

PROFESSIONAL p d d a DEMOLITION AMERICAS

Your Gateway to North, Central and South America

Volume 5 • Issue 4 • 2018

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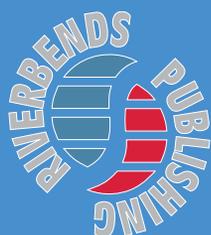
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The Beginning of the End?

Observers of the construction industry have speculated for some time just how much longer the post-recession US economic boom can continue. Of course, nobody wishes for an end to a market that has kept contractors of all types and sizes busy for nearly a decade.

But sooner or later, what goes around comes back around. And most observers agree the rebound born in late 2009 is getting rather long in the tooth. Since the end of World War II, the average economic cycle has lasted just under five years, according to the National Bureau of Economic Research.

Less certain, though is what lies ahead. At this point, literally anything can happen, from a gradual cooling that lasts a relatively short time, or a more prolonged and deeper decline that will require some kind of government intervention to reverse.

Few expect a full repeat of the 2008-09 recession, given the multiple influences that caused the financial crisis to begin with. (Who remembers subprime mortgages?) The recession of the early 2000s followed 10 years of sustained economic growth—the longest in the nation's history. But that dip was likewise abetted by the bursting of the dot-com bubble, and further shaken by the 9/11 attacks.

Indeed, review recessions going back to the Great Depression of the 1930s (Wikipedia, of course, has a list), each downturn usually has one or more events that tips an already wobbly balance, and exacerbates the effects.

Which brings us back to early 2019, and this article's title question.

The topic du jour, at least as of this writing, is the ongoing trade and tariff dispute with China and other countries, which is already affecting the cost and availability of steel and other key commodities. Economists also worry about the past decade's growth in corporate debt, as well as

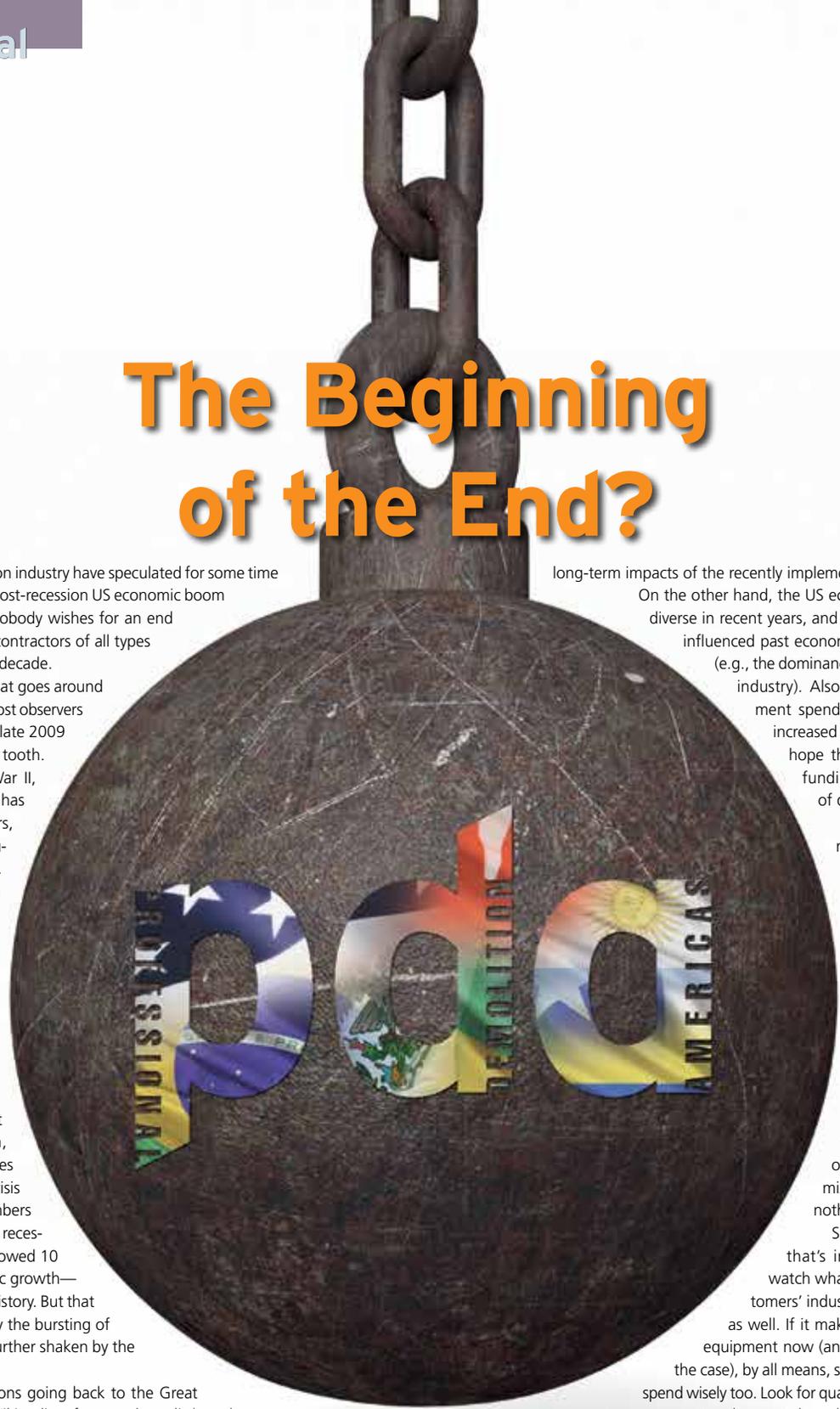
long-term impacts of the recently implemented tax cuts.

On the other hand, the US economy has become more diverse in recent years, and factors that once strongly influenced past economic cycles no longer apply (e.g., the dominance of agriculture and heavy industry). Also, state and local government spending on infrastructure has increased in recent years, and there's hope that a major infrastructure funding bill may see the light of day in the new Congress.

The bottom line is that nobody can say for sure what's going to happen, or when. (Anyone with such prognosticative prowess is likely working in a different industry.) Most forecasts for 2019 are upbeat, which should mean continued opportunities in construction and demolition. True, a slow-down may not be entirely welcome, but depending on your particular business mix, you may notice little to nothing at all.

So stay focused on the work that's in front of you, but also watch what's happening in your customers' industries, and their customers' as well. If it makes sense to invest in new equipment now (and we certainly hope that's the case), by all means, spend with confidence. But spend wisely too. Look for quality, value, and applicability to your current and expected needs. If the economy is indeed bound for a "soft landing," you want to be in the best position to gently touch down, then quickly rev up again. That is the way cycles work, after all.

Jim Parsons, Senior Editor
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Brokk Hires Southeast Regional Sales Manager

Brokk has hired Ted Graser as its southeast regional sales manager. Graser manages sales for both Brokk robotic demolition machines and the company's Aquajet Systems AB hydrodemolition robots. He provides support to customers throughout Alabama, Georgia, Florida, Tennessee, and the Carolinas.

"Ted's sales and equipment experience are a valuable asset to our team," says Peter Bigwood, Brokk's vice president of sales and marketing. "His knowledge of the southeast region and drive to help service customers gives him valuable insight when it comes to building and maintaining relationships."

Graser joins Brokk with 25 years of construction and industrial equipment sales experience, including managing international territories for Link-Belt Excavators, a U.S.-based heavy construction equipment manufacturer; Time Manufacturing Company, a Texas-based manufacturer of aerial lifts; and Sennebogen, a German material handling equipment manufacturer. Prior to these roles, he served two years in the early 1990s as a Peace Corps volunteer in Uruguay.

"I'm looking forward to helping both new and existing customers solve problems," Graser says. "Our remote-controlled demolition machines offer incomparable savings in terms of productivity, all while keeping operators out of harm's way."

Graser resides in Augusta, Ga., with his wife and son.

www.brokk.com



ASV Announces New Product Line Manager

Buck Storlie has been promoted to product line manager for ASV Holdings Inc., manufacturer of all-purpose and all-season compact track loaders and skid steers. Storlie will be primarily responsible for determining the direction of ASV's lines of compact track loaders and skid-steer loaders. He will also be ASV's leading customer advocate, product and market intelligence expert, and champion of both existing and new product

development and lifecycle. Storlie, a 23-year veteran of ASV, most recently held a position as ASV's testing and reliability leader, where he managed product testing, reliability and field issue resolutions. He focused on ensuring customers receive maximum productivity, durability, ROI and comfort out of their ASV machines.

"I look forward to continuing my product development work in a new role at ASV," Storlie says. "I care deeply about our machines and customers, so I'm thrilled with the opportunity to find new ways to improve our customers' businesses and lives with our equipment."

www.asvi.com

Kubota Names New President & CEO for Kubota Tractor Corporation and Kubota North America

Haruyuki (Harry) Yoshida has been named President and CEO of Kubota Tractor Corporation (KTC) and Kubota North America, effective January 1, 2019. Yoshida is a 37-year Kubota veteran who most recently held the position of managing executive officer of farm and industrial machinery domain, strategy, and operations headquarters in Osaka, Japan. In conjunction with this announcement, current President and CEO Masato Yoshikawa has been promoted to the position of director and senior managing executive officer overseeing planning and control headquarters, and global IT management. Yoshikawa will assume his new role in Osaka, Japan, at the start of the new year.

Yoshikawa has served as KTC President and CEO since late 2013 and has successfully led the company through considerable growth, change and technological advancements during his five-year tenure in the US.



US Construction Dips in October, But Maintains Year-Over-Year Gains

Construction spending inched lower in October from September levels but increased from the October 2017 total, according to an analysis of new US Census data by the Associated General

Local support and Austrian know-how impress with the highest environmental standards



Together with 10 well established dealerships, Tianjin Rubble Master Technology CO., Ltd guarantees rapid local support in China.

Austrian quality combined with competent local support and 24/7 service – these are the factors that Rubble Master focusses on with the highest priority. "Every crusher has to pass through production at RM Headquarters in Upper Austria so that we can ensure our high quality standards are met in full. Our local sales partners follow

Contractors of America. However, investment in public infrastructure posted declines from recent peaks, and association officials urged the White House and Congress to act promptly on comprehensive infrastructure legislation.

"Although most segments of construction continue to post year-over-year spending gains, investment in vitally needed infrastructure has stalled or shrunk in the past four months," says Ken Simonson, AGC's chief economist. "If infrastructure contractors start losing employees to more-active construction segments, it may be hard to get infrastructure projects done on time once funding resumes."

Construction spending totaled US\$1.309 trillion at a seasonally adjusted annual rate in October, a dip of 0.1% from the September rate, but 4.9% higher than in October 2017. Private residential construction fell 0.5% for the month, but increased 1.8% year-over-year. Private nonresidential spending slipped 0.3% from September to October, but increased 6.4% over 12 months. Public construction spending, comprising public buildings and infrastructure, increased 0.8% for the month, and 8.5% for the year. Simonson notes that public spending was boosted by large increases in educational spending and other public building segments, while all public infrastructure categories had declined from recent highs. Seasonally adjusted spending on highway and street construction peaked in August and has dropped 2.1% in the past two months, while public investment in air, rail, and water transportation facilities fell 1.2% between August and October. Outlays for sewage and waste disposal and water supply systems topped out in June and have decreased 2.2% and 8.6%, respectively, since then. Public spending on conservation and development, such as levees and dams, slumped 14.6% from August to October.

up with the same focus and fast regional service", explains Gerald Hanisch, CEO. The RM Team consists of experienced technicians who are available to support customers around the clock. Every member of the team knows why he or she has to do a good job: downtime costs money, an RM machine in action makes money for the customer.

One of the satisfied customers is XY Wu in Bengbu, China. Mr. Wu has owned an RM 120GO! with a mesh screen since the beginning of September and has numerous projects in the province of Anhui, China processing concrete to form high value final aggregate. One of the main criteria for purchasing the RM crusher was compliance with the strict environmental regulations in terms of emissions, dust suppression and noise. These are easily met by RUBBLE MASTER thanks to its drive technology and dust suppression system. In order to enhance the quality of the final aggregate even further, XY Wu added an RM wind sifter to the crusher.

Another important criterion for the buyer was the integrated wind sifter, which was developed especially to separate non-mineral matter from the mineral feed material. This enables an even higher quality final aggregate to be produced and opens up new applications in the recycling sector. As a specialist in materials processing, this solution offers the customer an even more environmentally friendly and efficient system. The fan on the wind sifter can be regulated to ensure that lightweight materials such as styrofoam, textiles and wood, etc. are separated from the feed material. As a result, the final product is cleaner and of even better quality so that a higher market price can be obtained for the recycled material.

www.rubblemaster.com



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Event Calendar

Concrete Show 2019
February 13-15, 2019
São Paulo, Brazil
www.concreteshow.com.br

CSDA Convention & Tech Fair
St. Petersburg, Florida, USA
Venue and dates to be decided
www.csdas.org

Demolition Rockies 2019 US National Demolition Association Convention
March 23-25, 2019
Aurora, Colorado, USA
demolitionassociation.com

Bauma 2019
April 8-14, 2019
Messe München, München, Germany
www.bauma.de

IACDS Convention 2019
April 15, 2019
Messe München, München, Germany
www.iacds.org



Doosan Opens New Parts Distribution Center in Georgia

Doosan announce it is opening a new 100,000 ft² (92,900m²) parts distribution center, serving its dealers and Doosan customers in the US and Canada. Strategically located, the new parts distribution center allows Doosan Infracore North America to provide both dealers and customers with better service options, deeper inventory and faster parts delivery. The parts distribution center is located adjacent to the Doosan Infracore North America headquarters in Suwanee, Ga., situated approximately 30 miles northeast of Atlanta. The facility is designed for Doosan® parts distribution and shipping. The center will stock approximately 40,000 stock keeping units (SKUs) that can be shipped to service Doosan construction equipment throughout North America. The parts distribution center will house a majority of Doosan parts, with only some low-volume parts needing to come from Doosan manufacturing facilities around the globe.

www.doosan.com

Rockster North America Names New National Sales Manager for the USA and Canada



Rockster Recycler has announced that Bill Farrar has joined the company as National Sales Manager for North America and Canada. For demolition and construction related companies a very real concern is how to handle concrete, block, brick, rock, asphalt and other construction waste in a way that is as cost-effective, or better yet, as profitable as possible. Austrian-based Rockster Recycler has been leader in development of advance affordable mobile crushing and recycling solutions.

"I am very excited about this position," says Farrar. "We understand this industry inside and out and I will be making sure each and every client has their needs met by Rockster. I foresee us not just selling to our clients, but expanding our relationships throughout North America."

Originally from Richmond, Va., Farrar studied at both Radford University and Virginia Commonwealth University. He

joins Rockster after eight years of success as Vice President of Sales and Marketing and has been working in the construction and equipment industry since 2005.

The Rockster team has built a deep understanding of client recycling needs and what products they offer that can best meet these appropriately. Their reputation both in Europe and across the Americas is one of providing quality mobile recycling equipment to contractors that gets the job done in a way that's a win-win for all involved.

"We are convinced Bill Farrar is a great fit for our team and his combination of experience, enthusiasm and work ethic is going to really be an asset for Rockster North America," says Rockster CEO Wolfgang Kormann. "We are proud to present our unique technology in the American market with him and our team and expand our dealer network to be closer to the customers."

www.rocksternorthamerica.com

New EPA COE Rule Provides Clarity on Clean Water

A new measure announced today by the US Environmental Protection Agency and the Army Corps of Engineers will provide the kind of clarity needed to ensure that the waters of the U.S. continue to become even cleaner.

