

Demolition Americas

PROFESSIONAL

Your Gateway to North, Central and South America

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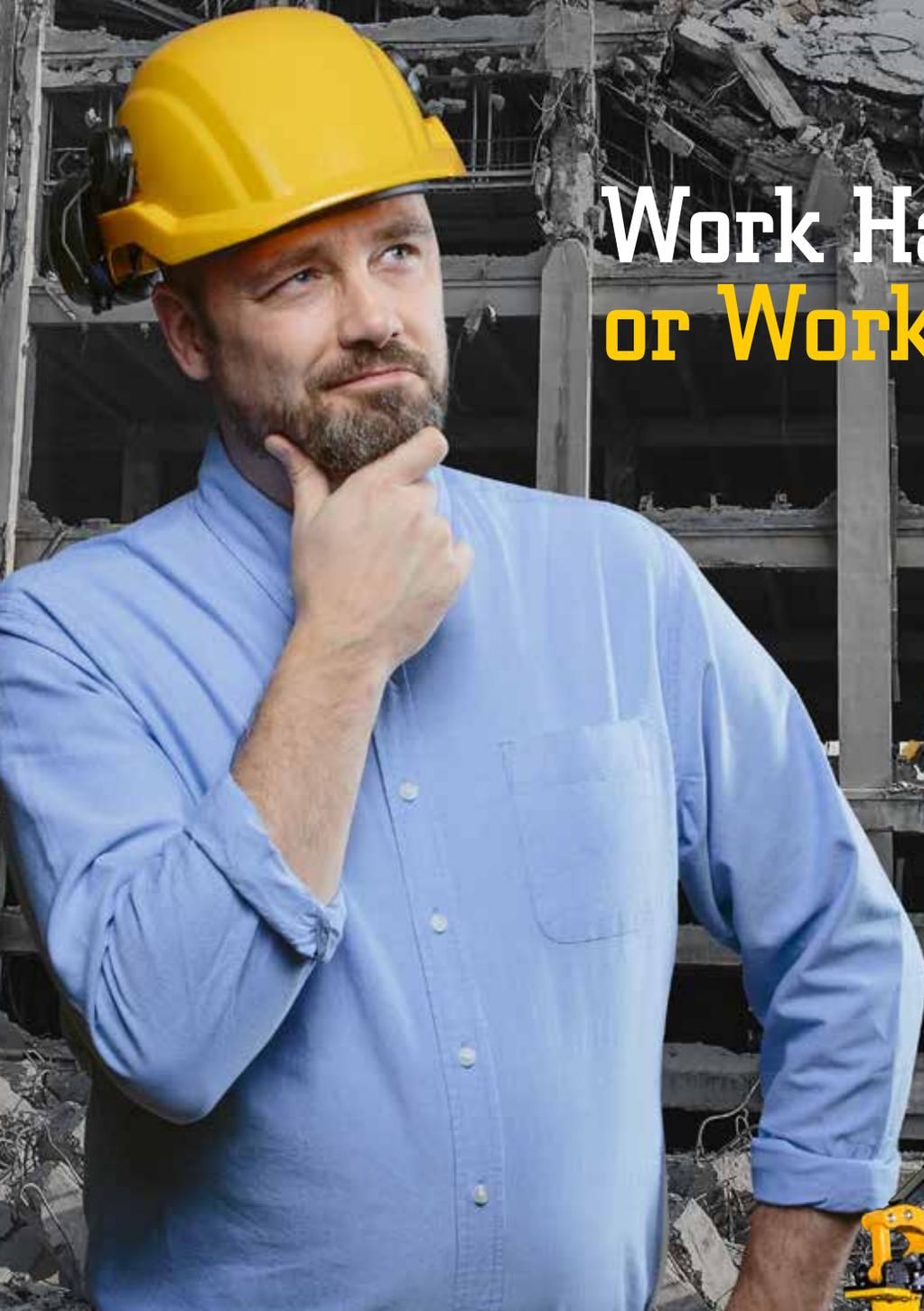
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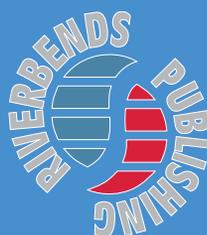
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"GREAT (UN) EXPECTATIONS"

Snow? On the first day of Spring?

Yes, it happened in several Mid-Atlantic states earlier this year.

True, early Spring snowfalls aren't unusual for some locations. But they're certainly not the norm for a region where March calendar pages typically boast cherry blossoms and baseball practice.

Still, it's a good reminder that contractors, like other small businesses, are always vulnerable to a curveball from Mother Nature—a deluge that overwhelms floodplains, sudden outbreaks of tornados, and—particularly in the Southeast US—hurricane season.

In the best-case scenario, the most a contractor will deal with are shuffled job schedules and routine post-event clean-ups. More troublesome are the not-so-good-case scenarios—those that could cost everything invested in a construction business over the years.

Recovering from such an outcome could take months, years, or never. Planning and preparing for a disaster, on the other hand, requires only a few hours and some well-made decisions. To get started here are some disaster planning considerations from the SCORE Association, an affiliate of the U.S. Small Business Administration:

Step 1: Identify Risks

Don't limit yourself to weather events. Consider incidents specific to your business, such as a burst pipe that floods your building, a loose wire that ignites a fire, or a major equipment failure. Your insurance agent can work with you to identify these risks, and determine those that are most important to protect against.

Step 2: Identify Key Business Functions

What business operations are mission-critical to keeping your business up and running? For example, being able to communicate with customers, suppliers, maintenance vendors, or other project-specific contractors is a critical business operation, as is paying employees and vendors.

Step 3: Identify a Disaster's Potential Impacts

Finally, consider how each type of disaster on your list might affect those critical business operations and your business as a whole. If a fire damaged your print or computer records, how would you process invoices or proceed with jobs? If floods kept some of your key employees from getting to jobsites, how would you serve clients?

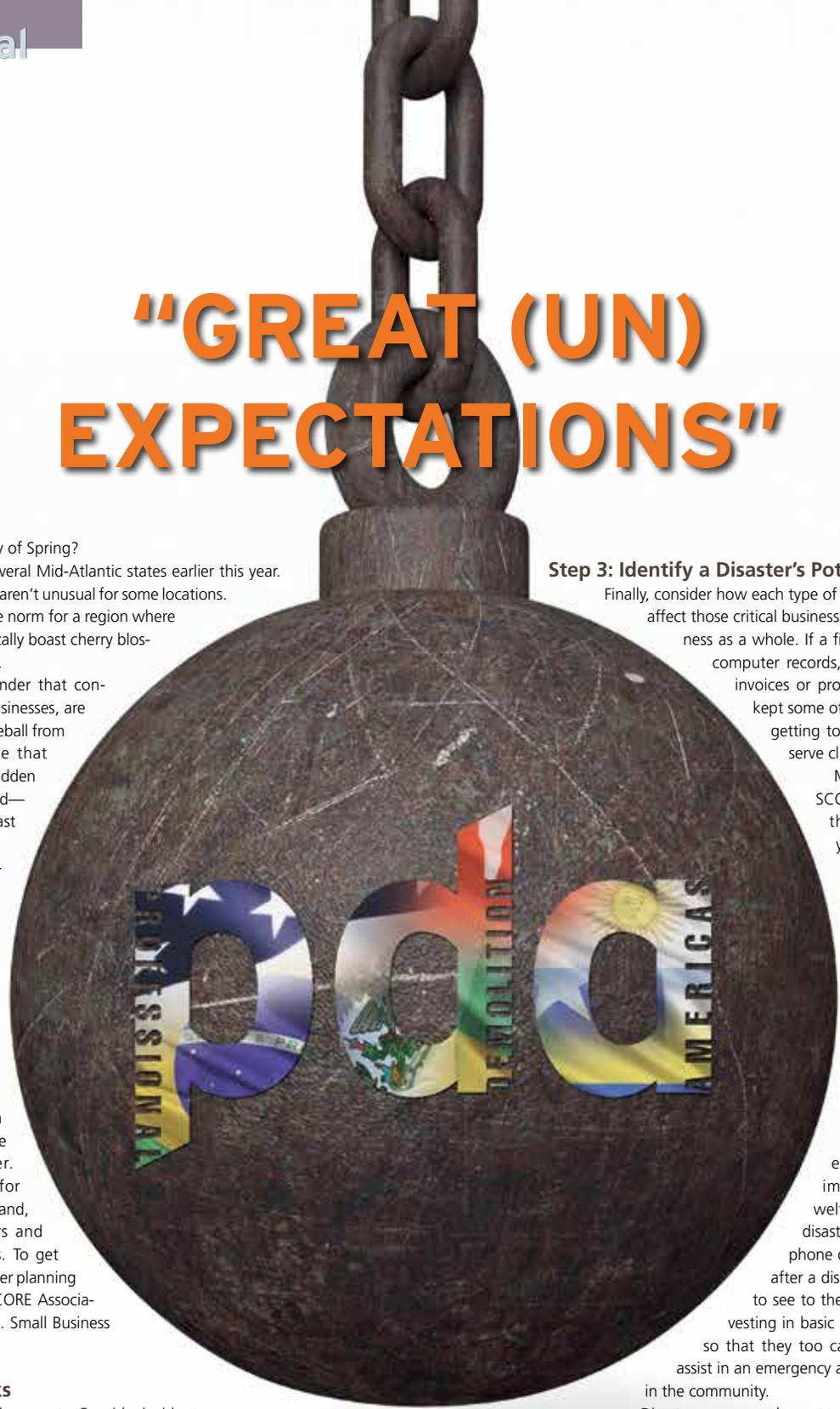
More important, notes SCORE, consider how would these disruptions impact your business as a whole? Negative impacts could include lost or delayed income, resulting in insufficient cash flow to cover expenses. You might also have to deal with dissatisfied customers, or be faced with new expenses such as securing temporary employees or equipment to finish a job.

As employees are every contractor's most important resource, their welfare should be part of a disaster plan. Steps can include phone or text "trees" to check in after a disaster; affording extra time to see to their families' safety; and investing in basic First Aid and CPR training so that they too can be better prepared to assist in an emergency at home, on the jobsite, or in the community.

Disasters are never pleasant to think about. But preparing for them will make it far easier to take positive action if and when they do occur. And even if the "worst" never happens, you might well be able to offer valuable guidance to affected colleagues and friends who may find themselves at loose ends.

You'll also enjoy another valuable benefit—peace of mind, which will make it easier to focus on your jobs, your family....and why there are suddenly snowflakes falling outside.

Jim Parsons, Senior Editor
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A Revolutionary Demolition Tool Turns 50!

Darda GmbH from Germany's Black Forest has been known for its special-purpose hydraulic demolition equipment worldwide for decades. And last year, the company's revolutionary Rock and Concrete Splitter celebrated its 50th anniversary on the market.

The Darda Rock and Concrete Splitter is a hand-held demolition tool that splits any kind of stone and even concrete in a controlled way using hydraulic pressure. Powered by a hydraulic unit, there are four sizes available on the market today depending on the application.

According to inventor Helmut Darda's sons, the idea for the demolition tool came during a visit to a quarry, where the management was looking for a mechanical solution to replace the hard work of driving in wedges by hand. Helmut Darda set out on the design work, and was able to increase the quarry's productivity by a factor of ten with his new idea, the "hydraulic splitting principle."

Initially, the splitting cylinder was designed for rock demolition. Soon, however, the first successful use in concrete demolition took place. The invention had a revolutionary character as it offered a true alternative to explosives. Atlas Copco, a well-known company in the industry, had also heard about the ingenious invention and offered the inventor support in worldwide distribution. This turned out to be a stroke of luck for the newcomer at the time, as his revolutionary idea caused a sensation

worldwide. After re-establishment of the company in 1993, Helmut Darda's two sons started the design and construction of a concrete shear that was introduced in 1997. At that time, it had already been recognized that the trend towards carrier-mounted demolition equipment was on the rise. Since then, the inventors from the Black Forest have continued to develop and produce new attachments for mini-excavators and special demolition robots, thereby serving a niche market with worldwide sales. Today, the company has around 60 employees.

Unlike many companies, the demolition equipment manufacturer has succeeded in maintaining the product's quality and the advantages of its hand-held hydraulic stone and concrete splitting cylinder over time. "In the meantime, we have been able to optimize some of the weight in relation to the splitting force," says Burkhard Darda. "But the operating principle and the basic unit have remained the same and are still in great demand."

And there's more to come from Darda. The company is working on a carrier-mounted rock-splitting cylinder that brings splitting principle to devices such as excavator and demolition robots.

www.darda.de

Proud of the product: Burkhard Darda, Technical Director of Darda GmbH. The hydraulic Rock and Concrete Splitter has been a success story since 1967.



CDRA Announces 2018 Award Winners

The Construction & Demolition Recycling Association has announced two inductees to its prestigious C&D Hall of Fame, which honors prominent leaders and pioneers in the construction and demolition recycling industry for their extraordinary contributions and peer respect. Leonard Cherry is President of Houston-based Cherry Companies, a wide-ranging recycling and demolition firm with 13 concrete recycling and stabilized materials sites. The company also processes asphalt shingles and tires. Cherry served on the board of the CDRA, and is active in the community. Ken Hoving was President of K Hoving Companies in West Chicago, Ill., until its purchase by Lakeshore Recycling Systems, where he stayed on as an executive until his recent retirement. A long-time member of the Chicago waste industry, Hoving built up the C&D recycling operation until it was the most modern one in the Chicago area. He served on the CDRA Board, including as Member At Large on the Executive Committee. He is also well known for his charity work.

"Both of these gentlemen exemplify the best in the C&D recycling industry," says Troy Lautenbach, CDRA President. "Their service and innovation in the industry, as well as their work for the association and their communities, make them deserving of this honor."

C&D Recycler of the Year

CDRA's Operator of the Year honors C&D recycling operations that have made an extraordinary contribution to the industry through the one or more of the following criteria:

- Advancing business operations that result in increased recycling percentages
- Developing novel methods of marketing and conducting business
- Innovative practices in employer-employee relations
- Ensuring safer operations
- Protecting the environment
- Developing industry standards

This year's winner is Recon Services of Austin, Texas. Recon's facility provides concrete, mixed C&D, metals and shingle recycling, as well as roll-off service. Austin is a progressive city expecting the best in all types of recycling, and Recon is the only true full-service recycler in town. Owner Walter

Biel is also progressive and open innovation, to the point he installed the first ever robotic sorting equipment on a C&D operation in North America. In addition, Recon is certified by the Recycling Certification Institute, providing its LEED customers an extra point no other company in Texas can.

CDRA Member of the Year

The Member of the Year is chosen based on extraordinary service to the mission of the organization and the C&D Recycling industry during the previous 12-month period. John Schumacher, Assurance Agency, is being recognized for the excellent work he did in creating from scratch a Safety Awards program for the CDRA. The first Safety Awards were handed out at February's C&D World 2018 in Nashville, along with the other honors.

Trevi Benne and Komatsu "Join" the Italian Army



Two Trevi Benne MK 15 Multi Kit processors of have been supplied to the 6th Reggimento Genio Pionieri, a department of the Italian Army, for installation on two Komatsu excavators. The equipment will help the army perform recovery operations in Amatrice, site of one of Italy's most devastating earthquakes ever.

Both Multi Kit MK units have a pulveriser kit indicated for reducing concrete elements while separating the reinforcing bar from concrete, and a shear kit for cutting iron such as section bars, sheets, and pipes.

Trevi Benne provided on-site training to familiarize army workers with the correct functioning of the MK 15's rotating pulveriser, and procedures for coupling/uncoupling the two interchangeable kits.

