth PBAs cover the diameter range from 0.6 to 8.0 m and, compared to conventional technologies, they provide the most economical solution for foundations in mixed formations and rock as well as for deep foundations. More than 350 pile top drill rigs by MHWirth have proven to be outstandingly reliable and efficient in numerous projects around the world.

Source: MHWirth

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Source: MHWirth

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MHWirth Pile Top Drill Rigs for Mumbai Trans Harbour Link

Pile top drill rigs (PBA) by MHWirth are supporting the boom in India’s infrastructure. They provide solid foundations for constructions onshore and offshore, among others for one of India’s flagship projects, the Mumbai Trans Harbour Link (MTHL).

Five Wirth™ PBAs 818 are currently in operation at the MTHL project. MTHL will be a 21.8 km long road bridge, connecting the city of Mumbai with Navi Mumbai, its satellite city. MHWirth PBAs are currently drilling around 1,100 piles with diameters of 1.75 and 2.15 m and depths of up to 50 m.

These days, many infrastructure projects are characterized by increasing constructions, resulting in higher loads on the structures. To be efficient and competitive in such projects, the construction sector requires large foundation diameters. MHWirth PBAs cover the diameter range from 0.6 to 8.0 m and, compared to conventional technologies, they provide the most economical solution for foundations in mixed formations and rock as well as for deep foundations. More than 350 pile top drill rigs by MHWirth have proven to be outstandingly reliable and efficient in numerous projects around the world.

Source: MHWirth

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Source: MHWirth
How to Set a Record? Thanks to a Record Team!

The world speed record set by JCB with its 1,016 hp Fastrac Two tractor was achieved with the ultimate BKT know-how. In addition to the revised chassis and powertrain developments carried out by the well-known tractor maker, this speed machine was also equipped with a tire specially developed by BKT and capable of withstanding high-speed runs in excess of 150 mph (241 km/h).

For the task, BKT worked closely with JCB’s engineering team to create a technically-advanced tractor tire capable of handling extreme speeds and loads. The tire is a specially constructed 400/80R28 RIDEMAX IT 696, based on a tire usually found in industrial applications and capable of speeds of up to 65 km/h on paved surfaces.

This tire offers a series of excellent features and among these an outstanding rolling resistance, which turns into fuel savings and a both economic and environmental advantage. Compared to the regular RIDEMAX IT 696 tire on which it is based, this high-speed version underwent considerable changes to meet the demands of the challenge.

Firstly, the tread blocks were reduced in height from 27 mm to just 10 mm, to improve stability and reduce unwanted movement. Secondly, the carcass was reshaped to be smaller and narrower – this improved aerodynamics and enabled 2 additional steel belts to be integrated into the tire, to create much needed rigidity. This also prevented the tire from generating excessive heat and stopped tire growth at high rotational speeds.

Finally, this tire has been created with more natural rubber to further improve its grip. And after digitally-created simulations, extensive rig-testing followed to obtain the best performance of the tire, and at speeds that included a generous safety margin.

With motorbike racer and truck mechanic Guy Martin in the driving seat, Fastrac Two achieved a maximum speed of 247,470 km/h (153,771 mi/h) with

Irving Equipment Adds New Grove Cranes to Its Fleet

Irving Equipment recently added 2 new Manitowoc cranes to its fleet. With the GMK5250L and the TMS9000-2, the company based in Saint John, New Brunswick will be able to perform 2-hook operations, which boosts its competitive edge.

“We are now better equipped to provide the best lifting solution for our clients,” said Victor Murty, operations manager at Irving. “Now we have even more lifting options. This will help us compete for and win jobs we couldn’t have previously.”

Irving also works closely with Manitowoc to provide feedback to the manufacturer about what customers might want from their cranes. The crane contractor even goes so far as to provide data about the Manitowoc cranes utilization in its fleet to the manufacturer. The latest example of this collaboration involves the fuel consumption of the TMS9000-2 and the efficiency of the GMK5250L.

The TMS9000-2 is a Grove truck-mounted crane that features a 11.2 – 51.6 m, 6-section Grove MEGAFORM boom, and has optional extensions and a counterweight removal system. It also has a 100 t capacity, as well as multiple bi-fold swingaway extension options. The GMK5250L is an all-terrain crane that features MAXbase technology, a 250 t capacity and a 70 m 7-section boom.

Irving specializes in heavy lifting and has been working with Manitowoc for more than 60 years now. Around 60% of its fleet is currently comprised of cranes from Manitowoc. Irving’s dealer, Shawmut Equipment, plays a crucial role in the relationship between Irving and Manitowoc. The dealer often helps Irving identify what needs it is trying to address and then finds the solution that the construction company will benefit from the most.

Source: The Manitowoc Company, Inc.
a recorded average of 217,570 km/h (135,191 mi/h) to enter the Guinness World Records. The previous speed record was 166.7 km/h (103.6 mi/h), set in the summer of 2019, also at the Elvington Airfield, using Fastrac One – JCB’s first record-setting tractor.

“BKT’s goal for this world record was to use a tire that already existed in our product range and to apply our know-how to adapt it for the extreme operating conditions confronted by a 5 t tractor producing over 1,000 hp,” stated Dilip Vaidya, BKT president and director of Technology. “This is why we have chosen RIDEMAX IT 696. It is an ideal tire for industrial applications, with a tread pattern that is suited for paved roads. Without changing the tread design, we have focused on the casing structure and its compounds, so that the end product could withstand the enormous stresses imposed by ultra-high speeds achieved by JCB’s record-breaking tractor. Extensive testing and development – in close cooperation with JCB – allowed us to reach an extraordinary technical achievement.”