The newly proposed clean water rule outlines clear and specific guidelines as to which sites require a federal water permit in addition

to state and local water permits, and what needs to be done to protect federally permitted waters. As a result, the new measure will enable contractors for all types of construction projects, from schools to local roadways and other infrastructure, to understand which permits they need and proceed without substantial regulatory delay and additional cost.

NDA Joins Construction Coalition for a Drug- and Alcohol-Free Workplace

The National Demolition Association (NDA) announced today it has joined the Construction Coalition for a Drug- and Alcohol-Free Workplace, an industry-led initiative formed with the ultimate goal of eliminating substance abuse-related construction jobsite incidents. CCDAFW, which is comprised of leading construction industry trade associations and partners, advocates for effective substance abuse policies and sets best practices for construction-related companies.

"Joining CCDAFW was an obvious choice as we look to expand awareness on workplace safety and the resources we provide our membership and their employees," says NDA President, Scott Knightly. "We look forward to working with the other organizations to promote a drug- and alcohol-free workplace."

Since the coalition was formed in 2012, nearly 6,000 companies have pledged to create and maintain a substance abuse-free workplace. The coalition also provides resources to companies to help implement and strengthen substance abuse policies.

"It is our mission to ensure all construction employees go home in the same – or better – condition than they arrived on the jobsite," says Michael Bellaman, president and chief executive officer of Associated Builders and Contractors, a founding member of the coalition. "To do this, we need a rock-solid culture of world class safety across the construction sector, which includes a workplace environment free of substance abuse."

www.drugfreeconstruction.org

Stanley Black & Decker Buys Genesis, Paladin

New York-based private equity firm KPS Capital Partners LP has signed a deal to sell the attachments division of International Equipment Solutions LLC (IES) to Stanley Black & Decker for US\$690 million. New Britain, Connecticut-based Stanley already owns and markets LaBounty brand attachments. The IES division acquired by Stanley includes the Genesis, Paladin, and Pengo business units, along with all the brands and operations within those units, including Jewell and Sweepster. KPS will retain ownership of IES's heavy equipment cabs and cab enclosures division. The IES brands manufacture attachment tools for off-highway applications, including demolition and scrap recycling. During KPS' ownership, IES Attachments acquired and integrated two additional companies, CWS Industries and Kodiak, and launched Paladin de Brasil in 2013. According to Stanley Black & Decker, approximately 60% of the IES attachments unit's US\$400 million in annual revenue is related to aftermarket applications. Stanley Black & Decker also indicates the acquired brands will be integrated with the Hydraulic Tools business within its Industrial segment.

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100% Volvo

Over the past four years, Volvo Construction Equipment has made a radical change to its demolition machinery segment. The shift began in 2014, when with the launch of Volvo's E-series high-reach excavator models, beginning with the EC380EHR and EC480EHR. Now, Volvo has introduced its latest flagship development, the multi-purpose EC750E HR demolition excavator.

Volvo gathered a small group of trade press journalists particularly focused on demolition equipment at the Volvo EU depot in Groot-Ammers, some 45 minutes from Rotterdam at the end of October. Besides Volvo staff, representatives were on hand from two Volvo clients, Veidekke from Norway and Aanemingsbedrijf Princen from the Netherlands. The event at Grot-Ammers was actually the first time that Volvo has organized a special press event for its demolition equipment.

100% Volvo demolition technique

Peter Lam, the region's excavator product manager for demolition and special application solutions, began the meeting informing the audience that Volvo has fulfilled its dream to create a full lineup of 100% Volvo built high reach demolition excavators. Today, with no involvement from independent specialized demolition excavator design firms, Volvo's new fleet of multi-purpose and high-reach demolition excavators have all been developed and built by Volvo. In early 2000, when Volvo built its first high-reach demolition excavator, it was in cooperation with local specialized design firms. However, this approach was not what its customers wanted; they wanted one partner to provide the complete solution. In 2007, Volvo released its first in-house model, EC700BHR, which has evolved to the D-series. Sales really started to take off



The host for the press meeting, Peter Lam, regional excavator product manager for demolition and special application solutions.



Volvo's range of demolition excavators today.

with the launch of the E-series, which was equipped with a completely new and improved cabin specifically for demolition purposes. At Bauma 2016, Volvo released its new extension boom for the EC480EHR, followed by a similar feature for the EC380EHR. By 2017, the Volvo demolition series had been sold in to more 20 different countries. During this journey of development Volvo has carved out a path in the demolition industry by carefully studying the market. The company has talked to numerous demolition contractors around the world about how they want optimal demolition excavators to look like, and what features they should possess. From this base information, Volvo has built up its new and completely independent strategy for the 100% Volvo built multi-purpose demolition excavators.

"We used to cooperate with design companies specialized in building high-reach and heavy-duty demolition excavators," Lam said, "but we have realized that it is much more important for our end users that we are providing all the knowledge and design ourselves. Now, we have all that knowledge in-house, and together with our clients, we build the machines with no external involvement."

Three dedicated high reach and heavy-duty models

Today Volvo has three purpose-built demolition excavators--EC380E HR and EC480E HR, and the new EC750E HR. The new EC750EHR is, according to Volvo demolition segment manager David Arnoldsson, a unique machine for both high-reach and heavy-duty demolition purposes.

"The machine is based on the E-series generation which we know is a very safe and a solid series to build such a machine on," Arnoldsson said. "It has been sold all over the world and in various conditions and it is also equipped with our new Stage 4 final engine."

The EC750EHR boom reach has been extended to 118 ft (36m) being able to carry a demolition tool of up



A large backpressure valve for fast closure of the attachment.

to 3.6t. Sturdy in design, the boom's sensitive parts are well-protected, with a dust suppression system and with plenty of LED lights for good visibility. Additionally, the boom has a strong linkage making it perfect for carrying very heavy attachments for short rig heavy duty demolition within, for instance, the process industry. The return lines have also been increased in order to make the closing of the attachment faster.

The EC750EHR's counterweight has been improved so the complete weight of the additional- and standard-counterweight can be hydraulically lowered and removed for transport. The machine has a new extension boom for to reach nearly 60 ft (18m) below grade, and 33 ft (10m) for demolition. It can carry attachments up to 8t in this setup. The extension boom can be used both in a straight and bent configuration. The new cab is uniquely built for demolition purposes, and can be tilted up to 30°. It is well protected with a frame mounted falling object

Demolition



A well-built cabin with good visibility.

guard (FOG) with steel grids on the roof and the front screen. The front grid can be easily opened for simple cleaning. The cabin provides excellent visibility, and is further enhanced thanks to two cameras located on the side and rear of the machine, and a further two cameras on the high reach boom. The cabin also has two large monitors that are easy maneuverable, with the operator being able to choose to use all cameras at the same time or just a couple of them. The lower protection plate for the boom, under the machine, has a pattern of holes so the operator can see through it.



The cabin can be tilted up to 30°.



The undercarriage may be extended as much as 11.8 ft (3.6m).



The 100% Volvo beast built for multi-purpose demolition tasks.

The group of journalists with representatives from the Norwegian contractor Veidekke.



The EC750EHR possesses a very steady undercarriage designed for demolition. It is built on an X-shape frame, being the biggest ever built by Volvo, providing a very low center of gravity. The track width in the extended position is 16.5 ft (5.05m) with 2.5 ft (750mm) track shoes. The base machine weight is 83.5t, with the 118 ft (36m) high-reach boom adding another 19.5t. With a 3.6t, the total machine weight is 106.6t. To comply with transportation regulations, the machine can be stripped down to a maximum weight of 29t.

Lam pointed out that EC750EHR is not only an optimal high reach demolition machine.

"This is a multi-purpose demolition machine that can carry out advanced demolition with a heavy tool on a high level, and even heavier tools with a short boom," he said. "The mid-reach boom can carry demolition attachments for heavy duty demolition up to 8 tons, and it has also a digging boom for low level demolition." Boom exchange takes about 40 minutes, with Volvo choosing not to use a quick-connection coupling for the high-pressure hoses for durability and reliability.

www.volvoce.com



Volvo demolition segment manager David Arnoldssohn.

EC750EHR in operation at a site in Norway.





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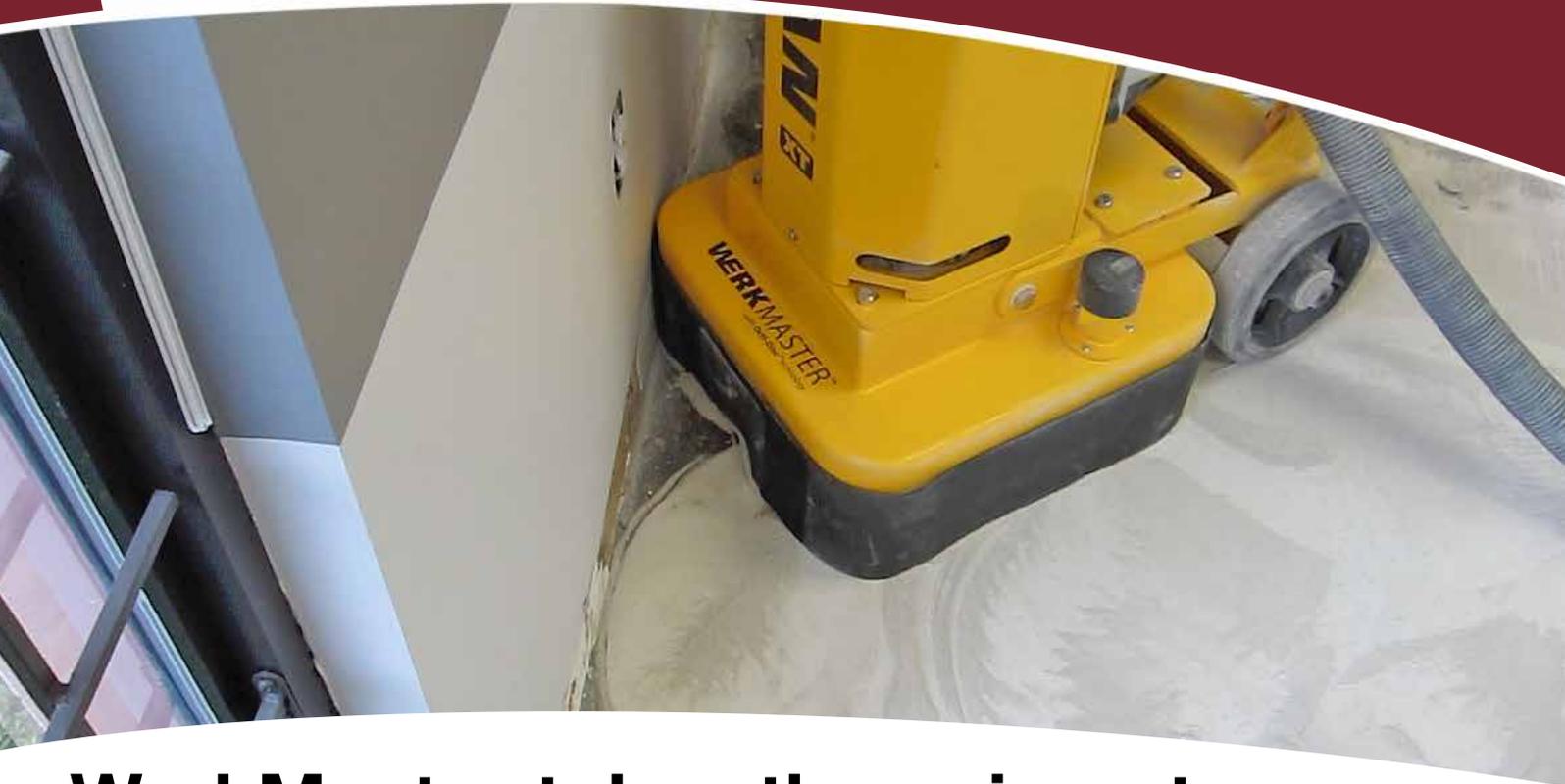


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Conjet's New Interface, Color Display, and Remote Control Box

At the port of Värtahamnen in Stockholm, Sweden, hydrodemolition contractor Waterjet Entreprenad is renovating the quays using the Conjet hydrodemolition robots 367 and 557. The manufacturer Conjet is also taking the opportunity to have Waterjet Entreprenad test its new interface as well as their new remote control box with color display.

The new interface is developed for work at a safe distance. Users operate the robot through the interface on the robot, or on the remote control box. They are identical.

The interface consists of two separate parts, one focused on operation and the other focused on service. The settings are easy to reach with just a push of a button.

The display located on the robot is a 7-in (178mm) color screen with a resolution of 800 x 480 px. One of the most important updates is that you maneuver between controls and options using a rotary encoder. The color display will be available on all of Conjet's 7 series robots.

The remote control box, Conjet Color Display, is equipped with a 4.2-in (109mm) LCD color display with .078-in (2mm) thick, protective Gorilla glass and a resolution of 480 x 272 px. It utilizes the surrounding light to give a sharp and clear image in more difficult environments. The technology is developed to be electricity-saving.

"We have focused on simplicity as well as a steep learning curve during all phases of development. We want anybody to be able to understand how the robot works and how to use it, but without compromising safety," says Conny Tångning, Service Manager at Con-



jet. "A built-in guide shows the user how the robot is controlled and set up so that even inexperienced users can work safely."

With the Conjet Color Display the user is able to steer and control every aspect of hydrodemolition at a safe distance. The operator don't need to be close to the robot during operation. Conjet's new interface, color display and remote control box will be presented at World of Concrete 2019, in booth C4030.

www.conjet.com

ARDCO Introduces AMT Dump Beds for Multi-Purpose Truck

ARDCO announces the launch of its new AMT Dump Beds for the Articulating Multi-Purpose Truck (AMT), offering payloads of 10t to 20t, volume upgrades for lighter materials, and tire options to suit extreme conditions where other articulated dump trucks simply can't perform. For optimal machine versatility, the beds can be added or removed from the modular AMT platform when needing to change the back-end attachment for different jobsite tasks. The AMT 600 dump bed provides a payload of 40,000 lb (18,144kg) and standard dump capacity of 16 yd³ (12.2 m³). Side boards can be added to increase capacity to 24 yd³ (18.3 m³) when handling low-density material. The AMT 400 dump bed has a 20,000-lb (9,072kg) payload and 8-yd³ (6.1 m³) dump capacity that increases to 12.5 yd³ (9.5 m³) with side boards. Both models have a 70-degree dump angle at full



dump height, with an efficient raise time of 12.5 seconds and lower time of 13.2 seconds. Specifically built for off-road travel, the AMT includes a high-strength center pivot trunnion with approximately 20 degrees of oscillation, which allows all the tires to maintain ground contact and traction while driving over rough terrain. The 40-degree approach/departure angle is twice that of most ADTs, giving the AMT superior off-road capability. The truck features hydraulic articulation steering by double hydraulic cylinders, with a brake assist option available. The articulating motion allows the tires to slide left or right to gain traction in wet or muddy conditions. Users can choose from multiple tire options, including terra, construction, tractor, or sand tires.