Once the earthquake recovery work is complete, the army will continue using these machines for disaster recovery and missions overseas, as needed.

www.trevibenne.com

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Dynaset Optimistic About 2018

Dynaset had a great 2017, with a 20% increase in sales and the introduction of new silent hydraulic motors, which are integrated in vast range of company's products. Based on the feedback, customers were excited about the new innovation. For example, excavator operators are now either getting the new silent hydraulic generators on their machines or upgrading their existing Dynaset hydraulic generators.

How popular is the new technology? Customer Merts Laukkanen had an older Dynaset generator model on his excavator and backhoe loader. "It worked great," he says. "However this new one is so quiet that you cannot hear it while you work."

Likewise, Janne Leppänen updated an older Dynaset hydraulic generator into a silent model. "It is now really quiet," he says. "There is a tiny echo since it is installed in the tool box but I would say the generator's volume is now only 20 percent of the former level."

In 2018, Dynaset will continue to develop co-operation with its global dealer network and OEM customers. There are number of new projects in progress as well. An ongoing factory expansion will be also set for completion this year. The new facilities will include more space for production, sales, R&D, storage, and new conference rooms. The expansion will also give more options to organize training facilities. The need for factory expansion is based on the company's mission to grow. Several new products will be released in 2018. Dynaset is also committed to further develop its product range and improve existing products. Over the years, Dynaset has organized number of different events for the personnel. The company is about to improve Workplace Health Promotion as well as its other functions. There will be even more activities and variety in this year. Dynaset is also going to recruit new employees to match the growth.

www.dynaset.com

AEM Acquires Data Analytics Company Hargrove & Associates

The Association of Equipment Manufacturers (AEM) has purchased Minneapolis-based Hargrove & Associates, Inc. (HAI) a data processing and business analytics company. The acquisition allows AEM to enhance and build upon its statistics program to better meet the needs of its membership. AEM has been an HAI client since 1989. Both organizations believe this is an opportunity to further develop the relationship and the statistics platform.

HAI will operate as a stand-alone subsidiary of AEM in its current Minneapolis office. The company will continue to maintain sole access and handling of company data. AEM staff will not handle or have access to company data. In addition to customer care

and support, HAI employees will collaborate with AEM on projects using advanced data analytics that will help bring additional value to AEM members.

www.aem.org

AEM Announces "I Make America" Award Winners

A record number of equipment manufacturing industry companies were recognized for their outstanding commitment to advocacy efforts on behalf of the industry at the Association of Equipment Manufacturers' (AEM) recent Annual Conference. Thirty companies received AEM's highest honor for their participation in I Make America, the association's national grassroots campaign that advances the equipment manufacturing industry. Twenty-two companies were recognized as Gold level supporters of I Make America; an additional eight companies were honored as Legacy Award winners for reaching Gold level for five consecutive years.

This year's I Make America campaign—themed "Our Products. Our Jobs."—brought a record number of elected officials to AEM member companies across the country. In addition, AEM members descended upon Washington in September for the first-ever I Make America Fly-In, where member company executives visited with 100 congressional offices and administration officials to advance the industry's policy priorities.

"This year our member companies hosted a record-number of elected officials at equipment manufacturing facilities across the country to make the case for infrastructure investment, tax reform, free trade, and a strong agricultural economy," says AEM Vice President Kip Eideberg. "The success of our advocacy efforts is in large part due to the outstanding support of our member companies."

2017 Legacy Award Winners

Blount International
Carlson Paving Products
Deere & Company
InQuest Marketing
Ken Cook Co.
Stellar Industries
Terex Corporation
Vermeer Corporation

2017 Gold Award Winners

AGCO Corporation
Astec Mobile Screens
Calder Brothers
Caterpillar, Inc.
CLAAS of America, Inc.
CNH Industrial
Cummins, Inc.
Custom Products of Litchfield, Inc.
Doosan Bobcat
General Kinematics
Gradall Industries
Hardi North America, Inc.
JCB, Inc.
JLG Industries
Johnson Crushers International

KOBELCO Construction Machinery USA, Inc.
Kolberg Pioneer
Kondex Corporation
Manitou Americas, Inc.
Sioux Corporation
Volvo Construction Equipment
Weiler

www.aem.org

Construction Employment, Wages Rise as Sector Strives to Attract New Workers

US construction employment increased by 36,000 jobs in January to the highest level since August 2008, according to an analysis of government data by the Associated General Contractors of America. Association officials said a possible new measure being discussed in Washington that would invest an additional \$1.5 trillion in repairing and improving infrastructure would both help the sector continue to add jobs and attract new workers.

"The construction industry has consistently added workers at nearly double the rate of the overall economy," says Ken Simonson, the association's chief economist. "The outlook remains positive for further growth in the industry. But finding workers to complete all projects will be a challenge with unemployment so low overall and in construction."

Construction employment totaled 7,099,000 in January, a gain of 3.3%, over the past 12 months.

Residential construction—comprising residential building and specialty trade contractors—added 19,000 jobs in January, while non-residential construction (building, specialty trades, and heavy and civil engineering construction) employment increased by 16,400 jobs during the same period.

Unemployment rate in construction dropped to 7.3 percent in January, down from 9.4 percent a year earlier. The number and rate were the lowest for January since AGC began tracking data in 2000. Unemployment data by industry are not seasonally adjusted, and winter figures for construction are normally higher than they are for total nonfarm employment, but these declines show how difficult it has become for the industry to find experienced workers, Simonson says. Average hourly earnings in the industry climbed to US\$29.33, a rise of 2.9% from a year earlier. Simonson noted that construction pays nearly 10% more per hour than the average nonfarm private-sector job in the US. AGC officials say that a new push to boost infrastructure investments by US\$1.5 trillion over the next ten years would give a needed boost to infrastructure contractors who have seen lagging demand compared to other market segments. Moreover, significant new and long-term investment in infrastructure would help encourage more people to consider high-paying careers in construction.

www.agc.org

Hilti Acquires Brandschutztechnik

The Hilti Group has acquired the Austrian "bst Brandschutztechnik Döpl GmbH" as well as its sales organization in Germany effective January 31, 2018. With this move, Hilti expands its offering of fire protection system solutions for the energy and industry sectors.

Together with the bst team, Hilti plans to further develop its cable transit product range, allowing it to offer more comprehensive system solutions for cable sealing systems. Hilti plans to combine its own direct sales channels with those of bst and Norwegian Oglænd System Group, which Hilti acquired last year, to develop additional customer segments.

www.hilti.com

AGC Analysis: Year-to-Year Construction Employment Increases in Many US Metro Areas; Tariff Challenges Loom

Construction employment increased in 248 out of 358 metro areas between January 2017 and January 2018, according to a new analysis of federal employment data released today by the Associated General Contractors of America. Association officials said that future construction job gains could be undermined, however, as new tariffs force contractors to pay more for steel and aluminum products and dampen demand for new construction. Riverside-San Bernardino-Ontario, Calif. added the most construction jobs during the past year (10,600 jobs, 12%), followed by Phoenix/Mesa/Scottsdale, Ariz. (9,900 jobs, 9%); Houston/The Woodlands/Sugar Land, Texas (9,200 jobs, 4%); Los Angeles/Long Beach/Glendale, Calif. (9,000 jobs, 7%); and Sacramento/Roseville/Arden/Arcade, Calif. (8,400 jobs, 16%). The largest percentage gains occurred in the Merced, Calif. (38%, 800 jobs) followed by Lawrence/Methuen, Mass./Salem, N.H. (26%, 700 jobs); Midland, Texas (24%, 5,900 jobs), and Greeley, Colo. (23%, 3,500 jobs). Sixty-eight metro areas saw construction job losses during the same period. The largest occurred in Baton Rouge, La. (-6,600 jobs, -13%), followed by St. Louis, Mo.-Ill. (-3,300 jobs, -5%); Montgomery Co./Bucks Co./Chester Co., Pa. (-2,600 jobs, -5%); Columbia, S.C. (-2,500 jobs, -12%) and Camden, N.J. (-1,700 jobs, -8%). The largest percentage decreases for the year was in Auburn-Opelika, Ala. (-32%, -1,200 jobs). AGC officials cautioned that the tariffs announcement by the President last week would not only increase the cost of many construction projects, but it could prompt retaliatory measures from other countries that hurt U.S. manufacturers and shippers, impacting demand for new factories and transportation facilities. View the metro employment data by rank and state can be viewed at www.agc.org.

www.agc.org



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Event Calendar

Intermat 2018

World of Concrete
Europe 2018
April 23-28, 2018
Park de Exposition de
Paris-Nord Villepinte,
Paris, France
www.intermat.fr

DEMCON 2018

September 27-28, 2018
Infracity, Stockholm, Sweden
www.demcon.se

IACDS Convention 2018

May 20-22, 2018
Tokyo, Japan
www.iacds.org

M&T Show 2018

Cooperation with Bauma,
Messe München
June 5-8, 2018
São Paulo Expo, Exhibition
& Convention Center, Brazil
www.sobratema.com

Bauma CONEXPO 2018

December 11-14, 2018
HUDA Ground,
Gurgaon, Delhi, India
www.bcindia.com

World of Concrete Asia 2018

November 19-21, 2018
Shanghai New
Exhibition Center
Shanghai, China
www.en.wocasia.cn

Bauma China 2018

November 27-30, 2018
Shanghai New
Exhibition Center
Shanghai, China
www.bauma-china.com

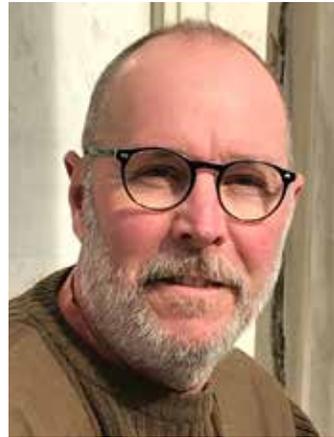
Concrete Show 2019

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

Bauma 2019

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

Aquajet Expands Service Team with Kirkpatrick



Aquajet Systems AB, has named Shawn Kirkpatrick as a service and application specialist to assist customers with after-sale service for both Aquajet hydrodemolition machines and Brokk demolition robots.

"He's a great addition to the team and a valuable resource to customers; his years of service and operational experience easily translate into his work with our demolition machines," says Peter Bigwood, vice president of sales and marketing for Brokk in North America. "Hydrodemolition is a new concept to many contractors, and we want to make sure they are knowledgeable about the products and methodology and how they can successfully apply the technology to their jobs."

In his new role, Kirkpatrick trains U.S. customers how to operate their Aquajet hydrodemolition systems, which includes the Aqua Cutter, Power Pack, and Ecoclear water filtration system.

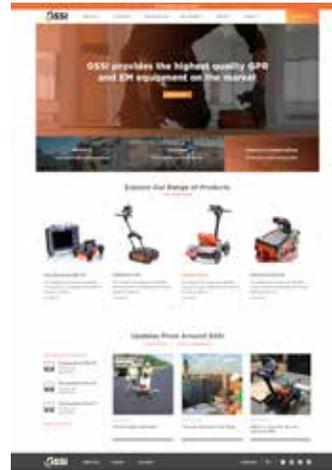
"As businesses experience an aging workforce and challenges finding new employees, they're increasingly realizing that robotic machines can solve those challenges while also increasing jobsite safety," Kirkpatrick says. "My technical background in construction and past operating skills will help me enhance the success of Brokk and Aquajet operators."

Kirkpatrick got his training in electrical repair when he enlisted in the U.S. Marine Corps as an aircraft ordinance technician. Prior to joining Aquajet, Kirkpatrick worked at Liebherr as a crane service technician, developing a deep understanding of hydraulic theory, repair, and application training. Before that, he held a similar position with Putzmeister a concrete placing equipment company.

www.brokkinc.com

GSSI Proudly Announce Launch of New Website

GSSI, the manufacturer of ground penetrating radar (GPR) equipment, has launched its dynamic new website. With a completely redesigned look and feel that makes it easier than ever to use, the website's homepage is designed to help customers explore GSSI's



product range. It features a helpful and easy to use product configurator, quick access to the training class calendar, and all the latest news and updates, including the most recent case studies and videos. The new Innovation Lab section spotlights GSSI's most recent engineering initiatives and custom solutions. Users can learn about GSSI's approach to developing customer solutions and examples of successful processes used to meet customers' challenges.

Product pages feature a wealth of pictures showing the equipment in action and clear explanations of applications for which it is most useful. Users will also find data examples for each application and product, detailed product specifications, and a host of support material to help users get the most out of the equipment. The expanded training section, now called GSSI Academy, includes an enhanced class schedule, trainer bios, training request form, and easy to understand explanations about GPR and electromagnetic induction (EM) technology. The new website

also features a greatly expanded support page, which now includes direct access to user manuals and software updates.

www.geophysical.com

Durgin Joins Makinex as Global Product Manager

Jeff Durgin, former president of Bartell Morrison, has been named global product manager for Makinex Construction Products. Durgin has a quarter-century of experience in all aspects of the construction product business. His profound product knowledge along with his deep passion for continually finding ways to improve things directly aligns with the Makinex mission of making inefficiencies extinct. Makinex creates construction products that provide contractors and tradespeople with a better way to do their jobs to save time, physical effort, and money. Durgin will be instrumental in achieving the company's goal of having 20 product lines in 20 countries within the next decade.

"We are very pleased to welcome Jeff and look forward to his contribution here," says CEO/Inventor, Rory Kennard. "We anticipate some road map changes, which we always consider improvements, and the launching of new exciting products."

www.makinex.com



JCI Receives 2017 Business of the Year Award

Crushers International, Inc. (JCI) has been honored as the 2017 Business of the Year at the 66th Annual Springfield, Oregon, Area Chamber of Commerce Awards and Installation Banquet. JCI exceeded the award criteria based on expansion, a passionate backstory and history, and the positive impact that the company has had on city's communities and business districts. "We take pride in the fact that our company has been recognized as a positive contributor to our community," says Jeff Schwarz, President of JCI. "We all worked extremely hard this past year to make JCI an exceptional company. It's gratifying to know others appreciate it as well."

The Pentrunder Family Gathers for Yearly Distributor Council



Representatives from most of Pentrunder's dealers worldwide gathered at the annual Pentrunder Distributor Council in Borlänge, Sweden, at the end of November, to take part of product development news and exchange experiences. For Pentrunder, dealers and their customers are members of a large family. It is therefore important to gather regularly.

"In total, Pentrunder is now represented in more than 40 countries worldwide, and we see strong growth in several markets," said Marketing Director Marie Peil. "Our distributors have their territories where they have exclusive rights to sell Pentrunder products."

Peil added that while some Pentrunder distributors are competitors in other product areas, "we are also all partners and are working towards one common goal—to provide our customers with the best possible product and service."

A portion of the meeting focused on the new HFi system, its features and development. The decision to step away from the

concept of a fully integrated system that would both be more sensitive and have more weight on the machine itself is seen as a wise choice.

"Several of our distributors who have close contact with our end customers have been met by positive reactions," Peil said. "It is mainly the advantage of low weight and the Pentrunder modular system where a Pentpak can run many machines, that customers appreciate."

Some distributors, such as Hydro-Tec in Germany, have been with Pentrunder from the beginning, while others have been adopted as members of the Pentrunder Family. Peil also introduced Ricky Driver, who became General Manager for Cutting Edge Diamond Tools, Pentrunder's distributor in Australia and New Zealand, and Maciek Maslowski, the new Melbourne salesman.

"Ricky is a well-known face in the concrete cutting business, and we are very glad that he and Maciek have joined the Pentrunder family," Peil said.

www.pentrunder.com

Kinshofer Acquires Doherty Group

Kinshofer, one of the world's leading sources of high-quality excavator and loader crane attachments, announces the acquisition of Doherty Group, a New Zealand-based excavator attachment manufacturer. The entire Doherty management team will stay with the company and Doherty Group co-owner and managing director Jeremy Doherty will remain as its managing director.