It is another impressive project, in which BKT’s technical team has been able to master an extreme challenge – that of modifying an agricultural tire to help secure the high-speed Fastrac tractor with a place in the record books.

“We are delighted to have provided such an important contribution to JCB’s success,” added Lucia Salmaso, managing director of BKT Europe. “It is much more than having hit a record... For BKT, this has meant an extraordinary opportunity to test our products and to understand how far we can push. Each and every detail will be the basis for further studies for the purpose of continuously improving both our performance and safety levels.”

Source: Balkrishna Industries Ltd. (BKT)
20 Years of Erkat – 3 Years Under Epiroc, a Success Story!

Erkat is celebrating its 20-year anniversary. Founded as a 2-man operation, the brand is now respected all over the world. Since January 2017, Erkat has been part of the Epiroc portfolio and is a real win for the company with its allrounder drum cutter units. The future looks bright – with constant innovations for even harder tasks, even more specialist applications and even more satisfied customers.

Epiroc – a leading specialist worldwide for sustainable production solutions – was able to expand its Construction Tools division in January 2017 with the incorporation of the company Erkat. A successful brand, whose know-how is still based at its Hämbach site, in Germany, and with a product range including high-quality transverse and longitudinal drum cutters for demolition, trenching, tunnelling and rock excavation, that make the perfect addition to the previous product range of Epiroc.

The takeover has also had positive impacts for Erkat. There is now increased awareness for the innovative products and new customer groups have been added. There are also ideal combination options, for example carrying out the main removal with an Epiroc breaker, followed by polishing with the Erkat cutter unit during tunneling work.

The unbeatable versatility of the ER cutter unit series is apparent at all times: For excavator classes from 0.6 to 125 t, Erkat offers a wide selection of different cutter unit sizes and different cutting heads are also available for the relevant base unit depending on the usage area (rock milling head, profiling head, cutting wheel, mixing head, wood milling head, brush head). Robust design, high resilience, low maintenance, easy handling, e.g. with the QuickSnap lock, and above all impressive efficiency are a matter of course.

The ER series is equally suited for trenching and tunnelling work, special civil engineering, demolition work, for milling ditches and for mixing soil formations. But it can also be used in particularly sensitive areas, as extremely low-vibration and low-noise work is possible. The cutter units can even be used in water depths of up to 30 m with no modifications.

Erkat thus guarantees ideal working conditions at all times in even the most difficult of environments. The advantages are also apparent at the building site at Berlin central station, where the cutter units ER 1500 L and ER 2000 X are currently demonstrating their flexibility during work in difficult to access small “pockets”. They are creating space for the hydraulic Epiroc breaker, which is the only way for the breaker to find the right point for breaking the concrete ground – an ideal division of work. The transverse drum cutters are also delivering an impressive performance during work high up on the bunker ceiling during the selective reverse construction of the high-rise bunker in Hamburg Eimsbüttel. The focus here is on low-vibration work, efficient demolition performance and constant innovations for even harder tasks.

New KOBELCO Excavators are Built to Demolish

KOBELCO Construction Machinery USA is pleased to expand its series of building demolition excavators with the introduction of the new SK400DLC-10 and SK550DLC-10 models. These units are purpose-built to tear down and dismantle multi-story buildings, and are engineered with practical features to increase jobsite productivity and reduce downtime.

With a reach of up to 24.6 m and 27.4 m, the SK400D and SK550D demolition machines can make light work of tall buildings. Both models are available with KOBELCO’s unique 3-piece separate boom demolition front and high reach front. The separate boom boasts a wide working range and simplifies the demolition of lower and underground levels, while the ultra-long attachment enables the SK400D and SK550D to demolish levels up to 9 stories high. Large crusher tools, up to 2.7 t on the ultra-long attachment and 4.8 t on the separate boom, can be added for increased power and efficiency during demolition.

The SK400D and SK550D are equipped with the KOBELCO exclusive NEXT attachment system. Each boom attachment is designed with a block structure that simplifies assembly/disassembly for fast and easy setup and teardown. Side-mounted hydraulic piping can be attached at ground level for ease and safety. The SK400D and SK550D also feature an integrated 2-part counterweight; the first part forms a case in which the second part is housed, providing increased transportation options and quickier assembly/disassembly. Water suppression is standard and is plumbed from the base machine to the end of both the separate boom and high reach fronts.

The KOBELCO demolition machines are built to withstand the rigors of the toughest jobsites. These units feature full track guides to prevent crawler derackaging, even on the roughest ground littered with demolition rubble. Thick upper frame belly guards, a swivel guard, travel motor guard, and cylinder guards provide added reinforcement to ensure durability and protect machine components from debris.

Operators can look forward to staying safe and comfortable in the SK400D and SK550D, regardless of the work at hand. A new standard cab interference prevention system will sound an alarm and prevent the machine from allowing the working tool to come into contact with the cab during operation. A demolition-spec cab with a tilt of up to 30°, stability warning system, rear and right-side cameras, as well as boom, arm and jib holding valves are all standard on the KOBELCO demolition machines to enhance jobsite safety.

Maintenance on the KOBELCO SK400D and SK550D is simple and cost effective. An auto-lubrication system automatically greases the upper body at specific times to reduce maintenance time before operation. Easy access to data from the operation management system (KOMEXS) greatly improves ease of maintenance scheduling and ensures a long service life, while easy access to the cooling unit, engine compartment, electrical components, DEF and fuel refilling areas ensure convenient day-to-day maintenance. Cab guards on the top and front windows also open for easy cleaning.
quick tool replacement as quality features.

