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**WORLD OF CONCRETE**

North, Central and South America

**2018**

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**Postal address:**  
 Riverbends Publishing, LLC, PDa Magazine,  
 P.O. Box 552, Nokesville, VA 20182, USA

**Phone:** +1 703 392 0150

**E-mail Editorial Office:**  
 editorial@pdamericas.com

**Web Site:**  
 www.pdamericas.com

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**EDITORIAL STAFF**

**Senior Editor:** Jim Parsons  
 jim.parsons@pdamericas.com

**Editor-in-Chief:** Jan Hermansson  
 jan.hermansson@pdamericas.com

**Assisting Editor-in-Chief**  
 Anita do Rocio Hermansson  
 anita.hermansson@pdamericas.com

**Editor North America:** Jim Parsons  
 jim.parsons@pdamericas.com

**Editor South America:** Luiz Carlos Beraldo  
 luizcarlosberaldo@gmail.com

**Junior Editors:** André Hermansson  
 andreviniucugogola@gmail.com

Vitor Hermansson  
 vitor@live.se

**CORRESPONDENTS**

Andrei Bushmarin  
 andrei.bushmarin@pdworld.com

Mikael Karlsson  
 mikael.karlsson@pdworld.com

**SALES**

**Sales Director North & South America 1**  
 Darren Dunay  
 Riverbends Publishing, LLC, PDa Magazine  
 P.O. Box 119, Westwood, NJ 07675, USA  
 Phone: +1 201 781 6133,  
 Fax: +1 201 664 1829  
 darren.dunay@pdamericas.com

**Sales Director North America 2**  
 Andrei Bushmarin  
 Phone: +7 921 949 27 81  
 andrei.bushmarin@pdworld.com

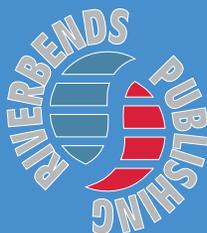
**Sales South America 2**  
 Eduardo Kubrick  
 Phone: +55 11 999494544  
 eduardo.kubrick@pdamericas.com

**Sales Europe and rest of the world**  
 Phone: +46 8 585 700 46  
 sales@pdamericas.com

**Publisher**  
 Jan Hermansson

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# "QUESTIONING THE ANSWERS"

So I was talking to one of my cats the other day, and I told her...

What? It's odd that I talk to my pets? C'mon, now. If you have some critters around your home, I'm sure you and your family members talk to them—offering praise when they've done well, admonishing them when they've misbehaved, or simply asking a rhetorical question because they're the only ones around to hear it.

Naturally, none of us expect our pets to understand what we're saying, at least beyond simple commands, much less respond with any wisdom or unexplored insights. (No doubt they're equally flummoxed by our inability to comprehend them—"What part of 'feed me' do you not understand, human?")

The point is that in any kind of business—construction, manufacturing, publishing, whatever—we all need good, reliable sources of information and ideas that will help us solve problems, make decisions, and generally keep our work and ourselves on the right track. Sometimes, it's a perspective we've come to rely on over the years—a colleague, teacher, spouse, or friend. Other times, it's someone who's path has just happened to cross ours at the opportune time—an author on a particular topic, a product representative at a tradeshow, or a fellow elbow-bender occupying the next stool at the local tavern.

But note those operative words, "good" and "reliable." We at PDa magazine like to think of ourselves as a good, reliable source of news and information about happenings in concrete construction and demolition. We don't profess to have all the answers, of course; just a means for piquing your interest or adding to your knowledge base.

And if you want to know more—say, which machine might be best for long-term use or a particular application—you can contact the manufacturer or sales rep for more information, or chat with others who are doing the same thing. (The Concrete Cutting Nutters group on Facebook, which we've reported on before, is about as good an example of industry-oriented crowdsourcing as you'll find.)

Of course, all of us face dilemmas and decisions that are far more intricate, and require deeper thought and consideration. Expertise and objectivity are essential, because what you need to hear is rarely the same as what you want to hear.

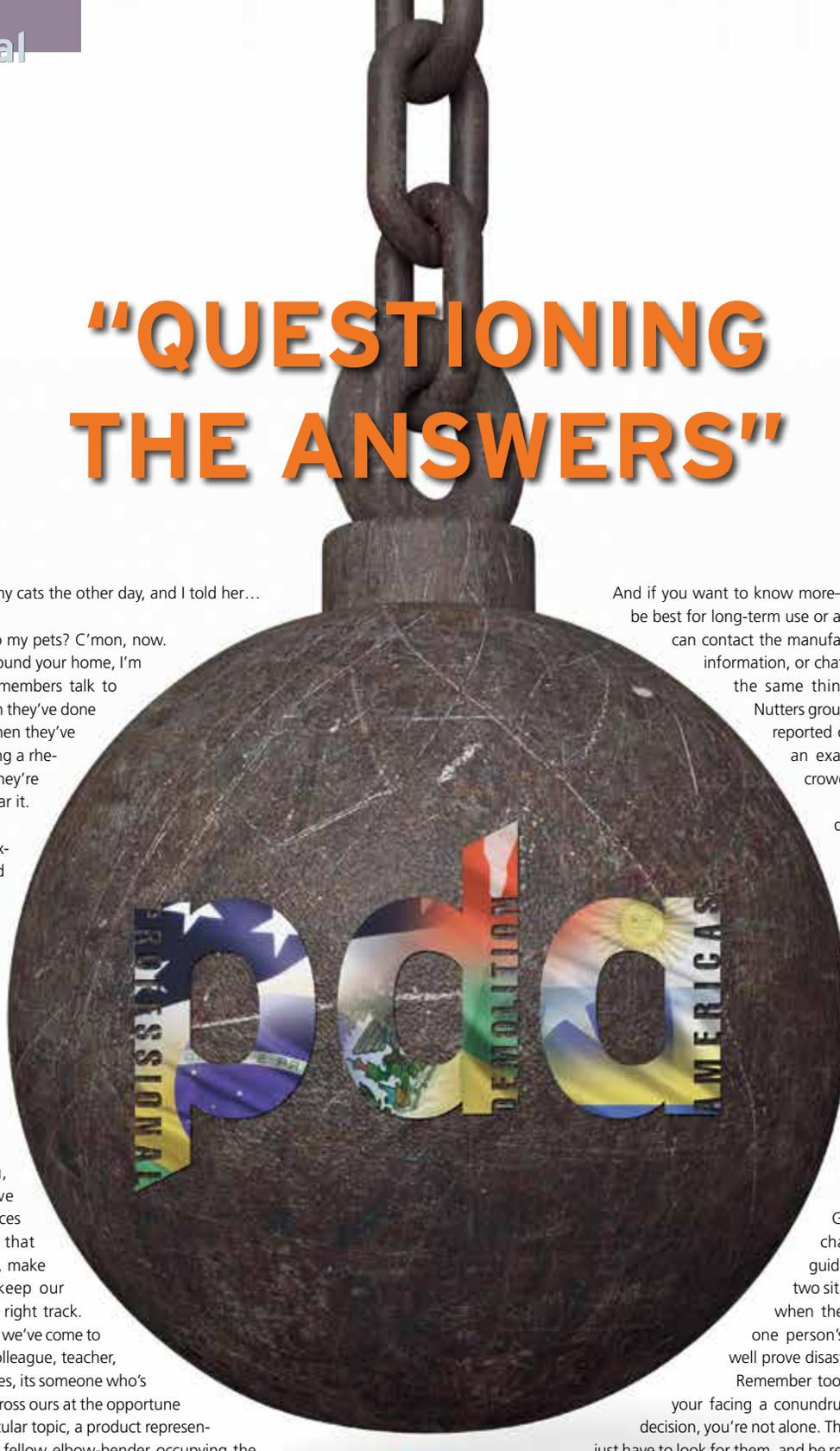
So with a new year on the horizon, this might be a good time to think about who you can turn to for help in solving problems. If it's an area that's terra incognita to your range of experience, Googling the nature of your challenge may provide some guidance. Just remember that no two situations are alike, particularly when they involve other people, so one person's successful approach may well prove disastrous to you.

Remember too that regardless of whether you're facing a conundrum or a literal life-changing decision, you're not alone. The answers are out there; you just have to look for them, and be ready to act on what you find.

At least that's what my cat tells me, anyway.

**Best wishes for a happy, healthy, and prosperous 2018 from all of us at PDa!**

**Jim Parsons, Senior Editor**  
jim.parsons@pdamericas.com

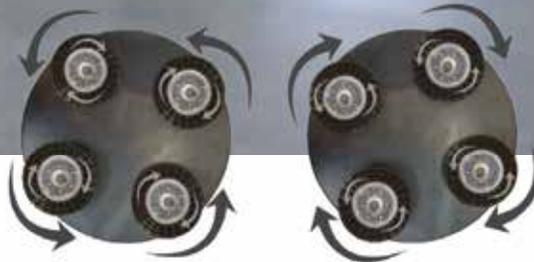


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## Construction & Demolition Not Affected By China's "National Sword"

The controversy surrounding China's recent decision to tighten standards for incoming recyclable goods is not seriously affecting the recycling of construction and demolition (C&D) materials, according to the C&D Recycling Association. The so-called "National Sword" initiative affects plastics, mixed paper, and cardboard from packaging materials. As a percentage of C&D, plastics and fiber typically make up less than 1% of the total weight of recyclables recovered. The remaining recovered materials—commonly concrete, sheetrock, and wood—have local and domestic markets, while metals are exported to other countries.

Because C&D is not affected by China's actions, its recycling rates should stay steady in the face of changes occurring in other traditional curbside collected commodities. As a result, governmental entities concerned that their recycling rates are going to be reduced should strongly consider C&D recycling as a way to keep those recycling rates up.

"By weight, C&D materials are the largest waste stream in North America," says CDRA President Troy Lautenbach, owner of Lautenbach Recycling, Mt. Vernon, Wash. "And because the National Sword actions don't affect the C&D industry like it does our fellow recyclers, state, and local officials should look to C&D to maintain strong recycling rates and continue to market materials locally instead of internationally."

[www.cdrecycling.org](http://www.cdrecycling.org)

## AGC Survey Finds Growing Difficulty in Finding Qualified Craft Workers

Nearly three-quarters of US construction firms report they are having a hard time filling hourly craft positions that represent the bulk of the construction workforce, according to the results of an industry-wide survey conducted during the summer by Autodesk and the Associated General Contractors of America. Of the more than 1,600 survey respondents, 70 percent said they are having difficulty filling hourly craft positions. Craft worker shortages are the most severe in the West, where 75 percent of contractors are having a hard time filling those positions, followed by the Midwest where 72 percent are having a hard time finding craft workers, 70 percent in the South, and 63 percent in the Northeast. The labor shortages come as demand for construction continues to grow. Construction employment expanded in 258 out of 358 metro areas that the association tracks between July 2016 and July 2017, according to a new AGC analysis of federal construction employment data. Growing demand for construction workers helps explain why 67 percent of firms report it will continue to be hard, or get harder, to find hourly craft workers this year.

Tight labor market conditions are prompting firms to change the way they operate, recruit and compensate workers. Most firms report they

## Atlas Copco Announces Board Members for New Company

The Board of Directors of Atlas Copco AB has appointed four additional members of the Board of Directors of Epiroc AB, a new wholly-owned subsidiary that will focus on the mining, infrastructure, and natural resource sectors. The new members are:

Johan Forssell, President, CEO, and Board member of Investor AB.

Anders Ullberg, Chair of the Boards of mining and smelting specialist Boliden AB, and nuclear power company Studsvik AB.

Ulla Litzén, a member of the board for Alfa Laval AB, a heat transfer, separation and fluid handling specialist.

Lennart Evrell, President and CEO, and Board member, of mining and smelting specialist Boliden AB.

In addition, former Atlas Copco President and CEO Ronnie Leten has been named to chair the Epiroc board. Leten is also chair of Electrolux AB.

Additional individuals will be appointed to Epiroc's Board of Directors in the near future.

[www.epiroc.com](http://www.epiroc.com)



are making a special effort to recruit and retain veterans (79 percent); women (70 percent) and African Americans (64 percent). Meanwhile, half of construction firms report increasing base pay rates for craft workers because of the difficulty in filling positions. Twenty percent have improved employee benefits for craft workers and 24 percent report they are providing incentives and bonuses to attract workers. Forty-six percent of firms also report they are doing more in-house training to cope with workforce shortages while 47 percent report they are increasing overtime hours and 41 percent are increasing their use of subcontractors. In addition, 22 percent report they are increasing their use of labor-saving equipment, 11 percent are using offsite prefabrication, and 7 percent are using virtual construction methods such as Building Information Modeling (BIM).