Doherty, a family business established in 2001, focuses on developing and marketing attachments and equipment that enhance the effectiveness and versatility of carriers. This is particularly important for small- and mid-sized contractors seeking high equipment utilization. The acquisition adds additional product segments to Kinshofer range, including quick couplers, buckets and other excavator products channels in New Zealand and Australia and enhances local manufacturing through Doherty's Tauranga, New Zealand, and Brisbane, Australia-based facilities. As a result, customers will benefit from localized service and an expanded product range.



Doherty will continue to develop and sell its products globally. Anticipating increased opportunity and demand, Doherty and Kinshofer will expand their sales and production staff to ensure swift integration of the products throughout both organizations.

Kinshofer and Doherty employees are working on rapid integration to provide customers worldwide with their comprehensive range of products and services.

www.kinshofer.com



Two Become One: A New Logo for Kern-Deudiam

A new packaging for the diamond cutting discs spurred Kern-Deudiam to commission a new logo. But why now? Ten years have passed since the merger of Kern and Deudiam into one of the leading German manufacturers of diamond tools and machines with worldwide business relationships. Time enough to introduce a new logo.

"Replacing an established logo is always a tricky business," explains Managing Director Marko Waymann. "It should not be forgotten that the merger of two companies is a tremendous personal and temporal effort. We simply lacked the capacity to create and present a new common logo at the time. Moreover, we also wanted to demonstrate to everyone that we would continue to guarantee the best quality and stability. That's why we've been using the well-introduced logos of both companies side by side for a long time."

In recent years, Kern-Deudiam has invested heavily in expanding its international business relationships. And the longer the company waits to changeover, the greater the effort will be during the conversion, as all

catalogs, packaging, stickers and products have to be reprinted. Providing everything with two logos now and changing them in two years would be even more expensive.

So when the company's leaders were discussing the packaging of the new diamond cutting discs and the question of the design and the logos came up, says Waymann, "we decided that now is the time to go for it."

The company received more than 180 proposed designs from several countries. A panel of 50 employees selected the winner—a simple, yet recognizable combination of a blue D and a black K, accompanied by the stacked words Kern and Deudiam.

Waymann says the new logo will debut at the International Hardware Fair in spring 2018 in Cologne, starting what will be a multi-year conversion process. "We also want to convey a message that the merger process is finally completed," he adds. "Two companies have become one, two teams are one. Now there is only one 'we', and that is called 'Kern-Deudiam.'"

www.kern-deudiam.de

Success for Lissmac in the US



Lissmac USA is excited to report that the company have concluded another successful World of Concrete show. After Lissmac's first full year on the US market for construction machinery, the company's customer base has become familiar with Lissmac's quality and welcomed the opportunity of viewing Lissmac's machines in action at the company's booth. One of the customer favorites was the high-horsepower, deep-cutting and production hydraulic rider saw. Also, following new OSHA regulations, Lissmac's suction and vacuum units for slurry recycling were especially popular among the concrete cutting contractors. Another highlight was Lissmac's portable electric floor cutters, which garnered much interest from contractors of all sizes. According to a Lissmac spokesman, the customers especially appreciated the fact that the floor cutters can be powered by a mobile generator, and a flush-mount blade guard that allows for cutting directly along walls.

www.lissmac.com

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Crusher and Screener Attachment News from Hartl Crushers

Over the last several years, Austria's family-owned inventor of mobile crushing and screening has equipment established itself as a world leader, with exports to more than 65 countries. The key to this global success is based on more than 85 years of experience and results in the unique developed up trust toggle jaw crusher design. Better known as the Hartl Quattro Movement, this feature provides the highest production rate at lowest wear cost, and a cubical shape end product that Hartl claims to make its bucket crusher second to none.

Built to handle even the most rugged working conditions, all Hartl bucket crushers come equipped with a centralised lubrication system, dust suppression,

SAE hydraulic connections, double spring system, casted jaw stock, XLarge jaw plates, replacement cheek plates and toggle seat. Optional the products can be added with teeth, iron separator, quick coupler and crush control.

In 2018, Hartl Crusher will present the latest generation of its HBC bucket crusher series with a new development—a special hydraulic block system that provides a reverse crushing function (RCF). This system allows the operator to run the crusher also in complete reverse motion, which grants an easy and fast release of blockages in the chamber of the crusher. The result is more constant production

and a more convenient operation.

Beside bucket crushers, Hartl's HBS screener attachments have an extreme wide inlet area. The operator can take more material into the chamber, achieve more screening efficiency in the drum, and receive more and faster screened out material.

New in 2018 is the HSS screener series, developed for the use on skid steers, loaders, and tractors. The already launched HSS 800 is to be followed by two larger sizes, the HSS 1200 and HSS1600. Fast changeable screen meshes are available in all sizes for all screeners.

www.hartl-crusher.com

Aquajet Systems' Aqua Spine Takes Hydrodemolition to New Spaces

Aquajet Systems AB introduces the Aqua Spine, a multi-modular system uses high-pressure water jets to precisely remove concrete from surfaces that may be inaccessible for traditional hydrodemolition machines. Used for onshore and offshore construction as well as in conventional and nuclear power plants, the Aqua Spine brings the power of hydrodemolition to tight, small places like never before. Aquajet designed the Aqua Spine as a multi-modular system with a single feed beam to ensure adaptability to different applications. The system adjusts from 3ft to 19ft (1 to 6 meters) and works well in applications such as roads and bridges, hydro and nuclear power plants, and underwater demolition. The modular design allows the Aqua Spine to enter hard-to-reach corners, where the floor and wall meet, to remove concrete without the use of hand lances.

When working on flat surfaces, the modular system bolts onto walls, floors or

ceilings. For increased versatility, hydraulic platforms, cranes and scaffolding can support the Aqua Spine. The system works well underwater on bridge pillars using the

Circular Power Head. The 360-degree ring wraps around pillars of any diameter, allowing the Aqua Spine to operate without having to be moved. No matter the support or location, the Aqua Spine moves accordingly to remove concrete without damaging the rebar.

The Aqua Spine can be assembled and modified for a variety of tasks based on specifications. Contractors can change the length and width of the Aqua Spine seamlessly by adding or removing spine beam sections. The system comes with two interchangeable rail systems. The smaller Dual system works best in confined areas when connected to a scaffolding's multiple attachment points. The Triple system is used when the Aqua Spine is placed horizontally or free standing.



It works well for a longer span, which can be up to 19 ft (6m) long and doesn't need additional support.

The standard setup, with triple spine in max configuration, allows the Aqua Spine to remove about 194 ft² (18 m³) of concrete before needing to be moved. The Aqua Spine handles the same pressure and flows as the Aqua Cutter robots, roughly 15,000 to 40,000 psi (1,034 to 2,757 bar)

The Aqua Spine works with most other types of Aquajet hydrodemolition equipment.

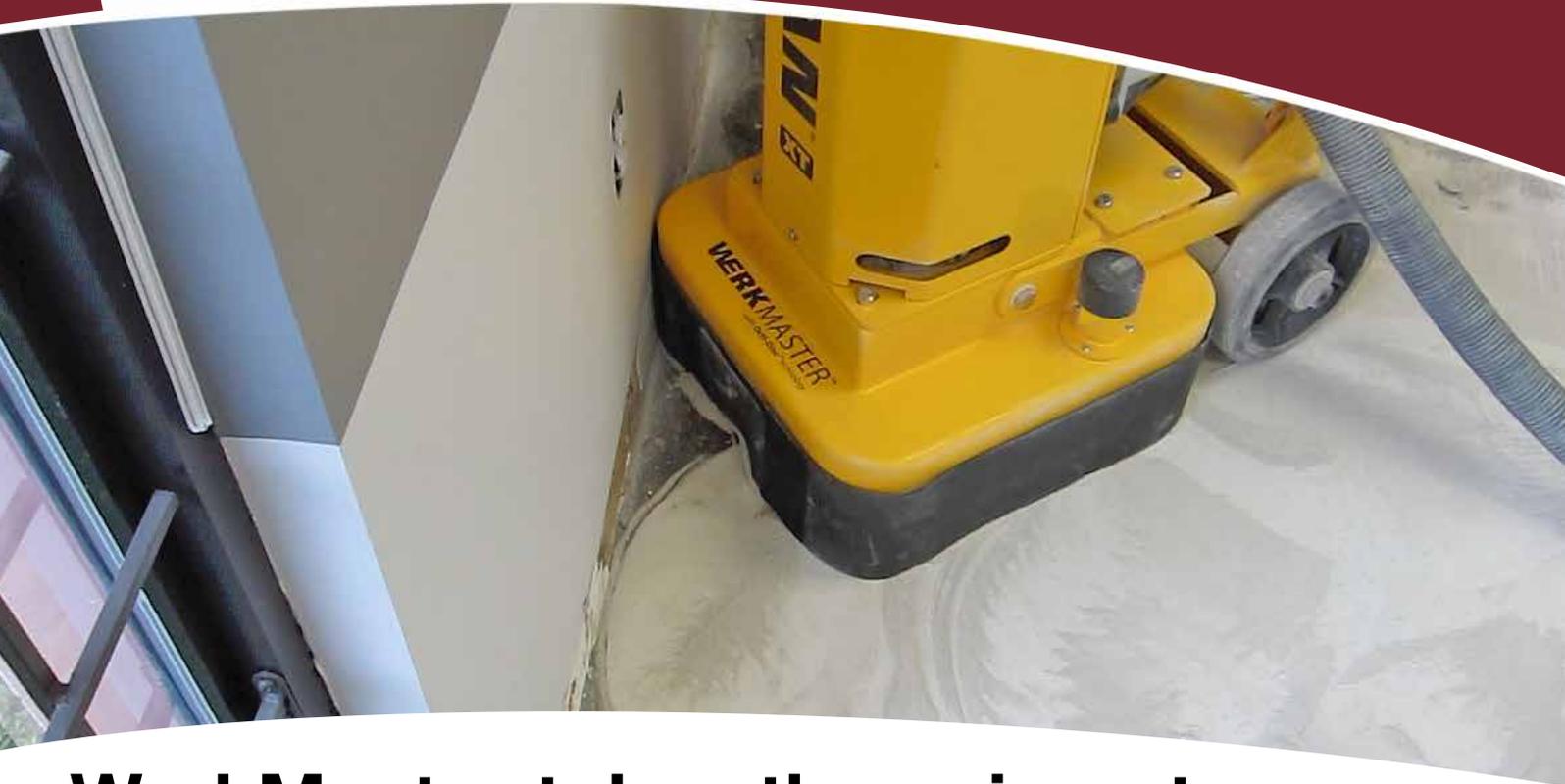
www.aquajet.se

Sima HandSafe Wood Saw Recognized with Intermat Safety Sward

Spanish manufacturer Sima has developed a hard-won reputation within the concrete cutting industry for its various types of equipment and diamond tools for concrete cutting. The company has now launched a new wood-cutting saw that protects its operator, a feature that has earned the Intermat Safety Award. The vast majority of accidents with wood-cutting machines occur due to operator negligence, including removing the blade cover, or pushing the wood into the blade cutting edge by hand. This explains why most of the accidents happen to experienced workers, who have lost their fear of the machine and wish to work faster or more comfortably.

The new HandSafe wood saw from Sima goes a long way in improving operator safety as it protects the operator even in cases of negligence or distraction. The integrated Instant Stop Sensor (ISS) detects human flesh by measuring three parameters: skin moisture, resistance of the object in touch with the blade and conductivity. So if the blade touches human skin, it will stop in 4/100th of a second. In most cases, the result will be a cut requiring stitches.

www.simasa.es



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E





New Genesis Bucket Screener and Crusher Produce High Value Aggregate

Genesis Attachments introduces the GBS bucket screener and GBC bucket crusher, designed with industry-leading features that reduce material delivery and removal costs, as well as the need to purchase new aggregate. The GBS provides a mobile and cost-effective solution for sizing natural rock and recycling material on site – quickly and efficiently while occupying minimal space. The extra-large drum results in higher production, with individual replacement screens available in a range of standard mesh sizes, as well as custom sizes, for pre-screening and final classification. The maintenance-free, oversized, heavy-duty gearbox provides reliable and durable job site operation. Available in five models, the GBS fits 3.3t skid steers to 38t excavators.

Unlike conventional crushers, the GBC has a unique, aggressive figure-eight crushing motion that produces high quality cubical product, enabling the aggregate to be reused on site. Extra-large jaw plates provide optimal performance and longer life, and the GBC is built for durability with a large and robust casted jaw stock and Hardox frame. Available in four sizes to fit 11t to 38t excavators, the GBC's replaceable cheek plates and toggle seat and centralized lubrication system minimize maintenance.

www.genesisattachments.com

Pettibone Introduces T944X Telehandler

The new Pettibone Traverse T944X is the industry's only new telehandler with an extendable, traversing boom that moves loads by traveling horizontally. Up to 70 in (1,778mm) of horizontal boom transfer allows users to precisely and safely place loads at full lift height through tight openings without having to coordinate multiple boom functions. With the Traverse, the specified lift height of 44.5 ft (13.5m) is nearly identical to the 44-ft (13.4m) landing height. The traversing boom allows for maximum forward reach of 35.9 ft (10.9m). The T944X also builds upon Pettibone's traditional rock-solid design, delivering the same ruggedness and dependability. Drivetrain and axles have been optimized to provide greater tractive effort with minimal tradeoff on top end speed. A pintle hitch mount adds versatility for towing trailers.

GSSI Adds Drill Hole Feature to StructureScanMini XT All-In-One GPR Concrete Inspection System

GSSI announces the addition of a new drill hole feature to the StructureScan™ Mini XT, the newest generation of the company's popular all-in-one concrete inspection ground-penetrating radar (GPR) system. The drill hole feature is a 3D data processing detection algorithm, which evaluates a user chosen cylindrical area that represents a potential or planned coring location. Scanning for all potential targets within the cylindrical area, the drill hole feature looks for targets that may interfere with a proposed coring location.

Available only within the StructureScan Mini XT user interface, the drill hole indicator is designed for concrete coring applications. In complicated slab situations, the drill hole feature can help users determine the safest location for coring concrete. However, this feature is not a substitute for careful analysis by a trained operator, and GSSI does not recommend that the user depend solely on this algorithm for drill hole interpretation. Operators should receive special training prior to using this new aid. During training, customers can select areas that they believe are safe for coring while the feature is turned off. They can reactivate the feature to double-check and confirm initial mark-outs.

www.geophysical.com

Built for use on rough terrain, the unit offers full-time 4-wheel-drive with limited-slip front axle differential. Tight steer angle capability provides an efficient turning radius of just over 14 ft (2.8m).

The T944X offers maximum lift capacity of 9,000 lb (4,082kg) with its newly designed boom. Featuring formed boom plates and less welding, the struc-

ture offers greater strength while reducing weight. The design also minimizes boom deflection for better control and accuracy when placing loads. Boom overlap has been nearly doubled from previous models to provide smoother operation and reduce contact forces on wear pads, thereby extending service life. A bottom-mounted external extend cylinder further reduces the load on wear pads by up to 50%. This cylinder location also provides greatly improved service access to internal boom components. A single extension chain eliminates the needs to balance dual chains. Another new introduction is fastener-less wear pads for



simplified service. The operator cab maintains Pettibone's ergonomic seat, pedal, joystick and steering wheel positions. A new analog/LCD gauge cluster comes standard. The cab also offers enhanced climate control, flat bolt-in glass, split door design, openable rear window, USB accessory



plug, lockable storage under the seat, and water-resistant components for easy interior washdown.

www.gopettibone.com



IPS System Takes Hydraulic Breaker Performance to a New Level

Epiroc has introduced a major development in hydraulic breaker technology, with many of its rig mounted heavy hydraulic breakers now featuring its patented Intelligent Protection System (IPS). This "world first" combines Epiroc's popular AutoControl and StartSelect functions, with the fully automated system providing a simpler, more efficient, and more economical operation.