In future, the focus will be on constant further developments for the increasing requirements of markets, companies and people. Epiroc aims to expand the leading position of the Erkat products even further, to minimize the fine dust pollution at construction sites with more efficient water spraying and to significantly increase the product range. Reinforced cutter units for demolition and tunnel construction, specially developed rotator systems, cutting wheels for mounting on existing transverse drum cutters, brush heads with and without dry aspiration and much more are already available. The focus is mainly on sustainable work areas such as the renovation market, explosive-free reverse construction in inner city areas or the removal of contaminated surfaces. Whatever the future holds, innovation will still take place at the Hämbach site.

Source: Epiroc

KINSHOFER recently added the new KFX-Series hydraulic breaker excavator attachments to its already extensive product line. The manufacturer announced the breaker series with the acquisition of Hammer, an Italy-based manufacturer of demolition, excavation, recycling and material handling attachments. The new series offers features that improve operator comfort and safety, reduce wear and improve productivity and longevity.

The 14 models in the KFX-Series offer operators a wide range of weight and power options. This makes it easy to find a breaker that fits individual needs in road work, demolition, recycling, tunneling and underwater applications. The smallest model in the series, the KFX 14 – designed for excavators weighing 8 - 15 t – produces 2,000 joules and 600-900 blows/min. At the upper end of the series, the KFX 200 – for 100 - 200 t machines – produces 35,000 joules and 150-250 blows/min.

The KFX-Series breakers include an au-tolube system that allows direct greasing of the lower bushing and spacer, thereby improving the longevity of retainer pins and bushings and reducing the need for manual greasing. This option also enables operators to control greasing from the cab or automatically through movement of the hammer.

Source: KINSHOFER

KOBELCO Construction Machinery USA offers industry-leading crawler excavators in the 1.3 t to 84 t classes including zero tail swing, compact, standard, long reach, high and wide undercarriages, mass excavation, auto recycling and demolition models. Well-known as the excavator authority, KOBELCO is committed to producing quality machines with advanced productivity-boosting features and innovative technologies. With premier capabilities such as no time limit power boost and exclusive independent travel, KOBELCO machines ensure superior performance and efficiency for the toughest

Source: KOBELCO Construction Machinery USA
The building of the Calgary Cancer Centre is not only the largest construction project currently being carried out in Alberta, it is also the largest construction project PERI has ever taken on with regard to the volume of material on site. The use of 14 different PERI system solutions has made it possible to realize the complex design of the center in an efficient manner.

By order of the government of Alberta, a hospital, a day care center and a state-of-the-art research laboratory are being constructed on an area covering a total of 185,000 m². The aim is to offer patients groundbreaking cancer treatment and patient and family-centered care at the premises of the Foothills Medical Centre when the facility opens in 2023. This vision is symbolised by the highly unusual shape of the building: A child and an adult embracing each other and breathing as one. Once the project is complete, which is scheduled for November 2022, the building will consist of 18 storys, 5 of them below ground level and 13 above ground.

Engineers from PERI developed plans to combine 14 different system solutions which have been tailored to meet on-site requirements. In addition to the most complex SKYTABLE structure ever executed and a state-of-the-art VARIOKIT VRB solution, a total of more than 15,000 m² of slab formwork, 4,000 m² of wall formwork, extensive scaffolding material and more than 12,000 MULTIPROP and 9,000 PEP props will be used over the course of the project. In a world first, TRIO TRS 120 columns will be used on the construction site. These columns will be used alongside the TRS 90 columns, enabling the construction company to meet column size requirements.

The first stage of the build, which was completed in June 2019, comprised the construction of the 5-story underground garage, which covers a total area of around 100,000 m² and consists of a total concrete volume of 68,000 m³. The characteristic feature of the parking area is its complex structure with story heights that range from 3.5 m to 7 m. The PERI engineers used SKYDECK slab formwork to achieve this. The lightweight components allowed the site personnel to conserve energy during the construction process. At the same time, it was possible to keep shuttering times to a minimum. The drophead system facilitated early striking, meaning that elements could be removed after a comparatively short period of time and reused for other concreting sections.

For the above-ground section of the building, over 400 assembly and overview drawings have been produced in collaboration with the client in order to develop the most complex SKYTABLE project structure ever implemented: A total of 247 slab tables consisting of 218 different designs are being used for the Calgary Cancer Centre.
Centre construction project. On account of the limited assembly space on site, these are being pre-assembled and delivered just-in-time. They will then be connected to the preassembled girders on site.

Just like the planning phase, the design of the VRB solutions is one of the many challenges posed by this project. A total of 36 22 m-long VRB girders will be assembled to form 18 truss girder packages with platform units. The cantilever begins on level 4 and extends from the building by around 9 m to enable casting of the slab above. By carrying out structural calculations, it is possible to prevent system overload caused by tensile, compressive and bending forces, meaning that another challenge could be successfully overcome.

The planning phase of this enormous project was time-consuming. For about a year, PERI engineers worked meticulously to establish the optimum approach to coordination, implementation and logistics to maximize the efficiency of the construction site procedures. With the aid of BIM (Building Information Modelling), a 3D model was created. In this way, the individual assembly steps, particularly with regard to the VRB solution, can be presented to the construction workers in a visual and comprehensible manner. It is also possible to use the 3D model to calculate the optimal area covered by the VRB truss girder packages during disassembly at the constricted construction site. The team can also make use of the 4D timetable, an additional tool that provides support with sequence planning at the construction site and clarifies the assembly and disassembly processes for the VRB truss girder packages.