[www.agc.org](http://www.agc.org)

## AEM Supports Hurricane Irma Disaster Relief with \$5000 American Red Cross Donation

The Association of Equipment Manufacturers (AEM) has donated \$5,000 to the American Red Cross to assist with Hurricane Irma relief efforts. The contribution follows the Association's previous \$5,000 donation in response to

Hurricane Harvey. "These natural disasters have affected, and will continue to impact, hundreds of thousands of people," says AEM President Dennis Slater. "We are glad to be able to support the humanitarian effort alongside our members who are providing equipment such as generators and utility and construction equipment to help restore quality of life," Slater adds that many attendees to ICUEE, The Demo Expo trade show, are also the frontline workers in the cleanup in Texas and Florida. "Utility industry professionals know first-hand the challenges involved and have always demonstrated their willingness to help those in need through the work they do in recovery efforts," he says.

[www.aem.org](http://www.aem.org)



## AEM's Megan Tanel Earns Exhibitions Industry's Distinguished Service Award

The International Association of Exhibitions and Events (IAEE) has announced that Megan Tanel, senior vice president exhibitions and events of the Association of Equipment Manufacturers (AEM), is the 2017 recipient of the IAEE Distinguished Service Award. This award recognizes IAEE members' extraordinary service and contributions that have furthered the growth and development of IAEE and the exhibitions industry. The winners serve as industry role models. "I was completely surprised by this honor and truly appreciative of the recognition," says Tanel. "I continue to work to balance the needs of AEM members with the value they can gain through an innovative and progressive exhibitions industry. I thank IAEE; it is a privilege to serve and support who work to make face-to-face events successful." Tanel's 20-plus-year career with AEM includes show director of the Association's CONEXPO-CON/AG, ICUEE-The Demo Expo, and World of Asphalt exhibitions. She is also a member of AEM's senior leadership team. Tanel is a past IAEE chair and has served on its Board of Directors since 2010. She received the IAEE Woman of Achievement Award in 2017.

[www.aem.org](http://www.aem.org)

## Construction Industry Adds 28,000 Jobs in August; Worker Shortage Remains a Challenge

Construction employment increased by 28,000 jobs in August, following a dip in hiring and spending in July. However, contractors face a lack of experienced workers, according to an

analysis of new government data and a new workforce survey by the Associated General Contractors of America. Association officials said construction job growth would have been even higher but a majority of firms report having a hard time finding qualified workers.

"Construction firms have stayed busy, adding employees in the past year at nearly twice the rate of employers throughout the economy," says Ken Simonson, AGC's chief economist, "but more than two-thirds of contractors report difficulty finding craft workers as the number of unemployed, experienced construction workers hit a 17-year low in August." Simonson adds that although construction spending has fluctuated recently, "many contractors are still looking for qualified craft workers and project managers."

Construction employment totaled 6,918,000 in August, an increase of 28,000 for the month and 214,000, or 3.2 percent, over 12 months. Industry employment had dipped by 3,000 in July. Simonson notes that the growth rate from August 2016 to last month was nearly double the 1.7 percent uptick in total nonfarm payroll employment over that period. The number of unemployed persons whose last job was in construction fell for the eighth consecutive year to 448,000, the lowest August total for the series since 2000.

"With such a small pool of unemployed construction workers available, it is no wonder that 70 percent of the respondents to the association's workforce survey released this week said they were having trouble filling a variety of hourly craft positions," Simonson says. "Half or more of the 1608 respondents said they were having trouble finding carpenters, bricklayers, electricians, concrete workers or plumbers. Some salaried positions—notably project managers and supervisors—are also hard to fill."

A separate government report today showed construction spending in July, the latest month available, totaled \$1.21 trillion at a seasonally adjusted annual rate, a decrease of 0.6 percent from the rate in June, but an increase of 1.8 percent from the July 2016 rate. Simonson says the year-over-year growth was consistent with contractors' reports that they still have plenty of projects and need more workers. Construction officials urged federal, state, and local leaders to act on measures outlined in AGC's Workforce Development Plan designed to help recruit and prepare more young adults for high-paying construction careers. In particular, they urged members of the Senate to pass a new Perkins Act that has already received widespread bipartisan support in the House. The measure increases funding for and reforms career and technical education programs, so more schools can offer construction- focused programs.

"Exposing students to construction as a career path will encourage more of them to pursue these high-paying careers," says Stephen E. Sandherr, AGC's chief executive officer.

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## Event Calendar

### World of Concrete 2018

January 23-26, 2018  
Las Vegas Convention Center,  
Las Vegas, USA  
[www.worldofconcrete.com](http://www.worldofconcrete.com)

### Intermat 2018

World of Concrete Europe  
2018  
April 23-28, 2018  
Park de Exposition de  
Paris-Nord Villepinte,  
Paris, France  
[www.intermat.fr](http://www.intermat.fr)

### DEMCON 2018

September 27-28, 2018  
Infracity, Stockholm, Sweden  
[www.demcon.se](http://www.demcon.se)

### The Rental Show 2018

February 19-21, 2018  
Ernest N. Morial Convention  
Center, New Orleans, USA  
[www.therentalshow.com](http://www.therentalshow.com)

### Demolition 2018

US National Demolition  
Association Convention 2018  
February 22-24, 2018  
Austin Convention Center,  
Austin, USA  
[demolitionassociation.com](http://demolitionassociation.com)

### CSDA Convention 2018

March 6-10, 2018  
Grand Wailea Resort,  
Maui, Hawaii, USA  
[www.csd.org](http://www.csd.org)

### IACDS Convention 2018

May 20-22, 2018  
Tokyo, Japan  
[www.iacds.org](http://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](http://www.sobratema.com)

### Concrete Show 2019

February 13-15, 2019  
São Paulo, Brazil  
[www.concreteshow.com.br](http://www.concreteshow.com.br)

### Bauma 2019

April 8-14, 2019  
Messe München,  
Müncehn, Germany  
[www.bauma.de](http://www.bauma.de)

## July-August Construction Spending Increases in Most Categories; Year-Over-Year Changes Are Mixed

Most major construction spending categories increased from July to August, but activity was mixed compared to spending levels a year earlier, according to an analysis of new government data by the Associated General Contractors of America. AGC officials noted that big drops in public investments mean infrastructure will continue to deteriorate and impede economic growth.

"It is encouraging that spending rebounded in August for many types of residential, private nonresidential and public projects," says Ken Simonson, AGC's chief economist. "However, the August numbers also show that public and private nonresidential construction are continuing to slow or fall below last year's levels. Spending patterns are likely to be uneven through next year, as previously hot categories cool off but others revive."

Construction spending in August totaled \$1.218 trillion at a seasonally adjusted annual rate, an increase of 0.5 percent from the July total and up 2.5 percent from a year earlier, Simonson says. He notes that all major categories had gains for the month but private nonresidential and public construction totals were lower than a year ago, while single- and multifamily construction both rose on a year-over-year basis.

Private nonresidential spending grew 0.5 percent in August, after two months of steep declines, but was 2.5 percent below the August 2016 level. The largest private nonresidential segment was power construction (including oil and gas field and pipeline projects), which gained 0.5 percent for the month but dropped 7.4 percent from August 2016 to August 2017. The next-largest segment, commercial (retail, warehouse, and farm) construction, rose 0.1 percent for the month and 10.4 percent year-over-year. In contrast, manufacturing construction plunged 4.3 percent for the month and 20.8 percent from a year earlier. Private office construction increased 1.3 percent from July, but only 0.2 percent since August 2016.

Public construction spending climbed 0.7 percent from the prior month following large decreases in June and July. But public spending skidded 5.1 percent from August 2016 to August 2017. Highway and street construction declined 1.3 percent for the month and 6.0 percent from a year earlier.

Among other major public infrastructure categories, spending on transportation facilities such as transit and airport construction rose 0.8 percent for the month, but slipped 0.4 percent year-over-year. Spending on sewage and waste disposal plummeted 1.2 percent and 16.1 percent, respectively. Spending on water supply rose 2.6 percent in August but fell 6.4 percent year-over-year. Public education construction was up 3.5 percent in August, but down 2.8 percent over 12 months. Private residential construction spending increased 0.4 percent between July and August and 11.6 percent over

the year. Spending on multifamily residential construction grew 0.9 percent in August and 2.3 percent from a year ago, while single-family was up 0.3 percent for the month and 11.1 percent from the August 2016 rate.

[www.agc.org](http://www.agc.org)



## Genesis Promotes Mike Booth to Product Manager

Genesis Attachments announces Mike Booth has been promoted to product manager. In this newly created role, Mike will be responsible for internally managing the recently introduced GHB Hydraulic Breaker and GCG Cyclone Rock and Concrete Grinder product lines. He will also work with demolition, construction, road and bridge, utility, excavation, and trenching customers to further develop these product lines to ensure they meet end user needs. Mike has served as the Genesis Northeast & Mid-Atlantic regional manager since January 2016. He has nearly 20 years in the construction equipment industry, much of which were focused on the sale and promotion of hydraulic breakers. His industry experience and knowledge make him a valuable customer and application resource.

[www.genesisattachments.com](http://www.genesisattachments.com)

## TEREX MPS Names New Canica Business Development Manager for the Americas

Terex MPS has named Gareth Orritt as its New Canica Business Development Manager. In his new role, Orritt will be responsible for developing the sales and distribution of the Canica VSI product range. Gareth has more than 20 years' experience in the crushing and screening industry. Prior to joining Terex MPS, he held product line and sales management positions with both the Metso (Barmac) and Sandvik VSI product ranges.

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[www.terexmps.com](http://www.terexmps.com)



## Dynaset Dealer Meeting Gathers Dealers from Around the Globe

DYNASET's 2017 Dealer Meeting took place in Tampere, Finland. A large number of Dynaset dealers made the long journey to receive training, new insights, and networking. The first day was a training day, with a lot of information about new products and innovations. The dealers also shared their knowledge. On the second day, the dealers visited Dynaset's factory on the way to the MAXPO trade show, where some of the new innovations were introduced. Dynaset would like to thank all the participants for attending, and look forward to welcoming them again next year.

[www.dynaset.com](http://www.dynaset.com)



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## Volvo CE Appoints New Illinois Dealer

Volvo Construction Equipment (Volvo CE) recently appointed Alta Equipment Company as its authorized dealer in central and northern Illinois. The company will open new locations in the region specifically designed for the needs of the construction equipment market.

Alta Equipment Company has represented Volvo CE since 2009 in Michigan, carrying all of Volvo CE's product lines as well as some allied products that complement the Volvo CE offerings.

"We are excited about our expansion into Illinois because it is another opportunity

for Alta Equipment Company to build upon its mission of being a total solution for the construction and industrial markets and to continue to invest in the best products and people," said Rob Chiles, president of the construction equipment division of Alta Equipment Company.

Alta has also been among the fastest growing Volvo CE dealers in the U.S. Now with the capability in central and northern Illinois, Alta is positioned with a comprehensive product and service offering aimed at developing enduring customer relationships.

[www.volvo.com](http://www.volvo.com)



## GSSI Offers Extensive Training Programs on GPR Equipment Use

GSSI offers comprehensive training programs for new and existing customers on how to use GSSI equipment safely and effectively in the field. Classes are available for the complete range of GSSI products and is conducted by a team of four full time trainers. The majority of GSSI's training classes are taught at its headquarters in Nashua, N.H. This facility has two classrooms equipped with computers for students to use and two hands-on training areas featuring an indoor utility test pit. For customers on the West Coast, GSSI offers classes six weeks a year in Henderson, Nev.

All of the classes are complimentary during the initial two-year warranty period, and last from one to three days. They can be taken for a fee if students haven't purchased equipment or are outside of the warranty

period. Popular offerings include classes on BridgeScan, RADAN 7, RoadScan, StructureScan Mini XT, StructureScan Pro, and UtilityScan. Most classes are geared towards the basic learner, but advanced classes are available for those who have at least six months of experience working with the equipment. Training courses generally require no prerequisites or prior experience with the equipment and technology. For advanced users and those looking to drill deeply into the technology, GSSI can add any additional training or engineering resource.

GSSI also offers live online webinars, and on-site training upon request. The latter courses can be customized or cover the standard material.

[geophysical.com/training.htm](http://geophysical.com/training.htm)

## Volvo CE Fuels Workforce Development in North America

Volvo Construction Equipment is continuing its support for the construction industry and helping to address the skills gap. Teaming up with its dealer Highway Equipment & Supply, Volvo CE donated equipment, including an EC220D excavator, to the operator training program at the Pennsylvania College of Technology in Williamsport. "The placement rate of our operator program is around 96 percent, says Ryan Peck, the school's operator training program instructor. "The demand is large, as a lot of our older generation of operators is retiring."

Volvo CE also participated in SkillsUSA and Skills Compétences Canada's annual competitions, which took place in Kentucky and in Manitoba, respectively. During the events, Volvo CE and its partners — American dealer Rudd Equipment Company and Canadian dealer Westcon Equipment & Rentals Ltd. — exhibited equipment, offered students simulator training, and participated in panels discussing skills students needed to stay competitive in the industry. The SkillsUSA National Leadership and Skills Conference attracted more than 15,000 students, teachers, education leaders, and representatives from over 600 national and regional corporations, trade associations and labor unions. The Skills Canada National Competition attracted 7,500 students from across Canada. More than 500 students from secondary or post-secondary schools were tested on their skills in six different sectors, including construction, manufacturing and engineering, employment, information technology, transportation, and service.