AutoControl optimizes breaker performance by automatically adjusting the piston stroke length, while StartSelect system offers manual switching between two modes, AutoStart and AutoStop. This enables easy positioning at the beginning of the breaking cycle, and automatically stopping to avoid blank firing at the end of the breaking cycle.

IPS ensures that the hydraulic breaker always starts in the AutoStart mode. When the contact pressure between the chisel and material increases, AutoControl switches operation from a short piston stroke to a long piston stroke, IPS then switches automatically to the AutoStop mode. When the chisel breaks through the material, the breaker automatically shuts off preventing blank firing. IPS makes the breaking process even simpler for the operator by automatically adapting the breaker's operating behavior to any working condition. Uptime is increased due to the fully automated functionality of IPS requiring no operator intervention or reaction, meaning there is no interruption of the working process. Furthermore, the system enables more accurate and significantly faster positioning of the breaker, thanks to the "centering" effect, and avoids blank firing that often results in tool damage. This also eliminates mechanical strain on the carrier, with the life of all wear components being extended.

The IPS system is available with Epiroc's HB 2000, HB 2500, HB 3100, HB 3600, and HB 4700 breakers.

www.epiroc.com



Indeco's New IS Makes the Cut



Opened in 1939, the 6,000-ft long Kosciuszko Bridge linking Green Point in Brooklyn with Maspeth in Queens has been out of service since last April. Despite having been rehabilitated twice over the past 40 years, the structure was constantly monitored since the early 2000s. Following a decision to replace the bridge in 2009 the New York State Dept. of Transportation (NYS-DOT) launched a plan for the construction of two new cable-stayed bridges, while maintaining the original name of the bridge, to effectively improve traffic flow.

A complex and...

The contract for the construction of the first new bridge was awarded to a joint venture made up of Skanska,

Kiewit, and ECCO III Enterprises, which finished work last April. Three months later, the team began demolishing the old bridge. Work began with sectioning the 300-ft (91.5m), 2,268 metric ton main span. A strand jacking system then lowered the span 125 ft (38m) on to two barges for transport to a recycling facility, where it would be demolished.

The problem remained of how to demolish nearly 5,600 ft (1,700) of approaches, which were the most extensive part of the whole bridge. Consisting of 21 spans ranging from 118 to 230 ft (36 to 70 m), the approaches rested on reinforced concrete piers for a total of 31,500 metric tons of steel and 240,000 ft³ (68,000m³) of reinforced concrete.

After an in-depth analysis of the original bridge framing plan, it was decided that the most efficient way to demolish the old structure was to perform cuts in key points, then use a single blast bring all 21 spans down onto a bed of dirt that would soften the impact. Once down, the structure would be mechanically demolished using shears for the steel structures, and hydraulic hammers for the piers in reinforced concrete.

The JV subcontracted that phase of the project to Breeze, one of the New York City area's leading demolition specialists. Breeze's other big projects include the dismantling of the old Shea Stadium and demolition of the Hotel Dorset to make room for an addition to the Museum of Modern Art.

ISS 45/90 in New York

An Indeco ISS 45/90 is cutting up the steel structure of the old Kosciuszko Bridge in one of the most important demolition jobs taking place in New York City.



Considering the size of the structure and less than six months to complete the job, Breeze decided to make minimal use of flame-cutting, opting instead for shears mounted on an excavator. The number of structural members of the bridge and their size called for powerful, hard-wearing shears. The web of some of the I-beams had a thickness of over 2 in (5 cm), while the 1.3-in (34cm) high upper chords were built with steel elements up to 1.25 in (32mm) thick.

That led Breeze to purchase a new ISS 45/90 from Indeco from Alessi Equipment. A long-term user of Indeco equipment, Breeze already owned 22 hammers, two shears, and two multi-grabs. The choice was not solely based on brand loyalty, however. The shears were the

best in their weight class (21,385 lb/9,700 kg) in terms of clamping force, maximum force at the tip (275 metric tons) and maximum jaw opening of 43 in (1,100 mm).

The ISS 45/90 is made entirely of special extra-strength Hardox, and has the structural strength and the power to take on any type of job. The shears also feature a dual guide that keeps the jaws perfectly aligned and prevents buckling. The dual regeneration valve speeds up the movement of the jaw (accelerating opening and closing, thus improving productivity), while the V-Ripper RazorDual piercing design of both the upper and lower jaws improves cutting performance. Like all other Indeco shears, the ISS 45/90 also boasts a very favorable weight-to-power ratio that improves the efficiency of the attachment.

...challenging demolition project

Demolition started with the first span on the Queens side, which was entirely demolished using shears to prevent blocking a busy exit to Brooklyn. Breeze coupled the shears to a Komatsu PC 800 via an original Indeco special mounting bracket specifically adapted to fit the boom carrier. At times, the cutting process proved challenging due to the size of the structures. When I-beams are cut, the shears first bend the web and flanges, doubling—and, sometimes, tripling—the thickness that is to be cut. Despite the sizes of the various members and the enormous amount of steel to be sectioned, the ISS 45/90 delivered top-notch performance.

www.indeco-breakers.com



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Genesis Introduces Impact Tools Group

Genesis Attachments introduces the Impact Tools Group—four families of technologically advanced, minimal maintenance products designed for the demolition, construction, utility, excavation, and concrete grinding industries. Comprised of the GHB hydraulic breaker, GCG cyclone grinder, GBS bucket screener, and GBC bucket crusher, this group of highly productive, readily available attachments enables customers to now obtain an even broader variety of tools from Genesis.

Available in a complete range of impact energy classes from 250 lbft (339N) to 12,000 lbft (1,627N), the GHB's performance-leading features include an optimized power-to-weight ratio, speed and power that can be adjusted to match the material being broken, dry-fire protection, and a unique hammer-mounted auto-lube system.

The GCG features design advancements over traditional grinders with a two-hose hydraulic system, eliminating the need for a case drain line and simplifying installation. Other features include a soft start system and



protective valving to prevent over-pressure, over-heating, and misuse of the motor.

The GBS provides a mobile and cost-effective solution for quickly and efficiently sizing natural rock and recycling material on site. The extra-large drum results in higher production, with individual replacement screens for pre-screening and final

classification.

Unlike conventional crushers, the GBC has a unique, aggressive figure-eight crushing motion that produces high quality cubical product, enabling the aggregate to be reused on site. Extra-large jaw plates provide optimal performance and longer life.

www.genesisattachments.com

Something is On the Go Down Under

Lloyd Williams, managing director of Traxx Construction Products in Australia, has announced that a new range of flat saws will be introduced in early 2018. "Not since the mid 1990's has anyone taken the challenge to build such items in Australia. Financially it has just not been viable," says Williams.

A local manufacturer, Cleancut Construction Products, has taken up that challenge. Cleancut's managing director Bob Irvine, formerly the owner of the sawing and drilling company CQ Drilling, won a contract to cut carcinogenic carbon anodes at a Queensland aluminum smelter. The project called for an extremely serious slurry control, with mandatory 100% clean-up. To assist in the smelter contract, Irvine set about designing and building a high-performance slurry guard for his sawing machines. Eventually the guard he developed went on to become a finalist in the Australian Innovation Challenge in 2011.



Global players of the concrete sawing industry, however, showed only a lukewarm interest in incorporating Irvine's design into their existing products. Undeterred by this setback, Irvine and his team set about building a sawing range incorporating the slurry control guards. The Australian Government helped fund the project through a commercialization grant awarded in 2016. The result is two machines, now in final testing. Both the FS6500 and FS7500 models feature four-wheel drive and a patented technology that requires

minimal lifting force when maneuvering the machines. Another highlight is the hydraulic blade shaft drive, allowing infinite speed control during operation. The new flat saws are fitted with a tiger-eye guiding attachment that overcomes the need for conventional blade pointer assemblies. All machines are fitted with slurry control guards as standard, guaranteeing almost 100% clean-up during cutting. Traxx Construction Products has been appointed the global distributor of the new saw range.

www.traxxcp.com.au



New Kinshofer Knox Nox-Tiltrotator Series Offers Advanced Features for Excavators



Kinshofer's new NOX-Tiltrotator series of attachments feature a universal joint with 360-degree continuous rotation, and tilting angles of up to 2-by-55 degrees, the widest in the industry. The Tiltrotator's elliptical piston creates a streamlined design and high-power performance in a variety of tight areas and applications, such as road construction, general construction and city snow removal. These features, paired with its easy serviceability make it one of the most advanced excavator tools on the market.

The NOX-Tiltrotator's design provides a narrower tool than other manufacturers' tiltrotators, which often feature protruding cylinders. As such, the tool can move more freely in tight spaces without hang-ups, enhancing efficiency. The tool's compact design also makes it ideal for railway maintenance as it enables operators to easily pick up items close to the tracks.

The unit's minimal service requirements limit downtime. Unlike competitive units that require greasing as many as nine points, the NOX-Tiltrotator has only two greasing points. And because the attachment has no cylinders, it has fewer wear parts and is easy to set up. Its integrated hydraulic system provides ample protection for the industrial valves, increasing equipment longevity.

An optional electric swivel is available with integrated sensors for 2D/3D excavating systems. Kinshofer also offers a gripper, which mounts to the tiltrotator to easily grasp and position posts, tubes, rods, pallets, rocks and sewer covers.

The Kinshofer NOX-Tiltrotator is available for 3- to 25-ton carriers. Standard packages include a tiltrotator, control system, upper suspension or coupling and lower coupler or quick change. Kinshofer also offers a high-flow swivel option with up to 4,320 psi (300 bar) or electric swivel.

www.kinshofer.com



Accessorize for Success

Accessories Expand
Hydrodemolition
Robot Capabilities
Aquajet System's
Patrik Andersson tells
us how.

As concrete structures age, contractors must have the tools to remove the deteriorated material quickly and efficiently. Hydrodemolition robots offer an innovative solution, precisely removing the concrete without damaging the underlying rebar. The machines' success in traditional, flat areas has led to demand for more challenging applications. To meet that demand, hydrodemolition robot manufacturers developed a variety of add-ons and accessories to allow the robots to reach new heights and allow contractors to complete more specialty applications than before. Here's how hydrodemolition robot accessories can help.

- **Get a Spine:** Contractors can take on concrete at any angle — horizontal, vertical or overhead — by bolting steel frames or spines to the demolition surface and attaching a hydrodemolition robot cutting head. The head moves

across the spine to remove material in the desired area to a preset depth. These mechanical steel structures expand a machine's capabilities far beyond the original design, allowing contractors to quickly and easily remove concrete in large or difficult-to-reach sections.

- **Rock Around the Concrete:** Circular supports allow hydrodemolition robots to remove concrete from pillars or piles, including those underwater. The cutting head moves at a preset distance around the pillar, moving up or down until it reaches the required depth.

- **Blast Off Light Material:** Some hydrodemolition manufacturers offer cutting heads specifically for removing light surface materials, including paint, rust, or rubber, as well as scarifying surfaces to allow for better concrete bonding. While hand lances have traditionally handled these tasks, robotic hydrodemolition tools offer increased operator safety while maintaining a consistent distance and quality.

- **Get Indoors:** For projects in enclosed areas, conversion kits allow diesel-powered robots to operate on electricity, eliminating the risk of fumes.

- **Reach Out for Success:** An extension accessory can reach wherever concrete needs to be removed, such as over a railing to concrete on the edge of a bridge, all without the time and hassle of dismantling the railing.

- **Get Tunnel Vision:** Tunnel kits for hydrodemolition robots clean or remove material from tunnel walls in less time thanks to their ability to handle larger volumes of water. Plus, the kits improve quality, even in unevenly or oval-shaped tunnels. The operator programs a set distance from the tunnel wall and the robot's cutting head moves along the surface, using its advanced, computerized control system to maintain a consistent distance.

With attachments, hydrodemolition machines become an entirely new tool that can remove concrete formerly out of reach. And since accessories and add-ons are relatively inexpensive, contractors typically find them a very profitable investment. They open doors to new types of work, and maximize the value of existing equipment.

www.aquajet.se

Patrik Andersson is the Sales Director for Aquajet Systems AB, the world's leading manufacturer of hydrodemolition robots and related equipment. He has nearly 10 years of industry experience.





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Brokk Inc's Vice President of Sales and Marketing Peter Bigwood explains the benefits with using High-Tech Demolition to increase productivity and safety in bridge work.

Bridging Safety and Productivity with Modern Solutions

Every day in the US, 188 million vehicles pass over a structurally deficient bridge. Each year, hundreds of injuries and even deaths occur from decaying infrastructure. Out of 614,387 U.S. bridges, almost 40 percent are 50 years or older and 9.1 percent are structurally deficient, according to the American Society of Civil Engineers. A recent estimate puts the US backlog of bridge rehabilitation needs at \$123 billion. When infrastructure funding comes through, contractors need to be ready with the fastest, most productive options to take on the heavy, urgent workload.

More and more are turning to remote-controlled demolition and hydrodemolition machines as solutions. After experiencing worker shortages, increasing

workers' compensation claims and growing insurance premiums, the higher cost of the equipment starts to take a backseat. Remote-controlled machines provide more safety, productivity and efficiency for removing concrete around rebar than handheld tools, mini excavators and backhoes. And, that adds up to a fast ROI.

Improved Productivity

Traditional bridge deck work involves a lot of workers with handheld pneumatic tools breaking through concrete to expose the rebar below. A major limitation of handheld tools is the operators. A person can't apply nearly as much force into the tool or do so as consistently as a remote-controlled demolition machine can.

Although machines don't fatigue, operators do — and they do so incredibly faster when powering a jackhammer as opposed to operating a control box fastened around their waist.

Remote-controlled demolition machines come in varying configurations and weights so that the most productive option can be matched to each job. These electric- and diesel-powered robots cut the number of necessary laborers and speed up the concrete removal process. In certain cases, a remote-controlled unit equipped with a breaker attachment and controlled by an operator and one spotter can break up 2 ft² (.2 m²) of bridge deck concrete in 15 minutes. The same area in the same amount of time would require three



and Productivity olutions

workers with handheld tools.

Innovative remote-controlled hydrodemolition robots are an emerging method offering similar benefits to the more established remote-controlled demolition machines. Some hydrodemolition models can remove as much as 800 ft² (74 m²) of bridge deck at a depth of 4 in (101 mm) per hour, a fraction of the time it would take a crew of workers with jackhammers to accomplish the same thing.

Damage-Free Rebar

When it comes to bridge or road repair and rehabilitation the need for precision and minimal microfracturing are major considerations. In this instance, hydrodemo-

lition robots shine. The technology virtually eliminates the possibility of unintended damage during bridge repair or rehabilitation. Typically, jets of water at pressures of about 20,000 psi (1,379 bar) are directed at the surface of the bridge deck, quickly removing layers of concrete but leaving rebar unscathed and clean. There's no need to spend extra time carefully avoiding rebar because the high-pressure water — though devastating to concrete — doesn't damage the metal bars. This maintains bridge safety and saves time and money replacing and repairing damaged rebar — a process that can delay a project by days and cost tens of thousands of dollars in repair. The method also doesn't cause vibrations, eliminating the possibility of

microfracturing that could threaten bridge stability.

In some applications limited in scope, remote-controlled demolition machines' offer the ability to perform precise "dental" work on bridge decks. Because the force of the breaker is matched to the robot and can be adjusted based on the conditions, the possibility of damaging the underlying rebar during concrete removal is drastically reduced.