Astec Mobile Screens Offers Multi-Frequency Technology

The revolutionary multi-frequency technology from Astec Mobile Screens was launched in March of 2017 for the GT205 plant. The multi-frequency technology combines a conventional, two-bearing vibrator, traditionally used on an incline screen with a high-frequency vibrator on the bottom deck. The combination of the two systems creates a screen that operates with a higher G-force. The increased screening energy also enables the multi-frequency screen to process material with higher moisture content. With the success of the GT205 multi-frequency, Astec Mobile Screens has designed and manufactured the same technology on a portable PTSC205 plant and GT145 track screen. Astec Mobile Screens will now offer multi-frequency technology for all of its 5-ft (1.5m) wide, two-deck screens. "Our customers have seen tremendous improvements in their operations by using the multi-frequency screen in the GT205," says Patrick Reaver, inside sales director at Astec Mobile Screens. "We're really excited to bring this technology to more people by expanding into our direct feed and portable mounted screens."

www.kpijci.com



Antraquip Hydraulic Rock and Concrete Grinders

Antraquip's rock and concrete grinders are suitable for trenching, controlled demolition, scaling, soil remediation, tunneling, underwater cutting, and general rock excavation. Antraquip grinders are available in a variety of models for excavators ranging from 1t to 110t, with a choice of cutter head styles to suit the application at hand. The AQ line is equipped with a high-torque, low-speed hydraulic motor with rugged gearing and symmetrically aligned cutter bit patterns for maximum productivity.

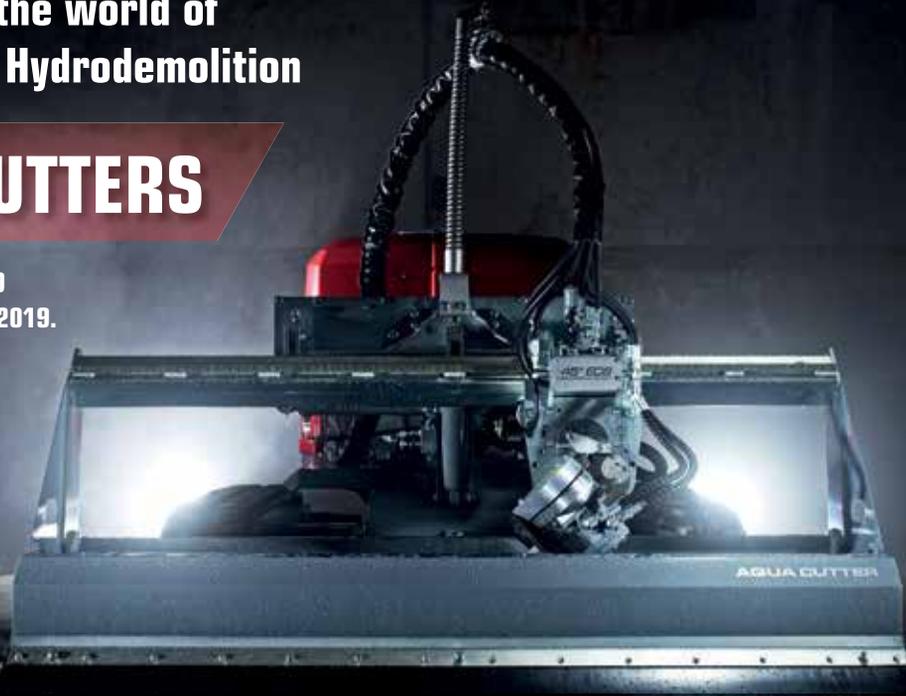
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Aquajet Systems Debuts Ergo System at WOC 2019

Aquajet Systems will launch the Ergo System in the US at World of Concrete 2019. The robot offers four times the power of a hand lance in a compact footprint that contractors can easily move around the jobsite. It is ideal for work on floors, walls and ceilings.

The Ergo System incorporates: the controller unit, which powers and controls the hydraulics, the Ergo Power Head, which manipulates the high-pressure lance, and either the spine or the climber, unique systems used to support and maneuver the power head, based on project needs. The climber attaches to any standard scaffolding pipes and robotically moves along it to deliver powerful hydrodemolition forces for vertical concrete removal and repair, such as high-rise construction.

The system exerts an impressive 225 lb (1,000N) of reaction force, which is about half of the force employed by Aquajet's largest hydrodemolition robot, the Aqua Cutter 710V. The robot can handle higher volumes of water, as much as four times greater reaction force than a human operator with a hand lance. This means the machine can remove concrete faster and easier.

Hydrodemolition robots, such as the Ergo System, remove concrete to a preset depth consistently. Alternatively, a hand lance will likely leave inconsistent depths due to being held by an operator. This means contractors may have to do another pass with handheld breakers to even out the surface. Contractors can easily move the

271-lb (123kg) Ergo Controller unit around the jobsite and over soft or rough surfaces due to the wide wheels and low ground pressure. At just 44 in (112cm) tall and 17 in (432mm) wide, the Ergo transports easily on a pallet.

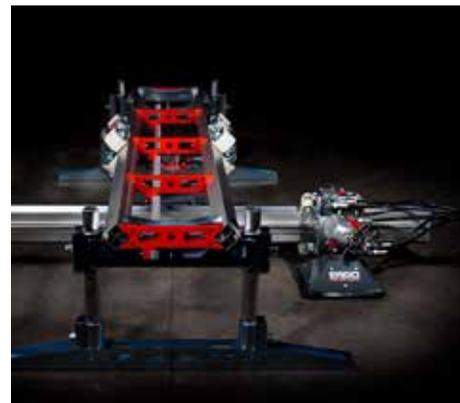
Additionally, the system is also service friendly with hydraulic hose multiconnectors that are 100 percent sealed from moisture to virtually eliminate the risk of leaks during transportation. The Ergo System requires a high-pressure pump to operate. Aquajet offers a compact Power Pack ideal for the purpose, featuring a high-pressure Hammelmann pump, diesel engine and an integrated control system.



Aquajet Systems' Ergo System is service-friendly, with hydraulic hose multiconnectors that are 100% sealed from moisture, virtually eliminating the risk of leaks during transportation.

Ergo Spine couples convenience with portability

Aquajet's new Ergo Spine, also to debut at World of



Aquajet Systems introduces the Ergo Spine for powerful hydrodemolition in hard-to-reach areas.

Concrete, wields four times the water reaction force of hand lances, giving contractors a more powerful and safer alternative. The Spine includes an Aquajet Power Head attached with a single bolt to a roller beam, which is connected to a spine roller mounted on a spine rail. Depending on the configuration, the setup may be supported by standard support legs, or the spine rail may be attached directly to a surface.

Aquajet manufactures the roller beam with a lightweight aluminum core coupled with a steel gear rack and guide rails. Beam sections are mounted together with a single bolt. The Ergo Spine roller features a low weight, high strength skeleton base with a wheel setup that divides forces for the ability to handle high reaction forces. The spine rail is fabricated with high strength aluminum, reducing its weight by half compared to steel. A 6.6-ft (2m) rail weighs just 44 lb (20kg). Despite its lightweight properties, the rail handles the same reaction force as an entirely steel rail. The rail allows for quick connections with a single bolt for different brackets and tools.

As the Power Head moves along the Ergo Spine, it removes concrete in sections as small as 9.8 in (25cm) up to 6.6ft (2m), leaving the rebar clean and undamaged. An Ergo Spine with a Power Pack producing 40,611 psi (2,800 bar) of pressure and 10.6 gallon (40 liters) of water per minute can remove an estimated 8.8 ft³ (.25 m³) of concrete per hour.

The Spine simplifies use as well as maintenance, and is highly portable. One person can carry and set up the unit and secure it with a single bolt. All connection points are marked in red, and all bolt sizes on the unit are the same, ensuring easy replacements. Further, the wheeled Controller measures just 3.6 feet (1m) tall and 1.4 ft (0.42m) wide, making it easy to get to the jobsite on a pallet and then move effortlessly around the site. The Spine's standard setup easily tackles concrete walls, floors and ceilings while the side setup delivers hydrodemolition power to narrow spaces.

Look for Aquajet's Ergo System and Ergo Spine in booth C4249 at World of Concrete 2019.

www.aquajet.se

Aquajet Systems introduces the Ergo System, a compact hydrodemolition machine designed for easy use in tight spaces.





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Dynaset's HMV Hydraulic Modular Valve System makes it easy to install multiple types of hydraulic equipment on a service vehicle—generators, power washers, compressors, and more. HMV combines various sandwich-like valve modules into a compact unit. The modular valve system reduces installation time and it enables safe usage of multiple hydraulic equipment units.

www.dynaset.com

Floor Chaser VFX-125 From Adamas

Adamas' new VFX-125 floor chaser is designed for cutting slots in non-reinforced concrete floors to install plastic pipes for heating systems. It features precise cutting depth control, integrated dust extraction, and swivel wheels for optimum maneuverability to cut slots for tubes as small as .6 in (16mm) in diameter. The VFX-125 also features an extendable steering/push bar on its right side to push in line with the sawblade, and an adjustable guide bar for perfect parallel cuts.



Haver & Boecker Launches New F-Class Portable Plant For Faster Setup and Longer Wear Life

Haver & Boecker, a leading equipment manufacturer and solutions provider in aggregates and mining applications, has launched the Tyler F-Class portable plant that includes several new technologies to improve setup time and extend equipment longevity in quarry and mining operations. The portable plant features a new custom-built chassis equipped with six hydraulic run-on jacks that quickly level the plant, eliminating the need for cribbing. The run-on jacks also ensure the chassis stays level during operation, which minimizes equipment wear.

Producers can move and set up the portable F-Class in less than 30 minutes. The chassis' hydraulic system raises the vibrating screen to its inclined operating position — usually 20 degrees. Takedown is even faster, requiring less than 20 minutes to lower the unit so it can move to the next location.

In addition to run-on jacks and hydraulic walkways, several other features offer enhanced durability and minimize maintenance. These include a new bolted-on suspension that can be removed during operation to eliminate the risk of damage. The chassis is also sandblasted and coated with a heavy-duty finish for optimal wear life and rust resistance.

Haver & Boecker's F-Class portable plant offers as many as three screen decks. Its feed conveyor, cross conveyor and fines conveyor are hydraulically operated for precise material

placement. The plant's fines chute has a full-width access door that allows users to easily unload material build-up, and an oversize chute features bolt-on AR liners for easy replacement. The F-Class vibrating screen has an advanced double eccentric shaft design, supported by four high-performance, double-spherical roller bearings. The F-Class is ideal for screening situations that require consistent, load independent performance at constant g-force. Featuring a unique and reliable, proven four-bearing technology, the vibrating screen delivers a consistent stroke, which two-bearing screens cannot provide. With the right media choice, the F-Class virtually eliminates blinding, pegging and material contamination.

The F-Class portable plant can be customized to include a crusher, conveyors or other components for enhanced productivity. The machine is ideal for tough applications, such as scalping and classifying ores, minerals, stones, sand and gravel. Haver & Boecker also offers the Pulse vibration analysis program to monitor the ongoing health of vibrating screens through real-time views, logged reports and data analysis. It's designed by Haver specifically for vibrating screens to catch small inconsistencies before they grow into problems and downtime.

www.havercanada.com





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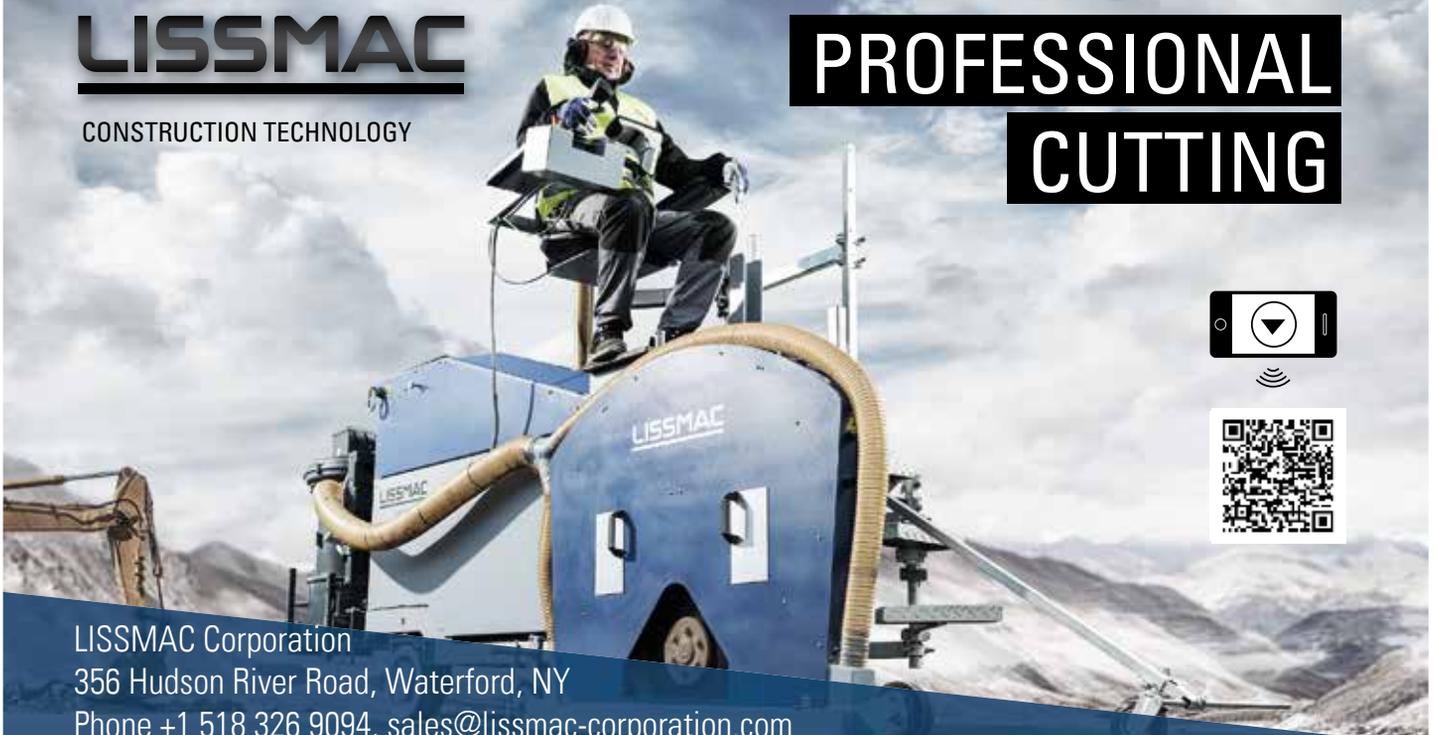


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Kinshofer Multi-Quick Processors Offers Versatility, Fast Jaw Change-Outs



Kinshofer's Multi-Quick Processors features best-in-class cycle times, jaw change-out times and power-to-weight ratio. Suitable for 18t to 65t carriers, the attachments allow demolition and recycling industry contractors to use one attachment with several jaw sets instead of buying several tools for different applications. Contractors can choose from six to eight jaw sets, depending on which of the four MQP models they choose, including dedicated concrete, steel or tank jaws, as well as combination and specialty jaws.

Kinshofer's MQP features the company's DemaPower™ cylinder technology. The cylinder uses four chambers instead of the two found in other attachments, resulting in 20 percent more surface area within the cylinder. That allows the MQP to exert up to 25% more power from a smaller attachment, resulting in the best power-to-weight ratio in its size class. Higher power in a smaller tool also improves efficiency and performance in high-reach demolition, a practice that's becoming more common in the U.S. The technology also gives the MQP superior jaw closing and opening speed, with cycle times as fast as 5 seconds. As a result, contractors can complete jobs as much as 20% faster.

Contractors can change Kinshofer MQP jaws faster, easier and more safely thanks to the company's DemaLink™ system. Operators only need to manually remove one pin from the attachment during change-out, compared to three with many competitors. The other two pins are removed hydraulically from the safety of the cab. DemaLink also allows two people, or a single skilled operator, to switch out jaws in minutes and get back to work quickly. In comparison, competitive models often need to be taken to a shop and take hours to switch.