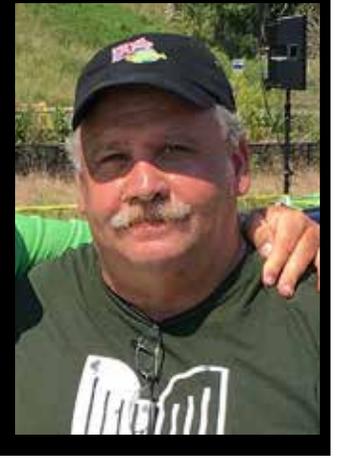


## Mark Krchmar 1960-2017

PDa Magazine is very sorry to report on the passing of Mark Krchmar. Mark was a great concrete cutting and demolition professional and PDa has reported on his work several times over the years. He was also active in several Facebook groups for concrete cutters and also a great mechanic renovating nice old cars.

Mark came from Pittsburg, PA and worked until his passing at Concrete Technology Service Mid-Atlantic, Inc., in Glenn Dale, Md. Mark also lived in Glenn Dale.

In a post on the Concrete Cutting Nutters Association Facebook page, William Greenwood eulogized Mark as, "a man who had more passion for the concrete cutting industry than anyone. He has been many places and had experiences in other countries. He's respected by many. He also had a love for old cars. Mark posting his car pics on Facebook will be missed. Mark, hope your up there is speeding around in your Porsche. RIP, and our thoughts and prayers go out to his family and friends."



## Another Factory Expansion for Dynaset



Dynaset is preparing for future further growth by expanding its factory in Ylöjärvi, Finland. Construction has started on an additional expansion that will be completed in 2018. The Ylöjärvi facility has undergone several expansions and

improvements since it was built in 2001. A 2005 extension was followed two years later by the construction of a new building. The most recent expansion occurred in 2011.

[www.dynaset.com](http://www.dynaset.com)

# US Saws: Coa Experts in Sp

US Saws holds a unique position in North America's concrete cutting and grinding industry. It is a medium-sized company focusing on customized machinery and accessories, and enjoying the advantage of creativity and flexibility that the industry's behemoths can only envy. Andrei Bushmarin reports from its factory in Santa Ana, Calif.

North America is a trendsetter and arguably the world's biggest market in surface preparation. It boasts numerous players all jostling for a leading position in the industry. In order to survive and thrive in this cutthroat environment, suppliers need to offer first-rate products backed by superior service. It was around this principle that US Saws' founders built their company.

### Three musketeers

The original firm, called Sawtec, was established by Bill Glynn Sr, Warren Duncan, and Bruce Root in 1991. Friends since high school, Glynn and Root gained experience in construction machinery working at a company called Sinco, which manufactured air-powered saws. Sinco was also the first supplier in the US to sell dry diamond blades. New Zealand-born Duncan is an engineer with a degree from Auckland University and many patents to his name. He already had considerable experience of surface preparation in the early 90s, when the industry was still in its infancy. But, the growth potential was obvious.

Duncan met Glynn on a construction project in New York, and they soon decided to launch their own surface preparation company, Sawtec. Several years later its steady progress attracted the attention of US Filter/Blastrac. In 1998, Blastrac acquired the controlling interest in Sawtec. Three years later, Duncan, Glynn, and Root joined forces again and set up US Saws. Because a non-competition agreement with Blastrac precluded them serving the surface preparation industry, US Saws focused on equipment and tools for underground utilities. Solutions for the water and sewer sector currently remain a core business for the company.

### Generation change and buyout

In 2011, Glynn's sons Dave and Bill Jr. joined the company, having previously gained considerable experience of surface



preparation and general construction. Dave Glynn began working in the Sawtec workshop while still in high school. After graduation, with a degree in marketing, he did a brief stint at Blastrac, followed by three-years at Edco. From 2001 to 2011 he ran his own contracting firm specializing in surface preparation.

Bill Glynn Jr, who has a degree in business administration, started his career at Sawtec as a sales manager and then product specialist for the Sawtec brand at Blastrac. He left Blastrac in 2005 to become a general contractor operating out of central Florida. In 2014, there was a change in the company's ownership as Bill Glynn Sr and Bruce Root were about to retire. Dave and Bill Jr. took over two-thirds of the company in a management buyout, while Duncan stayed on as president and took charge of all engineering and product development activities, as well as factory management. Dave Glynn looked after surface preparation while Bill Jr. focused on

**Warren Duncan (left) is the company' President who is in charge of all engineering and product development activities as well as factory management. Warren is a highly qualified engineer with a lot of patents to his name;**



# East-to-Coast Specialty Tools



The US Saws team in front of the company's factory in Santa Ana, California.

national sales of equipment for underground utilities, product development and finance.

## Coast-to-coast coverage

US Saws maintains three depots strategically positioned to provide full service across North America. All manufacturing is done at the factory in Santa Ana, where some of the company's most loyal customers are based. As the majority of its business is on the East Coast, the company set up its headquarters and main sales office in Tampa, Fla. The company also runs a small sales and stock facility in Connecticut to address the needs of customers in the Northeast. Keeping manufacturing and sales facilities apart was a conscious decision aimed at helping each department focus on its respective tasks.

## Trailblazer in surface preparation

Surface preparation expertise and solutions for underground utilities are the two legs that US Saws stands on. In the surface preparation business, accounting for some 40 percent of sales, the company enjoys the reputation of an innovator.

In the late 1990s, US Saws invented and patented a

technology of dust-free grinding of industrial floors, built around an in house designed vacuum shroud. This was a groundbreaking invention that put the company ahead of its rivals and became a signature product. US Saws was also the first to develop stand up versions of hand grinders. Thanks to the smart design, the system gives the feel of a hand-held machine while providing the benefit of standing. The most current model incorporates pitch and roll control of the grinding head from a standing position.

US Saws currently offers a full range of grinder vacuum shrouds along with a choice of joint cleanout saws, crack chasing saws, dust collectors, and two-part joint filler pumps. The CC 100 walk-behind crack chaser has a height adjustment within the wheel directly beside the blade. This solution allows the entire machine to pivot at the blade without the influence of castors, which increases reliability.

Dave Glynn says that customers often spark the most original of the company's ideas; all the manufacturer has to do is listen. The extensive field experience that Dave and Bill Jr. have gained during their tenure as contractors also helps them better understand users' needs and requirements.



"The Core-EZ delivers cordless drilling in reinforced concrete with a 200mm core bit to the depth of up to 285mm, which is unmatched by the competing systems". PDA editor Andrei Bushmarin holding the core drill system.



The valve exerciser is US Saws' fastest growing product in the water and sewer division here demonstrated by Bill Glynn Jr., Vice President and the National Sales Manager



Dave Glynn operating a "dust buggy". It's a kind of joint cleanout saw that cleans out joints and collects dust and debris at the same time;



Bill Glynn demonstrating one of the company's know-hows – a stand-up version of the hand grinder;



Dave Glynn is Vice President, the Secretary and Treasurer who mostly focuses on sales and marketing of the Surface Preparation division.

### Bright outlook for the industry

The company is upbeat about the surface preparation industry's prospects. According to Dave Glynn, it will continue to grow at a steady pace as polished concrete and epoxy coatings are becoming increasingly popular with homeowners and managers of industrial facilities. Polished concrete has proven itself as a sustainable flooring solution while the resinous flooring market, boasting innovative systems with metallic reflectors and other decorative elements, is constantly expanding, particularly in the high-end residential market. There will always be a demand for coatings among owners of food-processing facilities, airplane hangars, and parking garages. Another positive trend, notes Dave, is that more people are becoming educated on the importance of surface preparation. As such, they are less inclined to economize when carrying out a renovation.

### New horizons are beckoning

Having secured its position in North America's market, US Saws is now looking to expand internationally on a larger scale. Currently its overseas sales account for about 1 percent, so the company is looking for partners outside the US. Apart from comprehensive expertise in surface preparation, US Saws has other innovative solutions to offer to domestic and international customers.

The Core-EZ core drilling system and cordless valve exerciser are examples. The Core-EZ is a mounted handheld system effectively combining the precision of a rig-mounted drill with compactness and ease of operation of a hand-held machine. It breaks down to a compact size making transportation and set-up much easier. The system is fixed on to a wall at the centre of the core so there are no additional mounting holes that would need patching-up once the job is done.

The Core-EZ delivers cordless drilling in reinforced concrete with a 78.7-in (200mm) core bit up to 112.2 in



US Saws's headquarters and main sales office in Tampa, Florida.

(285mm), which is unmatched by competing systems. The manufacturer foresees a bright future for it, particularly with heavy-duty drillers. A battery-powered version is available on sites without mains electricity.

The valve exerciser is US Saws' fastest growing product in the water and sewer division. Featuring a foot restraint, the battery-powered machine is portable and powerful. It turns in forward and reverse directions, and has a counter to count turns on the valve.

Another niche product from US Saws is a line of air powered saws. According to the company, air saws are a viable alternative in situations when gas, hydraulics or electricity cannot be used. These machines will be on display at the World of Concrete show in January 2018 along with a new joint saw, a redesigned dust shroud for hand grinders, and a new joint fill polyurea pump.

[www.ussaws.com](http://www.ussaws.com)



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Rotar North America Inc. is based in Cleveland, Ohio and offers heavy duty demolition attachments. The range includes mobile hydraulic shears, pulverizers, demolition shears and material handling grapples to serve both American and Canadian demolition, scrap metal and recycling industries.

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at [www.rotar.com](http://www.rotar.com)**



# Concrete Cutting Firm Makes Metro Smoother with the Help of Husqvarna

The concrete cutting company DS Håltagning has won the prestigious mission to be part of the renovation of Stockholm's Metro system. The firm has been tasked with cutting away a large number of foundations to make way for new escalators. In addition to cutting off concrete foundations that will be replaced by steel beams, DS Håltagning has a lot of arches to cut where the thickness is between 27.5 and 31.5 in (70 to 80 cm).

Changing an escalator takes on average five days. Each escalator to be replaced has an average of 12 concrete foundation bases each about 1.5 tons which must be ejected. When the foundations are gone, the new escalator is transported at night to the station, when the subway is closed, via the tramways and lifted in place.

DS Håltagning has two to three men on each job. For the new escalators, the concrete foundations are replaced with steel beams instead. It's a quite tough schedule and everything has to be completed in time for the new escalator assembly to be installed.

Although the worksites in the subway are well covered, it is important for DS Håltagning to disturb the travelers as little as



**Full-time sewing with Husqvarna's WS 440 and Powerpack PP 440. The blade of the picture is a silenced Husqvarna 1410.**



**Every older escalator to be replaced has an average of 12 concrete foundations to be wasted. Each foundation weighs between one to two tons.**

possible in terms of noise and vibration. For that reason, the company works exclusively with machines and tools from Husqvarna Construction Products. The equipment includes two WS 440 wall saws and PP 440

powerpacks. The blades also come from Husqvarna, and are silenced by the 1410 model. About one blade is consumed per subway station.

**Tony Sundqvist is ready to cut the escalator's top foundation, which is always more powerful than the others and needs to be divided into two parts. A top foundation weighs up to 2.5 tons. It's crowded between the foundations so the blade guard has to go off.**

The relationship with the Husqvarna supplier is also good, which is an important interaction on difficult jobs like those in Stockholm's metro. Here everything has to work. If a saw should break, it must be resolved quickly and the availability of new tools must be immediate and it has worked very well.

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## Ditch Witch Partners With Utilicor

Ditch Witch has announced a partnership with Utilicor Technologies aiming to bring the benefits of advanced keyhole technology and reinstatement to contractors, municipalities and utilities globally. "Our partnership with coring technology leader, Utilicor, gives our organization a strong point of entry into the coring market," says Randy Rupp, Ditch Witch vice president of product strategy. "The new MTC100 coring attachment will complement our portfolio of mini skid steers and vacuum excavation equipment for work under paved surfaces, and it gives cities and utilities a quick, money-saving advantage."

"Utilicor is pleased to partner with Ditch Witch, allowing us to expand the reach of our coring and reinstatement technology through their dealer network," adds Marshall Pollock, Utilicor Technologies president and chief executive. "Both of our companies have spent years developing customer confidence in our brands, and we're fully committed to providing exceptional support and service to our customers. This agreement reaffirms that commitment." Coring techniques offer

significant cost and time savings. Keyhole coring technologies are approximately half the cost of traditional excavation repairs and disposal removal. "It comes down to using smaller, more precise tools and a more localized approach," says Rupp. "The result is less disruption and faster repair." In addition to the MTC100 coring attachment, Utilicor provides the market-leading reinstatement material Utilibond. Capable of supporting up to 22 tons in just 30 minutes, this pavement-bonding compound offers a permanent pavement repair that reduces public inconvenience, requires no additional paving materials, and is field-proven to be effective for more than 10 years.