Source: PERI GmbH
Gradall’s new XL 4100 V hydraulic excavators are equipped with a single Volvo Penta diesel engine, meeting the highest global standards including the demanding EU Stage IV and EPA Tier 4 final emission requirements.

The 7.7 l 248-hp engine improves fuel efficiency by up to 5%, providing power to drive the 6x4 or 6x6 models from job to job and back to the equipment yard at speeds up to 97 km/h. In addition, the same engine repositions the machine from the upperstructure cab at speeds up to 8 km/h, and powers the versatile Gradall boom movements.

An advanced pressure-compensating, load-sensing hydraulic system has relief valves on all circuits, delivering the right amount of power to the boom. Without the need for selecting work modes, the system efficiently performs excavator digging, demolition and barrier placement as well as sloping, finishing, storm and canal cleanup, tree trimming and other jobs with cycle times and boom-end power comparable to conventional excavators.

Complementing the mobility advantage is the Gradall AutoDrive™ package that includes a push-button automatic transmission – standard equipment that makes travel easier on city streets, interstate highways or on off-the-grid roads.

XL 4100V models feature telescoping, full-tilting booms that can be equipped with a host of attachments, enabling Gradall excavators to handle the work of many different machines. Because the full boom tilts, rather than simply slanting attachments with a boom-end mechanism, there is no loss of working power.

The low working profile of the boom also allows it to work in tunnels, under bridges and beneath other overhead obstructions and utilities – jobsites where conventional knuckle boom excavators simply will not fit.

Source: Gradall Industries
Deere Releases New Grade Control Level Best® Box Blades

John Deere is pleased to add 3 new models to its referral attachments line from the leading manufacturer of grading attachments, Level Best®. The new grade control-ready Level Best Dual Mast PD Series box blades will improve productivity on John Deere skid steers and compact track loaders.

Level Best box blades are available in Topcon ready 2D precision grading and 3D precision grading options. The 2D Level Best PD Series comes ready to produce precise 2D grading by working seamlessly with laser transmitters. The 2D system automatically adjusts the elevation by controlling the lift and tilt of the attachment to maintain vertical accuracy and smooth grading performance. The Level Best PD Series Grading Box System adjusts dozens of times per second to ensure a smooth grade with tight tolerances – ideal for precision grading.

Level Best designed the PD Series to take advantage of the push-pull directional work style of skid steer loaders for maximum production.

For jobs that demand 3D grading, Level Best grading boxes come ready to be used with Topcon GPS, robotic total stations or sonic technology. The grading box comes installed with the cables needed to work with Topcon 3D GPS. This allows customers to use the Topcon GPS systems they currently use on other machines. The main components can be installed on the grading box for a plug-and-play solution.

The 3 box blade models offer customers a range of capabilities based on their needs. With a box width ranging from 183 cm to 244 cm. The PD-72, PD-84 and PD-96 require machines equipped with half-inch quick-connect couplers and a 14-pin auxiliary electrical connector with live power. Rear counterweight is not required to use these models, but will improve stability during use.

Source: Deere & Company
Morbark, LLC, debuted the Rayco 1800AWL articulated wheel loader at the TCI Expo held in Pittsburgh, Pennsylvania last November. The company also offered a sneak peek at additional equipment within the Morbark and Rayco brands that would be in production within the first 6 months of 2020.

Designed to meet the material handling needs of landscape contractors, tree services, rental companies, municipalities, and agricultural businesses, the 1800AWL is the first model of a new AWL line, and is heavy on capabilities and light on delicate landscape surfaces such as grass, building foundations and paving stones. With a standard mini skid steer attachment plate, this articulated wheel loader can accommodate a wide variety of attachments. The quick-attach system enables the user to quickly and easily switch from a bucket to forks or other tools for optimum on-the-job flexibility and bottom-line performance.

The telescoping boom provides excellent dumping and lifting height, enabling loading on high-sided trucks and other applications that require extended reach. The 1800AWL has a maximum lift height (measured at the hinge pin) of 289 cm. With its 24.8 hp Kubota D1105 diesel engine, the 1800AWL generates a working lift capacity of 816.5 kg.

The small footprint (the 1800AWL is only 128 cm wide) and articulated loader design give operators the agility they need to maneuver in close quarters, such as small yards or narrow pathways, while the turf tires provide minimal turf disruption when making turns.

Built with operator comfort and safety in mind, the 1800AWL has a low-profile suspension seat in the ROPS/FOPS-certified cab. The open-cab design provides a clear view of the worksite in all directions, and easy-to-use controls make these machines simple for anyone to operate.

Source: Morbark, LLC
Scania and Navistar Explore Cooperation to Supply Vehicles and Services to the Canadian Mining Sector

Scania and Navistar intend to study a mutually beneficial relationship to cooperate in providing vehicles and services for mining operations in the Canadian market. The parties plan to bring a limited number of Scania heavy duty off-road trucks for trials by selected operators in late 2020.

The cooperation entails using Scania’s deep knowledge of mining vehicles, consulting services and lean operational support in combination with Navistar’s dealer network, after sales and service capability. The aim is to provide world-class customer support to global customers in the mining sector and trucks for heavy haul, general goods transport, fuel delivery, water delivery and personnel transportation.

Scania has a proven track record of providing high performance products and service solutions for mining operations. More than 10,000 Scania heavy-duty trucks are in service in mining operations, for instance in South America and Asia.