Kinshofer reinforces the MQP with twin rotation motors. This boosts rotation power and reduces the risk of the attachment shifting or rotating on its own, causing potentially dangerous situations. The MQP also includes a safety system that reduces the risk of dangerously high pressures within the rod cylinder. The MQP also includes features to prevent carrier damage in the event of a rotation motor breaking. Engineers designed the tool with rotation circuit filters to

catch small pieces of metal that can break off rotation motors and travel through the lines into the valve and then the tank, a problem that can cause thousands of dollars in damage.

www.kinshofer.com

Prinoth Launches Light, Efficient, and Flexible Mulching Head for Skid Steer Loaders

Prinoth is well known for its crawler carriers but also manufactures a wide range of mulching equipment. Through its Vegetation Management Division, and as a cutting-edge company, where the latest developments and innovations in agriculture and forest management are the top priority, PRINOTH continuously invests in developing high quality products including the introduction of its newest mulching head model, the M450s. Developed for a range of carrier vehicles from 80-150 hp (60-112 kW) and a volume flow range of 26.4-52.8 gallons/min (100-200 liters/min), the M450s is a compact and powerful head for a diversity of mulching applications. With the "Plug and Mulch" feature, the M450s is ready for simple implementing on any skid steer loader make and model. Hydraulic hoses with standard fittings are included in the package and already delivered from factory. The M450s gets its enormous power from a 107 cc Rexroth hydraulic motor with high-pressure variable displacement. A new-cogged belt drive transfers it to the rotor.

The rotor combines the BCS (Bite Control System) with two types of cutting tools. Whether using steel knives or carbide teeth, the BCS-Rotor is best balanced for less wear on bearings and high speed, meaning high productivity and perfect finishing. With the well-tried BCS-Rotor System and its cutting tools, the operator will not only get a professional working result, but also a pleasurable working experience.

In addition, the BCS-Rotor guarantees a perfect visibility to the ground for a good and safe line of site to the working area and the machine. The point of gravity is close to the carrier, making it easier to handle and provides less tipping or roll over danger. For maximum safety, the M450s is equipped



Little Beaver Inc. Offers Tripod Kit for Efficient Soil Sampling with Hydraulic Earth Drill

Little Beaver, Inc., offers a Tripod Kit to turn its Hydraulic Earth Drill into a highly capable and portable rig for soil-sampling and geophysical work. The kit provides controlled drilling as deep as 35 ft (10.6) in sand, clay and soft rock formations using 4-in (101.6mm) diameter augers and extensions. The Tripod allows for precise testing while delivering excellent control and smooth lifting of samples. The Tripod pairs with Little Beaver's 11-hp (8.2kW) Hydraulic Earth Drill. The drill's standard 150-rpm drive offers controlled speed and a max drilling torque of 225 lbft (305Nm). The drill also generates 1,000 lb (4,448N) of pull-back force for auger removal. The Tripod provides the stability and control required to drill deeper and to easily remove the auger and sample.

To ensure hassle-free auger removal, Little Beaver constructed the Tripod of durable, welded steel tubing. The unit also features a hand winch for quick auger retrieval. The Tripod Kit and drill are both easy to move between jobsites. The Tripod's legs are adjustable and collapse for easy transport. Little Beaver's Hydraulic Earth Drill is mounted on an easily maneuverable three-wheel chassis. The drill's compact design allows for drilling in locations inaccessible with larger drills. For safe and convenient loading and unloading, the drill is equipped with front and rear handles.

In addition to the Tripod Kit and Hydraulic Drill, Little Beaver offers a variety of tools for easy soil sampling in hard-to-access areas.

www.littlebeaver.com

with anti-slippery stripes on the top of the housing and with two steps for a safe access to the carrier. With its robust mulching tracked carrier vehicles ranging from 200 to 640 HP and its high-performance mulching solutions, PRINOTH Vegetation Management provides sustainable solutions for clearing and re-cultivating forest areas, clearing streets for power lines, and transforming unused scrubland into areas that can be used for agriculture or forest management. Machinery and mulchers are developed and produced at the Herdwangen site, which employs nearly 100 people. PRINOTH is part of the HTI Group (High Technology Industries) with over 3,000 employees across the globe.

www.prinoth.com



THREE NEW FEATURES FOR USER SAFETY

INTERFACE

The new interface is developed for work at a safe distance. You operate the robot through the interface on the robot or on the remote control box. They are identical. The interface consists of two separate parts, one focused on operation and the other focused on service. The settings are easy to reach with just a push of a button.

COLOR DISPLAY

The color display located on the robot is a 7" screen with a resolution of 800 x 480 px. It has nine push buttons and a rotary encoder. One of the most important updates is that you maneuver between controls and options using a rotary encoder instead. The color display will be available on all of Conjet's 7 series robots.

REMOTE CONTROL BOX

The remote control box, Conjet Color Display, is equipped with a 4,3" LCD color display with 2 mm thick, protective Gorilla glass and a resolution of 480 x 272 px. It utilizes the surrounding light to give a sharp and clear image in more difficult environments. The technology is developed to be electricity-saving. The operator no longer has to be close to the robot during operation. Instead, the operator can control every aspect of the hydrodemolition at a safe distance.



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A World of Opportunity for Surface Preparation Experts: National Flooring Equipment Exhibits at World of Concrete

Surface preparation expert, National Flooring Equipment will return to World of Concrete in 2019 to exhibit its vast range of machinery, equipment and tools.

Located at Booth 0805 in hall five, National Flooring Equipment will showcase its latest product, the Ion4K. This machine is a revolutionary step forward in dust control on a jobsite. It creates clean air by removing harmful particles and odours from the environment and knocking floating dust to the ground. This not only allows for a cleaner worksite, but also improves health and safety for on-site construction workers as they inhale less dust while working. The product will be on display on National Flooring Equipment's booth, alongside a range of the company's scrapers, shot blasters and grinders.

National Flooring Equipment will also exhibit its three power hammer trolleys, which are built to fit the most popular styles of jack hammers. Using a jack hammer for extended periods of time can strain your back and hands. Because National's power hammer trolley enables the angle of the jack hammer to be changed to a more comfortable position, contractors can work faster and more efficiently.

"Most contractors will have a power hammer in



their inventory, but it can be uncomfortable to use," explains Dave Bigham, NFE's director of national accounts. "A power hammer is heavy and clumsy to work with, which can cause discomfort for the contractor. Using the hammer at a perpendicular angle also generates excessive dust and may pull up more material than required. Our trolley is one of our best-selling products because it is simple, easy to use and useful. It changes the angle of the blade to pick up hard goods in larger pieces, making floor removal and clean up simpler."

National Flooring Equipment will also show a range of ride-on floor scrapers. One highlight was the 2900 high-speed battery ride-on scraper, which is designed for removing soft goods such as carpet or VCT quickly and efficiently. The 5700, an all-day battery ride-on scraper, can work on any jobsite for up to an impressive twelve hours on a single charge. National Flooring Equipment's smallest walk-behind scraper, the 550, can be easily manoeuvred in small spaces.

Also on hand will be a range of shot blasters that can strip, clean and profile concrete in a single step to prepare it for a new covering.

www.nationalequipment.com



New Brazed Diamond Tools for Sanding Wooden Floors from Klindex

Italian company Klindex has announced the recent launch of a range of new tools for the sanding of wooden floors. Designed to carry out the first sanding step before proceeding with sand paper, the new tools are specifically developed to considerably speed up the first step to level surfaces, and eliminate edges or deep scratches faster than traditional machine belt or drum sanders. The range has a long operational lifetime—up to 16,146 ft² (1,500m²), making it ideal for removing glue, coatings and paints, whilst reducing the amount of sand paper required, while making the floor flat. Suitable for use on any type of wood or wood installation, the new tools are able to prepare the substrate, and offer better adhesion before laying a new wooden floor.



www.klindex.com



Innovative PaveScan from GSSI

GSSI featured its industry-leading PaveScan® RDM asphalt density assessment tool at the Transportation Research Board (TRB) 98th Annual Meeting in Washington, DC. GSSI's PaveScan RDM system, initially unveiled at TRB's 2016 meeting, is now a valued addition to the toolbox of solutions for uncovering problems that occur during the paving process, including poor uniformity and significant variations in density. By avoiding these problems, PaveScan RDM helps avoid such premature failures as road raveling, cracking, and deterioration along joints. PaveScan RDM automatically measures the dielectric value to identify anomalies in real time. In addition, the dielectric values can be used to correlate percent voids and density in new pavement. The innovative technology enables users to obtain critical density data for quality assurance/quality control of new pavements. Unlike other options, like nuclear density gauges or radioactive alternatives, PaveScan RDM does not result in any site hazards or require closing off work areas.

Seamlessly integrating with GPS systems, PaveScan RDM features a flexible, modular design that facilitates easy and efficient operation and data collection. It is available as a small, portable single sensor cart-based system or a three-sensor configuration using an extended cart or vehicle configuration. The entire system is composed of a cart or vehicle mount, one to three sensors, a customized Panasonic G1 ToughBook, a concentrator box and a variety of system accessories.



Tool-Free Drill Bit System Debuts in Germany



Dr. Reiner Schulze delivered the first drilling motor with PQ6 connection to Michael Findeis in the presence of Thomas Springer, President of the German Concrete Sawing and Drilling Association.

Michael Findeis, CEO of Betonbohrservice Findeis of Germany is the proud owner of the world's first drill motor with the innovative tool-free PQ6 drill bit connection. With Thomas Springer, President of the Concrete Drilling and Sawing Association-Germany looking on, Findeis received the machine together with a set of new core bits of the same system from Dr. Reiner Schulze in mid-July.

Dr. Schulze had a major influence on the development of the PQ6. In the process of introducing the new system to the market, he also bundled the demand of manufacturers and users and gave a first edition of the drill bit connection in series production. "Availability among the individual manufacturers still varies a little at present," Dr. Schulze said. "To my knowledge, three manufacturers are currently able to deliver immediately. I assume that more will follow soon."

The tool-free drill bit connection in the form of a 6-fold polygon profile makes it easy to disconnect the drill bit by hand without technical equipment. When working horizontally, the drill bit can be placed on the spindle of the machine so that both hands are free to close the nut. When the drill bit is loosened, it remains on the spindle for the time being, making demounting easier.

Thanks to the ergonomically advantageous handling during assembly and disassembly, both the user and the machine and drill rig are protected. This helps reduce injury risks to operators, as jammed drill bits are a thing of the past when using the new system. In addition, the connection is convincing due to its short design, low weight and high concentricity, because the polygon enables a 100% frictional connection. The high torques generated are transmitted backlash-free and

vibration-free. Findeis plans to use the PQ6 system as a "first mover" in daily business.

"I am fully convinced of the new technology," he said. "The tool-free replacement of the drill bit is easier to handle and, above all, faster. I assume that we will be able to cut the average crown changing time in half. The resulting time saving streamlines the work process and allows a significant increase in efficiency."

The first step is to completely equip a vehicle with the new system. In order to be equipped for the most common everyday tasks, Dr. Schulze promised the prompt delivery of the first drilling motor suitable for hands-free operating.

"We don't have to carry two systems with us, as the available adapter can also be used for old core bits," Findeis said. "We will then be able to change our pool of drill cones with a PQ6 connection step by step in the future."



The new PQ6 connection: 6-fold polygon profile.

Drill bit and motor separated.



Dieter Steigerwald, workshop foreman at Betonbohrservice Findeis GmbH, mounts the drill bit on the drill motor with the tool-free PQ6 drill bit connection.

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Surface preparation

The world's concrete floor grinding and polishing industry is steaming away with the development of new machinery and tools. PDa's annual feature takes a look at the latest developments for concrete floor grinding and polishing.

Surface preparation technology goes in two directions, aiming at satisfying the requirements of two clear groups of contractors. First, there are those that are mainly focused on floor preparation, often combined with demolition and concrete cutting tasks that tend to use heavier duty equipment and machinery. The second group mainly works with the concrete floor as a final flooring product, undertaking both grinding and polishing. What we are now seeing however is a trend where more and more contractors who previously only worked on the floor prep side, are now also offering polishing services. Another trend is that it is becoming more common is that contractors are now renting out their equipment, even the newer more advanced

systems.

New machinery and tools for floor grinding and polishing are being launched frequently, with many developments coming from China and other East Asian countries. Even though concrete floor grinding and polishing is still increasing, with many new developments occurring, there are still some areas or countries, Japan for example, that have yet to fully embrace either the technology or the opportunities presented therein.

In the following pages PDa takes a look at the very latest developments in the field, and how they are designed to serve the increasingly diverse and complex requirements of contractors and their customers.

Adamas

Adamas has released a new floor chaser VFX-125. The machine is specially designed for cutting slots (minimum radius approximately 60mm) in non-reinforced concrete floors in order to install plastic pipes for heating systems. Amongst its features is a highly precise cutting depth-control method, and integrated dust extraction system, whilst also being equipped with swivel wheels for maneuverability. The VFX-125 has an extendable steering or push bar on the right side of the machine to push in line with the saw blade, and comes complete with an adjustable guide bar for parallel cuts.

www.adamas.pro



Ashine Diamond tools

Committed to the supply of top-grade diamond tools for grinding and polishing industries since 1993, Ashine Diamond Tools Co. Ltd is celebrating its 25th anniversary this year. Ashine has now developed a full range of metal bond grinding products for coating removal and concrete grinding, with one of the greatest strengths of the metal bond being

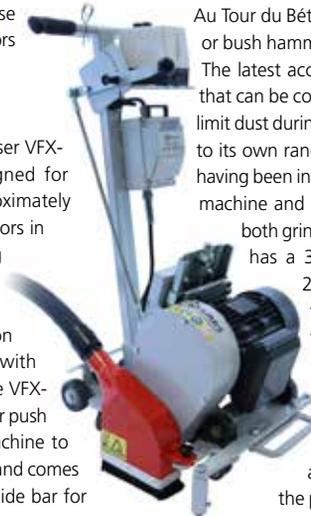
the variety of bond choices for different concrete types. The metal formula used enables consistent performance and high efficiency on different concrete surface when grinding. Another new product Ashine brought out in 2018 is a diamond pad system for maintenance and restoration. This new concept has seen the adopting of diamond polishing technology into the cleaning industries. The use of Ashine pads is environmentally friendly, chemical free, efficient and creates a long-lasting shine.

www.ashinediamondtools.com

Au Tour de Béton

Au Tour du Béton's range of tools allows users to grind or bush hammer with a simple variable speed grinder. The latest accessory is a highly resistant dust shroud that can be connected to a vacuum cleaner in order to limit dust during grinding. The company has also added to its own range of grinders, with two new machines having been introduced: the BU270M bush hammering machine and the TH500M double head machine for both grinding and bush hammering. The BU270M has a 3 hp (2.2kW) motor and operates on 220V. The bush hammer plate is easily fitted under the machine, which can then be adjusted in height by means of a hand wheel located at the back. The hours run meter, located under the handlebar, enables the user to know when to have the machine serviced and perform routine maintenance. Once the plate is installed, removable weights can be added on the head for higher head pressure.

The shroud has an outlet for connecting to a vacuum



ishing

tion contracting goes two ways

cleaner, and a bordering system enabling bush hammering as close to walls as is possible.

The TH500M has two heads providing a working width of 1.6 ft (500mm). Equipped with a variator, the rpm goes from 200 to 1200 for the single-phase version, and from 200 to 1440 for the three-phase version. The double head of the TH500 can be equipped with four branch cup grinding wheels, or three branch bush hammer plates. A lifting lever makes it possible to adjust the height of the machine depending on the plates installed.