## KPI-JCI and Astec Mobile Screens Release Drop-In Carbides for VSI

Drop-In carbides are now available for all models of vertical shaft impactors (VSI) from Kolberg-Pioneer, Inc. (KPI). The new industry-standard drop-in carbide wear parts will significantly decrease downtime required for service and maintenance. "We place a huge priority on the ease and quickness of maintenance on all of our products," says Tim Harms, product manager for crushing and screening products. "We understand that every second spent down drains valu-

able profits from our customers. The new carbides cut replacement time to around 20% of what it is with other solutions." The drop-in carbides can be retrofitted into existing VSI crushers from KPI.

[www.kpijci.com](http://www.kpijci.com)



## Heger Diamond Tools for the Americas

For the first time in its 110-year history, Heger of Germany is presenting its diamond sawing, drilling, and grinding products in North America. Heger will make its debut at World of Concrete, joining LISSMAC in booth O31242. Heger products are manufactured near Freiburg. All saw or drill bit segments are designed, blended, and sintered in-house. They are then laser-welded on high-quality steel tubes or cores. Only the best raw metal powders and diamond crystals guarantee a stable and reliable performance at the jobsite.

With decades of end-user experiences

Heger can provide professional diamond sawing blades for all kind of construction materials. Floor sawing blades are specifically matched with the LISSMAC machine range, but can be utilized with all other technical equipment on the market.

As a key supplier in Europe, Heger counts the largest grooving and grinding operators for its customers, since the business has emerged in Europe many years ago. In addition, Heger can supply the full range of required drill bits as well as floor preparation and grinding equipment.

[www.heger.com](http://www.heger.com)



## Brokk Introduces Intelligent Electronics

Everyone has stories of times electronics have failed. It could be because of a bad power supply, hot or cold weather, or hardware that's just difficult to fix. It's a frustrating problem that increases downtime and lowers productivity.

To minimize those problems in its machines, Brokk recently introduced a new electrical system, Brokk SmartPower™. The SmartPower intelligent motor control uses dynamic effect control to monitor temperatures of the electric and hydraulic systems. It also tracks the electrical motor's power usage and adjusts the machine to use more power in cold environments and less power in hot environments. This eliminates the need for an automatic shutoff for overheating,

as the machine's temperature is well-controlled. Brokk SmartPower also senses when a power supply is poor or faulty, making it suitable for generators or unreliable power supplies. Users can also set the electrical system to work on lower fuses or worn fuses.

The intelligent system includes hardened components and fewer moving parts. In addition, we include seven different error codes, enabling users to easily pinpoint and fix problems. The result is unparalleled reliability and industry-leading serviceability on the toughest jobs, even in remote locations.

SmartPower is on Brokk's newest machines, including the B110, B120D, B280, and B500.

[www.brokk.com](http://www.brokk.com)



## Dynaset HMG Pro Hydraulic Magnet Generator

The Dynaset HMG Pro Hydraulic Magnet Generator converts the hydraulic power of a mobile machine into magnet power for a lifting magnet. HMG Pro has the world's fastest demagnetizing time of 0.8 seconds—a lightning-fast release that improves efficiency. The user doesn't have to wait for the release of the collected material. This makes the magnet easier and predictable to use. HMG Pro is a compact hydraulic magnet generator that can be

located anywhere on a mobile machine. Generator output ranges from 3kW to 40 kW, depending on a model. An additional auxiliary AC-power output allows to produce electricity for tools, eliminat-

ing the need to drag a large diesel genset to the worksite. Compact, lightweight, and hydraulically operated, the HMG Pro can be located anywhere on a machine, as well as in a confined space, unlike magnet generators with belt installation.

[www.dynaset.com](http://www.dynaset.com)



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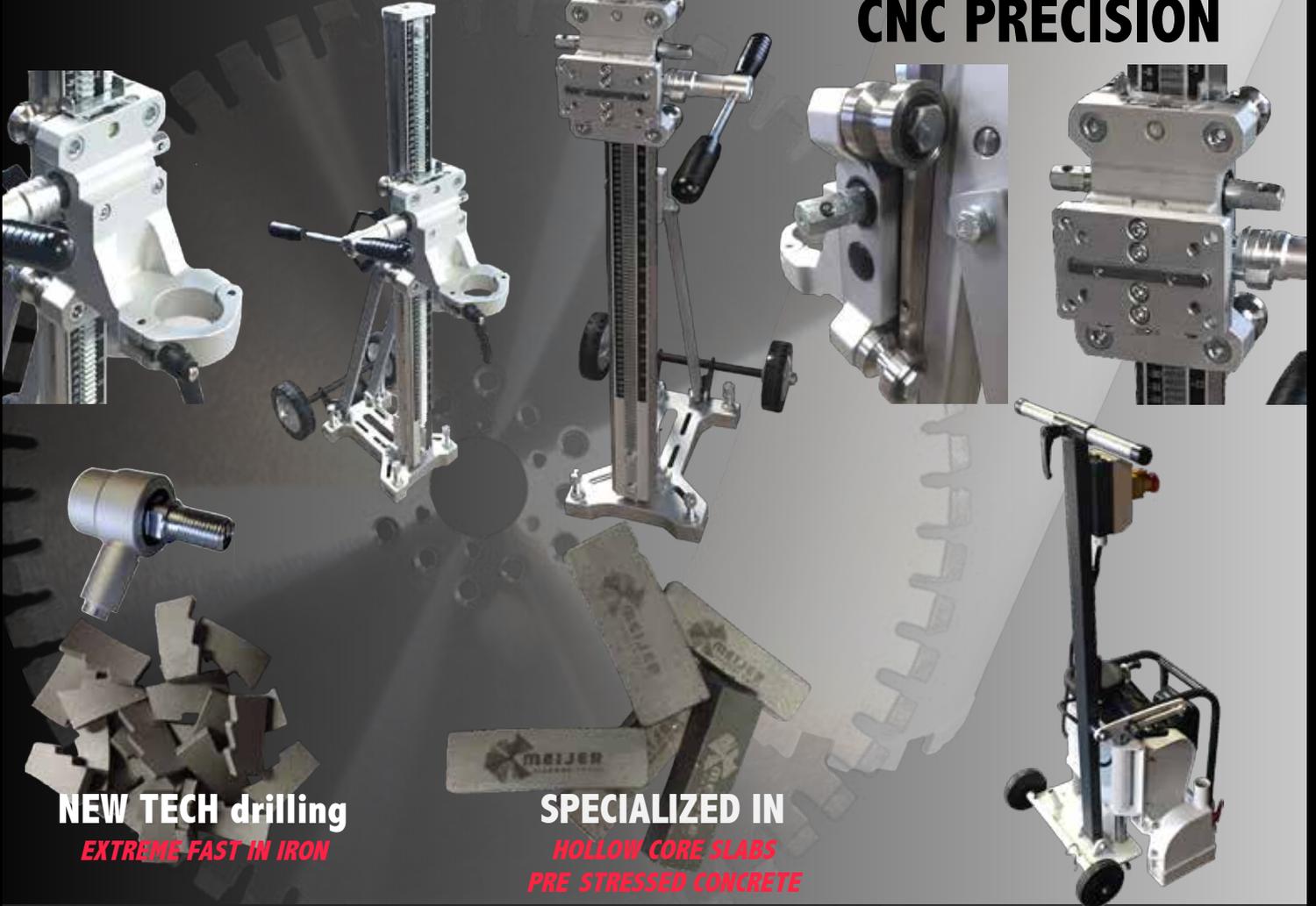


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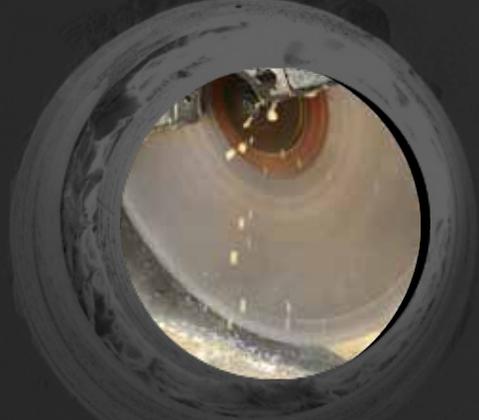
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\* **FACTORY** \*



# Brokk Clears The Way For Another Iconic Tower in Madrid

The world leading demolition producer, Brokk is playing an important role in Madrid's Cuatro Torres ("Four Towers") complex. Already home to four of the tallest skyscrapers in Spain, the complex will soon be joined by a fifth, Caleido Tower, currently under construction and scheduled for completion in late 2019. With a height of 541 ft (165m) and more than 538,000 ft<sup>2</sup> (50,000m<sup>2</sup>) of floor space, the 35-story structure will house the new headquarters and campus of IE University, as well as a clinic and shopping center.

Perfox, a leading Spanish demolition contractor, is heading up the demolition work on the site's existing structure, and is employing six Brokk machines on the project: a Brokk 500, two Brokk 180s, two Brokk 160s, and a Brokk 90. These remote-controlled demolition machines are helping to break up more than 1,308 yd<sup>3</sup> (1,000 m<sup>3</sup>) of concrete (350 hardness with three reinforcements) in the primary



walls and slabs. Large 30- and 40-ton excavators are also being used, but the building has many limited-access spaces where Brokk machines have proven to be the best option for completing the project within the tight schedule. One of the biggest challenges of the job has been the amount of extremely hard reinforced concrete to break up. The unusual power of the Brokk machines has been extraordinarily helpful in this regard, with the Brokk 500 rivaling the performance of a 30-ton excavator. And in the small, restricted spaces of the structure, safe and efficient demolition would have

been impossible without the compact, remote power of the Brokk 160.

"We're very happy with Brokk," says Ramiro Núñez, general director of Perfox. "This job would've been impossible to complete without our Brokk machines. The power and performance of these robots are comparable with much larger excavators, but we can access very small spaces with them. The Brokk 500 is a small monster, and it's working in a place where we simply couldn't bring any other excavator."

[www.brokk.com](http://www.brokk.com)

## Demolition from the Inside Out



**Scott Knightly is founder and president of the company EnviroVantage and current president of the US National Demolition Association.**

The University of New Hampshire Wildcats Stadium made an exciting setting for football games and track events, albeit with one notable exception—the announcer's box. The dark blue eyesore had to go before the start of the fall football season.

The announcer's box was heavily reinforced with 1-ft thick concrete walls, floors, and ceilings. All were strengthened with 1-in diameter rebar. What's more, space inside was limited. The box's three levels were each 500 sq ft, and only about 6 ft tall.



General contractor Charter Brothers chose to sub out the demolition portion of the project to EnviroVantage, which serves customers across the upper East Coast. EnviroVantage owner and president Scott Knightly knew demolishing the box would require extreme precision. He needed to complete the job without damaging the surrounding area, causing microfracturing in the concrete below the structure, or disturbing or endangering the students attending classes and camps in the building and on the field.

Knightly considered several demolition methods for the project, but the limited space, location, and composition made most traditional demolition methods nearly impossible. He decided to use the company's Brokk 100 remote-controlled demolition machine. He knew pairing the machine with a concrete crushing attachment would minimize most of the noise and vibrations. The machine

also delivers much more power than a worker with a handheld tool.

Starting at the top level of the announcer's box, EnviroVantage used the B100's 13-ft reach, coupled with a Darda CC340 concrete crusher's 37 tons of power, to demolish the walls around the machine from the inside.

Then crews moved the B100 down a level and demolished the ceiling and walls. Finally, they moved the machine outside the structure and continued demolition until the box was level with the top of the stands. The machine's power — and the fact that it didn't need to take breaks from the heat or get fatigued — significantly boosted productivity. The remote-control operation of the unit also kept workers away from hazards inherent in demolishing a ceiling as well as reduced the risk of hand and arm injuries related to constant exposure to vibrations.

[www.envirovantage.com](http://www.envirovantage.com) • [www.brokk.com](http://www.brokk.com)

# New grinder from Superabrasive

Superabrasive is introducing a new 20-inch/510 mm propane grinder, L20G-X, designed to improve productivity, performance and safety. This is the first propane grinder with:

## Closed loop fuel management system

Fuel-Minder is a high-performance digital fuel system featuring closed loop feedback, fuel lock-off capability, emissions safety warnings with shutdown, and an LCD screen with user interface. The system is highly responsive to changes in engine load, providing the optimum air-to-fuel ratio regardless of operating conditions, as well as improved fuel range.

## Truly variable speed engine

Thanks to its close loop fuel management system that is responsive to changes in engine load, the L20G-X grinder can be run between 610 and 1090 RPM on the grind-

ing heads, which allows for more effective grinding and extended tooling life.

## Dust Suppression Fine Mist System with 4 High Pressure Spray Nozzles

The new Lavina misting system produces 10 micron (or smaller) sized water droplets which effectively suppress and remove breathable fugitive dust particles from .1 to 1000 microns. Our approach to concrete/silica dust suppression and collection, costs a fraction of traditional dust extraction and avoids the moisture problems of common spray type system used in combination with dust extractors.

## EPA and CARB Blue Sky Recognized Engine with the highest output power in the 603cc LPG class

The much lower emissions provide safer work environment.