“Our trucks and services together with Navistar’s well-established international truck sales and service network have the potential to also make our cooperation a win-win for Canadian mining operators,” says Alexander Vlaskamp, senior vice president and head of trucks at Scania.

“Demand from the mining market is changing,” said Persio Lisboa, executive vice president and COO at Navistar. “Companies are exploring more sustainable solutions that improve worksite flexibility, increase uptime and reduce total operating costs. Working with Scania as a partner will help us rapidly achieve scale in addressing this unique market segment with comprehensive and powerful solutions.”

Both parties will seek regulatory approval through the appropriate agencies in Canada to deliver the Scania trucks.

The cooperation will builds on the existing fruitful strategic alliance between TRATON SE and Navistar, which was initiated in 2016 and has been gradually developed since then.

Source: Scania

Freightliner Configurator Tool Helps Medium-Duty Customers Spec Trucks Online

Daimler Trucks North America LLC has made specifying the Freightliner M2 106 medium-duty truck even easier with a new online configurator tool available at Freightliner.com.

“The M2 106 is an extremely versatile vehicle, offering numerous options to meet the unique needs of our vocational customers and their businesses, which is one of the reasons why it’s the class 6 market leader,” said Mike McHorse, director of channel marketing for Freightliner. “Our new configurator provides an in-depth digital experience that will help customers learn about all of our different options so they can consider which specs are best suited for their specific application.”

The configurator tool uses an intuitive, step-by-step program that includes an array of available choices for dump, box van, utility and tow applications, with more options to be added in the future. Users can explore the vehicle inside and out, and select everything from interior seating options and upholstery to grille style and mirror options.

The configurator enables users to review powertrain options such as the Detroit DD5 and DD8 engines, which boast industry-leading innovation and best-in-class maintenance intervals. Both engines also come standard with Detroit Connect Virtual Technician remote diagnostic service.

Customers can also use the configurator tool to review safety options, such as the WABCO OnGuardACTIVE collision mitigation system or Bendix AutoVue lane departure warning system.

The easy-to-upfit M2 106 supports a wide range of bodies and chassis-mounted equipment and is designed for maximum reliability and uptime. Customers can also use the configurator tool to spec the industry-leading Freightliner Cascadia.

Source: Daimler Trucks North America LLC
Webasto Announces Modular Battery System, Thermal Management and Charging Solutions

Webasto continues to stake a claim in the rapidly expanding e-mobility segment of the commercial vehicle and automotive marketplace. The company exhibited elements of a new modular battery system, thermal management and charging solutions in Ford’s booth at the 2019 SEMA Show, held November 3-6 in Las Vegas. Webasto won Ford’s 2019 Best of Show Stand Award for Outstanding Achievement in Design for Mustang Lithium, a one-off battery electric prototype with 1,000 lb ft of torque and over 900 hp.

The Webasto CV Standard Battery System is designed for total scalability and configuration flexibility. Each battery pack has 35 kWh of energy and up to 10 packs can be used for a combined 350 kWh. With 400 V and 800 V versions available, the system can be easily configured via the vehicle interface box, which is the master battery management system and power distribution unit. It is truly a plug-and-play system that reduces development time and cost for the vehicle manufacturer.

Within the battery pack, the self-contained modules also include desiccant cartridges that reduce condensation, integrated thermal runaway detection sensors and state-of-the-art pressure equalization monitors for added safety. Their compact, energy-dense format makes the battery packs easy for engineers to configure for use on virtually any vehicle platform.

Using the Mustang Lithium to show their capabilities of both designing custom energy storage solutions and supplying off-the-shelf standard battery packs, Webasto set the stage for the revelation that its commercial vehicle CV Standard Battery System is available in North America. With this modular battery system, Webasto meets the requirements of several commercial vehicle manufacturers to have a cost-efficient solution even for small quantities.


Through Curves and Tunnels LASO Transportes Relies on Goldhofer’s THP/SL

When the Portuguese special transport company LASO Transportes SA was awarded the contract to transport a 70 m long metal component weighing almost 300 t from Vale de Cambra to the port of Leça da Palmeira, one thing was quickly clear: it would only be possible with the THP/SL heavy-duty modules by Goldhofer.

A distance of just about 60 km by car separates the small town of Vale di Cambra and Leça da Palmeira. Considering the route conditions, a driver would be at the port in just over an hour. The heavy transport of a power plant component weighing almost 300 t over this distance, on the other hand, presents far greater challenges. Not only do narrow curves, crossings, and roundabouts have to be driven through, but also bridges and tunnels with weight and height limits.

To ensure that the huge component (70 m x 5.6 m x 5.3 m) could be delivered to the port without any major detours, the transport solution had to offer maximum flexibility as well as the lowest possible dead weight and minimum overall construction height of the loading deck. LASO’s transport experts therefore used 2 6-axle THP/SL heavy-duty modules. Thanks to their high bending moment and many possible variations, these were best suited for transporting the heavy metal colossus smoothly to its destination.

Engineers had already prepared road studies accurate to the millimeter in advance so that an optimum route could be planned without gaps. This made it possible not only to prepare individual

The major goals of cities and communities include modern environmental services with minimum emissions. That is why electric drives, among other things, are currently in particular demand. IFAT 2020 in Munich, Germany, will present both established solutions and new developments.