The current range of grinding machines is also in constant evolution, with as a direct response to customer feedback, products being continually improved. The SH320T, SH270M and SH270MLC are now equipped with new steel shrouds that can be easily cleaned and decontaminated if necessary (e.g., when dealing with asbestos). The company also has plans for new developments in 2019. These include a fully remote-controlled machine, the GR1000T, which will enable both grinding and bush hammering for a working width of 3.2 ft (1,000mm). The GR1000T will have, as with the rest of the range, an integrated stainless shroud and a vacuum cleaner outlet.

Au Tour du Béton now supplies both cup grinding wheels and diamond/PCD wings for aggressive grinding, and finishing tools such as diamond pads. The company's latest development is a bush hammering plate equipped with 300 tips bush hammers for a sanding finish. The model is available for both hand plate and planetary systems.

www.autourdubeton.com

Aztec Products

Aztec Products of Montgomeryville, Pa., develops and manufactures propane buffers, propane floor strippers and concrete floor grinders and so forth. Aztec also manufactures propane floor



burnishers, which are made to maximize efficiency and minimize waste. The propane-powered burnishers are more productive, less expensive and an environmentally cleaner choice than battery burners, being extremely fast and, contrary to popular belief, very "green." In fact, the company states that the new generation of propane burnishers are the greenest burnishing machines on the market based on machine expense, labor expense and emission certifications.

Another advantage with propane machines, according to Aztec, is a machine life of at least six years, and low maintenance costs compared with battery-driven machines. The propane-driven machines also collect hazardous particles and prevent them from being inhaled by operator or others in the vicinity. All propane machines from Aztec have green and safety certifications.

www.azteproducts.com

Blastrac

Blastrac has launched the BMG-2200 "Bull," a large-scale ride-on floor grinding machine designed for large horizontal surfaces. With two drive wheels fitted to the front, and a swivel castor located at the back, the machine is highly maneuverable both on and off jobsites. Also new is

the BMG-780PRO, which has three powerful grinding heads that deliver effective coverage and distribution of grinding pressure on each individual head. This means each grinding head can be operated individually.

The machine comes as standard with variable grinding speed rotation direction, as well as an independent suspension system. Another

development is the BMG-2200 with variable grind-

ing pressure suitable for a variety of jobsites. It is designed with an integrated powerful dust-collecting system with HEPA 14 filters, which makes the BMG-2200 virtually dust free according to OSHA regulations.

The BB-700E MKII is Blastrac's new burnisher designed for polished concrete installations and maintenance. It is equipped with an ergonomically comfortable handle in order to reduce operator fatigue, making it the ideal machine for large jobs such as airports, malls, hotels and schools. The BB-700E MKII has two dust exhausts on each side of the floating shroud connected together with a Y-piece connector for better suction. It is also possible to add an optional weight kit for more grinding pressure.

Blastrac has also launched two new single-disc grinders. The Blastrac BGS-250SC MKII, specifically designed for small to medium horizontal surface preparation applications, features a speed control system to carry out any type of operation (grinding, bush hammering, polishing), with comfort and low vibrations. It is ideal for surface preparation, surface levelling, bush hammering, and preparation before coating and the removal of coating defects or adhesives. The BGS-250SC MKII single disc grinder is also dust free when connected to the appropriate Blastrac dust collection system.

The Blastrac BG-250TWIN works at two different speeds for fast and easy switching between normal grinding and using bush hammer tools. The special twin electromotor has two settings. The high-speed setting gives the normal rpm's for grinding, while the low speed setting provides the optimum rpm for bush hammer tools. This feature eliminates the need for changing the pulleys every time there is a requirement to switch between normal grinding and bush hammer tool operation.

Blastrac's new triple-disc grinder, the BMG-735RS MKII, is a remote-controlled floor grinder with 9.5 in (240mm) discs, being designed for finishing large horizontal surfaces. As with all Blastrac grinders, the BMG-735RS



MKII has a solid metal construction to create the ideal weight. The company has developed diamond products, which give the opportunity to process any floor and deal with specific applications. The many features of the grinder range include a floating shroud with integrated floor nozzle, smart easy to use keypad with all relevant information, ergonomically adjustable steer, easily accessible hose connection, and wider and bigger wheels.

www.blastrac.com

HTC Sweden

HTC has recently added an entirely new grinder, the Duratiq 5 to its award winning Duratiq line of grinders. The Duratiq 5 has a grinding width of 20.2 in (515mm) and is available with a 3-hp (2.2kW) motor, or a 5.3-hp (4.0kW) motor. Both models possess an entirely new design, with the focus being on ease of handling and power, with these being key factors in this popular machine segment, as well possessing other features that are unique for a model of its size. The Duratiq 5 comes complete with a digital control panel that provides full control of capacity and functions, a new grinding head, hermetically sealed and dustproofed, and effective and energy efficient motors that provide higher levels of grinding performance. Its modular chassis and grinding head possess quick couplers for easy transport and optimal handling, and its mist cooler system is said to increase productivity by up to 78%. With its compact dimensions, the machine is suitable for both small and medium sized surfaces, and is able to use more than 120 HTC-built tools.

www.duratiq.com



Hypergrinder from Italy

A fairly new player in the segment is the Italian company, Hypergrinder, which has developed a grinder with an exclusive DCT double rotation system, which stands for Dual Cut Tech. DCT enables the operator to choose to use a "smooth" setting only using the rotation of the tools to deliver more aggressive and effective grinding for glue and resin removal work, surface preparation, and floor levelling. The "classic" complete rotation setting is designed for general polishing, marble polishing, natural



stone, and concrete. The Hypergrinder is constructed with a single shell chassis, and is highly robust and compact. A 180° over-turning system provides extra weight that increases grinding pressure.

www.hypergrinder.com

Janser GmbH

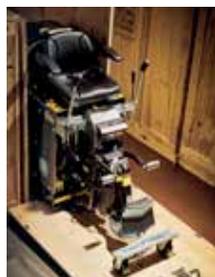
German manufacturer Janser has launched what is claimed to be the lightest ride on floor scraper on the market – the Junior Ride-On. A Forward slope design allows for impressive levels of performance in a compact package. The machine possesses a slide plate that is manually positioned to the desired height while the operator is seated on the machine. Its "ultra-safe side entrance capability eliminates the hazards of climbing over the machine front. The company has also launched an even smaller removal device, the Master Mobi II. This possesses a powerful motor combined with a revised hydraulic direct drive system that ensures high output, with extremely low noise levels. The self-propelled machine has an adjustable guide handle in six positions that allows ergonomic operation depending on body size, or the preferred working position. Weights can be easily removed for transportation, reducing the net weight of the machine, which is approximately 165 lb (75kg) with a total operating weight of 231.5 lb (105kg).

Janser has also added a large ride on stripper called the ADB High-Speed Ride-On. Despite its size, the machine has a very quiet operation without exhaust gases and no blade vibrations. Robustly constructed chassis and controls ensure long operational life, while a high-quality hydraulic system makes for easy, precise handling. A battery management system with automatic cut-off protects against total discharge. A hydraulic front angle plate and deflector plate are included as standard.

www.janser.com

National Flooring Equipment

Surface preparation equipment specialist, National Flooring Equipment, has developed a range of innovative floor strippers including the 4230-EUR ride-on machine. The 4230-EUR is available with either a manual blade adjustment, or dual lift feature. Being electric rather than propane-powered, it releases no harmful emissions. "The 4230-EUR is



the smallest and most lightweight of National Flooring Equipment's ride-on strippers.

www.nationalequipment.com

Klindex

Klindex has developed new and exclusive remote automatic control technology for grinding and polishing machines called AT. With this system, Klindex machines are able to grind on their own over the entire area, moving forward, turning and coming back, crossing the grinding tracks, leaving no untreated areas. Without any interruption, it is also possible to modify all machine variables with a comfortable, handy and intuitive remote control. The system fitted on the Klindex 850 features an automatic planetary lifting system operated through the remote control. This simplifies transportation and gives great driving power, as well as providing an automatic swinging function and automatic reverse. AT also provides automatic grinding of the whole working surface and extra precision during edge grinding, combined with high levels of maneuverability.

www.klindex.com

Schwamborn Gerätebau

German manufacturer Schwamborn Gerätebau GmbH has released the new DSM 250S for finishing and polishing concrete and design floors. DSM 250S has been developed to not only grind up to the edge during ground preparation, but also during the finishing and polishing of concrete and design floors. Features include a swiveling grinding head, and an easily adjustable extractor hood that automatically adapts to the wall contour during edge grinding. In addition, the DSM 250S is fitted with a water tank for wet grinding, and a continuously adjustable rotation speed that allows edge grinding up to the completely finished design floor. A gas-powered version is also available for removal of road and parking space markings, as well as smaller grinding work in outside areas without access to a local power connection.

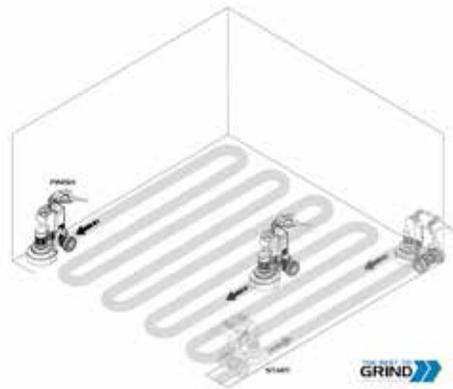
The company has also developed and launched a new range of vacuum cleaners and pre-separators. "Ergonomics and safety to ensure onsite protection of the health of the operators, and other people become more and more important," explains Schwamborn chief executive Eckart Schwamborn. "For this reason, we revised the complete system of floor grinders, vacuum cleaners, and pre-separators." All machines are now equipped with HEPA filters and the more powerful vacuum cleaners, such as the STS 260A, are fitted with automatic filter cleaners for trouble free use without interruption.

www.schwamborn.com

Superabrasive, Inc

Superabrasive has continued to expand its Lavina propane equipment line adding several new propane machines this year, including an all-new L20GX 20-in (510mm) grinder, L13G-X walk-behind edger, and the new V25G-X and V20G-X dust extractors. The L20G-X grinder's new features include a completely redesigned frame with dust proof grinding head, low friction chain gear planetary drives, and integrated weights to provide enhanced maneuverability along with easy tool changes. Lavina "Fuel Minder" closed-loop fuel management system and variable speed engines provide improved efficiency.

Fuel Minder is responsive to changes in engine load, and provides an optimum air-to-fuel ratio regardless of operating conditions. It features a fuel lock off capability,



(or smaller) water droplets, which effectively suppresses and removes breathable fugitive dust particles from .1 to 1000 microns. This approach avoids the moisture problems of common spray type systems used in combination with dust extractors. Dust collection is also improved, with the hose connection now being closer to the dust source, and utilizes a stainless steel camlock attachment. All Lavina machines now come standard with the new Lavina floating skirt with a flexible brush. A new propane edger, L13G-X, possesses a 13.2-in (335mm) grinding head, and is powered by a Kawasaki FJ180V engine. Machine features include tilt adjustment to dial in perfect head pitch, a multi-point leveling system, and improved tilting of head to 45°. It also has a new adjustable handle bar, new splash shield, and rollers to prevent wall damage.

Superabrasive also introduced new small and mid-size propane dust extractors, enabling contractors to be completely independent from the electrical specs on the job site. The new Lavina V25G-X is a powerful and efficient vacuum with automatic filter cleaning and integrated pre-separator. It has a conical main filter, and a HEPA H13 filter, rated at 99.99% at 0.3 microns, a Longopac bagging system for easier and safer dust disposal, non-marking rubber tires with brakes, and comes equipped with two separate anti-static hoses (one for the grinder and another one for the wand), as well as a floor tool kit. The V20G-X model is a smaller unit, suitable for small grinders and edgers, and has manual filter cleaning.

www.superabrasive.us

Worx+

Worx+ from Bayswater, Australia, has a great deal of experience in the industry, developing a hard-won reputation in the manufacturing and distribution of equipment

and tools for concrete floor grinding. The company has recently added the Aqua Zero for wet grinding. Aqua Zero possesses long-life rubber- and Velcro-backed resin pads to increase flexibility and provide smooth operation, with a highly consistent scratch pattern. These are ideal for floor honing and polishing, and wet cutting power troweled / burnished concrete where zero aggregate exposure is

required before densification. Another new Worx+ development is the Totally Cut Sikk, a grinding compound for total metal bond grinding impact on hard to very hard concrete. The compound helps maintain diamond tool sharpness, delivering a consistent grinding performance, greater material removal, enhanced scratch pattern consistency, and increased aggressiveness of the tool at hand.

www.totallyworks.com



emissions safety warnings with shutdown, and LCD screen with user interface. Lavina engine kits are EPA and CARB Blue Sky recognized, providing significantly lower than standard emissions.

The L20G-X dust suppression fine misting system with four high pressure spray nozzles, produces 10-micron



LOAD 'EM UP!

Where there's smoke, there's fire, so the old saying goes. A corollary for the construction and demolition business might well be where there's infrastructure work, there's a need for compact loaders and skid steers. PDA Senior Editor Jim Parsons reports.

Admittedly, that doesn't roll off the tongue very well. But a recent analysis from Market Research Future suggests a strong connection between upticks in infrastructure projects and demand for these versatile, power-packed machines. The report predicts a global compound annual growth rate of 8% through 2022, with North America leading the way. And it's not just roads and pipelines where machines will be most needed, the report says. The worldwide trend toward urbanization, including new developments, renovations, and enhancements that make cities and built areas more inviting, pedestrian-friendly, and technologically "smarter" creates a need for reliable equipment that doesn't require a lot of elbow room.

Yet even if your business is small, rural, and/or focused on other sectors, the time may well be right to take a fresh look at what's new in the world of compact loaders and skid steers. Equipped with more features than ever before, these machines are more reliable, more powerful, and more comfortable to operate. And with telematics technology, they can also "tell" you a great deal about your work activity, and spot opportunities to become more efficient and more competitive.

So take a look, and get busy!

JCB Unveils New Hi-Viz Skid Steer and Compact Tracked Loaders

JCB celebrates 25 years of skid steer production with the launch of seven new large-platform skid steer loaders and compact tracked machines. The machines feature a new Hi-Viz boom, mounted 2 in (50mm) lower to further improve visibility across the boom to the operator's right-hand side. The boom also features new double tapered pins in both its mounting tower and enclosed quick hitch, boosting strength and durability. Hard pipe hosing is used on the inner side of the boom for further protection from damage, while a bolt-on wear plate avoids wear on the quick hitch from frequent attachment changeover. Based on the firm's large skid steer platform, the previous model

225 becomes the 250, and the 260 is renamed the 270. The 300 and the 330 remain unchanged. On the compact tracked loader side, the 225T is now the 250T, the 260T becomes the 270T, and the 300T is unchanged. The new skid steer and loaders also feature a protected tilt cylinder, allowing cab to be raised for maintenance with boom in any position. The tilt cylinder also boasts a larger diameter to boost bucket tearout by 10% on the new 250 and 270 models. JCB has also made significant improvements to its skid steer and compact loader cab, increasing the door opening angle by 15%, from 40° to 55°, to make entry and exit easier. The door also benefits from a revised door strap and a repositioned grab handle, making it easier to reach from the operator's seat. A new bolted-on yellow external grab handle also helps with entry and exit.

Cab air conditioning has been improved, with three internal filters with durable metal covers mounted on the outside of the cab. Upgraded heater vents prevent rattle during travel, reducing noise levels for the operator. In addition, a new front screen, with lighter frame offers improved forward visibility, helped in part by moving the wiper motor to the left-hand side of the window. Start-up has been simplified to a three-step procedure, while a single press of the parking brake now unlocks the brake, the loader joystick and the auxiliary button. Operators still have the ability to lock the functions separately if preferred.