## Genesis Introduces Advanced Cyclone Rock and Concrete Grinder

Genesis Attachments brings new technology to the demolition, excavation and trenching, tunneling/mining and concrete grinding industries with the introduction of its GCG Cyclone rock and concrete grinder. Featuring design advancements over traditional grinders, the GCG's two-hose hydraulic system eliminates the need for a case drain line and simplifies installation. The soft start system and protective valving protect the motor from over-pressure, over-heating and misuse. Requiring minimal maintenance, the Genesis Cyclone rock and concrete grinder features heavy-duty bearings and seals to withstand harsh applications. The GCG's optimized pick patterns provide smooth and powerful operation while lower vibrations reduce machine and operator fatigue.

Additionally, the Cyclone can be used in noise-sensitive areas such as residential neighborhoods. Available with a chain, gear or direct-drive motor determined by model size to maximize performance on the respective excavator weight class, the GCG fits 7- to 125-ton excavators.

[genesisattachments.com](http://genesisattachments.com)



## Genesis New Hydraulic Breakers

Genesis Attachments announces its new GHB line of hydraulic breakers, designed for applications including demolition, general construction, road and bridge, and utility. Available in a complete range of models from 250 to 12,000 lbf (339 to 16,267 Nm) impact energy classes, the GHB features an optimized power-to-weight ratio, and speed and power that can be adjusted to match the material being broken. The dry-fire protection prevents the hammer from firing when the tool is not loaded. This important safety feature also protects key components of the hammer including the tie rods and side rods that maintain the hammer's alignment and physical integrity. Featuring a cartridge that can be refilled or changed, the unique hammer-mounted auto-lube system is triggered by the action of the GHB for more reliable and consistent lubrication, increasing uptime by eliminating manual greasing. The field-serviceable lower bushing can be rotated to expose fresh metal and extend the life of the bushing while saving significantly on wear part expense. The compressed fit upper bushing helps keep the tool and piston aligned, which is critical for optimal performance.

[www.genesisattachments.com](http://www.genesisattachments.com)



## Completely redesigned grinding head with low-friction chain gear planetary drive

The combination of the low-friction chain gear planetary drive, dust proof design and the highest power engine in 603cc LPG Class, results in the most reliable and powerful 20-inch grinder on the market. Furthermore, the perfect balance between the new frame geometry and grinding head weight delivers superior maneuverability and easy tool changes.

## Other new features:

Integrated weights with On & Off positions for adjusting the grinding pressure from 267 lbs to 364 lbs. New skirt with a flexible brush

for improved dust containment, plus the vacuum hose is now near the dust source. New LED lights – one in the front and one in the back, improve monitoring of the floor refinement. Phone charging station with a phone holder and dual USB port 2.0 (3.15 Amp). Durable stainless steel cup holder. Non-marking grey rubber tires.

[www.superabrasive.us](http://www.superabrasive.us)

## GSSI Now Offers Palm XT Antenna for StructureScan™ Mini XT All-In-One GPR Concrete Inspection System

GSSI the Palm XT, a miniaturized ground-penetrating radar (GPR) antenna that turns a basic StructureScan Mini XT into an advanced system by giving users unparalleled access in tightly spaced areas and enabling overhead scanning. Designed to withstand challenging construction sites, the Palm XT is an excellent choice for contractors who need to perform concrete scanning and utility locating services.

The 2300 MHz Palm XT antenna offers



superior depth penetration and resolution. It features full keypad control via the antenna top that allows for remote control of the user interface. The antenna has seamless software integration and provides users with three data collection modes; standard, cross polarization, and side car. Standard mode requires no special set up, and is ready for plug-and-play operation. Cross polarization mode highlights non-metallic objects, such as PVC, and deemphasizes metallic objects like rebar and wire mesh. Side car mode transitions the survey wheel to the side of the antenna, and allows it to fit into smaller spaces. The Palm Mini XT is ideal for locating rebar, conduits, post-tension cables, and voids. It can help identify structural elements, including pan deck and concrete cover, and provide real-time determination of concrete slab thickness.

[www.geophysical.com](http://www.geophysical.com)



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**T8600P** is the only choice to control the dust for your large equipment.

## FEATURES:

- ▶ JET PULSE for Pre filter Cleaning without opening machine
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- ▶ LEHR Carburetor for low fuel consumption and low emissions
- ▶ Housing cover to incase and protect the motor
- ▶ EPA (Environmental Protection Agency) certified motor
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## BENEFITS:

- ▶ SAFER, CLEANER MORE PRODUCTIVE JOB SITE. Only Ermator DUST EXTRACTORS have all the features with a three year warranty

Whether you are **SAW CUTTING, GRINDING, SHAVING** or **BLASTING** concrete, **Pullman Ermator's T8600P** will control the harmful dust. With the highest CFM and water lift in its class there is no better choice!

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- 120 Waterlift
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shows

# Welcome To

The most important annual international event of the year for concrete concrete sawing and drilling and concrete floor grinding and polishing industries is WOC (World of Concrete). WOC 2018, that will take place January 23-26 at the Las Vegas Convention Center, expects to attract 60,000 professional registrants and 1,500 leading suppliers from around the world. WOC 2018 will also be the largest World of Concrete in 9 years!



During the last decade WOC has established and even stronger position as the meeting place for the world's professionals in terms of concrete sawing and drilling, concrete floor grinding and polishing, concrete dust and slurry extraction and demolition. WOC 2018 seem to be the biggest show in 9 years and the line up of suppliers is strong. On the following pages you find and exhibitors list including the majority of suppliers in the sectors mentioned above.

#### **WOC, the chosen show**

This world-renowned industry event will continue to

bring international buyers together with U.S. exhibitors to expand business domestically and overseas. For the 13th consecutive year, the U.S. Department of Commerce has selected World of Concrete as a participant in the International Buyer Program (IBP). WOC draws significant attendance at each event, working with U.S. Commercial Services posts from around the world. World of Concrete welcomes international exhibitors to sell their concrete- and masonry-related products and services, as well as international attendee delegations from across the globe to network, test drive equipment and discover new products and services and benefit from

# To Las Vegas

# Back...

a world-class education program.

## New in 2018

The 2018 World of Concrete Education Program will include everything from interactive workshops and specialized seminars to hands-on, skill-building sessions. World of Concrete's world-class education program equips field personnel, project leaders, supervisors and owners with the latest knowledge in every facet of concrete and masonry.

New for 2018: World of Concrete competitions and exhibits will be located in the Bronze Lot, next to

South Hall. In addition to the exhibitors in this new area, returning WOC Event favorites include the John Deere Operator Challenge, the Western Star Trucks Get Tough Challenge, and the SPEC MIX BRICKLAYER 500® World Championship and much more.

## Special Product and Action Areas

WOC will once again feature special product and action areas, including:

**The Producer Center (North Hall)** : Featuring marketplace of materials, equipment, demos, and seminars for concrete producers.

## Exhibitors World of Concrete 2018

Exhibitors divided per hall and lot

Exhibiting company	Central Hall Booth No.
GPS Insight	C3402
Plexxis Software Inc.	C3424
US Fleet Tracking	C3431
Sage	C3509
Conjet AB	C3525
Autec North America	C3625
GSSI	C3719
IDS GeoRadar	C3724
KENWOOD USA	C3818
Sensors & Software Inc	C3825
SOBRATEMA	C4141
American Concrete Institute	C4203
Curb Fox Equipment, LLC	C4206
PDi Magazine	C4222
MALA GeoScience USA, Inc	C4244
Atlas Copco	C4309
Brokk Inc	C4319
American Concrete Pavement Association	C4320
International Grooving & Grinding Assn	C4322
Honda Engines	C4341
Quick Attach Attachments LLC	C4365
CSDA	C4433
Diamond Vantage	C4439
Teletrac Navman	C4471
American Society of Concrete Contractors	C4511
Dixie Diamond Concut Group	C4529
Pullman Ermator Inc.	C4537
Stihl Inc	C4631
DITEQ Corporation	C4649
Norton Clipper Construction Products	C4663
Multiquip Inc	C4802
Hilti, Inc.	C4840
Kingthai (Jikai Group) Diamond Tools	C4864
Shijiazhuang Jinbohui Tools Co.,Ltd	C4870
Zhejiang Wanli Tools Group Co., Ltd.	C4877
Diamond Products	C4880
SM-Seahorse Co., Ltd	C4972
GOMACO Corp	C5142
Terex	C5172
John Deere Construction & Forestry	C5351
IES dba Paladin Attachments	C5572
Reliable Diamond Tool, Inc.	C5586
Power Curbers & Power Pavers	C5611
CASE Construction Equipment	C5748
Gehl Co	C5845
Mustang Mfg Co Inc	C5845
Manitou America's, Inc.	C5845
Kubota Engine America Corp	C5861
Bobcat	C5873
Doosan - Infracore Con. Equip. America	C5887
Perkins	C5979
Link Manufacturing LTD	C6043
Caterpillar Inc	C6061
Digga North America	C6073
Montabert & Geith	C6113

# See!

Liebherr USA, Co.	C6272
E-Z Drill Inc	C6479
Powertrack International Inc	C6480
Disco Diamond Tools	C6482
Allied Construction Products LLC	C6773
Ready Jet	C6903
Hyundai Construction Equipment	C7213
CEJN North America	C7307
Atlas Copco	C7347
Sandvik	C7387
AUSA US	C7401
SIMEX SRL	C7439
Hitachi Power Tools	C7451
Dustless Blasting	C7488
Toku America Inc	C7513
Apollo General Insurance	C7546

## Exhibitors

CAM Sales	N1251
C.G.M. S.r.l.	N1252
ANMOPyC	N1648
Hatz Diesel of America Inc	N2121
Sonmak Diamond Tools	N2152
Dixon	N221
Pentair	N2319
DEUTZ Corp	N2637
PR Diamond Products, Inc.	N2649
Hogan Co	N2652
Antraquip Corporation	N2655
MEP North America	N2704

## Exhibitors

BASF Construction Chemicals	S10304
Blastrac	S10314
QUIKRETE	S10326
Euclid/Flowcrete/Vandex	S10338
Diamatic	S10515
QUIKRETE	S10527
Superabrasive, Inc.	S10539
ChemGrout, In.c	S10548
Dustcontrol USA	S10555
Hudson Professional Sprayers	S10601
Convergent Concrete Technologies LLC	S10605
HENAN HASINE DIAMOND TOOLS CO., LTD	S10647
Aquafin Inc	S10654
BlastPro Manufacturing, Inc.	S10704
National Flooring Equipment	S10727
International Concrete Repair Inst	S10738
JS Floor Systems	S10741
Xingyi Polishing Machine	S11012
Diamond Blade Warehouse	S11013
Concrete Polishing Solutions	S11151
Scanmaskin Sweden AB	S11239
General Equipment Co	S11413
US Saws	S11515
LATICRETE International, Inc.	S11526
Jiangyin Likn Industry Co., Ltd.	S11539
Zhengzhou Sinoblade Industrial Co., Ltd	S11541
Xiamen Kaiyuan Diamond Tools Co.,Ltd	S11545
Ashine Diamond Tools Co.,Ltd	S11613
SRP Diamond Tools Co., Ltd	S11646
Pullman Ermator Inc.	S11726
QUANZHOU SANG DIAMOND TOOLS CO.,LTD	S11814
Fuzhou BonTai Diamond Tools Co., Ltd.	S11818
World Diamond Source Inc	S12317
US Shotblast Parts & Service Corp	S12338

## North hall

## South Hall



**Material Handling (Central Hall):** Offering trucks, excavators and more for material delivery, distribution, concrete placement, and earth moving.

**Concrete Repair & Demolition (South Hall):** Housing a display of surface preparation equipment, scarifying, grinding, sawing equipment, and other demolition products.

**World of Masonry (North Hall):** Showcasing products, tools, information, and technology for masonry professionals.

**Technology for Construction (Central Hall):** Featuring the newest products and tools for the commercial construction industry from top information technology and systems providers.

**Concrete Surfaces & Decorative (South Hall):** Showcasing the popularity of decorative concrete for both commercial and residential applications.

**Precast (North Hall):** Featuring the latest products and technologies in the precast/prestressed sector.

**Concrete Masonry (North Hall):** This area showcases everything for the producers of concrete masonry (block, segmental retaining wall units, veneer, slabs, pavers, and roof tiles, admixtures, equipment & supplies and pigments).