Less air pollution, fewer greenhouse gases, less noise – these are some of the wishes people have for modern urban life. “Many municipalities have therefore been gradually switching their vehicle fleets to alternative, low-emission drives for several years now,” said Frank Diedrich, director of the European manufacturer association EuNited Municipal Equipment. “In waste collection, electric vehicles are now completely suitable for everyday use — and are already being used in many municipalities, especially in Switzerland,” reports Bernd Sackmann, managing director of the German Municipal Vehicles and Equipment Industry Association (VAK).

Every 2 years, IFAT presents solutions for water, sewage, waste and raw materials management as well as solutions to make maximum use of resources and to close raw material cycles. The 2018 edition attracted 3,305 exhibitors from 58 countries and 142,472 trade visitors from 162 nations. The event occupied a completely booked space of 260,000 m², divided among 18 halls and an outdoor area. The next IFAT will be held at the exhibition center in Munich May 4 - 8, 2020.

Source: Messe München GmbH

Volvo Trucks recently announced the start of sales of its Volvo FL and Volvo FE electric trucks in selected markets within Europe, meeting the increasing demand for sustainable transport solutions in city environments.

In the absence of exhaust emissions and with reduced noise levels, electric trucks offer huge potential in urban areas. First, the reduced noise levels make it possible to carry out deliveries and refuse collection in early mornings, late evenings or even at night, helping to improve transport logistics and reduce congestion during peak hours. Second, with better air quality and less noise, electric trucks create new opportunities for city planning and road infrastructure. An electric truck can, for example be used in indoor loading areas and environmental zones.

One challenge is to maximize the payload at the same time as optimizing the driving range.

Volvo FL Electric and Volvo FE Electric were developed in close collaboration with selected customers operating in Gothenburg, Sweden. Feedback has been very positive, and the drivers involved in the collaboration are particularly impressed by the responsive driveline, seamless acceleration and how quiet the trucks are.

Addressing climate change will require the availability of several driveline technologies.

Source: Volvo Trucks

Volvo Trucks Launches Sales of Electric Trucks for Urban Transport

Municipalities Increasingly Rely on Electric Drive Vehicles

road sections in good time for the nightly transport — for example, by removing traffic lights — but also to implement escort convoys and police barriers on schedule. The result of precise organization and ideal transport solutions: Within 2 nights, the power plant component was on time for further shipment at the pier.

LASO Transportes SA, which specializes in the transport of special, heavy and normal goods, was founded in 2007. With approximately 1,000 highly qualified employees and a versatile fleet of almost 1,800 vehicles, LASO offers a wide range of solutions for special transports. The company, which has a broad network in Portugal, Spain, Mozambique, Morocco, Senegal, and the Netherlands, has recently underlined its growth strategy by establishing further branches in Germany and Italy.

Source: Goldhofer Aktiengesellschaft

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Source: Goldhofer Aktiengesellschaft

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Source: Goldhofer Aktiengesellschaft
Toyota and Fenix Demonstrate First Hydrogen Fuel Cell Electric UTR

Toyota and Fenix Marine Services announced the very first Hydrogen Fuel Cell Electric UTR (Utility Tractor Rig) in conjunction with the 43rd Fuel Cell Seminar and Energy Exposition, held in Long Beach, California, last November.

The UTR prototype, known as “UNO,” made its first productive moves around the Fenix container terminal in October, but the formal announcement was made before a crowd of leading officials, operators, industry experts and supply chain innovators.

The UNO was imagined and developed by Toyota engineers and deployed at the Fenix terminal as a test of how zero-emission container handling equipment could operate in a real-world, marine terminal environment.

Fenix’s terminal in the Port of LA, handles over 1 million containers per year. The deployment of the UNO will help to meet its ongoing commitment to the port’s clean air goals.

The San Pedro Bay Clean Air Action Plan (CAAP) passed in 2008 and updated most recently in 2018, focuses on the increased use of near-zero and zero-emission container handling equipment by 2030 in order to meet, and exceed, statewide air emission goals.

The UNO is powered by the same modular fuel cell foundation as Toyota’s Mirai electric passenger cars and Project PORTAL electric semi-truck prototypes. The hydrogen fuel provides quicker refueling time than battery-electric options. The first UNO test cycle at Fenix ran for 2.5 hours per trial on the rail and consumed one fill of its 2 hydrogen tanks. Additional tanks can be added for the desired range and can be filled in around 3 minutes, allowing much quicker options to get back on the road than battery.

Source: Toyota Motor Sales, U.S.A., Inc.

Plug-in, Hybrid Electric Street Sweeper Helps Municipalities Reduce Greenhouse Gas Emissions

Elgin Sweeper Company has initiated customer evaluations of a plug-in, hybrid electric version of its popular Broom Bear mechanical sweeper. The hybrid Broom Bear is another example of Elgin Sweeper’s ongoing commitment to help municipal customers reduce their carbon footprint, improve air quality, and mitigate climate change.

“Street sweepers have always been essential tools for improving water and air quality, and Elgin Sweeper has been committed to working with cities and municipalities across North America to make a positive impact on public health and the environment, while also offering competitive value to taxpayers,” said Mike Higgins, vice president and general manager of Elgin Sweeper. “We are pleased to team up with forward-thinking municipalities to help them accomplish their mission of sustainability by advancing the type of innovative sweeping technology found in the hybrid Broom Bear sweeper.”

The hybrid Broom Bear uses a high-capacity battery to power the sweeper. The battery can be recharged while driving or when plugged into an electrical outlet.

Designed to tackle everything from heavy-duty debris, such as millings or gravel, to light street maintenance, the hybrid sweeper’s performance, speeds, capacity, and its availability to work all day remains unchanged from the standard Broom Bear sweeper.