ASV RT-25 is World's Most Compact Track Loader

ASV introduces the new RT-25 Posi-Track® compact track loader. Measuring just 48 in (1.2m) wide, the RT-25 can easily maneuver through tight spaces while minimizing



the risk of property or machine damage. This includes landscaping or construction in high-density housing or confined areas where structures such as fences may otherwise need to be removed to accommodate larger equipment. The unit's 3,755-lb (1,703kg) operating weight further reduces risks of damage to turf or sensitive surfaces. That low weight also contributes to increased flotation and traction for snow clearing on sidewalks, driveways or in alleyways. A completely smooth turf track is also available to minimize the risk of damage to manicured lawns and golf course greens.

The RT-25's compact size makes it an optimal addition to rental fleets. Because of its low weight, drivers can transport the loader on a trailer pulled by a .5t pick-up truck or SUV. Thanks to the machine's straightforward controls, learning how to use the unit is fast and simple. Filters and other daily serviceability checkpoints are within easy reach thanks to a large hood opening that gives access to all sides of the engine. This means speedier rental turnarounds and less downtime for contractors.

The RT-25's small size also makes it a safer and more productive alternative to stand-on or walk-behind loaders. The unit's cab shields the operator from outside elements and provides rollover protection, something uncommon with walk-behind and stand-on units which are prone to accidental tipping. The RT-25 also features an optional heated cab for additional comfort during winter operation.

The machine's industrial 25-hp (18.6kW) Perkins diesel engine and 5.1-mph (8.2kph) top speed allow operators to achieve maximum productivity by moving around quickly and digging and lifting more. The engine is turbocharged so it can output its full horsepower even at high elevations. The Tier 4 Final engine requires no regeneration, exhaust sensors or diesel exhaust fluid.

The RT-25 features a rated operating capacity of 665 lb (302kg), a tipping load of 1,900 lb (862kg), and an 8.4-ft (2.5m) lift height. ASV builds the machine with the same drive motor as the RT-40, allowing it to achieve the same high tractive effort, which gives it exceptional pushing and digging power. The RT-25's quick-attach suits a variety of available attachments.

As with all of their models, ASV equips the RT-25 with direct drive pumps, eliminating labor-intensive belt servicing required with belt-driven pumps. The direct drive pumps along with the machine's large line sizes and hydraulic coolers transfer more flow and pressure directly to the attachment and prevent power loss, making for a highly productive machine despite its small engine size.

ASV's Posi-Track undercarriage allows customers to use the RT-25 efficiently year-round thanks to its maximum control, flotation, traction, and pushing power in steep, wet, muddy and slippery conditions. The Posi-Track loader system features a flexible rubber track with internal positive drive sprockets to provide superior traction and track life. The open-rail and drive-sprocket design, rather than the traditional enclosed tub system, results in increased sprocket and bogie life along with easier and faster un-



derrigging cleaning. All of the wheels are exposed in the undercarriage, allowing material to spill out, reducing the risk of abrasive material getting trapped and wearing away at components. In addition, Posi-Track loaders feature as many as four times more ground contact points in their tracks than competitive steel embedded models. This spreads the unit's weight evenly, resulting in lower psi and extra flotation on delicate surfaces. The RT-25's large number of contact points and guide lugs also virtually eliminate the risk of track derailment.

www.asvi.com

Kubota SVL75-2 with High Flow

Kubota Tractor Corporation's SVL75-2 with High Flow compact track loader offers increased hydraulic horsepower, expanding multi-tasking capabilities for a wide variety of attachments on the jobsite. Boasting a 74.3-hp (55.4kW) four-cylinder, direct injection, turbo-charged Kubota diesel engine, equipped with Common Rail Fuel Injection and a Diesel Particulate Filter (DPF) system, the new SVL75-2 with High Flow meets Tier 4 emissions standards and matches reduced exhaust emissions with enhanced fuel economy.

www.kubota.com

New John Deere 344L Compact Wheel Loader Lifts More, Moves Faster

Combining speed, precision and exceptional lift capacity, the new John Deere 344L compact wheel loader provides peak productivity for ag material handling, landscaping, snow removal and construction customers year-round. Industry-exclusive features on the 344L help operators move faster and remain comfortable on the job site while increasing machine uptime. The 344L offers a faster travel speed with smooth auto shift technology up to 25 mph (40kph), ideal for users with larger job sites to traverse. The Articulation Plus™ steering system on the 344L allows operators to lift more during turns than leading competitive machines. Its design features an articulated frame plus rear-wheel steer, providing a tighter turning radius, improved stability and additional lift capacity.

In addition, the newly designed loader arms and coupler provide better parallel lifting of attachments and



increased visibility, especially for operators using forks. With a full-turn tip load of 12,650 lb (5,738kg), customers are able to lift heavier loads and can keep more material in the bucket without making adjustments. Knowing that a comfortable operator is a productive operator, the 344L features a new cab design. A comfortable air-ride, high-back seat reduces operator fatigue while heating features keep workers in cold conditions focused on the job. More space in the cab and increased visibility to the loader arm and bucket improve overall efficiency. The 344L is also equipped with pivot and rear oscillation to provide a smoother ride. To increase uptime, a redesigned engine layout and cooling package provide increased airflow for superior cooling, reduced debris penetration risk, as well as easy access to ground-level service points. Reversing fan capabilities keep customers in high-airborne-debris areas running longer. A new FT4 Deere engine offers outstanding serviceability. Proprietary shift logic reduces operating costs by better retaining material with smooth shifts and decreases operator fatigue. Rim pull control extends tire life by allowing customers to adjust the torque of the machine to the conditions of their job sites.

Contractors looking to get the most out of their 344L wheel loader can rely on JDLink™ telematics, which provides real-time data and health prognostics to suggest maintenance solutions that decrease costly downtime. Remote diagnostics enable a dealer to read codes, record performance data and even update software without a trip to the job site.

Also from John Deere, On-Board Grade Indication on G-Series Skid Steers and Compact Track Loaders

John Deere has added an exclusive on-board grade indication option on the large-frame G-Series skid steers (330G and 332G) and the large-frame G-Series compact track loaders (331G and 333G). Available as a factory or field kit option, the new feature is ideal for job sites that involve leveling and slope work. The industry-exclusive integrated on-board grade indication option provides operators with an accurate readout of the cross slope and main-fall slope of the machine. The machine cross slope and main-fall slope information is displayed in real time through the machine's main display monitor. The readout can be easily configured to display either percentage or degrees depending on preference. The absolute and relative slope readouts provide enhanced information to the operator for specific applications. The absolute value readout is useful for providing information during general grading applications that do not need a local grade reference. The relative value readout is well suited for operators looking to alter grade relative to an existing or reference grade.

www.johndeere.com

Takeuchi TB2150 is Largest in Its Lineup

Takeuchi-US has launched the TB2150 hydraulic excavator. Completely redesigned from the ground up, the 34,480 lb (15,640kg) TB2150 replaces the TB1140 SERIES 2 excavator to deliver greater functionality, performance, comfort, and serviceability. The TB2150 offers a maximum digging depth of 18 ft (5.5m), maximum dump height of 20.45 ft (6.2m), maximum reach of 28.75 ft (8.7m), and maximum bucket breakout force of 22,190 lb (10,065kg).

Powered by a Deutz TCD 3.6-liter turbocharged diesel engine that is U.S. EPA Final Tier 4 emission compliant, the TB2150 produces 114 hp (85kW), a 10% increase over the previous version. The engine utilizes a DOC+SCR diesel exhaust after-treatment system that requires the use of diesel exhaust fluid (DEF). The operator's station has been completely revamped with an automotive-style interior that is operator friendly. A spacious cabin features a heated-



deluxe-high-back-air-suspension-seat, and the new color multi-information display keeps the operator informed of machine performance. In addition, the excavator includes boom and arm holding valves, an overload alarm, and a new rear-view camera to view objects behind the machine on the color monitor. Serviceability and uptime have been improved by simplifying access to key maintenance. This includes a nearly 5% increase in fuel tank capacity and the engine does not have a diesel particulate filter (DPF) to maintain. In addition, the machine comes standard with Takeuchi's new telematics system, Takeuchi Fleet Management.

www.takeuchi-us.com

Size Matters with Gehl's V420

Gehl comes back to the market with the world's largest skid loader- the V420. This machine features a Tier IV certified Deutz 120-hp (89kW) engine and 4,200 lb (1,905kg) of rated operating capacity. For added performance for large jobs, the V420 offers 354 lb-ft (480J) of torque. With an operating weight of 11,665 lb (5,291kg), the V420 is the largest skid loader that is offered on the market today. The large skid steer loader comes standard with cab, heat and air-conditioning; 14-pin connector for easy attachment use; two-speed for travel around the jobsite; and Gehl's patented hydraglide™ for a smoother ride and less material spillage from the attachment. A vertical lift path of almost 12 ft (3.7m) allows for excellent dumping and loading performance. The V420 skid steer is configured to be a true tool carrier - coming standard with the features needed to operate attachments such as mulching heads, cold planers, rock wheels, and many more. High flow auxiliary hydraulics are standard equipment and offer hydraulic flows up to 41 gpm (155 lpm) for optimal performance. Five easily accessible auxiliary hydraulic lines with flat-face couplers are available on the front of the machine near the operator's station for easy access. The V420 cab is spacious





and comfortable for the operator with a suspension seat and pilot joystick controls. Excellent visibility is possible through a large, domed glass front door and wide side windows that can be opened for added ventilation or talk to co-workers. A foot throttle or hand throttle allows the operator to easily increase travel speed or machine functions. An optional rear-view back up camera provides increased visibility to the rear of the machine. Available in February, a radio with hands-free Bluetooth allows for the operator to make calls or easily stream music from another device for a customized environment.

www.gehl.com

Doosan to Debut New Tool Carrier at World of Concrete

Doosan Construction Equipment will display a variety of products at booth C5577 during the January's 2019 World of Concrete exhibition. Front and center will be the 142-hp (106kW) DL200-TC-5 Tool Carrier with a parallel-lift linkage system. With increased visibility down the center of the parallel-lift arms, operators can clearly see the ground, truck or work area in front of the machine when placing loads. In addition, the parallel-lift linkage system keeps the work tool flat as it is lifted rather than rolling back, an advantage when lifting pallets and other loads that need to stay level. The 25,794-lb (11,700kg) machine features a hydrostatic transmission, giving operators more power, improved fuel efficiency and better precision while working. Operators can choose between three power modes – power, standard and economy – that adjust the maximum engine rpm. Unique to the hydrostatic drive system, the engine rpm is not directly correlated to the machine's travel speed, so the maximum travel speed remains unaffected. Dump height from the bucket edge is 9 ft (2.7m), with 22,480 lb (100kN) of force. In addition, wheel loader operators can choose from three traction modes – max, traction control and S-Mode – to easily adjust traction force to match jobsite conditions for more efficient operation in digging, stockpiling and loading applications. The machine is also available in a high-lift option for additional lift height and reach to more easily load materials such as cement into high-sided trucks.

www.doosanequipment.eu

Attachment News from Bobcat—WS-SL20 Wheel Saw...

Bobcat is launching the new WS-SL20 Self-Levelling Wheel Saw, designed to cut efficiently through asphalt, rock, and concrete surfaces. The WS-SL20 is approved for use on the Bobcat S630, S650, S770, and S850 skid-steer loaders, and

the T590, T650, T770, and T870 compact track loaders. The WS-SL20 Wheel Saw has a variable segments wheel, which allows operators to quickly change the width in four steps between 2 in and 4 in (50mm and 120mm) in the field, instead of replacing the complete wheel in a workshop, saving approximately 10 hours in the process. The self-levelling feature on the WS-SL20 allows the attachment to follow and adapt to the contours of the ground and the new design means that a trench cleaner is no longer needed. Utilizing well-proven Bobcat components such as the ACD (with Bobcat Software) and valve block components, the new wheel saw has an integrated stabilizers system and a standard rubber shield for stone ejection/dust reduction. A water kit option is available for dust reduction. Removable deflectors are also a standard feature, allowing the WS-SL20 to operate as close as possible to the pavement edge.



...an Expanded Range of Self-Levelling Planers...

The 19.6-in (50cm) PSL50 and 42-in (1,066mm) PSL120 planers are designed for use with Bobcat high flow compact loaders. The 1,918-lb (870kg) PSL50 offers the same features as the existing PSL60 model with self-levelling, side-shift and tilting. The new 2,524-lb (1,145kg) PSL120 shares the same features as the existing PSL100 model, with self-levelling, side-shift and tilting and is ideal for road maintenance, where the increased width can provide 20% more productivity. The PSL50 and PSL120 planers offer cutting depths with a standard drum of 6.7 in (17cm) and 5.1 in (13cm) and maximum cutting angles left and right of +/- 15° and +/- 8°, respectively. Both planers are compatible with the Bobcat water kit, which also comes in two new versions to match the PSL50 and PSL120, respectively. In ad-



dition, the fully hydraulic design of the self-levelling planers ensures all functions can be controlled from the operator seat. The self-levelling system also offers the advantage of maintaining a constant planing depth, independent of the position of the planer, even, for example, when the loader lift arm position changes or when the loader drives over bumps or debris.

The new PSL50 self-levelling planer is approved for use on Bobcat S530H, S550H, S570H, S590H, S630H, S650H, S770H, and S850H skid-steer loaders; and the T590H, T650H, T770H, and T870H compact tracked loaders. The PSL120 120 cm planer can be used on the S630H, S650H, S770H, and S850H skid-steer loaders; and the T650H, T770H, and T870H compact tracked loaders.

...and a Rear Camera Kit

A Rear Camera Kit is now available for Bobcat® skid-steer and compact track loaders, providing the operator a continuous rear view of the machine to prevent contact with obstacles that may damage the loader and its components. Specifically designed and developed for compact loaders, the Rear Camera Kit includes a 4.3-in (109mm) LCD color monitor with a LED backlit screen, wiring harness, mounts and a tailgate-mounted camera that offers a 118° horizontal viewing angle and an 89° vertical viewing angle. Multiple screen and camera settings enhance the display image for optimal viewing in both light and dark conditions. The Rear Camera Kit system is integrated into the loader, activated when the ignition is turned on, and runs continuously as the loader moves in both forward and reverse motions. The display's integrated circuit protects the system against over and under voltage, spikes, ripples and load dumps. Shock and vibration resistant, the camera and display are qualified for all applications, including construction, and the kit provides heavy-duty metal housing and a rubber backlit keypad to protect components from hazards. An anti-glare, scratch resistant screen gives operators an optimal display image month after month. The system is rated for both dust and water exposure, and the camera's internal heaters remove condensation, snow and ice from the lens so operators have a clear view in all weather conditions and temperatures ranging from -40°F to 185°F (-40°C to +85°C).

www.bobcat.com



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M&T Expo 2018 in Brazil Exceeds Expectations

The 10th M&T Expo for construction and mining was held from November 26-29, 2018 at the São Paulo Expo exhibition and convention center. A total of 800 national and international brands from 19 countries were represented. Falk Senger, managing director of Messe München, notes the success of its first M&T Expo that has confirmed its decision to invest in the country. "We are very impressed by the strong interest of the exhibitors in this event," Senger says. M&T Expo has a key role to play for the construction machinery segment in Latin America."

"M&T Expo a barometer for the industry"

According to Afonso Mamede, president of the Brazilian Association of Technology for Construction and Mining (Sobratema), M&T Expo is key in promoting new technologies for the construction and mining market, and acts as a barometer for the industry.