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LAS VEGAS CONVENTION CENTER

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BOOTH O31242

DIAMOND PRODUCTIONS CANADA	S12839
Runyon Surface Prep Rental & Supply	S13039
K2 Diamond - Sanders Saws & Blades	S13113
Helly Hansen	S13119
GOLZ, LLC	S13127
DIAMOND TOOLS INTERNATIONAL/GOLZ	S13127
Dustless Technologies	S13231
Makinex Construction Products	S13251
NOVA DIATOOLS	S13257
Xtreme Engineered Floor Systems, Inc.	S13306
Prep Tech Systems	S13307
Terrazzo & Marble Supply	S13310
DiamondBack Diamond Tools, Inc.	S13613
ONYX	S13619
RESIN DEVELOPMENT LLC	S13626
Justcut Inc	S13630
XIAMEN M&R DIAMOND TOOLS, LTD	S13726
Hess Diamond Tools Llc	S13919
DIA PLUS KOREA	S13926
A.R.E. Blue Classic- The Revolutionized	
Diamond Tools	S13929
Hunter Diamond Products	S14026

### Exhibitors

Exhibitors	Outdoors
Merlo (AMS)	030045
AMS - Merlo	030060
Merlo (AMS)	030060a
Makita USA, Inc.	030135
Husqvarna Construction Products	030166
Bosch Power Tools & Accessories	030200
Terrco, Inc.	030424
Haaga Sweepers	030500
Tenacious Holdings, Inc	030504
Packer Brothers	030508
Backsaver	030512
Bosch	030514
MCS	030521
Right Mfg. Systems Inc.	030552
Dryair Mfg. Corp.	030599
Tomahawk Power LLC	030607
MAEDA USA	030614
Multivibe	030619
TUFTILE, INC	030648
Vacuworx International	030653
DEWALT	030665
Hilti, Inc.	030699
Hilti, Inc.	030700
TK EQUIPMENT	030720
MB Crusher America, Inc.	030744
KLINDEX AMERICA	030766
Fiskars Brands Inc.	030857
Engineered Plastics, Inc.	030940
HEM Paving / Apollo Infratech	030958
Arbortech Tools USA Corp	030966
ASL Machines	030974
Hitachi Power Tools	031069
Curb Roller Manufacturing	031073
KATO CES	031100
HTC	031130
WerkMaster	031149
Chicago Pneumatic	031159
ICS, Blount	031174
Honda Power Equipment	031200
Cyclone Technology LLC	031226
Doosan - Portable Power	031232
LISSMAC Corporation	031242



**Concrete Reinforcement (North Hall):** features the leaders in concrete reinforcement showcasing reinforcement bending, cutting, straightening, and fabricating machinery, reinforced positioners & locators, epoxy-coated, steel, glass fiber, galvanized bar and all types of reinforcement accessories. Visit the WOC website for more details about the World of Concrete 2018: January 23-26; Seminars 22-26 at the Las Vegas Convention Center in Las Vegas, NV, USA. PDa Magazine with its international sister magazine PDi Magazine will as usual exhibit. You find the magazines in central hall, booth number C4222. See you in Vegas!

[www.worldofconcrete.com](http://www.worldofconcrete.com)



018

ENTER



## LEGEND

- Information Center
- Accessible Parking
- Visitor Parking Entrance
- LVCC Security
- Food Court
- Entrance
- First Aid
- Registration  
 Central Hall Hours:  
 Sunday 11:30 a.m. - 5:00 p.m.  
 January 21 11:30 a.m. - 5:00 p.m.  
 Monday-Thursday 7:00 a.m. - 5:00 p.m.  
 January 22-25 7:00 a.m. - 5:00 p.m.  
 Friday 7:00 a.m. - 12:00 p.m.  
 January 26 7:00 a.m. - 12:00 p.m.  
 South Hall Hours:  
 Sunday 11:30 a.m. - 4:00 p.m.  
 January 21 11:30 a.m. - 4:00 p.m.  
 Monday-Thursday 7:00 a.m. - 4:00 p.m.  
 January 22-25 7:00 a.m. - 4:00 p.m.  
 Friday 7:00 a.m. - 11:00 a.m.  
 January 26 7:00 a.m. - 11:00 a.m.  
 Grand Concourse Hours:  
 Pre-registered Badge Pick-up ONLY  
 Monday-Thursday 7:00 a.m. - 5:00 p.m.  
 January 22-25 7:00 a.m. - 5:00 p.m.
- Concrete Surfaces & Decorative Pavillion  
 • Decorative Concrete LIVE!
- Bronze Lot  
 • Outdoor Exhibits & Events
- SPEC MIX BRICKLAYER 500®  
 World Championship
- SPEC MIX Toughest Tender
- Western Star  
 Trucks Get Tough Challenge
- John Deere Operator  
 Challenge
- Waterproofing LIVE!
- MCAA's Masonry Skills  
 Challenge
- MCAA's Fastest Trowel on  
 the Block Challenge
- WOC Certification &  
 Training Area (Pre-Conference Sessions)

Heger Diamond Tools	031242
Jiangsu Creation Machinery Co Ltd	031254
The Power Buggy by Indy	031266
Merit Engineering & Equipment Co.	031272
Superabrasive, Inc.	031353
Briggs & Stratton Corp	031421
Scanmaskin Sweden AB	031439
W.R. Meadows, Inc.	031447
Bunyan Industries	031451
Kohler Engines	031457
Dixie Diamond Concut Group	031463
Universal Polishing Systems	031465
New Grind Inc	031531
Amano Pioneer Eclipse Corp	031539
CROWN CONSTRUCTION EQUIPMENT	031557
Boxer Equipment / Morbark, LLC	031558
Diamond Vantage	031569
Multipiqu Inc	031632
oren Inc.	031644
Masterscreed	031658
GelMaxx	031758
Wacker Neuson Corporation	031806
Allen Engineering Corp	031831
AIRTEC-MARINDUS	031839
Allen Engineering Corp	031840
Skilsaw Power Tools	031846
DITEQ Corporation	031864
CS Unitec Inc	031910
Pecora Corporation	031939
Bartell Global	032001
Diamabrush by Malish	032035
OTTO BAIER GmbH	032035
MAX USA CORP	032039
Allen Engineering Corp	032047
Diamond Products	03210a
Lighthouse International	032126
Connect Work Tools and Oil Quick USA	032133
Metabo Corporation	032139
US Saws	032159
Diamond Products	032170
Redi-Mix Colors	040331
Scofield	040429
NewLook International	040435
Operative Plasters' and Cement Masons' International Association	040451
Mudhen Portable Water Filters	040528
American Society of Concrete Contractors	040535
CDC Larue	040635
Aztec Products Inc.	040639
Hi-Tech Systems	040645
TRUE Green Poly, LLC	040718
Dynamic Diamond Tooling	040719
AmeriPolish, Inc	040745
LATICRETE International, Inc.	040751
Dur-A-Flex, Inc.	040754
Silex/Diamatic	040832
Concrete Polishing Solutions	040833
Arizona Polymer Flooring Inc	040841
Proline Decorative Concrete Products	040847
Euclid/Flowcrete/Vandex	040853
HMI	040859
Butterfield Color, Inc.	041020
GranQuartz	041028
Seal Krete High Performance	041042
SASE	041045
Solomon Colors	041054





## HTC Launches New Dust Extractor Especially Designed for Floor Grinding

HTC's new HTC D60 dust extractor has been especially designed for floor grinding, and is best used with HTC DURATIQT<sup>™</sup> grinders. Unique and innovative functions such as DURATIQT<sup>™</sup> remote connection, automatic filter cleaning, and integrated pre-separation produce unbeatable synergic effects in the form of increased productivity and grinding capacity. Automatic filter cleaning along with integrated pre-separation ensures continuous operation and consistent and safe dust extraction over time. Other benefits are the extremely compact

dimensions, smart features for ergonomic handling, and high safety standard with HEPA H13 filters.

The HTC D60 is equipped with a digital control panel (HMI) for monitoring the essential functions of the extractor. A 3.5-in (90mm) LCD display provides information clearly and sharply about the critical factors for optimal dust extraction, such as airflow, under-pressure and filter status. Ease of handling and safety have also received considerable attention during product development. The HTC D60 is a very compact dust extractor that is just 26.7 in (68 cm) wide and 55 in (140cm) high in the transport position, allowing it to be transported in most work vehicles and easily passes through standard large door openings. Extra-large wheels with powerful brakes facilitate moving over thresholds and other obstacles. The machine is equipped with Teflon-coated conical filters, and an HEPA H13 filter. The quick-lock system makes it easy to change filters. The HTC D60 is recommended for floor grinders with a grinding width of 23.6-27.5 in (600-700 mm).



[www.htc-floorsystems.com](http://www.htc-floorsystems.com)



by Brokk to withstand the demolition forces over time. In addition, it helps the operator start the machine on a poor power supply while at the same time it protects the Brokk machine from any harmful faulty power.

## GSSI Showcases Latest GPR Technology at World of Concrete 2018

GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, will be highlighting its latest GPR technology at the 2018 World of Concrete, Booth #C3719. On display will be a new affordable UtilityScan<sup>®</sup> GPR System, StructureScan<sup>™</sup> Mini XT all-in-one concrete inspection GPR system, and the new Palm XT miniaturized GPR antenna for the StructureScan Mini XT. The new UtilityScan GPR system is a compact unit that makes it extremely portable and easy to maneuver in tight survey areas. This model sets a new standard in performance and price.

UtilityScan features a robust new wireless antenna that can handle required data rates and is ruggedly built to withstand challenging field conditions. The electrical design uses GSSI's patented HyperStacking technology, which has proven to increase depth penetration in challenging soils, while also providing high near surface data resolution. The unit also has a backup Ethernet connection if Wi-Fi is not desired or allowed on a particular jobsite or facility. The UtilityScan can also be equipped with the LineTrac<sup>™</sup> accessory, which helps locate specific power sources situated underground, including AC power and induced RF energy present in conduits. The StructureScan Mini XT is the newest generation of GSSI's popular all-in-one concrete inspection GPR system. Rugged, compact, and flexible, StructureScan Mini XT is ideal for locating rebar, conduits, post-tension cables, and voids. The Mini XT can help identify structural elements, including pan decking and concrete cover, and can also provide real time determination of concrete slab thickness. StructureScan Mini XT is the perfect blend of price and performance, and is backed by a two-year warranty. It features an intuitive touchscreen interface and six-button control options. Visitors to the booth can also see a demonstration of the newest accessory for the StructureScan Mini XT. The Palm XT Antenna is a miniaturized GPR antenna that is designed to greatly enhance the capabilities of the StructureScan Mini XT. The handheld Palm XT antenna turns a basic Mini XT into an advanced system by giving users unparalleled access in tightly spaced areas and enabling overhead scanning. Designed to withstand challenging construction sites, the Palm XT is an excellent choice for contractors who need to perform concrete scanning services.



## Blastrac<sup>®</sup> Global, Inc. Announces the Acquisition of Skidabradar

Blastrac Global has submitted a letter of intent to acquire Skidabradar. The name Skidabradar represents a high production pavement texturing service for the transportation industry. This large fleet of 1,000 horsepower shot blast machines can quickly and inexpensively transform slick pavement into one that resists skidding, hydroplaning and helps to prevent roadway departures.

Skidabradar originally started in 1979 as Humble Equipment Co. in Humble, Texas. Early "prototype" machinery was used for concrete overlay projects, routinely preparing a mile a day of 24-ft (7.3m) wide roadway. Most of these overlay projects are still in use today. Skidabradar's contracting and manufacturing experience has enabled them to evolve into the most powerful and productive surface preparation machine today.

Skidabradar services the needs of airport and highway engineers who have structurally sound pavement with surface problems. The most technologically advanced equipment, operated professionally, allows maximum productivity in short work windows. Fully instrumented controls and plenty of horsepower insures the operator can quickly and easily produce the specified surface every time, without excuses. Blastrac is intending to continue this business with the power of the Blastrac brand and our knowledge and experience in shot-blasting.

[www.blastrac.com](http://www.blastrac.com) • [www.skidabradar.com](http://www.skidabradar.com)



## Brokk Features Powerful Brokk 500 Demolition Machine at WOC

Visitors to World of Concrete should make sure they stop by booth C4319 to see the Brokk 500, which includes 40 percent more demolition power than the Brokk 400 as well as the Brokk SmartPower<sup>™</sup> electrical system, a more powerful breaker, extended reach and industry-leading serviceability.

The Brokk 500 adds 40 percent more breaking power than its predecessor, the Brokk 400. The machine delivers 1,086 lbf (1,472J) with each blow of the 1,510-lb (685kg) Atlas Copco SB 702 hydraulic breaker. On top of that, it adds more length to Brokk's signature three-part arm system, now reaching 24.3 ft (7.4m) vertically and 23 feet (7m) horizontally, making it ideal for work where extra reach is important.

Still, the Brokk 500 retains most of the compact proportions of the Brokk 400. Weighing 11,464 lb (5,200kg), it is only slightly heavier, and the width of the machine is the same. It also is "backward compatible," so all the tools and attachments used for the Brokk 400 can also be used on the new Brokk 500.

The Brokk 500 comes with Brokk's new intelligent electrical system, Brokk SmartPower, a key part in creating the machine's performance improvement. It maximizes the power output of the machine at any given time based on both environmental and operating factors.

The Brokk SmartPower system is uniquely designed for the extremely tough operating environments of a demolition robot. Its components are either designed by or modified

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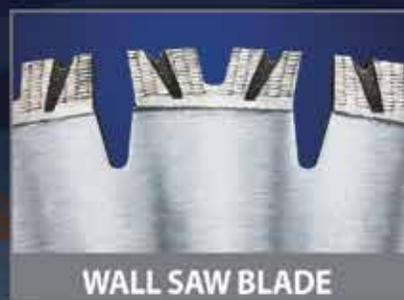
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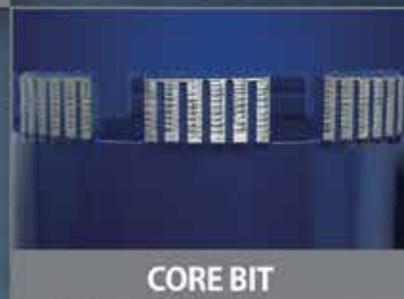
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## HTC's New Tool Series Makes Floor Prep Easier and More Profitable

Easier, more effective and especially designed for floor prep – these were the bywords in producing the new HTC SUPER-PREP™ tool series. The tools have been specifically developed for the coarsest floor grinding jobs, when thick coatings are to be removed or floors leveled.