The sweeper’s short wheelbase, large brooms, and dual mode air suspension system is ideal for sweeping in densely populated areas. Its large hopper and water tank results in more productive sweeping time and fewer scheduled stops.

The plug-in, hybrid electric Broom Bear sweeper consumes dramatically less fuel relative to the baseline Broom Bear, while maintaining overall performance. The hybrid sweeper’s low noise level is an added benefit for the operator, and especially for residents living in areas where sweepers routinely operate.

“We could not have developed the hybrid Broom Bear sweeper without Elgin Sweeper’s innovation process that has sparked the launch of several new sweepers in recent years,” said Ron Schmidt, chief technology officer for Elgin Sweeper.

“The hybrid Broom Bear sweeper required
Cummins Inc. unveiled its latest innovation, a heavy-duty truck with fuel cell and battery electric power at the 2019 North American Commercial Vehicle Show, held in Atlanta, Georgia, last October. Cummins’ strategy is to provide its customers with a broad portfolio of power options, from diesel and natural gas, hybrids, to battery electric and hydrogen fuel cell solutions.

“Developing this cutting-edge hydrogen fuel cell truck as a technology demonstrator is an important step in gaining valuable insights that are critical to continue developing the right solutions for the market and preparing for the next 100 years. Some companies make headlines talking about the future, but we’re busy building for the future,” said Thad Ewald, vice president, Corporate Strategy at Cummins and leader of the company’s Electrified Power segment. “In the long-run, the customers we serve will likely need more than one type of power, depending on their specific markets, applications and use cases. We are uniquely positioned to help our customers select the right solution for their needs. Our deep technological expertise and global service and support network means we are able to help them transition from one technology to another at the time that's best for their business.”

The zero-emission class 8, 6x4 day cab tractor is a technology demonstrator suitable for vocational applications, including regional haul, urban delivery operations, port drayage and terminal container handling.

The truck was designed and integrated by Cummins in Columbus, Indiana and includes a proton exchange membrane (PEM) fuel cell from Hydrogenics, a recent addition to Cummins. The truck was designed for a 90 kW fuel cell and is scalable in 30 kW or 45 kW increments up to 180 kW and has a 100 kWh lithium-ion battery capacity. The truck has a range of 240 to 400 km between filling up, however, that range can be extended with additional hydrogen tanks, by increasing the tank storage pressure, or by installing additional fuel cells to optimize management of the vehicle load factor. Many of the critical components of the powertrain including the PEM fuel cell, system controller, powertrain controls, wire harnesses and junction boxes, among others, were designed and developed by Cummins.

To help all original equipment manufacturing (OEM) customers and end user envision how Cummins’ fuel cell power can enable their success, the truck has been intentionally designed without collaboration from any of the company’s OEM partners.

Cummins has made several recent announcements around fuel cells like the acquisition of Hydrogenics, a memo of understanding with Hyundai Motor Company to collaborate on hydrogen fuel cell technology across commercial markets in North America and an investment in Loop Energy, a fuel cell electric range extender provider.

Source: Cummins Inc.

a significant investment in research and development, including customer needs assessment through product testing and validation.”

Mr. Schmidt added that the objective of the hybrid Broom Bear development is to assist cities with their sustainability initiatives. “Elgin Sweeper’s team especially recognizes the City of Los Angeles and its team of street maintenance and fleet maintenance professionals for their insight and feedback, and for access to the city’s streets and personnel during the product concept and development process,” he said.

Elgin Sweeper is a subsidiary of Federal Signal Corporation’s Environmental Solutions Group.

Source: Federal Signal Corporation

Source: Federal Signal Corporation
Appointments

Ray O’Connor, president and CEO of Topcon Positioning Group was formally inducted into membership of the National Academy of Construction (NAC) at its annual meeting in Nashville, Tennessee, on October 24, 2019.

The mission of the NAC is to recognize and honor individuals for their distinguished contributions to the industry and to share this reservoir of expertise as a service to the nation. Membership is by nomination from an existing member, then a rigorous examination by the NAC membership committee before being sent for approval by a vote of all members. Mr. O’Connor was nominated by Greg Bentley, CEO of Bentley Systems, Inc., a global leader in the development of infrastructure engineering software.

Ray O’Connor joined Topcon Corporation in 1993, in charge of developing the construction laser business in North America. Now, he heads the Topcon Positioning Group with global employment in excess of 2,000. He also serves on the board of directors of the Association of Equipment Manufacturers and is a trustee on the University of California Merced Foundation.

The membership of NAC represents the entire array of construction industry stakeholders – owners, designers, construction managers, general and specialty contractors, attorneys, financial managers, labor leaders, suppliers, academicians and researchers, journalists and editors, and professional and trade association executives.

Source: Topcon Positioning Group

Association of Equipment Manufacturers’ (AEM) Exhibitor Engagement Department has won the The International Association of Exhibitions and Events (IAEE) Outstanding Marketing & Sales Award for 2019. The award recognizes outstanding achievement in marketing and sales activities outstanding performances in total event revenue, advertising revenue, attendance and more.

As part of AEM’s 2017 strategic plan, the department was created as a standalone area focused on exhibitor value and has already seen great success. Some of the statistics that helped AEM win this award include the seven percent increase in pre-show satisfaction, 95% of calls being answered in 2 minutes or less and a 90% satisfaction score from exhibitors at AEM shows and events.

The department consists of 4 employees dedicated to providing exhibitors with resources to navigate all the tools and information to achieve optimal value out of their trade shows.