"Equipment manufacturers, as well as components and services suppliers, present a wide range of products at the trade fair," Mamede says. "The user knows what is new in the industry and, at the same time, has better conditions to negotiate the purchase of machines."

This year, Sobratema's analysis of the Brazilian construction equipment market sees market recovery, with an estimated growth of 38% compared to 2017. In total, 17,800 units will be sold in 2018 against 12,900 units the previous year.

"Certainly, the fair will contribute to this good result, like in previous editions, when it helped to revert the impacts of the economic crises experienced by Brazil," Mamede says.

For the vice president of Sobratema, and president of Escad Rental, Eurimilson Daniel, the timing of M&T Expo was perfect. "People are more optimistic, and expectations about new infrastructure projects are much higher," he says. "We are living a moment that exceeded our expectations. The sales are soaring, and the staff was very pleased with the results achieved."

Adds Luciano Rocha, Komatsu general manager, sales and marketing, "Our booth was always full of customers. And having so many visitors at this time of the year was amazing. Most importantly, we received highly qualified



customers which were very interested in purchasing equipment."

Cristian Galaz, Manitowoc vice president of sales for South America, highlights the strong presence of visitors from other countries. "We received visitors from Bolivia, Peru, Chile, and other countries," says Galaz. "For us, this is an excellent opportunity to display our models of cranes that are perfectly suited for jobs in the region."

Three new attractions

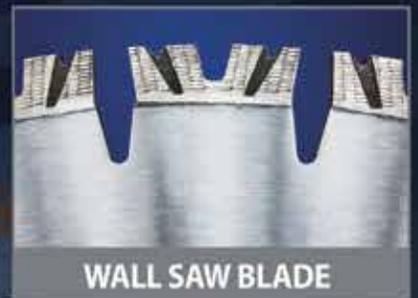
To provide a complete visitor experience, Messe Muenchen of Brazil created three new attractions at the fair. At the Demonstration Arena, various newly launched machines were shown live. The Content Arena enabled visitors to attend 28 market presentations by representatives from well-known consulting companies from Brazil and abroad, plus listen to technical presentations by manufacturers and suppliers. The Smart Construction Arena showed the latest trends in technology and innovation in the industry. Among the solutions to be presented were drones, automation systems, lubrication systems, electronics, machine control solutions, 3D printing systems, as well as safety solutions for load handling equipment and innovations for collaborative work. The next M&T Expo is scheduled for 2021 at the same location.

www.mtexpo.com.br



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DOWN WITH DUST

Every contractor likes the idea of “kicking up some dust,” as it usually implies that there’s work to be done. On the flip side of that term, of course, are the many airborne hazards that result from all that activity—risks to workers’ health, potential regulatory violations, obscured vision around a hectic jobsite, angry neighbors...the list goes on and on. PDA’s Jim Parsons reports on new dust suppression systems for the worksite.

That’s why tooling up for any job should include due consideration of what dust control tools and technology are best for a particular assignment. As with any other construction and demolition tool, contractors can’t afford to simply “go through the motions” of setting up a dust suppression strategy. What may appear effective at first glance may, in reality, fall far short of fulfilling the desired results. And with tight schedules, efficiency, and cost consciousness a part of nearly every job today, a contractor can’t afford to divert time and resources to addressing issues arising from an underperforming dust suppression system.

The products profiled below are a good place to begin that oh-so-valuable research into the dust suppression system that will best fit your needs in the coming year. Along with effective performance, the models typically offer the advantage of flexibility and low maintenance for deployment in a variety of settings, plus long, reliable service that will further maximize the investment.

So as you get ready to kick up some dust in 2019, take a look at some of the innovative ways you can kick it down and keep it down too.

EmiControls New V12s: A New Design for World’s Quietest Dust Controller

After the huge success of the restyled V22 last year – EmiControls biggest dust controller – the silent unit V12s was now the next in line to receive a new design. The biggest difference is the size. The new V12s is much smaller, making it easier to transport and integrate into existing systems, yet with the stability and robustness to operate in challenging conditions. The machine can be started and rotated much faster. Angles can be quickly adjusted and there are three different water consumption speeds available. The water pressure is now higher too and makes it possible to create an even finer water mist to abate the dust more effectively. At the same time all functions known from the previous model are still the same: the specially developed turbine is particularly quiet with a noise

emission of 63 dB(A) within a radius of 66 ft (20m). The turbine works with two speed levels, so it has the possible flexibility to spray fine water mist from 98 ft to more than 180 ft (30m to more than 55m). Thanks to a sophisticated valve technology, the amount of water can be controlled by remote control on three levels. Water



flow is 4-26 gal/min (16 - 100 liters/min). The silent V12s is ideal for work in city centers or areas where noise levels are kept low. Furthermore, its perfect for all kind of industries, demolition, all types of quarry, recycling plants, material warehouses, loading facilities, landfills and wood processing. The V12s can be installed on various mobile or fixed bodies, and is available with heating for winter operations. Other features include a horizontal pump with pressure monitoring and automatic emptying for the right water pressure, and an easily accessible and water filter for quick cleaning. Special nozzles with ceramic inserts for out-of-phase spraying are also available. EmiControls will display the V12s at Bauma 2019 in Munich, along with other products providing new and innovative solutions for dust abatement.

www.emicontrols.com

BossTek's New Mobile Dust Suppression Design: Rugged Construction, Compact Size

BossTek announces the debut of the DustBoss® DB-30 Fusion™. The new design is a versatile and transportable atomized mist unit, engineered with a workhorse electric motor and 30 KW generator. Permanently mounted on a rugged road-worthy trailer, the company's Fusion lineup is proving to be a popular and effective means of delivering powerful dust suppression technology to sites that lack a convenient power source. Unlike its larger siblings, water is supplied to the DB-30 Fusion by a standard 5/8-in (15.8 mm) garden hose, so it can be used at any location with a working hose bib. Equipped with an in-line 75 mesh, 200-micron filter, the unit can also be specified with special filtration to accommodate non-potable water sources. With an adjustable throw angle of up to 50° of elevation and a range of approximately 100 ft (30m) in calm conditions, the standard configuration includes user-definable 359° oscillation, allowing the unit to cover as much as 31,000 ft² (2,880m²) with a powerful dust-trapping mist. The new design can also be optimized with a Variable Frequency Drive (VFD) to precisely adjust fan speed. An optional dosing pump is available for precise metering of additives to even further enhance particle control.

The extremely water-efficient design consumes just 2.5 gallons/min (9.5 liters/min). Compare that with competing dust control methods such as manual spraying that can use hundreds of gallons per minute, resulting in over-saturation, run-off concerns and higher water costs. A touch screen panel for controlling the DB-30 Fusion is encased in a NEMA 3R cabinet, allowing operators to control oscillation, fan and water. The cabinet is constructed for outdoor use, designed to provide protection against solid foreign objects (e.g., dirt), air (dust, emissions), water (rain, sleet, snow) and ice formation. Maintenance requirements for the new design are minimal, even though the unit carries an industry-leading 3-year/3000-hour warranty on the dust suppressor and a 2-year/2000-hour warranty on the gen set. If potable water is being used, nozzles typically need to be inspected just once per year. The turntable bearing on the oscillator should be greased annually or as needed for harsh service conditions and the fan motor should be lubricated every 10,000 hours. Like any diesel engine, the gen set should have regular inspections and changing of oil, coolant and filters. BossTek also offers a full line of surfactants, tackifiers, and odor control additives that are fully compatible with the equipment.

www.bosstek.com



A new addition to Leotech's MOTOFOG line

Leotech extended its patented MOTOFOG range of products in 2018 with the new top model, the MF 60D. The MF 60D offers all the key features needed for big demolitions, starting with its powerful diesel engine driving a high-pressure pump on board, making it a fully autonomous unit. Just plug it to any water supply—either pressurized lines or water tanks. The unit is very compact, to the point that it can easily be transported with a common pick-up truck. Once on site, the 60D is very versatile, and easy to move and handle. MF 60D is provided with a spraying head that can be electrically tilted around two axes (up-down, left-right), even with an automatic

horizontal rotation. A radio remote controller can handle all the main functions, including the possibility to adjust the power and the operative range of the water jet and the engine start/stop. With the MF60D, users can cover a horizontal range of up to 180 ft (55m). Using the unit's Dual Jet technology, users can select between a long narrow jet and a wide and shorter one, to better adapt to the different needs of the construction site.

All these features, compared to the traditional approach with fan-based units represent a huge advantage in terms of performances and result, entailing major economic savings, as well as time savings. (Leotech itself was the first to invent and manufacture fan-based machines back in 2001). Based in northern Italy, Leotech is growing rapidly and is getting more and more appreciated all over the world. See the complete line of MOTOFOG products at Bauma 2019 in Munich, Stand C5/138.

www.leotechdust.com

Fogco Continues Its Pioneering Leadership in High-Pressure Fog and Misting

Fogco has been the industry leader in high-pressure misting systems and dust suppression products for nearly 30 years. They company's



exclusive line of Fogco FogCannons™ was developed with the customer in mind. This highly engineered and heavy-duty steel-framed product line is designed for large commercial and industrial dust control applications. These specialized products are unique to the industry, and can provide effective dust suppression for areas up to 250,000 ft² (23,226m²). All Heavy-Duty models is the ability to oscillate to 340°. The unique engineering and design elements of our HD line feature a Cast Ring System with stainless steel nozzles.

Fogco also offers a standard direct drive or pulley drive pump range as well as completely customized units. Custom pump options include the addition of variable frequency drive, programmable logic controllers (PLC), 1-phase or 3-phase voltages, multiple zones, and remote control. The pumps can be integrated on-site with existing controllers or low voltage signaling. Fogco's prefabricated fog lines provide several options including robotic welded stainless steel and soldered copper with various different nozzle spacing options. The company also offers a versatile do-it-yourself fog line using proprietary slip-lock fittings and nylon tubing.

Fog lines are not always the ideal solution for distributing the fog so we have developed a wide range of cooling and humidification misting fans for areas as small as a few hundred square feet to areas over 3,500 ft² (325m²). Fogco has also created several specialized humidity and temperature controllers, standard and cleanable misting nozzles, and a "dry fog" air injection system making Fogco a one-stop shop for all mist-related applications.

www.fogco.com



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Evolution of Mobile Shears According to

BRUCE | BACON

Bruce Bacon, the founder and managing director of US-based attachment specialist ShearCore, is a demolition industry icon. Having started his career back in the early 80s, he did not only witness the evolution of attachment manufacturing techniques but helped shape it. And, according to him, that was exactly that - an evolution. PDA's Andrei Bushmarin recorded Bruce's version of how mobile shears were invented and put in demolition and recycling practice.

The very first approximation of what we know now as mobile shears was an adaptation on the 3-tine grapple invented by Roy LaBounty. A customer of Roy once asked for an attachment that could cut and rip apart car and truck tires. The customer wondered if it would be possible to put blades in the jaws and use the force of the grapple to cut up tires.

The first shear

Roy, being an open-minded person, agreed to try that. He took a CAT 225 stick, put a bigger cylinder on it, affixed a lower jaw to the stick with a stiff arm, and made an upper jaw with blades to cut steel. The prototype did work but with some obvious malfunctions—the stick broke and the upper jaw wandered and jammed. To overcome these challenges, a customized heavy-duty stick of a shear, with a bit larger main shaft, was devised along with the “puck” (aka, the auto guide) to help keep the jaw in alignment. The next advancements involved the cylinder container “inside” the body, then rotation.

When Bruce left LaBounty to create Genesis Equipment in 1997, his team continued improving the shears' design. Regeneration, higher power-to-weight ratios, faster cycle times, bolt-on replaceable piercing tips – all those features became the industry's standards. When the time of ShearCore and the Fortress range came, both the new company and its tools were bound to be a success thanks to decades of accumulated experience. Working alongside Bruce are lead designer Ross Christenson and production manager Jim Campbell who have years of the



Bruce Bacon, Shearcore.



industry know-how that very few people on the planet possess. Ultimately, successful evolution in design occurs when knowledge and experience are combined with a willingness to push the boundaries.

And that is exactly what engineers at Shearcore have been doing over the years. The biggest problem they are up against now is capacity. Although ShearCore has increased production capability by 200% over the past two years by adding another five axis machining centers, the backlog keeps piling up. The global scrap recycling market is in good shape and is thought to stay that way throughout 2019. What is really in short supply, though, is skilled labor, and that presents a serious challenge to all industry players.

Fortress FS95R: toughest kid on the ShearCore block

The latest and perhaps the most impressive brainchild of Christenson and Campbell is the Fortress FS95R model. Weighing in at 10t, the shear boasts a 3.6-ft (1.1m) jaw that can easily pierce a 1-in (25mm) steel plate. It is the toughest kid in the ShearCore product family, of which a

UK user said “it punches above its weight”. The size of pivot assembly was increased by as much as 40%, leading to better cutting stability. Thanks to its advanced milling capabilities, the US-based family-owned manufacturer is now able to produce mobile shears with a 6-ft (152mm) high-tensile steel plate such as the Fortress FS95R.

www.shearcore.com

Trevi Benne's 'Marilyn' loves old cars

The “Marilyn” shear from Trevi Benne of Italy is not only suitable for heavy-duty industrial demolition, but for such delicate tasks as car dismantling as well. Given the strict rules they have for end-of-life vehicles, dismantling of a car is a complex multi-stage process. First, one needs to remove parts and units containing dangerous chemicals - radiators, coolants, engine and transmission oil. This stage is followed by the disassembling of the engine, axles and transmission, and only after that a special tool like the Marilyn CS 40RS shear can be used on the remaining metal parts. Weighing in at 4t, this model features a jaw specifically designed for smooth and uniform cutting of steel elements.



TSRC multishear: an all-round solution from Okada

In 2017, Japan-based attachment specialist Okada launched the TSRC series of multi-purpose shears. The new tools, which are equally capable of demolishing reinforced concrete and straight steel structures, are reported to have become very popular with users since their launch. Originally designed for primary demolition tasks, the TSRC shears also feature purpose-made blades allowing for easy shearing of thick steel plates. Okada's Japanese supplier believes that the all-round qualities of the TSRC series make them a good proposition for both demolition contractors and scrap recyclers.

www.okada-aiyon.com

Rotar to launch its biggest model so far

Having first entered the scrap shear segment over ten years ago, Netherlands-based Rotar keeps expanding its range with new models. In 2019, the current five-model line



Jim Campbell, Shearcore.



Ross Christenson, Shearcore.

www.demcon.se

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ranging in weight from 2.5t to 8.5t will be complemented with addition of the RSS 150 – Rotar's biggest shear so far.

Weighing in at 12.5t, the RSS 150 bears all trademark features of a Rotar shear: a fully encased replaceable piercing tip, a robust rotating headpiece and outsized double-rowed slewing ring allowing for the shear to be positioned in any desired way. A specially-designed hydraulic cylinder speeds up the jaw's work cycle and permits the tool to switch quickly from speed to power mode. Double hose connection and large diameter of hoses, bores and pipes contribute to optimization of the oil flow. All parts of the attachment are made from wear-resistant high-grade materials.

www.rotar.com

Recycler from 'Down Under' chooses Hydraram

In October 2018, Hydraram's Finnish partner Minimum Oü delivered two units of the HSS-70RV scrap shears to C.D. Dodd Scrap Metal Recyclers located in Perth, Australia. One of the continent's leading scrap metal recycling companies owned and managed by Chris Dodd, it has been using Hydraram attachments for over three years now.