Special focus has been put on making work go faster through tools with exceptionally high grinding capacity. At the same time, improved service life for the tools is also assured, which means improved profitability.

All 24 tools in the new series boast a new green color, as well as a simple visual guide that makes choosing the optimal tool a breeze. The guide is printed both on the tool carton, and included separately in the boxes.

All tools in the series are best used with HTC's floor grinders and dust extractors, complementing the power of features such as AirFlow™ technology.

[www.htc-floorsystems.com](http://www.htc-floorsystems.com)



### Briggs & Stratton Expands V-Twin Engine Series

Briggs & Stratton Commercial Power's upgraded and expanded line of commercial series V-Twin engines now includes nine models, ranging from 16 to 27 hp (12 to 20 kW). Briggs & Stratton's patented Integrated Cyclonic System offers unmatched air handling to help the Commercial Series stand up to demanding, high-debris applications. A rotating debris-chopping screen cuts debris into smaller pieces while a robust fan forces the debris particles down and away from the engine. In addition, a series of baffles and an ejector chute prevent dirt and large debris from reaching the air cleaner housing, which ejects dust and fine debris through a duckbill-shaped valve. The engine's large cyclonic air cleaner filter lasts for 250 hours of operation and requires no tools to replace. An optional high-flow static cover further improves airflow in high-debris applications.

Enhanced features for structural integrity include a commercial-grade liquid sump gasket — the same gasket engineered for the Vanguard™ 810 V-Twin — as well as a third dowel pin to ensure a rigid, lasting seal at the sump joint. For added versatility, a wide range of muffler options is also available for repowers. The Commercial Series lineup now includes nine models with displacements of 656cc, 724cc, or 810cc. The 656cc and 724cc engines are available for propane conversion

through Propane Power Systems. Briggs & Stratton's global three-year commercial limited warranty continues to cover the non-propane components of these engines while Propane Power Systems' warranty covers the fuel system.

### Briggs & Stratton to Relocate Production to Alabama, Georgia Plants

Briggs & Stratton Corporation has announced that it will move production of its V-Twin Vanguard™ engines from a joint venture partnership in Japan to its existing manufacturing facilities in Statesboro, Ga., and Auburn, Ala. The company has worked closely with state and local officials to ensure a collaborative transition and is grateful for the economic, employee development and training support made available from these communities. Production of V-Twin Vanguard engines in the U.S. plants is expected to be implemented in phases over a year beginning in mid-2018.

[www.vanguardengines.com](http://www.vanguardengines.com)



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# TAKE A LOAD OFF

Did you buy some new equipment for your concrete business this past year? You weren't alone. A generally favorable economy led many contractors to upgrade their inventory and, at the same time, take advantage of manufacturers' latest productivity tools.

In the U.S., for example, the skid steer market in the U.S. rebounded in 2017 after dropping to record lows, according to Jorge De Hoyos, Kubota senior product manager for skid steers and compact track loaders.

"Because of this volatility, we are still analyzing what 2018 will do," De Hoyos says. He adds that the compact track loader market continues to grow at a rapid pace with over a 13% gain this year over last year. The biggest gains are among models with more than 3,000 lb (1,360.8kg) of rated operating capacity.

"Total U.S. volume will reach the mid 40,000 volume this year," De Hoyos says. "As compact track loaders' versatility increases, that number may reach 50,000 in 2018, but that too is under evaluation with key economic indicators."

So, if you decided to wait until 2018 to make a purchasing decision, there should be little difficulty in finding a product that suits your immediate and long-term needs.



The only challenge may well be deciding which one to buy.

## Kubota adds, upgrades equipment

The SVL75-2 with High Flow compact track loader is the newest addition to Kubota's SVL series, which includes the SVL75-2 and the SVL95-2s. The new SVL75-2 offers increased hydraulic horsepower, expanding multi-tasking capabilities for a wide variety of attachments on the jobsite. Boasting a 74.3-hp (55.4kW), four-cylinder, direct injection, turbo-charged Kubota diesel engine, equipped with Common Rail Fuel Injection and a Diesel Particulate Filter (DPF) system, the new SVL75-2 with High Flow meets Tier 4 emissions standards and matches reduced exhaust emissions with enhanced fuel economy. Kubota also improved the SVL95-2s. In addition to increasing the gross horsepower on the SVL95-2s, Kubota increased its rated operating capacity to 3,200 lb (1,451.5kg) at the 35% of tipping capacity. Kubota increased the high flow volume to 40 gallons per minute (151 liters per minute), and increased the pressure to 3,555 psi (245 bar) thus increasing the hydraulic horsepower. This makes the high flow version of this model more suited towards those attachments that demand more flow and pressure. On these same high flow models, Kubota made the flow adjustable with five pre-settings to so that the unit is better matched from low flow to high flow attachments.

[www.kubota.com](http://www.kubota.com)

## Bobcat launches new T870 compact tracked loader

Bobcat has launched a new version of the company's top-of-the-range T870 compact tracked loader featuring a new torsion suspension undercarriage, replacing the previous T870 model with a roller suspension system.

The new T870 torsion suspension machine offers 10% more lift capacity than the previous roller suspension model. The new T870 model is available with a wide range of standard and optional features and in a range of configurations to match emissions and specification requirements for all European, Middle East, Africa and Russia, and CIS

markets. The new T870 provides a more comfortable and relaxed environment in the cab ? achieving a new level of comfort without sacrificing work performance. The torsion suspension improves not only ride quality, it also absorbs stresses and vibrations encountered on the job. The result is reduced wear and tear, and improved component life, throughout the machine.

The five-link torsion suspension undercarriage mini-



mizes rocking when lifting a load high or when performing grading tasks. With the new Bobcat undercarriage, there is no trade-off between comfort and performance. An additional link on the rear axle stabilizes the system to decrease rocking or bouncing and increase productivity.

The unique fifth link acts like an independent suspension, increasing ride comfort and greatly reducing the rocking effect that is typically associated with torsion suspensions. Equipped in this way, the Bobcat T870 compact tracked loader feels even more stable and grounded, which improves ride quality and delivers unmatched performance when lifting and grading.

Improved comfort and ride quality also result from the use of dual-flange front idlers that ride on the rubber track's roller way. The rollers and the dual-flange front idler ride on rubber to dampen vibration. They are also wider,



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which maximizes their contact with the track for a smoother ride, further improving comfort and ride quality as well as increasing uptime. The larger circumference of the rear idler provides more surface area for less wear per rotation, which increases overall component life.

The durable design of the new T870 model further improves uptime performance, with forged steel idlers guiding and supporting the track around the ends of the undercarriage. The solid steel design of the idlers ensures they stand up to harsh operating conditions. Hydraulic hoses are carefully routed and protected inside the undercarriage. This durable design keeps hoses free from snags and obstacles on the job site, preventing costly downtime.

The self-contained axle system contains an inner bar surrounded by four rubber cords. The inner bar is heat-treated for maximum strength, which translates to increased longevity and more uptime. Undercarriage bushings and seals are made with high-grade, high-quality steel for maximum durability. Five easy-to-access grease zerks ensures regular greasing is an easy and simple process. They are also recessed for protection from job site objects and debris.

[www.bobcat.com](http://www.bobcat.com)

### CASE launches all-new TV370 compact track loader

CASE Construction Equipment introduces the TV370 compact track loader, a new 74-hp (55kW) machine that combines a maintenance-free Tier 4 Final solution with the strength and reach of a large-frame counterpart. The TV370 provides a 3,700-lb (1,678kg) rated operating capacity and a vertical-lift design that makes it ideal for loading trucks, and lifting and placing heavier palletized materials. The TV370 is ideally suited for applications where operators value lift capacity and strength, but may not require higher horsepower to run high-volume production attachments. The machine provides excellent auxiliary hydraulics for traditional attachment use in a standard hydraulic setup (24.2 gallons per minute/94.6 liters per minute at 100 percent efficiency), and optional high-flow setup (37.6 gallons per minute/142.3 liters per minute at 100 percent efficiency). Additional performance/operating highlights include an 8,776-lb (3,980kg) breakout force, and a 10.9 ft (3.3m) hinge pin height. At 76 in (1,930mm) wide over the tracks, and on standard 17.7-in (450mm) wide tracks, the TV370 provides excellent stability and the lowest standard ground pressure in class for operating on varied terrain and sensitive ground.

The TV370 offers one of the widest cabs in the industry, and the lowest entry threshold for easy access and greater visibility down to the bucket/attachment. The cab-forward design combines with ultra-narrow wire side screens to provide best-in-class 360-degree visibility and excellent site lines down to the bucket edge/curb lines. A large, rounded rear window delivers excellent rear visibility. Standard heavy-duty front and side lights further improve visibility. The new CTL meets Tier 4 Final emissions standards through a DOC-only FPT engine that requires no additional fluids or intensive maintenance activities. Operators can easily access the en-



gine, filters, fill points, and all other primary service points through a single point of access. It also offers an easy-tilt cab for convenient access to the drivetrain compartment.

[www.casece.com](http://www.casece.com)

### Takeuchi's new TL6R compact track loader

The TL6R compact track loader from Takeuchi is an agile, compact machine that is easy to transport, and features outstanding stability and performance. Powered by a Kubota 2.4 liter, 65.2-hp (48.6kW) engine, the TL6R features a radial lift loader design with a maximum lift height of 9.5 ft (3.3m), and a rated operating capacity of 1,841 lb (835kg). Additionally, the TL6R has a width of 5 ft (1.5m), and a height of 6.5 ft (2m). It weighs 7,480 lbs (3,393kg) with a canopy, and 7,780 lbs (3,529kg) when equipped with a cab. The compact dimensions of the TL6R enable it to access and work efficiently in areas with limited space. The TL6R features a newly designed cabin with an overhead 5.7-in (144mm) color multi-information display and backlit rocker switches that control a variety of machine functions. A cab with swing-out door, heat, and air conditioner are available for greater operator comfort.

Takeuchi Fleet Management (TFM) system comes standard on the TL6R. The TFM telematics system is available during the machine's warranty period of two years at no additional cost, and it is able to provide a variety of data points including machine health and condition, run time and machine location. The user-friendly TFM system can help reduce downtime, control costs, perform remote diagnostics and schedule maintenance.

[www.takeuchiglobal.com](http://www.takeuchiglobal.com)

### ASV RT-30 compact track loader offers versatility in tight areas

The Posi-Track RT-30 compact track loader from ASV is a heavy-duty commercial machine in a small package. The radial lift loader is the industry's smallest sit-on model yet features the same productivity-enhancing qualities as larger ASV machines. This includes highly efficient hydraulics and cooling systems as well as best-in-class low ground pressure. In addition, the RT-30 provides a safer, more productive alternative to walk-behind and sit-on mini skidsteer loaders. The ASV unit's small size makes it ideal for contractors, rental centers and homeowners looking for a commercial-quality, compact machine for work in tight spaces for applications such as landscaping, snow removal and construction. The 3,600-lb (1,633kg) RT-30 is 48 in (1,219mm) wide and has an 8.4-ft (2.56m) lift height. Its compact size and 10 in (254mm) of ground clearance minimize risk of property damage or damage to the machine while working in hard-to-reach areas.

The machine's size also optimizes it for the rental market as the compact track loader is easy to transport on a trailer pulled by a pick-up truck. It is simple to operate, making rental customer training easy, including homeowners who can use it in backyards and eliminate manual labor. In addition, the RT-30 features easy serviceability as a result of a single-door system that allows fast access to the engine, filters and other daily checkpoints. This means faster rental turnaround and less downtime for contractors.

The RT-30 cab provides rollover protection and protects the operator from outside elements. The cab's seat also eliminates the fatigue that comes from standing. In addition, the compact track loader also features more ground clearance and lower ground pressure than similarly sized machines on the market. The RT-30 features a 32.7-hp (24.3kW) Perkins 1.5-liter diesel engine that produces 64.39 lbf (87.3Nm) of torque. Planetary drive motors transfer the torque to the patented internal-drive sprockets. Internal rollers prevent

friction loss in the undercarriage, resulting in all power being transferred to the track regardless of drive speed. Also from ASV, RT-75 compact track loader provides



longer run times with increased performance

The RT-75 is a new compact track loader ASV builds from the ground up, starting with the undercarriage. The machine features ASV's patented Posi-Track rubber track suspension. Well known for its smooth ride, the dual-level suspension of the RT-75 features both suspended wheels and axles, allowing it to manage every type of terrain and at faster speeds. The suspended wheels and fully-flexible track conform to the ground assuring maximum traction in the roughest conditions. In addition, the multiple wheel contact points and triple-guide lugs — compared with many machines with only one or two guide lugs — achieve maximum performance on steep slopes.