Less Manual Labor, More Safety

Even the most productive tool needs an operator. As the workforce ages, contractors are having difficulty recruiting younger workers pivotal to helping meet the infrastructure demands to come. Remote-controlled



robots can help attract millennials by appealing to their fondness for technology and innovation. As a result, they are often fast-learners with the equipment.

Improved safety from the high-tech equipment also helps recruit new workers and retain existing employees. Remote-controlled demolition and hydro-demolition robots allow laborers to monitor their work a safe distance from flying debris and edges that pose a falling risk. The elimination of the need to stand next to a ledge also means contractors can minimize setting up fall protection systems. On roadways, demolition robots typically only require one lane closure, minimizing traffic impact.

Also consider worker strain from handheld pneumatic tools. The equipment's heavy vibrations can lead to injuries such as carpal tunnel syndrome, nerve damage and hand-arm vibration syndrome. Remote equipment eliminates that risk and prevents fatigue-related mistakes and injuries common after long periods of time operating handheld tools. The machines' safety benefits mean some companies receive insurance discounts when adding such equipment to their fleets because the provider sees how safety on the jobsite has improved.

Until infrastructure funding is passed, the number of bridges in dire need of repair will continue to skyrocket. However, funding will eventually need to be addressed and these structures repaired before liabilities escalate. Contractors that prepare, plan and incorporate technology solutions into their business will be able to successfully, efficiently and profitably address these needs.

www.brokkinc.com

Peter Bigwood is vice president of sales and marketing for Brokk's North American subsidiary. He has more than 25 years of industry and leadership experience.





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Bridging Speed and Quality

Demolition contractor uses Brokk technology to cut labor costs by 90 percent and solve challenging bridge project.

If there's one thing most people can agree on, it's that being stuck in traffic is incredibly annoying. It was a problem the Texas Department of Transportation was dealing with on the state's 47th most congested roadway. Cars take about 185,000 trips on the 4-mile (6.4km) stretch between Loop 410 NE and Loop 410 S on I-35 in San Antonio daily.

A JR Ramon Project

Travel times rose as much as 65 percent during rush hour. Not only that, ramps on opposite sides of the interstate caused additional congestion and safety issues. In one section, trucks entering were commonly forced to immediately cross all lanes of traffic to reach their exit. TxDOT officials decided on a plan to add one additional lane in each direction, expanding the road to eight lanes, as well as realign several ramps. In addition, the Department of Defense granted \$20 million for the construction of a direct connector for southbound I-35 to I-410 to reduce congestion for traffic headed into the U.S. Army's busiest hospital complex, the San Antonio Military Medical Center. Overall, the improvements would enhance safety and traffic flow and increase operational capacity by about 33%. The department hired general contractor Lane Construction for the four-year \$61.2 million project and work began in fall 2013.

Several sections along the stretch required widening bridges, and one section involved filling a 20-ft (6m) gap between two parallel bridges above a busy highway to allow for the additional lanes. The section also called for a new auxiliary lane. To complete all of this, concrete rails and some of the bridge deck concrete needed to be removed. Lane Construction hired San Antonio-based demolition contractor JR Ramon for that portion of the project, as well as several other bridges.

Before connecting the bridges, the contractor would need to remove 3-ft (1m) tall, 1-ft (.3m) thick, rebar-reinforced concrete rails and three stretches of 400-ft (122m), 3-ft (1m) wide and 6-in (152mm) deep concrete bridge

decks. Two of those stretches were on the inner sides of the bridges and one was on the southbound side's outer section. Each stretch needed to be removed in just three days to minimize traffic impact and, to make it more challenging, the two layers of 3/4-in (19mm) rebar needed to remain undamaged for reuse in the new concrete decking.

JR Ramon's demolition crews started with the outer section, using an 405 Komatsu PC360 excavator with a CAT pulverizer attachment to reach up and demolish the barriers from the roadway below. Next, they removed a 400-ft (122m) section of concrete from the southbound bridge's outer bridge deck. JR Ramon used the excavator and pulverizer attachment to weaken the concrete up to the saw-cut concrete line on the first section before workers with hand tools removed the concrete.

The excavator made quick work of removing the concrete, but heavily damaged the rebar in the process, twisting, denting and snapping much of it. TxDOT assessed the rebar and determined it would need to be replaced because it didn't meet specifications. The process to patch up the rebar was expensive and time consuming, setting the project back several days and costing more than \$100,000.

A Brokk Project

JR Ramon president, Timothy Ramon, knew he had to find a way to complete the inner section without causing the general contractor the same headache twice. He also wanted to reduce the labor costs involved with having so many workers remove concrete with hand tools. He turned to Brokk, a manufacturer of remote-controlled demolition machines that had previously helped him solve a complicated project.

Ramon purchased a new Brokk 120D specifically for the inner sections. The diesel-powered, cordless machine can run as long as eight hours on a full tank. Armed with this new tool, JR Ramon took on the inner sections of the

two bridges. Crews again used the excavator to remove the concrete rails, but then moved in with the Brokk machine to demolish the bridge deck concrete. An operator used the B120D's remote control to direct the powerful and precise three-part arm with an Atlas Copco SB 152 breaker to remove the concrete while avoiding the underlying rebar.

The general contractor had a mini-excavator with a breaker attachment on site, so Ramon's crew also used that to remove concrete. They soon realized that although the machine featured similar power to the Brokk, it lacked the necessary precision for the job. Ramon said that, in part because of the machine's small size — it's barely 30 in (762mm) wide — they had been skeptical that the B120D could achieve the production rates they needed along with the precision to leave a clean, straight edge, but they were blown away by its performance.

In addition to leaving the rebar untouched, the machine greatly increased productivity. Unlike workers with hand tools, the B120D didn't fatigue, meaning the operator could work a 14-hour shift without tiring from both the work and the Texas heat. This increased productivity as well as safety by eliminating mistakes and injuries caused by tired workers.

The B120D also saved Ramon considerable time and labor when his team discovered the inner section cut line on the northbound bridge was off by 2 in (51mm). Ramon said he operated the Brokk himself to break the remaining concrete in just 6 hours — a task, he said, that would have taken 20 workers with hand tools to complete in the same amount of time. Even with the extra work, JR Ramon crews finished the inner section in just 1.5 days, including cleanup time. In comparison, the outer section took six days. Between the outer and inner sections, JR Ramon removed about 1,050 tons of concrete. The new equipment reduced JR Ramon's labor costs on the second section by 90 percent and strengthened its relationship with the general contractor, making his company a more likely choice for future jobs.

World of Concrete 2018

The Best of All Worlds

A strong U.S. construction economy coupled with the absence of ConExpo's triennial competition for contractors' winter travel budgets lifted World of Concrete to its best showing in nearly a decade.

According to organizers, the 2018 edition of the concrete and masonry industries' annual weeklong sun-splashed spotlight attracted more than 58,220 registered visitors, who toured the products and services of nearly 1,670 companies spread across more than 747,411 ft² (69,437m²) of indoor and outdoor exhibit space at the Las Vegas Convention Center.

Strong focus on Silica dust

Although the show's new and updated equipment offerings appeared in all shapes and sizes, the main topic of conversation—at least judging by the attention-getting displays at many booths—was the tiniest of substances: silica dust. Small wonder, as this was the first World of Concrete since enforcement of the new U.S. exposure control standard began this past September.

As a result, dust was everywhere at World of Concrete—literally and figuratively. But most everyone offered a solution for managing it while still providing the productivity and reliability contractors crave in order to stay competitive. The first steps into World of Concrete's famed Silver Lot, for example, brought a visitor to Bosch's array of PRO+Guard dust collection attachments that interface equipment of all ages and chisels of all lengths with suitable HEPA-filter equipped vacuums.

Some of the many vacuum offerings included CS Unitec's new updated Model CS 1445, which automatically cleans its filters without interrupting suction when decreased airflow is detected. An electro-magnetic pulse cleaning system maintains maximum suction by automatically shaking the HEPA filters to remove debris during operation.

Blastrac rolled out a five-model line of dust collectors, ranging from the BDC-1133, designed especially for asbestos and other hazardous materials, to the BDC-133, a three-motor system available in both M- and H-class models. Blastrac subsidiary Diamatic introduced the BDC-122, a compact single-phase HEPA dust collector for small walk-behind grinders. The company also introduced two propane-powered models, the BDC1115 and BDC-1110. Both feature fiberglass housing, and are powered by 656cc Briggs and Stratton engines.

And, Makita debuted its versatile SCV04Z vacuum that offers both corded and 18V cordless operation complete with an efficient 3-stage HEPA filtration system. In cordless operation, the SCV04Z uses two 18V 5.0Ah batteries to deliver up to 65 minutes of continuous run time on low setting, and 30 minutes on high setting, with 74 CFM and 36 in (91.4cm) water lift of suction. In corded operation, the vacuum delivers 127 CFM and 96 in (243.8cm) water lift.

Georgia-based diamond tool supplier Lackmond



Products debuted its first collaborations with Netherlands partner B+B Tec Tools—the Beast AquaSpeedPro wet drill, rig, and bit system. Lackmond VP Ted Skaff explains that the system can drill up to two times faster and last three times longer compared with conventional methods, with the added advantage of easily changeable bit tip

diameters and drilling depths.

By using water to remove drill sludge from the bore hole, “the operator no longer needs to perform a ‘pumping action’ while drilling,” Skaff says. “The water also keeps the bit from clogging.”

Putting water to work to control slurry was also one

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of the themes at Hilti's always-expansive outdoor booth, where the company introduced its DD-WMS 100 water management system for any diamond wet core rig on the market. An innovative recycling system turns just over four gallons of water into a full-day 30-gallon (113.5-liter) supply, while slurry is captured in an easily removable multi-layer filter bag for disposal.

New products a'plenty

World of Concrete offered plenty of other new tools to help raise some of that dust, as well as their owners' profit margins.

HILTI debuted its TE 2000-AVR demolition hammer, which provides 26 lbf (35.2Nm) of impact energy, and 1,800 impacts per minute. Weighing in at 33 lb (15kg), the TE 2000-AVR is easy to maneuver and transport throughout the jobsite, and features exceptionally low vibration from its brushless SR motor.

The hammer is designed for use with another new Hilti product, the TE SPX-SM pointed, self-sharpening chisel. Made from high-alloy steel and a unique induction hardening process, the chisel's innovative X-polygon wave design and tube effect combine to prevent sticking and jams, while also optimizing dust removal.

DeWalt also expanded its range of large SDS Max demolition hammers that promise 20% more power, led by the DCH733 FLEXVOLT® 60V MAX Brushless 1-7/8 in Combination Hammer. Along with producing 10 lbf (13.3J) of impact and 350 RPM, the DCH733 features an innovative E-Clutch® System that increases user control in bind-up/stall situations by sensing a stall during use and managing torque accordingly. Additional models in the product line include corded 1.875 in (47mm) and 2 in (50.8mm) Combination Hammers that achieve 10 lbf (13.3J) and 14 lbf (19.4J) respectively.

Accompanying the new hammers are DeWalt's SDS Max bits, designed to reduce fatigue and minimize breaking. The redesigned head geometry is bonded securely to a high-alloy steel body that remains stable under high impact. SDS Max masonry bits are best suited for larger diameter and deeper hole drilling applications such as through-holes, post-installed rebar connections, and drilling holes for mechanical or chemical anchors.

Skilsaw followed up on last year's debut of the MEDUSAW worm-drive concrete saw by adding an adjustable arm, creating a 7-in (177.8mm) walk-behind model, the SPT79A-10. The arm extends to the user's height and folds and locks into place for transporting and storage as a single unit, "eliminating the risk of lost parts and long set-up times," says product manager Gregg Mangialardi. Designed for both wet and dry applications, the saw's three-point line of sight allows for



accurate cuts, while a large foot and oversized wheels increase stability.

Another interesting product adaptation was at the Bosch booth, with a GPS tracking module retrofit that can be added to the company's SDS-max™ hammers. Already available on the GSH27-26 Brute™ Turbo breaker hammer, the device allows to track the location and status of equipment assets. Notifications of unauthorized use are immediately sent via a smart phone app. Bosch is considering the option to other types of equipment, according to a company spokesperson.

Some new products, though, could only be hinted at. At the ICS Blount booth, visitors saw a rough model of a new 536-E electric saw that the company says will make its debut in Europe this summer.

EPIROC, Atlas Copco's newly formed construction specialty subsidiary, introduced itself at World of Concrete with to tout its extensive line of hydraulic attachments that Product Manager Rich Elliott says build on the parent company's proven quality.

"Operating as a separate enterprise with a narrower



focus will help us be better partners to our partners," Elliott said. "That means better design, more customer-focused improvements and innovations, and better support."

The first product to be displayed with the Epiroc brand was the ER 1500 double-headed transverse drum cutter, which the company says is ideal for tunneling, special foundation work, demolition and soil mixing. An integrated dust suppression system maximizes safety and helps achieve those aforementioned new OSHA silica dust regulations. Weighing 3,858 lb (1,750kg) and fitted with 44 tungsten carbide-tipped picks, the ER 1500 is suitable for carriers in the 20- to 40-t class. It offers 160hp (120 kw) of power, a cutting force of 9,100-15,700 lbf (40.6-69.9kN) at 5,000 psi (350 bar), and a standard cutting head width of 35 in (880mm).

Back to the grind

Concrete floor grinding and polishing machines seemed to enjoy a somewhat higher profile at World of Concrete 2018, with several of the market's strongest players



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introducing new products. Scanmaskin hopes to hit a home run with the latest addition to its World Series line, the Scanmaskin 32. According to the company, the 32-in (800mm) electric and propane models are among the most robust and technically advanced in the industry, with cast alloy components, a floating shroud, and new toolhead for better balance and support. Weighing 1,389 lb (630kg), the electric model is powered by a 20-hp (15kW) motor. The 1,323 lb (600kg) propane model has a 26-hp (18.5kW) engine.

Superabrasive debuted its L20G-X, a 20-in (510mm) propane grinder with an operating range of 610-1,090 rpm. The 645-lb (292kg) model is equipped with a Lavina Fuel-Minder digital control system for closed-loop fuel management, and a new misting system produces 10 micron water droplets which effectively suppress and remove dust particles from 0.1 to 1000 microns.

NewGrind extended its Rhino series with the 32-in (800mm) RXL 1000, a 1,200-lb (544kg) self-propelled electric machine that features quick belt change, biased weight system that can add up to 600 lb (272kg) using standard Olympic plates, and the ability to edge within 1/8 in (18.4mm) of a wall. The 11-in (279mm) discs can be controlled from 200 to 900 rpm.

Scott Mourtisen of Phoenix, Ariz.-based Prep Tech Systems added an unprecedented measure of flexibility to grinding with the Prep Tech ONE, an interchangeable system that allows users to mix and match 25-, 30-, and 34-in (508, 762, and 864 mm) heads with the same frame.

"That makes upgrading is easier and more affordable as job demands increase," Mourtisen says, adding that pivot bolts and quick disconnect water lines make



changeout easy. "You can take on a new, larger job without having to buy an entirely new machine."

The Prep Tech ONE also continues Mourtisen's commitment to maximize on-floor pressure. Equipped with the 25-in (508mm) head, the system can put up to 790 lbs (358kg) of pressure on the tool, while the 34-in (864mm) model goes up to 936 lbs (424kg).

At the top end of grinding size is the Blastrac BMG-2200 ride-on machine, with three powerful BMG-780PRO grinding heads. As with other large Blastrac machines, the BMG-2200's heavy duty dust collection system is equipped with a pre-separator, an automatic pulse filter cleaning system, and Longopac bagging system.