Courtesy of Liebherr Australia, the shears were presented to the customer already fitted on to the main booms of two Liebherr 936 excavators. With an operating weight of 36t, the Liebherr crawlers have no problem handling the 7t shears. The excavators' hydraulic system, which provides an oil flow of 129 gal/min (490 liters/min) and a



working pressure of 5,511 psi (380bar), matches perfectly the shears' operational parameters. With a jaw opening of 2.7 ft (845mm) and a maximum cutting force of 815t, the HSS-70RV is designed for most challenging recycling tasks.

www.hydraram.com

Green Attachments introduces tilt rotator-mounted model

Specialist contractor Honkalan Paja is using a Yellow S06



scrap shear from Green Attachments on one of its projects in Finland. What makes this particular model special is the fact that it is adapted for a tilt rotator. Capable of not only rotating but also tilting, the shear provides users with another operational dimension. Weighing in at 1,411 lb (640kg), the Yellow SH 06 is a compact-sized model fitting 7t-12t excavators. It is the first shear of this kind in the Finnish supplier's catalogue, who at the moment offers a grand total of 11 models designed for 7t to 130t carriers.

www.greenattachments.com

Prodem launches next generation of dedicated scrap shear

Suitable for 3.5t-310t carriers, the new generation of dedicated scrap shear from UK-based supplier Prodem now offers 20% more cutting force thanks to its powerful cylinders. The shear's other highlights include a speed valve, a bolt-on piercing tip and reversible blades. An innovative design reduces stress and wear to the upper jaw, and the blades can be turned up to four times before replacement. The shear's cylinder is accessed via bolt-on access panels, making it easy to service and maintain. On top of that, a weld-on upper jaw protection system reduces maintenance and build-up on the upper jaw, thus minimizing tool downtime.

www.prodem-attachments.com



Wimmer shears bite hard

Designed to withstand the harshest working environments, the Top Cut 700 shear from Austria-based Wimmer comes in four sizes to fit 16t-75t excavators. The attachment is supplied with five types of exchangeable jaws, which allows it to tackle a wide range of demolition and recycling tasks. Another flagship model in the Wimmer range is the universal "Quick-Cut" shear. Thanks to its simple no-frills design featuring only one cylinder, maintenance is fast and simple and wear parts can easily be exchanged.

www.wimmer.info



Indeco's ISS range

The scrap shear portfolio of Italy-based Indeco currently counts six models that fit 8t-90t machines. Made from HARDOX steel, the ISS shears feature reversible blades, the regeneration valve and the integrated dual guiding system. The interchangeable "quick-change" wear bushings ensure that the blades are optimally aligned at all times. The heavy-duty pivot group provides sustainable cutting efficiency, keeps jaws aligned and prevents buckling. The hydraulic cylinder, whose seals are designed to withstand the pressure of up to 10,156 psi (700bar), generates



enough force to deal with any shearing task. All models boast a 360° hydraulic rotation option. The mounting bracket for the second member configuration is used to mount the shear straight onto the excavator boom. In this configuration, ideal for recycling of ferrous material, a larger attachment can be mounted on a relatively small carrier. The universal baseplate for the second member-mounting brackets is compatible with all carriers. The third member-mounting bracket is used to mount the ISS on the carrier stick for heavy-duty demolition applications.

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Informa Exhibitions, U.S. reported already in May 2018 that its space draw at that stage for World of Concrete 2019 secured just over 970 exhibitors booking more than 676,000 net ft² (62,800 m³) of exhibit space.

PDA Magazine does not have most up-to-date exhibitor figures, but we are anticipating a significant growth from World of Concrete 2018 with at least 100 exhibiting

companies. World of Concrete 2018 was the largest event in nine years, with 58,000 registered professionals featuring 1,564 leading-industry suppliers exhibiting across more than 746,000 net ft² (69,305 m³) of space.

"We are anticipating another exciting event for 2019," says Jackie James, Group Director of World of Concrete. "This space draw has surpassed expectations in square footage, and we are confident the 2019 event will be a strong event for both exhibitors and attendees. We look forward to serving the concrete and masonry industries with this annual international platform to network, source, and receive valuable education to start the year off strong."

Visitors will note several changes to the show floor for 2019. The Masonry area has been moved to the Central Hall, and Technology to the North Hall, both to accommodate these growing sectors. "We look forward to filling what is left in available booth space throughout the summer and fall, culminating in another

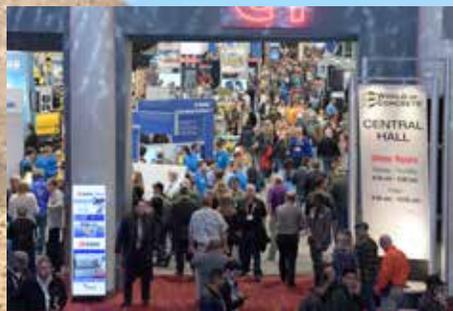
action-packed event for our attendees," says Kevin Archibald, Show Manager.

World of Concrete 2019 will feature a week of exciting new products, the latest equipment, cutting-edge technologies, exciting spectator events and competitions, and more than 150 educational sessions including luncheons, interactive workshops, hands-on training, and industry and hands-on training.

World of Concrete is the biggest show in the world after Bauma in Germany to gather most global players in the fields of concrete sawing and drilling, concrete floor grinding and polishing, demolition, hydrodemolition, concrete dust and slurry extraction, mobile recycling and screening and related sectors.

On these pages you find valuable information about the show long with a list of exhibitors at WOC 2019 related to the industries covered by PDA, which will exhibit in booth C4222 in the Central Hall. Come see us!

www.worldofconcrete.com





WORLD OF CONCRETE®

Selected List of Exhibitors

Exhibitor Name	Booth#			
Advanced Concrete Technologies Inc	N863	Dustless Technologies	S12555	OTTO BAIER GmbH
Advanced Equipment Inc	C4365	Dynamic Diamond Tooling	O40719	Paladin Attachments
Airtec - Marindus	O32043	Eagle Industries	S12717	Palfinger North America
Allen Engineering Corp	O31736	Epiroc USA LLC	C4103	PDi Magazine PDA Magazine
Allen Engineering Corp	O31744	Eriez	C7508	Pengo
American Honda Motor Co.	C4341	Exin Diamond New Material Co.,LTD	S11045	PR Diamond Products, Inc.
American Honda Motor Co.	O31200	E-Z Drill Inc	C6486	Professional Construction Products
American Shotcrete Association	S11038	Fuzhou BonTai Diamond Tools Co., Ltd.	S11618	Putzmeister America, Inc.
American Society of Concrete Contractors	C4511	Gehl Co	O31054	Ritchie Bros. Auctioneers
AmeriPolish, Inc	O40835	GelMaxx	O31362	Robert Bosch Tool Corporation
Antraquip Corporation	C4231	Geophysical Survey Systems Inc	N1864	Runyon Surface Prep Rental & Supply
AUSA Corporation	C6349	Global Polishing Solutions	S10515	Sanders Saws
Autec North America	C7286	GOLZ GmbH	S12313	SANY America
Avant Tecno USA	C6877	GOMACO Corp	C5150	SASE Company,LLC
Aztec Products Inc.	O40949	Gorilla Concrete Tools	S13712	Scanmaskin Sweden AB
BlastPro Manufacturing, Inc.	S11707	Hatz Diesel of America Inc	C6113	Scanmaskin Sweden AB
Blastrac	S10314	Hilti, Inc.	C4840	Scanreco
Bobcat Company	C5377	Hilti, Inc.	O30699	Scencore Diamond Tools
BossTek	C7761	Hilti, Inc.	O30700	Scencore Diamond Tools
Briggs & Stratton Corp	O31418	Husqvarna Construction Products	O30166	Scencore Diamond Tools
Brokk Inc. and Aquajet Systems AB	C4249	Husqvarna Construction Products	C4537	Sensera Systems
Carhartt, Inc.	C5703	Husqvarna Construction Products - HTC	O30650	Sensors & Software Inc
CASE Construction Equipment	C5744	Hyundai Construction Equipment	C7027	Simex s.r.l.
Chicago Pneumatic	O31560	ICS, Blount Inc	O31174	SKILSAW Power Tools
Conjet AB	C4030	IMER USA Inc	S12539	Stihl Inc
CS Unitec Inc	O31263	Inland Diamond Products, Inc	S13932	Sunbelt Rentals Inc
CSDA	C4433	International Concrete Repair Inst	S10938	Superabrasive, Inc.
Cummins Inc.	C7673	International Grooving & Grinding Assn (IGGA)	C4328	Superabrasive, Inc.
Cyclone Technology LLC	O31322	Jetstream of Houston LLP	C7301	Superabrasive, Inc.
DDM Concut Diamond Tools	C4519	John Deere Construction & Forestry	C5451	Surface Plus
DEUTZ Corp	N1837	Jon-Don	O31434	Syntec Diamond Tools
DEWALT	O30660	JS Floor Systems	S10549	Terrazzo & Marble Supply
Diamabrush by Malish	O40627	K2 Diamond - Sanders Saws & Blades	S13313	Terrco, Inc.
Diamatic / Blastrac	O40859	Kaesser Compressors, Inc.	C7359	The Mud Hen
Diamond Blade Warehouse	S11413	Kärcher North America	O30955	TITAN DIAMOND USA
Diamond Productions Canada, Ltd.	S12617	Kingthai Diamond Tools Co., Ltd	C4974	Toku America
Diamond Products	C4880	Kinshofer	C6888	Tru-Cut Inc.
Diamond Products	O32170	Klindex	O40718	US Saws
Diamond Products	O32170a	Liebherr USA, Co.	C6277	US Saws
Diamond Speed Products, Inc.	S13339	LISSMAC Corporation	O31348	US Shotblast Parts & Service Corp
Diamond Tools International	S12313	Liugong North America	C6926	Volvo Construction Equipment NA Inc
Diamond Vantage	C4439	Makinex USA LLC	S13307	Volvo Trucks
Diamond Vantage	O31569	Makita USA, Inc.	O29942	Wacker Neuson Corporation
DiamondBack Diamond Tools Inc.	S14319	Makita USA, Inc.	O29950	WerkMaster
Digga North America	C6072	Makita USA, Inc.	O30135	WerkMaster
Digga North America, LLC	C5979	MALA GeoScience USA, Inc	N1842	Western Shotcrete Equipment
DITEQ Corporation	C4657	MB Crusher America, Inc.	O30966	Wirtgen America
DITEQ Corporation	O31864	Merit Engineering & Equipment Co.	O31271	Wirtgen America
Dongying Jiangxin Grinding Tool Co.,Ltd	S11312	MFG Construction Products	N2119	World Diamond Source Inc
Dongying Raizi Tool., Ltd	S11213	Milwaukee Tool	CE506	Xiamen Kaiyuan Diamond Tools Co.,Ltd
Doosan Infracore North America	C5577	Montabert & Geith	C4009	XIAMEN M&R DIAMOND TOOLS,LTD
Dustcontrol USA	S11907	Multiquip Inc	C4802	XIAMEN METOOL DIAMOND TOOLS CO.,LTD
Dustless Blasting	S14013	Mustang by Manitou	O31054	Xiamen Taiying Diamond Products Co., Ltd
		National Flooring Equipment	S10805	Xtreme Engineered Floor Systems, Inc.
		New Grind Inc	O31246	Xtreme Polishing Systems
		NOVA DIATOOLS CO.	S13629	ZipWall LLC
				O30068
				C5861
				C5803
				C4222
				C4621
				N2871
				S14313
				C5726
			NL13	C4016a
				O30200a
				S12339
				S13313
				C7413
				O40827
				032144
				S11639
				N2463
				C4547
				C4547a
				C4547b
				N2256
				N1251
				C7077
				O31752
				C4631
				S13451
				O30950
				O31046
				S10539
				B51338
				S13707
				S13316
				O32140
				O40843
				C7090
				C7540
				S12351
				O32159
				S11115
				S12238
				C7013
				C7013
				O31611
				O31648
				S12115
				C7327
				B51404
				C5426
				S10905
				S11345
				S12320
				S11347
				S11508
				S13407
				S13152
				S13427



EXHIBITS: JANUARY 22-25, 2019
SEMINARS: JANUARY 21-25
 LAS VEGAS CONVENTION CENTER



- Information Center
 - Accessible Parking
 - Visitor Parking Entrance
 - LVCC Security
 - Food Court
 - Entrance/Exit
 - First Aid
 - Registration
- North Hall Hours:**
 Sunday: 11:30 a.m. - 6:00 p.m.
 Monday-Thursday: 7:00 a.m. - 6:00 p.m.
 Friday: 7:00 a.m. - 12:00 p.m.
- South Hall Hours:**
 Sunday: 11:30 a.m. - 4:00 p.m.
 Monday-Thursday: 7:00 a.m. - 4:00 p.m.
 Friday: 7:00 a.m. - 11:00 a.m.
- Grand Concourse Hours:**
 Monday-Thursday: 7:00 a.m. - 6:00 p.m.
 Friday: 7:00 a.m. - 6:00 p.m.
- Concrete Surfaces & Decorative
 - Decorative Concrete LIVE!
 - Bronze Lot**
 - Outdoor Exhibits & Events
 - SPEC MIX BRICKLAYER 500® World Championship
 - SPEC MIX Toughest Tender
 - Western Star Trucks Get Tough Challenge
 - John Deere Operator Challenge
 - Masonry Innovations & Workforce Development Zone
 - MCAA Masonry Skills Challenge
 - MCAA Fastest Trowel on the Block Challenge
 - WOC Certification & Training Area (Paid Conference Sessions)

legend

- WOC OFFICIAL MERCHANDISE
- 2019 REBOOK OFFICE
- TAXI
- HOTEL SHUTTLE BUSES
- ENTRANCE
- BADGE PICK-UP

2019 Exhibit Hall Hours

Tuesday, Jan. 22 - Thursday Jan. 24
 9:30 a.m. - 5:00 p.m.
 Friday, Jan. 25:
 9:00 a.m. - 12:00 p.m.

2019 WOC Education Program Hours

Monday, Jan. 21 (Pre-Show Education All Day)
WOC 3-Hour Seminars:
 8:00 a.m. - 11:00 a.m.;
 1:00 p.m. - 4:00 p.m.

WOC 4-Hour Certification Seminars:

8:00 a.m. - 12:00 p.m.

WOC 90-Minute Seminars:

8:30 a.m. - 10:00 a.m.;
 10:30 a.m. - 12 p.m.
 1:30 p.m. - 3:00 p.m.; 3:30 p.m. - 5:00 p.m.

Tuesday, Jan. 22 - Thursday, Jan. 24

WOC 3-Hour Seminars:
 8:00 a.m. - 11:00 a.m.

WOC 4-Hour Certification Seminars:

8:00 a.m. - 12:00 p.m.;
 12:00 p.m. - 4:00 p.m.; 1:00 p.m. - 5:00 p.m.

WOC 90-Minute Seminars:

8:30 a.m. - 10:00 a.m.;
 1:30 p.m. - 3:00 p.m.

Friday, Jan. 25

WOC 3-Hour Seminars:

8:00 a.m. - 11:00 a.m.

WOC 90-Minute Seminars:

8:30 a.m. - 10:00 a.m.

Future Show Dates

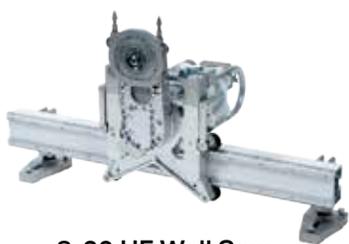
WOC 2020: February 4-7; Seminars 3-7



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