“The department strives to not only excel in customer service efforts but to provide tangible tools and data that enable our members and exhibitors to measure and manage their ROI results,” said AEM senior vice president Megan Tanel.

Award recipients were honored at the IAEE’s Annual Meeting & Exhibition held December 3 - 5, 2019 at Mandalay Bay Resort and Casino in Las Vegas, Nevada.

Source: Association of Equipment Manufacturers:
The contractors behind some of British Columbia’s most important transportation and infrastructure projects in 2019 were recognized at the B.C. Highways Contractor Awards luncheon at the Victoria Conference Centre on December 6, 2019.

The categories for this year’s awards included bridges and structures, grading, paving, road and bridge maintenance, and community service.

BRIDGES AND STRUCTURES
The award of excellence for bridges and structures in 2019 went to Formula Contractors Ltd. for replacing the Bowlder Creek culvert on Highway 97 near Chetwynd with a 30.5 m, 2-lane bridge and new highway approaches. The project also included stream channel stabilization work and environmental management. When the fish salvage was delayed, Formula Contractors worked extra hours to complete the under-span riprap to keep the girder delivery and placement on schedule.

Working with the Moberly Lake Band as environmental observers, Formula Contractors and its partners completed this project on time and under budget.

GRADING
MacKay Contracting Ltd. was presented the top award for grading for the Highway 1 Donald to Forde Station Road 4-laning project near Golden. Work included widening 2.5 km of Highway 1 to 4 lanes and improving access to the commercial vehicle safety enforcement inspection station. They exhibited excellent traffic management, adjusting well to changing conditions throughout the project, which was completed on time, without incidents and minimal traffic disruptions to this busy corridor.

PAVING
The top honor for paving went to BA Blacktop Ltd. for its work on the Highway 11 Harris Road to Mission Bridge resurfacing project near Abbotsford. This corridor sees approximately 43,000 vehicles per day. As the only crossing over the Fraser River within the Fraser Valley, it was critical to complete the project in a timely manner. BA Blacktop came up with a plan to implement crossover paving works that would avoid disruption for daily commuters. It also adjusted its traffic management and detour plans to minimize delays once construction started. The project was completed on budget and ahead of schedule.

ROAD AND BRIDGE MAINTENANCE
The award for road and bridge maintenance went to Yellowhead Road & Bridge (Vanderhoof) Ltd., which is responsible for approximately 1,500 km of roads and 41 bridges across the communities of Vanderhoof, Fort St. James, Fraser Lake, Fort Fraser and Endako. YRB Vanderhoof has shown great pride in the quality of the work it does and is exceptional at maintaining the highways and bridges in its service area, in all weather conditions. YRB Vanderhoof is well known for its positive relationships with the community and for providing support through community engagement and volunteer work.

COMMUNITY SERVICE
Selkirk Paving Ltd. is this year’s winner for its dedication to community service. It donated funds to the Rossland Skatepark, donated time and materials to the Nelson Tennis Club and the Nelson Nordic Ski Club, and donated a pathway to the City of Nelson Hall Street Project in spring 2019. In June, Selkirk Paving contributed to the well-being of its community by engaging families in the “Dig with Dad” event. This free interactive event brought together children, parents and the Selkirk Paving team at the Chakho Mika Mall, allowing children to check out construction equipment while raising over $5,000 for ALS.

Source: Ministry of Transportation and Infrastructure, British Columbia

Pictured is the team from Yellowhead Road & Bridge (Vanderhoof) Ltd., winners of the award for Road and Bridge Maintenance.
Agenda

Landscape Ontario’s Congress
January 7 - 9, 2020
Toronto, ON Canada

The ARA Show
February 9 - 12, 2020
Orlando, FL USA

bautec 2020
February 18 - 21, 2020
Berlin, Germany

The Work Truck Show
March 3 - 6, 2020
Indianapolis, IN USA

CONEXPO-CON/AGG 2020
March 10 - 14, 2020
Las Vegas, NV USA

SaMoTer 2020 31st International Construction Equipment Trade Fair
March 21 - 25, 2020
Verona, Italy

SMOPYC
April 1 - 4, 2020
Zaragoza, Spain

Atlantic Heavy Equipment Show
April 2 - 3, 2020
Moncton NB Canada

2020 North American Snow Conference
April 19 - 22, 2020
Cleveland, OH USA

Hannover Messe
April 20 - 24, 2020
Hannover, Germany

Expo Grands Travaux
May 1 - 2, 2020
Saint-Hyacinthe, QC Canada

CIM 2020 Convention
May 3 - 6, 2020
Vancouver, BC Canada

IFAT 2020
May 4 - 8, 2020
Munich, Germany

WasteExpo 2020
May 5 - 7, 2020
New Orleans, LA, USA

AORS Municipal Public Works Trade Show
June 3 - 4, 2020
Barrie, ON Canada

5th International Rental Exhibition (IRE) / APEX access show
June 9 - 11, 2020
Maastricht, the Netherlands

steinexpo
August 26 - 29, 2020
Homberg/Nieder-Ofleiden, Germany

Intemat ASEAN
September 5 - 7, 2020
Bangkok, Thailand

InnoTrans 2020
September 22 - 25, 2020
Berlin, Germany

MINExpo 2020
September 28 - 30, 2020
Las Vegas, NV USA

Intemat INDIA
October 14 - 16, 2020
Mumbai, India

bauma CHINA
November 24 - 27, 2020
Shanghai, China

inter airport south east asia
February 24 - 26, 2021
Singapore
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