Visitors interested in the latest in larger equipment weren't disappointed. John Deere introduced the 344L compact wheel loader with 106 hp (79kw), a 12,677

shows



lb (5,750kg) full tipping load, and an articulated frame/rear-wheel steering combo that the company says produces a 15-percent tighter turning radius than competing models.

John Deere also added three new mid-frame models to its G-Series skid steers and compact track loaders. With a 69- to 74-hp (52-55 kW) range, the three new models can load a 10-ft (3m) sidewall dump truck or hopper, and feature cabs with features such as full-time back-up cameras and heated seats.

Gehl took advantage of the World of Concrete spotlight to introduce its new Pilot Series of hydraulic compact track loaders to the construction market. Operating capacities for the three-model series ranges from 1,850 lb to 2,250 lb (839kg to 1,111kg) at 35% tipping load, with a horsepower range of 69.9 to 74.3. All of the machines feature seat-mounted "pilot-operated" joystick controls and a unique fold-up front door that affords both easier operator access and a lower overall machine height of 83 in (210cm), which Gehl claims is lower than comparable machines. Yet there's still ample space for headroom and a Level II FOPS.

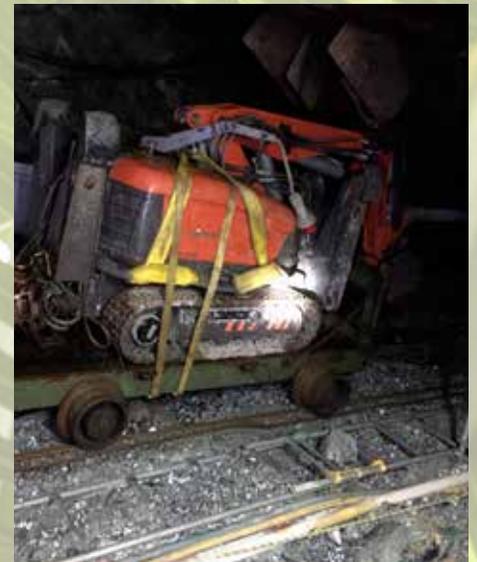
Gehl's Pilot Series machines also feature the Automatic Track Tensioning feature, which initiates proper track tension when the engine is started and relieves the pressure when the engine is shut off. Along with simplifying routine maintenance, this feature allows for the loader's tracks to be replaced in as little as 20 minutes, according to a Gehl spokesperson. Non-uniform roller spacing provides for a smoother, quieter ride across even the roughest terrain.

Kubota was also on hand to introduce two new compact excavators. The 3-ton KX033-4 features an optional dipper arm that can extend the machine's reach to 31 in (787mm). The new U247-4 tight tail swing excavator takes over from the company's popular U25S model, providing a digging depth of 9.5 ft (2.8m) and a bucket digging force of 7,014 lbf (9,509.7 Nm).

Many industry prognosticators have forecast a slowdown in construction activity sometime in 2019. Though economics, politics, and nature can always alter outcomes at any level—local, region, or national—it's probably not too early to make a note of next year's World of Concrete—January 21-26, 2019, in Las Vegas.

www.worldofconcrete.com

DXR Strikes Gold in the Colombian Jungle



Just like an Indiana Jones movie but with demolition equipment being involved too.

In a remote part of Colombia, surrounded by muddy waters and dense, humid jungle, there is an area full of tunnels into the Earth. These tunnels are owned by Operadora Minera S.A.S. and it is in these tunnels that 3.5 tons of gold are hauled out of per year. With the help of dynamite, rails and large carts, three men work to load up to 4 tons of blasted material by hand per day. The blasted material is then processed further to find the gold hiding within.

Tough working conditions

Working at a 35° angle in a hot, humid environment, lifting heavy rock takes a toll on the workers over time. Campo Elías Gómez Merchán, Director General of Operadora Minera, and his team were looking for ways to increase worker safety, alleviate stress on workers' bodies, and increase the amount of material generated during a shift. After a lot of research into various solutions, they started looking at electric demolition robots.

Gómez Merchán reached out to Gonzalo Becerra co-owner of DiamantBec located in Bogotá, Colombia to try out a Husqvarna DXR 270 demolition robot. After putting the robot through a rigorous test in the mine to see if it could withstand high heat, swinging large loads of material that could stress a machine, as well as how well it maneuvered and ease-of-operation, Gómez Merchán and his team ultimately decided the Husqvarna DXR 270 demolition robot would be the robot for the job. It is powerful, agile, easy- to-operate and they were impressed by the level of service and support Husqvarna offered with the machine.



All means of transports to get to the site in the jungle

After the robot was sent, Johan Ekström, Product Manager, Demolition Robots from Husqvarna Construction Products – Americas, followed. To reach the remote site, Ekström flew from the USA to Medellín, Colombia. From Medellín, he took a small plane to Caucasia, where he travelled 1.5 hour via car to El Bagre. From El Bagre a 20-minute boat ride on the Rio Bagre river to a docked, where he traveled another 20 minutes via car to finally reach the mining operation. Ekström came to help train the Operator Minera team.

Ekström does not speak Spanish and the Operadora Minera team only speaks Spanish. To help, Aleksandar Stankovic, District Manager at Husqvarna, and Mauricio Becerra Valbuena from Diamant Bec, served as translators and additional trainers. After teaching the four operators basic DXR 270 operation and maintenance, the training team instructed them on performing specific tasks in the mine. This included using the bucket attachment to dig, pick up and unload the material in carts all at a 35° angle, as well as learning maneuvering and balancing the machine at different levels. To ensure the four operators were well trained, Gómez Merchán asked Ekström to develop a practice plan, and to return after a month to evaluate their progress.

When Ekström returned in March, along with Bec-

erra Valbuena from Diamant Bec as translator, the four operators passed their practice plan evaluation and it was now time to apply their new skills in the mine. Ekström accompanied four men into the mine and fine-tuned the operator's performance on their specific tasks.

From twelve to two hours

By the end of the training week, the DXR and agile operators were accomplishing in two hours what it took the three-man team to manually load during a 12-hour shift. Needless to say, everyone was pleased with the result. The DXR is able to increase the mine's efficiency as well as increase worker safety. A win-win!

www.husqvarnacp.com



Equipment Manufacturers Stress Compliance With OSHA's Silica Dust Deadline

With the compliance deadline for the Occupational Safety and Health Administration's respirable crystalline silica (RCS) dust emissions Final Rule compliance just a few weeks away, BossTek (formerly Dust Control Technology) is emphasizing use of field-proven atomized misting systems to minimize dust particles, forced downtime, and potential fines. Due to the small size, RCS of PM10 (particulate matter ≤ 10 microns (μm)) can penetrate the body's natural defenses (mucus membranes, cilia, etc.), reaching deep into the lungs. Invisible to the naked eye and able to travel long distances on ambient air currents, workers are often unaware of the lingering RCS and take off protective masks, risking exposure and potentially contracting silicosis over time. Silicosis is a chronic and incurable disease that affects millions of workers in a wide variety of industries. Without proper protection, workers with extensive exposure can experience a buildup of RCS deep in the lungs, restricting lung capacity. Silicosis can potentially lead to more harmful and life-threatening lung ailments such as pneumonia, pulmonary tuberculosis

and lung cancer. With this in mind, not only does the OSHA Final Rule require regular monitoring by the employer, but it also sets personal exposure limits (PEL) and suggests engineering controls and particulate isolation rather than putting the entire onus of wearing uncomfortable respirators on the employees. By doing this, regulators also limit fugitive dust emissions from leaving the site line and exposing the wider public.

Compliance

Using a personal dust monitor worn by a trained employee continually monitors the amount of RCS to ensure the exposure is under the average "action level" of $25 \mu\text{g}/\text{m}^3$ (micrograms of RCS per cubic meter of air). Plants must protect workers if they have an amount of RCS dust above the PEL of $50 \mu\text{g}/\text{m}^3$, averaged over an 8-hour day. To control these levels, OSHA gives very general instructions regarding methods of compliance, advising companies to:

- Use engineering controls. Isolate dust in sealed chute systems and dust collectors, and/or using water-based atomized suppression systems.

- Provide respirators. Compliance cannot be achieved by respirators alone, but should be used in areas where engineering controls cannot adequately limit exposure.
- Limit worker access to high exposure areas. Vary staff assignments throughout the day.
- Develop a written exposure control plan. Have it available along with monitoring results.
- Offer medical exams to highly exposed workers. Review the regulation for compliance details.
- Train workers on silica risks and how to limit exposures. Workers should be able to identify to OSHA inspectors the dust control supervisor and the compliance details when asked.

Non-compliance could result in fines, process disruptions and legal action by federal or state agencies or workers. If PEL readings are at or above the permissible exposure level, plants must take action with isolation or engineered controls. And fines can be steep, even for first offenses. For example, following last year's construction industry deadline, some general contractors and developers could face fines of as much as \$70,000.

Engineering Controls and Isolation
Engineering controls include equipment that reduces or eliminates worker exposure to RCS. To address outdoor dust emissions from a wide range of activities, including storage pile management, cutting, demolition and recycling activities, the DustBoss line of atomized mist cannons uses high-pressure

water driven to a circular manifold at the end of a specialized cylindrical barrel with an industrial fan in back. As the unit oscillates, the fan directs air through the cone-shaped cannon and propels millions of tiny droplets approximately the same size as the dust particles in a long cone covering an area of up to five football fields in size.

Outdoor isolation of particle emissions for stackout conveyors and chutes where the cargo stream is exposed to open air currents can be accomplished using point source suppression such as non-mechanical misting rings and spray bars. A misting ring encloses the stream in a curtain of atomized mist, preventing dust from migrating. Open air discharge resulting in dusty blowback from impact (e.g. when vehicles load into a hopper or from a conveyor discharging into a transfer chute) can be suppressed by combining rings and spray bars to create a dust barrier.



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Illinois Demolition Firm Smothers Dust From Downtown Parking Garage Takedown

Dust management has become an increasingly important facet of successful demolition projects, particularly in urban environments. Depending on the source and ambient conditions, airborne dust can contribute to a number of concerns, including potential health or safety hazards, environmental issues, regulatory challenges, higher equipment maintenance costs and poor community relations.

Management at River City Demolition was well aware of the challenges when planning began for the takedown of a five-story parking deck in downtown Peoria, Ill. From the outset, the planners realized that the downtown location of the parking deck would require dust control beyond the conventional approach of manual spraying with a fire hose.

The all-concrete parking structure was certain to create a significant amount of dust, no matter what equipment was chosen for the work. Because of the close-

location and confined space, River City crews decided to use a jaw processor to pulverize the concrete and take the parking decks down a section at a time. That helped avoid dust clouds from large sections falling at once, but Runyon stressed the need for containment when he spoke to BossTek Sales Manager Mike Lewis.

With all components mounted on a road-worthy trailer, the system gave River City crews the versatility to position the fan-driven unit wherever it was needed on a given day. The water source was a municipal hydrant located nearby, fed by a standard 2-in (50.1mm) hose.

The DB-60 Fusion forces water through a circular stainless steel manifold with 30 atomizing spray nozzles, then launches millions of tiny droplets with a powerful 25-hp (18.6kW) fan that produces 30,000 ft³/min (849.50 m³/min) of air flow. Atomized mist droplets of 50 to 200 microns in size are thrown out in a 200-ft (60m)



cone at an adjustable 0 to 50° elevation angle, capturing airborne dust particles and dragging them to the ground. Unlike industrial sprinklers that can require more than 500 gal/min (1,893 liter/min) of water for the same purpose, the DB-60 uses only about 23 gal/min (87 liter/min).

Rather than have personnel handling hoses to suppress the dust, the single atomized misting unit delivers 62,800 ft² (5,834 m³) of coverage, while using far less water than hoses and sprinklers, helping contractors avoid over-saturation and run-off.

At just 80 in (2m) wide, the system can be placed virtually anywhere dust suppression is needed and adjusted based on changes in wind or work activity. The optional dosing pump is powered from the standard 120V electrical outlet on the gen set, allowing operators to precisely meter surfactants or other additives. The unit's versatility makes it suitable for uneven ground, as well as open spaces or tiered terrain.

Water sources can vary, and the unit requires a constant supply pressure of just 10 PSI (.069 bar). Standard municipal water

pressures are generally around 40-50 PSI (2.76-3.44 bar). The water is delivered to the atomized misting unit through a hose with a cam-and-groove quick disconnect coupling leading to the booster pump. The pump adds approximately 150 PSI (10.34 bar), with a maximum of 250 PSI (17.23 bar), depending on the inlet pressure. For use with a non-potable water source, the Fusion can be equipped with a number of filter options.

From the beginning, Runyon's suspicions proved correct. It was one of the dustiest projects they ever worked on. But the DustBoss did a great job and didn't receive a single dust-related complaint during the entire 10 weeks on the job.

www.bosstek.com



Talbert Honors Removable Gooseneck's 70-Year Anniversary



Talbert Manufacturing celebrates the 70th anniversary of its mechanical gooseneck patent, which was developed by Austin Talbert, engineer and founder of Talbert Construction Equipment Co.

Talbert Manufacturing was originally established as Talbert Construction Equipment Co. in 1938, in Lyons, Ill. It served the Chicago market with crane and construction equipment rentals and heavy haul transport services. While Talbert was quickly regarded as a trusted

name and a company that consistently delivered results, it was not until the advent of the first mechanical, detachable gooseneck trailers in 1946 that it had its claim to fame.

The mechanical gooseneck revolutionized equipment loading by eliminating the need to drive equipment up and over the trailer tires. The design not only enhanced operators' safety, but also saved contractors time and hassle.

Austin Talbert continued this trend

when he designed and patented the industry's first hydraulic removable gooseneck 15 years later. The hydraulic gooseneck offered the same safety benefits as the mechanical unit, but could be removed in as little as two minutes—much faster than the mechanical model.

In addition, the hydraulic gooseneck has virtually eliminated injuries and fatalities associated with railroad track hang-ups due to the trailers' low clearance. Drivers can adjust the ride

height to a variety of positions, enabling them to negotiate tracks as well as other obstacles, such as bridges.

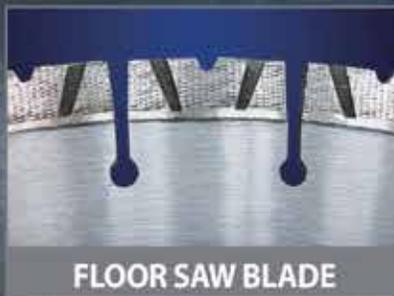
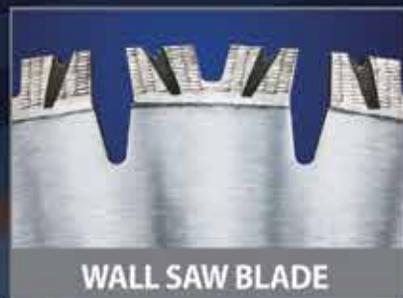
As the company approaches its 80th year in business, it continues Austin Talbert's legacy by building its trailers to the highest safety standards. Talbert builds its trailers to the highest safety standards, which includes rating all of its load capacities at half the deck length to ensure the integrity of the trailer at maximum load capacity.

www.talbertmfg.com

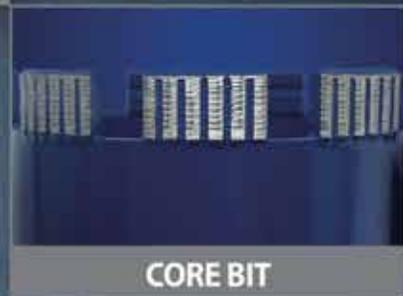


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Success for NDA's D

The general review of the US Demolition Association's annual meeting, held this year in Austin on February 22-24, was brilliant, as was the connected trade show, "Demolition in Austin."

More 70 manufacturers and suppliers exhibited at the renowned American demolition show, which is the world's second largest after the German demolition fair in Berlin. PDa Magazine's Darren Dunay who visited the show was very pleased with the outcome. LBX Company (formerly Linkbelt) made a strong impression with the biggest booth of the show, filled with several new products. Among other things, they showed their new LDT concrete processor. The company's demolition and recycling tool fits most types of carriers and is excellent for high-reach applications.

Many First Timers



A first-time exhibitor was Texas-based Nico Excavator Attachments, which sells, rents, and repairs excavators in the US and Mexico. Ruckus, another new exhibitor, manufactures quick coupling systems for fast switches, including demolition tools. The system is based on changing tools within 3 to 5 minutes



Demolition in Austin

without having the operator leaving the excavator cab. The system is based on switching both tools and excavator pins in one set.

In Europe, the dominant system is hydraulic quick couplings mounted on the pin and on the tool itself. A more expensive solution in itself, but that provides increased flexibility. Companies offering this solution at the demolition show were OilQuick and Kinshofer.

Another new exhibitor was the T-Maxx Breaker. The company sells Taesin Breakers from Korea on the US market. Company CEO Alvaro Martinez sees a very good potential in the US market for its products.

Returning exhibitors

A large number of familiar faces were also on hand at "Demolition in Austin." Among them was Kinshofer, which announced its acquisition of quick-coupling manufacturer Doherty. Kinshofer also launched its new DXS series of shears. The series features an impressive power-to-weight ratio, well-designed and wide jaw openings, good cycle times, and efficient hydraulic systems. The new DXS-50 was on display, excellent for scrap handling, tire recycling, and demolition.

Kinshofer also launched its new series of rotators called NOX. The series offers 360° continuous rotation and tilting from 2° to 55°—the biggest possible tilt angle on the market.

Kinshofer also showed its new X-LOCK Coupler, a safe and fast solution for smooth tool replacements directly at the workplace. Other notable exhibitors included Brokk, Epiroc, BossTek, Buffalo Turbine, Caterpillar, Eagle Crusher, Genesis, Geith and Montabert, Husqvarna, Indeco, Komatsu, National Attachments, OilQuick, Ramco, Rotar, Stanley, and many more.

The successful outcome of the show this year will be good for the event next year.

www.demolitionassociation.com



Below, the new Board of Directors of National Demolition Association elected in Austin.





Efficient Recycling with Simex CBE 50

The recent urban development of Litkarino, a city located 25 miles (40km) outside Moscow, echoes the pace of city living with the need to build new structures, including a day care center to be rebuilt on the same lot where the earlier one had stood since the 1960s. The contractor was tasked with both demolishing the existing structure and reconstructing the new center in the shortest time possible. Demolition required that the primary crushing of the debris be carried out on site, but without resorting to a large mobile crusher due also to space restrictions.

The task was twofold: to achieve a crushing system that would reduce the debris, including material such as brick and large blocks of reinforced concrete, to sizes that would allow them to be reused; and a system that would be able to

crush wood, a material known to be challenge for any type of attachment not specifically designed for the application. Complicating the tasks was the fact that wet soil was part of the mix, a condition that tends to reduce the efficacy and productivity of buckets with jaw systems.

After evaluating numerous solutions, the contractor chose the Simex CBE 50 crusher bucket. Along with the strong construction of the frame and the attachment's low operating cost, the Simex system allows any type of material to be crushed, including wood mixed with soil or mud. Another appreciated feature was the operator's comfort during the long working hours, an advantage created by the absence of eccentric motion that is present on jaw crushers.

The Simex CBE 50, currently the largest of the range of Simex was designed for excavators with a weight of 38-55t. The CBE 50 crusher bucket exerts a cutting force at the tooth of 42,714 lbft (190kN) and is equipped with a rotor fitted with teeth. The system is activated by hydraulic piston motors in direct drive for a system not relying on reduction gears.

With a capacity of 63.5 ft³ (1.80 m³) and a wide mouth that allows for easy loading, this bucket is capable of producing material with an output size between 0-80 and 0-140, and at the same time eliminating downtime. A valve permits the shaft to automatically invert the direction of rotation when the material, due to hardness or size, cannot be immediately crushed, enabling the maximum cutting force available to be applied in order to break it up. The CBE 50 also stands out for its robust construction and the reliability of all parts subject to wear.

For the teeth, Simex opted for KenCast™ technology from Kennametal, which offers exceptional duration and resistance to wear. With this treatment, the tungsten particles are bound with air-hardening steel, the result being a composite material that is seven to five times more resistant to wear and impact compared to other types of treatment.

As proven in many operating scenarios around the world, in optimal operation conditions, the Simex CBE 50 can achieve hourly production rates of as much as 2,742 ft³ (70 m³).



www.simex.it



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CLEARING the AIR

Winter and early spring is an appropriate time for PDA's annual report on what's new in the area of water cannons and other dust suppression technologies. In the northern hemisphere, those cold winds are adding a cleansing crispness to the air that is both healthful and invigorating—much-needed qualities when one spends long hours at a chilly jobsite.



Though you may be happy to leave those days behind when both temperatures and construction activity kick up, your lungs will no doubt yearn for those bracing breaths, particularly if the location has high concentrations of airborne dust. So too will your ears, as they'll have to deal with dust and odor complaints from regulators and residents unless you take action to minimize their effects.

That's why we're pleased to present some of the current products available to help control dust and other airborne particulates at job sites. As with other industry-related technologies, incremental improvements have boosted the systems' effectiveness and operational efficiency. And because dust suppression systems are increasingly must-haves for construction and demolition work (either by law or prudent consideration), it pays to be up to date on what's available, and what might work best for your needs.

And we won't begrudge anyone who, on a hot summer day, deliberately strolls within range of the water's spray to enjoy a respite from the heat and, perhaps, a brief longing for a breath of winter.

Hydraram HDS-series redefine versatility

Hydraram five-model HDS-series spray cannons offer advanced systems for absolute effective dust and odor control during a demolition, recycling or manufacturing job. This machine produces through many nozzles a fine mist curtain that bind with dust and odor particles in the air. This bound particles then fall on the ground. The air is in fact being "washed." The systems are more effective and durable than traditional systems, because less water is needed and consumed. They also eliminate the need for an operator using a hand-held sprayer, and problems with worksite sludge and muddy vehicles. That makes everyone happy, from project owners and employees to local environmental authorities and neighboring residents. Hydraram HDS-series spray cannons can be used anywhere-- demolition and recycling sites, road construction projects, crushing plants, recycling sites, cement plants, steel factories and more. And if one of the standard models isn't quite enough, Hydraram will custom-build solution to fit the user's specific needs.



EmiControls updates its V22 dust control machines

After the years of an intensive research and development, EmiControls' first totally restyled V22 dust control machines

are now ready to rock the mining areas, ports and construction sites all over the world. The unit's public debut is scheduled for March 2018 at the Electric Power Expo in Nashville, Tenn. The biggest difference is the size. The new V22 is much smaller, making it easier to transport and integrate into existing systems, yet with the stability and robustness to operate in challenging conditions. Another important feature is speed; the machine can be started and rotated much faster. Angles can be quickly adjusted as well. And, there are three different water consumption speeds available.

Thanks to special nozzles, the V22 produces very fine water mist that stays longer in the air and beats dust efficiently. At the same time water consumption is very low, so users do not have to worry about water ponds on the floor. The spray pattern is now narrower too, allowing users to direct the mist to the dust source more directly and efficiently. Now part of TechnoAlpin Group, a global leader for snow making systems, EmiControls promises to incorporate even more features into the V22. Quick access to after-sale support is always available, regardless of where the V22 is being used.

Water cannon options from Duztech

Duztech focuses on smaller and more mobile machines to attract customers in the demolition and rental segment. That's why Duztech launched the X35 mist cannon, an energy efficient machine with high performance. The unit uses a 4-hp (3kW) fan motor, 3-hp (2.2kW) pump motor, and automatic 350-degree swing operation to distribute water mist over larger areas, with a throwing distance of up to 131 ft (40m). Droplet size ranges from 10 to 150 microns, with a mean size of 70 microns.

For smaller jobs, the compact Duztech Mosquito mist cannon can be moved by hand. The water mist generated by this unit is extremely fine and therefore effective against airborne dust, but also for humidification when the ground/surface is sensitive for wetting.



The Mosquito generates a water mist with droplet sizes 10-50 microns with a mean droplet size of 25 microns. Throwing distance can range up to 30 ft (10m).

Duztech is a net exporter, according to CEO Daniel Eriksson. Though Europe is Duztech's largest market, sales offices have been established in the US and Asia. The company's new headquarters and development/production facilities are located in Sweden.

www.duztech.com

In the U.S., BossTek stays atop trends and advancements

The demolition industry remains busy, along with new construction. And with it has come an increase in both the knowledge-ability of demolition companies with respect to dust as well as a rise in demand for effective control. "No doubt some of this is fueled by new OSHA regulations on silica exposure," observes Mike Lewis, Odor Specialist for Peoria, Ill.-based BossTek, "but it's a trend that has been scaling upward for some time."

In addition, communities and individuals are becoming better educated about the potential effects of fugitive dust, as well as their civil and legal rights to be protected from it. "More than ever before, demolition contractors are forced to carefully consider dust management as an essential element of a project's scope, to protect workers, neighboring communities and the overall environment," Lewis adds.

Atomized mist remains the most effective technology for managing both surface (ground-level) dust and airborne particulates. A plume of millions of water droplets can be thrown over long distances, with some models able to project the engineered mist more than 300 ft (100m), covering as much as 140,000 sq ft (15,500m2). Yet the equipment uses just a fraction of the water applied by fire hoses and large-scale sprinklers, avoiding over-saturation and run-off. Options



include remote control, programmable oscillation, special filters for non-potable water and additives that can be metered into the water supply to enhance suppression performance.

Along with the rising demand for effective suppression methods, demolition contractors have been looking for more versatility, such as mobile equipment and designs that can deliver their own power sources.

Having the suppressor and gen set all contained in a single trailer-mounted system means the ability to provide dust control on virtually any jobsite, even when resources are limited. Demand has risen so dramatically that BossTek will soon be introducing its third model in the company's Fusion™ product line, a smaller and even more mobile system that can



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be repositioned wherever it's needed on a given day for point-specific control and smaller areas.

"Designed in response to input, particularly from road and highway builders, the 'baby bear' of dust suppression delivers the same engineered mist as its larger siblings, complete with its own generator," Lewis says.

Other trends include a growing number of construction and demolition firms that are renting equipment to suit specific job requirements, rather than investing the capital to purchase units and try to make them work for every project.

"The ability to select from a range of models and options ensures that operators will always have the right machine for the job," Lewis says. "And they only incur dust suppression expenses when they have a need, confident that they'll be getting reliable, well-maintained equipment without having to perform service themselves."

www.bosstek.com

Diesel-powered dust control from Buffalo Turbines

Buffalo Turbines' self-contained, Diesel Dust Controller has many differences from most of the other dust control equipment on the market. Built for industrial and commercial use, the Tier 4 compliant 26.5-hp (20kW) Kohler 3-cylinder diesel engine features liquid cooling, dual air cleaners, and both heat and oil safety shut

offs. The overall cost savings and long-term benefits include up to 15% greater fuel efficiency, and up to twice the engine lifespan. Other features include a compact, easily maneuverable three-wheel off-highway trailer and common .75-in (19mm) connection that can adapt to most standard municipal water supply for fast jobsite set up. Once operational the standard wireless remote will control both nozzle and throttle function. Also available is a 270-degree oscillation feature that can be turned on/off at the machine.

Dual 6-gallon (22 liter) fuel tanks extend run time to eight hours or more. To keep focused on the job at hand, Buffalo Turbines' proprietary single stage turbine blower and gyratory atomizing nozzle (GAN) eliminates costly downtime and maintenance associated with clogging tips on common spray nozzles used in the industry.

www.buffaloturbine.com

Idrobase's small wonder

Sparanebbia Lince from Idrobase of Italy is a small high-pressure dust suppression and odor-control system that can be easily relocated. At just 31.5x23.6x47.2 in (800x600x1200mm) and equipped with a trolley, the 55kg system is ideal for fine dust suppression in small/medium-sized areas, such as demolition, renovation of buildings and when handling dusty materials. Lince works at 870 psi (60bar) pressure at 250V/50Hz power. The fan has a speed of 400 rpm and a flow rate of 100 ft³/h (2.820m³/h). The 8-gallon (30 liter) tank allows for up to 30 minutes of continuous operation.

www.idrobase.com

Dust Control with Dynaset High Pressure Dust Suppression at Challenging Demolition Site

Umacon is the contractor at challenging demolition site Telakkaranta in Helsinki, Finland. There are several National Board of Antiquities-listed buildings and companies at the demolition site, which cannot be exposed to moisture, dust or be damaged in any way. Umacon's challenge also includes dismantling the concrete pillars of the demolished buildings. Before the pillars can be accessed, the roof, vaults and wooden parts are demolished one piece at a time using a Doosan 340 long-reach boom excavator, which is equipped with a handler and pulverizer.

"People are working in the listed buildings that are attached to the buildings scheduled for," says Umacon foreman Arto Numminen from Umacon. "There is also valuable real estate nearby. Therefore, demolition work must be fully controlled. We can't produce any dust emissions and we have to be careful with the noise level."

The restriction against exposing the listed buildings to moisture precludes the use of dust suppression cannons, which produce air flow which makes dust particles to fly uncontrollably. The cannons' high-volume water flow also creates a muddy worksite, creating potential safety hazards.

That's why the Dynaset HPW-DUST High Pressure Dust Suppression System is the perfect solution for dust control. The system produces targeted atomized water mist for dust suppression. The HPW-DUST High Pressure Dust Suppression System converts the hydraulic power of an excavator into a high-pressure water mist that prevents dust particles from spreading to the environment. Atomized water mist effectively binds the dust by increasing the weight of the dust particles and cause them fall to the ground. The worksite stays clean since the high-pressure water mist does not wet the demolition site.

"I can target the water mist directly to the source of the dust," says Numminen. The system is easy to use and it binds the dust without causing muddiness."

The system includes Dynaset HPW High Pressure Water Pump which operates with the world's best power-to-size ratio. The compact size of the pump guarantees easy installation on an excavator. Umacon's excavator has nozzles installed on the boom and on the pulverizer. High-pressure water is led to the pulverizer's nozzles through a line in OilQuick.

"I can change the nozzles in few minutes according to the needs of a worksite," notes Numminen.

www.dynaset.com



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Talbert 35t Close-Couple Lowbed Trailer Offers Dependability for Day-to-Day Loads

Talbert Manufacturing gives contractors an efficient and safe way to haul day-to-day loads with its 35CC-HRG lowbed trailer. The lowboy unit is rated at 70,000 lb (31,751kg) within a 12-ft (3.6m) load base. It also features Talbert's removable hydraulic gooseneck for fast and easy equipment loading and unloading. Talbert offers the 35CC-HRG with optional features such as fixed or platform goosenecks, various front and rear ramps, as well as multiple swing radiuses, deck lengths and widths. The trailer also can be equipped with a beavertail and ramp so users can drive equipment over the rear of the trailer rather than detach the unit's gooseneck. This allows for fast equipment loading and unloading in confined areas.

Part of Talbert's Close-Couple Lowbed Series, the 43.75 ft (13.3m) long 35CC-HRG's two axles are close coupled and can be designed to accept an optional pin-on axle for loads requiring three axles in a row. The 24-ft (7.3m) long deck is 8.5 ft (2.6m) wide, with outriggers that another 12 in (300mm) of width as needed. The trailer's recessed cross members in the rear bridge allow for easy positioning of an excavator boom. The deck flooring is 1.5-in (38mm) Apitong, which provides exceptional strength for long-term durability under heavy loads. Drivers can adjust the rear ride height of the Ridewell suspension system over a range of 6 in (152.4mm) for greater head clearance getting in and out of job sites or when traveling over uneven surfaces, such as railroad tracks.

www.talbertmfg.com



World Series by Scanmaskin

Scanmaskin has introduced the World Series which is a completely new line of high quality floor grinders, industrial vacuums and diamond tools. The development focus of this premium line of equipment has been on providing benefit to the operator, with an emphasis on service, quality and reliability. "The development of World Series has been based on current market demand and industry trends from customers all around the world," says Scanmaskin Sweden AB technical manager Martin Persson. "We combine this input from our user base along with Swedish engineering." The first piece of equipment from the World Series released is the Scanmaskin 32. The floor grinder possesses a highly efficient operation which minimizes grinding hours by 10%. The machine also features cast alloy components along with a floating shroud, which has been designed for

many years of durability and dust free operation. Additionally, the Scanmaskin 32 has been built with ease of service very much in mind. Its smart design means that only three screw sets need to be released in order to gain access to the machine house.

"This machine gives the operator the greatest time gains, both in terms of efficiency and service life," adds Persson. "This is grinding in the fast lane."

World Series by Scanmaskin was launched World of Concrete in Las Vegas with the Scanmaskin 32 becoming a popular exhibit for the many visitors to the company's stand.

www.scanmaskin.com



New Tyrolit Handsaw with Flush Cutting Function

Tyrolit's new HBE400 series handsaw is specially designed for universal cutting applications in construction and civil engineering, and is suitable for cutting concrete, clay brick, and natural stone. The handsaw uses 16-in (405mm) flush cutting saw blades for hard stone and universal cutting, with a depth of cut up to 6 in (150mm). A compact design, low weight of 20 lb (9.1kg), and detachable guide rollers guarantee the user easy handling and machine guidance. The HBE400 series is equipped with a 4.3-hp (3.2kW) electric motor with fully integrated electronics and 230V drive, which enables flexible working both indoors and out. This new member of the Tyrolit product family can be used for both wet and dry applications, and its in-

tegrated dust extraction connection enables clean working conditions.

www.tyrolit.com



Vanguard Launches New Line of Global Single-Cylinder Engines

Vanguard used World of Concrete 2018 to introduce the first in a complete line of all-new single-cylinder horizontal shaft commercial gasoline engines built from the ground up based on customer input. The new engines were developed around key areas of performance critical to improving overall productivity, including starting, maintenance intervals, service and support, and total cost of ownership. The new line will span from 5 to 13 hp (3.72 to 10 kW) to meet power requirements for a wide range of global commercial applications.

The ground-up design process allowed Vanguard to comprehensively engineer all-new carburetion, ignition and combustion systems to promote reliable starting in any environment. To ensure four-season starting, the engine is designed to start at temperatures as low as -20° F (-29° C). To further improve starting, all surfaces inside the carburetor that contact fuel feature a special corrosion and stale fuel resistant plating.

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

To reduce maintenance and downtime, the engine features an industry-leading oil

management system that allows the engine to run efficiently for up to 200 hours between oil changes—double the industry standard.

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

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

www.vanguardengines.com



New WS-SL20 Wheel Saw Attachment from Bobcat

Bobcat has launched the new WS-SL20 Self-Leveling Wheel Saw, designed to cut efficiently through asphalt, rock and concrete surfaces. The self-levelling feature allows the attachment to follow and adapt to the contours of the ground. And a trench cleaner is no longer needed. The WS-SL20's variable segments allow uses change the width of the wheel in the field. Widths include 1.9, 3.1, 3.9, and 4.7 in (50, 80, 100, and 120 mm).

Utilising well-proven Bobcat components such as the ACD (with Bobcat Software) and valve block components, the new wheel saw has an integrated stabilizer system, a standard rubber shield for stone ejection/dust reduction, and removable deflectors that allow use close to the pavement edge. A water kit option is available for dust reduction.

The WS-SL20 can be used for a variety of utility trenching applications, creating excavation sites, slot cutting, and maintenance work, including trenching vertical edges for road and pavement repairs. It is approved for use with Bobcat's S630, S650, S770, and S850 skid-steer loaders; T590, T650, T770, and T870 compact track loaders; and the A770 all-wheel steer loader.

And like all Bobcat attachments, the WS-SL20 is optimized for efficiency, performance and greater productivity. This results in lower operating and maintenance costs. In addition, products are manufactured to the highest standards, guaranteeing the best quality and meeting, or exceeding, local requirements all around the world.

www.bobcat.com



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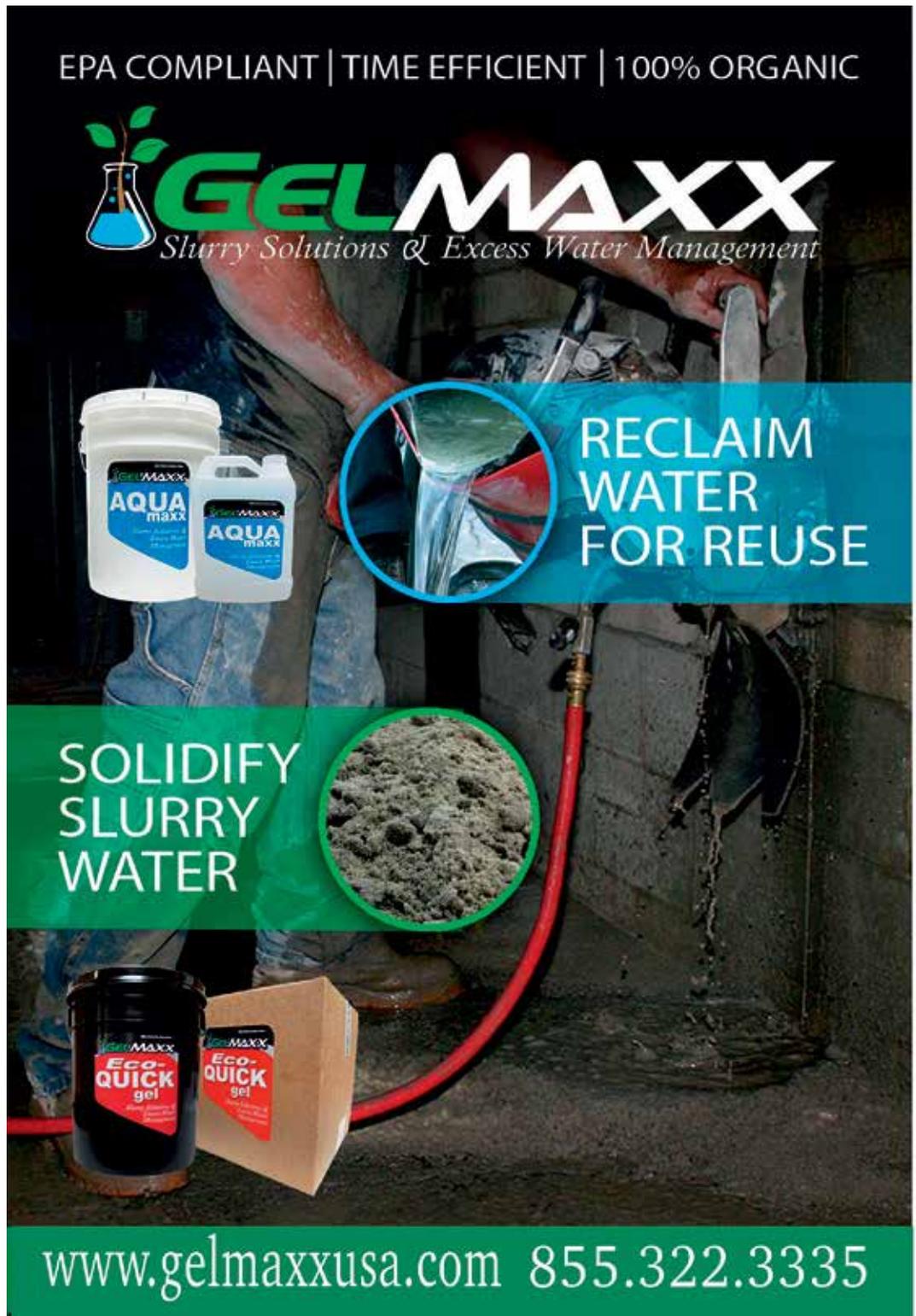
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Viper VPH 21 Crusher Bucket Demonstrates the High Efficiency



First phase was to tear down the building to blocks approximately 31.5-in (800 mm) in size. Water suppression was mandatory due nearby population and housing

Late 2017, Finnish contractor T. Mäkelä Oy received a demolition contract to tear down a four-floor concrete block building. The schedule was tight as well as contract value was challenging. The apartment building was built using .5-in (12mm) steel rebar reinforced concrete—more than 3,000 tons total. The contractor's first stage was to tear down the building using concrete pulverizers, with the largest resulting blocks being no more than 31.5 in (800mm). After precutting the blocks, the contractor needed to crush the blocks to a maximum size of 3 in (80mm) so that the material could be reused in road foundations. Crushing the concrete and reusing the material on site brought considerable savings compared to the costs of transporting the waste material and paying landfill fees.

"Instead of traditional crushers we used Viper slow moving drum crushing bucket to crush the concrete blocks," says excavator operator Tatu Kantola. "We have experience of the jaw crushers, but we selected the Viper VPCH 21 crushing bucket for its superb capacity. Not having to perform daily maintenance helped us keep the tight schedule"

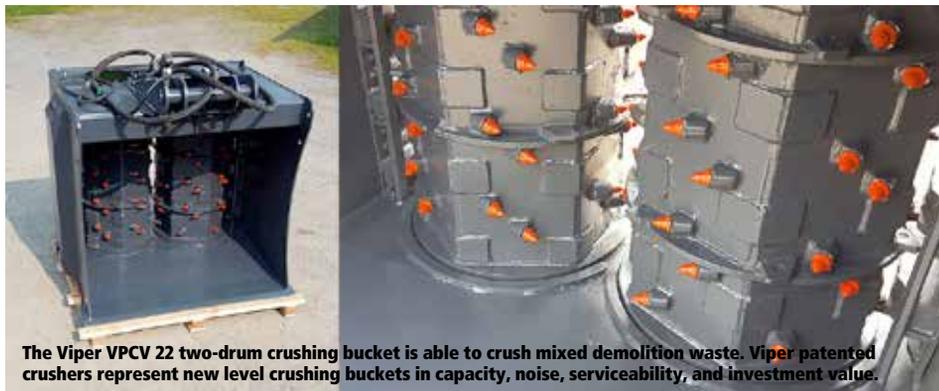
The Viper VPCH 21 is a one-drum crushing bucket. The slow-moving, 40 rpm, large 27.5-in (700 mm) drum with hard metal tips crushes the material against the counter teeth. Using the bottom grid Viper crusher is able to reduce the fragmentation from standard 6 in (150 mm) down to a 2.3 in (60mm). The larger VPCV 22 is a two drum crusher bucket, in which the drums rotate opposite direction crushing



Tatu Kantola crushes concrete with Viper VPCH 21.

the material between the drums. The crushing capacity of VPCH 21 was approximately 94 tons per hour, about double compared to conventional crusher buckets. The .5-in (12mm) rebar just dropped through the bucket and did not cause any delays. In rare cases when the steel bar bent around the tooth, it was easy to loosen it simply by counter-rotating the drum. Because the pulverizers created little dust, only minimal dust suppression systems were needed.

All Viper drum crusher buckets are able to crush hard demolition materials, such as concrete and tiles, and aren't bogged down by mixed materials. Soft asphalt, tarmac, fine materials, wood, and mixed waste do not cause any jamming or capacity constraints.



The Viper VPCV 22 two-drum crushing bucket is able to crush mixed demolition waste. Viper patented crushers represent new level crushing buckets in capacity, noise, serviceability, and investment value.

DEMCON 2018, A True Demolition Show in Stockholm, Sweden

The demolition industry is in high gear in Sweden. There is considerable need for housing and the trend is not expected to decline in the next two years. As long as we live with this situation in the construction market, there is little risk a residential bubble will occur, which is good news for the forthcoming show DEMCON 2018.

"With the situation in the Scandinavian construction market, I think DEMCON 2018 will just at the right time," says said DEMCON project manager and PDA magazine publisher Jan Hermansson. "Our contractors have a lot to do and competition is tough. It is important the players distinguish themselves from their competitors with greater knowledge, more efficient machinery, tools and methods. Suppliers will be challenged in this competitive market so DEMCON will be an important meeting place."

DEMCON 2018, to be held at the InfraCity north of Stockholm, will be the seventh edition of the show since it was first staged in 1998. The focus is the same since the start and includes a number of demolition services. Demolition encompasses sectors such as concrete sawing and drilling, demolition of all sorts, grinding and polishing of concrete floors, recovery of demolition residues, remediation, dust handling, hydrodemolition, and more.

"During the nearly 30 years we worked with the demolition industry, it is interesting to note that many entrepreneurs have embraced so many more technologies than they originally worked with," Hermansson says. "To offer demolition services or grinding concrete floors is now almost a matter of course if you are a concrete cutter for example. That has happened a lot in this industry and it is precisely this development DEMCON has communicated since the late 1990s."

DEMCON 2018 will be held September 27-28, and many exhibitors have already booked their space. There will be two show days at InfraCity with an indoor and outdoor area as usual. On the evening of September 27, the Swedish demolition industry will hold its own event, the DEMCON-kalaset. The winners of the Swedish Demolition Awards will also be crowned at this event. The nomination process is already in full swing and those who wish to nominate contractors or manufacturers should to submit their nominations at www.professionelldemolering.se.

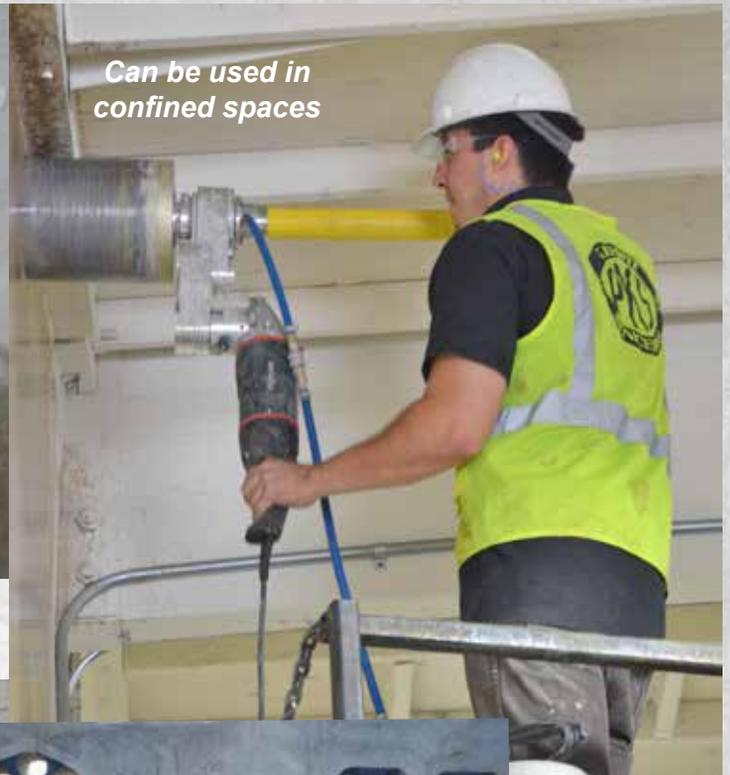
"It's always fun to start preparing for a new DEMCON event and we always start about a year beforehand," Hermansson says. "The show's new website is now live so exhibitors can easily book space online."

www.demcon.se



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