The RT-75 excels in overall performance. The machine features a rated operating capacity of 2,650 lbs (1,202kg), and a tipping load of 7,571 lb (3,434kg). It is 70 in (1.78m) wide and has a 126-in (3.2m) lift height. Standard joystick controls make operation easy and intuitive. It comes with an optional all-weather cab that includes heat and air-conditioning and is pressurized for a clean operator environment. The RT-75 also is available in a heavy-duty customization package that includes guarding around areas such as lights, the AC condenser and the rear screen. The RT-75 Heavy-Duty uses a hydraulically driven, auto-reversing cooling fan, similar to the fan used on the RT-120 Forestry, to blow debris out of the engine compartment screens. A full rear brush guard is also available as a factory installed option. The unit can be paired with all standard attachments, such as backhoes, buckets, snow blades, brush cutters and pallet forks.

The RT-75 comes standard with 18-in (457mm) wide tracks, resulting in a ground pressure of only 3.6 psi (.25 bar). Optional 20-in (508mm) tracks lower ground pressures to 3.2 psi (.22 bar). The features, combined with the RT-75's nearly 15 in (381mm) of ground clearance, allow the unit to work in more places, on more days and more comfortably than competitive machines. The RT-75 features a Cummins 2.8-liter turbocharged diesel engine. The 75-hp (56kW) engine produces 221 lbf (300Nm) of torque. The torque is transferred to the ground through direct-drive hydraulic motors. There is no need for servicing because the RT-75 does not use planetary drives, and the highly efficient motors transfer maximum power to the patented internal-drive sprockets. With internal rollers preventing friction loss in the undercarriage, all power is transferred to the track regardless of drive speed.

[www.asvi.com](http://www.asvi.com)

### Avant's new electric loader

AVANT's innovative e-series is a fully electric battery-powered loader in the same size class as the Avant 500 series, offering zero emissions, extremely low noise and minimal running costs. The battery powered loader is especially suitable for indoor use where ventilation is limited, meaning the operator and workers are not exposed to the exhaust emissions which create health risks. A further benefit of a battery driven machine is the extremely low noise level, meaning it can be

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## Bobcat Loaders Win Lowest Cost of Ownership Awards

used in noise restricted areas.

The new e-series features two models: Avant e5 and Avant e6. The quick attach system as well as the multi connector for the attachment hydraulics are the same as in other Avant models, so the large attachment range is suitable also to the e-series. The loader has an integrated battery charger, which makes it possible to charge batteries wherever a 230V/16A power outlet is available. The e-series can also be operated while charging, and a battery pack exchange system will be available.

[www.avantequipment.com](http://www.avantequipment.com)

## New John Deere L-Series tackle toughest jobsite tasks

Built for construction contractors, landscapers and rental center operators, the new John Deere 204L and 304L compact wheel loaders deliver higher productivity, increased uptime and lower daily operating costs. An evolution of the 204K and 304K models, the L-series models are built for tasks that require peak productivity in small spaces and over rough terrain. The 62 horsepower (46 kW) 204L and 67 horsepower (50 kW) 304L models are equipped with Final Tier 4 Yanmar engines and fuel-efficient hydrostatic transmissions to keep noise to a minimum while still providing the productivity needed on the job. An optional ride control is now available, which reduces material spillage and makes for a smoother ride over rough and uneven terrain. Automatically activated front and rear differential locks provide increased traction in harsh conditions. The machine height of the 204L is also configurable to less than 8 ft (2.4m), ideal for jobs with overhead space constraints. The L-Series compact wheel loaders are equipped with features to minimize maintenance. Hydraulically released, self-adjusting park and service brakes, ground-level maintenance points accessibility and excellent cooler access provide safer and easier means of machine upkeep. The new models also offer extended service intervals for engine oil/filter, final drives oil and hydraulic oil. Creature comforts on the new 204L and 304L increase operator comfort and efficiency. Owners have the option of selecting an enclosed cab or open station, providing unmatched 360-degree attachment visibility. An improved interior cooling system keeps the operator comfortable in warmer temperatures. Providing superior versatility, the L-Series compact wheel loaders are compatible with more than 100 John Deere Worksite Pro attachments. Redesigned as a result of extensive customer and dealer feedback, the auxiliary hydraulic control used for attachments has been moved to the primary joystick to increase attachments productivity and ease of use. An optional LED lighting package provides a more reliable light source to increase productivity in low light conditions.

[www.johndeere.com](http://www.johndeere.com)



The Bobcat S70 skid-steer loader and MT55 mini-track loader have won Lowest Cost of Ownership Awards in their respective categories as part of a new annual series of awards organized by EquipmentWatch, a world leader in data, software and insights for the heavy equipment industry. The Lowest Cost of Ownership Awards are the industry's only accolade of its kind, based on empirical data regarding the long-term cost of heavy



and compact equipment. Nominees were recognized within 15 different categories of machine that exhibit the lowest cost of ownership over a five-year span. The S70 won the Lowest Cost of Ownership Award in the category entitled Skid Steer Loaders and the MT55 was the winner in the Loaders Compact Track category.

The S70 skid-steer loader is the smallest model in the Bobcat skid-steer loader range, with a width of 35.5 in (901mm), a height of 71.4 in (1,814mm), an overall length with standard bucket of 97.3 in (2,472 mm), and an operating weight of only 2,795.5 lb (1,268 kg). Its rated operating capacity is 756 lb (343 kg). With its small dimensions, the S70 model can access sites with narrow openings such as gates, alleys or aisles. The S70 is ideal for work in tight areas where larger machines cannot maneuver effectively. It provides a versatile and compact solution for rental fleets, demolition, construction, landscaping, farming and general material-handling applications.

Compact yet powerful, the MT55 mini-track loader is ideal for mechanizing manual work in confined and limited access areas where it is not possible to use larger machines. With an overall width with bucket of just 35.5 in (903mm), length with bucket of 93.1 in (2,365mm), and height of 49 in (1,246mm), the MT55 is ideal for digging, loading and clean-up applications (both indoor and out), particularly on construction, demolition and landscaping sites. The MT55 features an all hydrostatic transmission and track drive system, providing smooth operation and excellent maneuverability. The durable rubber-track undercarriage of the MT55 distributes the loader's operating weight of 2,615 lb (1,186kg) over a large area to reduce ground pressure and minimize disturbance to turf and other established surfaces. The C-Pattern tracks provide excellent traction and flotation for digging and other applications and for working in muddy or wet conditions. Thanks to more than 20 attachments, its compact size, low ground pressure, and outstanding maneuverability, the MT55 is an ideal machine for the equipment rental industry as well as landscape contractors, eliminating much of the hand labor normally found in earthmoving and fencing applications.

## Doosan DX140LCR-5 Reduced Tail Swing Excavator to be Dis- played During 2018 World of Concrete

Doosan Construction Equipment will display a DX140LCR-5 15t reduced tail swing crawler excavator during the annual World of Concrete. To be located in booth C5887, the machine will be configured with a quick coupler and hydraulic breaker, as well as optional rubber track pads, which minimize damage to concrete surfaces.

The DX140LCR-5 excavator offers a shorter tail swing, allowing operators greater flexibility where space is a premium without sacrificing performance. Designed for long life with an extra-sturdy frame and reinforced superstructure, the machine comes standard with permanently sealed and lubricated track links, and the workgroup bushings and hard-wear disks are designed for reliability as well as extended service intervals to increase uptime.

A standard 7-in (178mm) LCD screen allows operators to continue monitoring excavator parameters while viewing the rear view or optional side view camera image. Critical machine data appears next to the camera view. When the optional side camera is installed, a split screen allows both rear and side camera displays to be viewed at once.

To help save valuable diesel fuel, auto shutdown is standard to help owners save fuel during non-working conditions. Operators can configure the idle time from 3 to 60 minutes. When enabled, the feature will shut down the excavator's engine when the preset idle time is met. This is particularly helpful in areas where local regulations require idling for only limited periods for off-highway machines.

Factory-installed options for the DX140LCR-5 crawler excavator include a straight travel pedal, which allows the operator to travel in a straight line more easily; a two-way auxiliary hydraulic pedal to complement joystick control; cab guarding for special applications; and additional work lamps.



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# “Nuclear” Performance in Illinois



## Indeco attachments are playing a key role in the Manafort Brothers’ demolition of a nuclear power plant in Zion, Ill.

Located on the shores of Lake Michigan about an hour north of Chicago, the 1970s-era plant was part of the Commonwealth Edison (ComEd) network. In February 1997, following an error that led to the accidental shut-off of Reactor 1 (an incident that had no consequences affecting safety), production of electricity was suspended. In February 1998, ComEd abandoned plans to reactivate the plant, as the investment would not have produced a sufficient return for the company.

In August 2010, the US government allowed ComEd to transfer its license to Energy Solutions, a company specialized in the decommissioning of nuclear power plants and cleanup of industrial sites. By late 2026, the Energy Solutions project aims to restore the entire area to its “greenfield status”—environmental conditions and landscape that characterized it 50 years ago before construction of the nuclear plant was started.

### A long and complex decommissioning process

Decommissioning started in 1998 with removal of the nuclear fuel from the reactors and securing of the uranium bars. The decommissioning plan provided that for all phases pertaining to the demolition of the reinforced

concrete and steel structures only, mechanical demolition could be implemented. The use of explosives was excluded a priori given the nature of the site and the potential risk of an uncontrolled release of contaminated dust into the air.

In 2014, demolition expert Manafort Brothers of New Britain, Conn., began what is expected to be a 10-year long dismantling process with the building where the turbines and generator were originally installed, then proceeded with the interior of the two towers that housed Reactor 1 and Reactor 2. This was followed by the dismantling of the large building that housed the auxiliary plants situated between the two towers whose demolition will start this autumn.

Besides requiring the experience and the ability to operate safely, demolitions of such difficulty and complexity demand the right machinery and equipment. The long timeframe of the job site, the size, and strength of the structures in reinforced concrete and steel, and the need to ensure a sufficient production output, involved a careful evaluation of the equipment used for the demolition.

Indeco hammers being put to work at the Zion site are two HP 25000, three HP 13001, and an HP 8000 mounted on an excavator fitted with a long boom for demolition. Attachments include ISS 30/50 shears and an IRP1250 rotating pulverizer. The attachments are often used contemporaneously, although in different areas of the site; some have been used on an ongoing basis for more than a year.

“For an idea of how much reinforced concrete is present at the site, let’s just say that by the time we’ve finished the job, we’ll have produced more 113,000 tons of debris,” says John Carville, site manager for Manafort Brothers. All material will be transported by train to a special



site in the desert in Clive, Utah owned by Energy Solutions.

“And besides the concrete, we have to count the thousands of tons of ferrous and non-ferrous materials that come out of the demolition process,” Carville adds.

That said, the size and scope of the demolition project doesn’t stop with a quantitative breakdown; all the major internal and external structures in reinforced concrete are in cast concrete, varying by location from 3 to 12 ft (1 to 4 m), with rebar up to 1 in (36mm) in diameter, and a mesh ranging from medium-thick to very thick. The thickest structures go down to almost 60 ft (18m) below ground level. They contain the pumping plants of the cooling water from Lake Michigan, and structures that held the reserve of nuclear fuel, and of course the foundations. To take them on, the machines and equipment exert an enormous effort, as emphasized by Carville.

Carville notes that while Manafort Brothers has handled a variety of nuclear facilities, he had never encountered Zion’s reinforced concrete with a compressive strength of 8.7 to 13 Kpsi (60 to 90 MPa). That’s why



the choice of the hammers and the other demolition equipment was absolutely critical.

"The decision for Indeco equipment is based not only on the good experience with the HP 8000 we were already using, but is also the result of a careful comparison with products of the other manufacturers," he adds. "The two HP 13001 are the models we operate the most, but no surprise it's the two HP 25000 that allow us to tackle the most challenging situations."

The HP 25000, besides benefiting from the Indeco technology contained in all the models of the range, has impressive power, and with its 18,440 lbf (25,000J), it is the most productive and powerful hammer on the market today. In certain conditions, it really is the only one that can be a valid alternative to blasting.

"All the models get top marks for reliability and also durability when it comes to the tools in relation to the type of demolition, a clear sign that the materials used to make them match the level of the materials used for all other components of the hammer," Carville says. "The pulverizer and the shears are delivering excellent productivity too. The rotating pulverizer has particularly stood out for a favorable ratio between power and size."

## High marks in both production and service

At the Zion site the hammers were and still are subjected to a heavy-duty use over a long-term period. That aspect is not common for normal demolitions, where operations generally last a year or so. In demolitions of large structures, the equipment's production can be measured, but a job like Zion represents a challenge also in terms of service and technical assistance, factors that inevitably end up having a decisive impact on job completion.

"Our satisfaction with the Indeco hammers, the pulverizer and the shears is not only attributed to their production output," Carville says, "but also the service provided by Indeco North America, which has consistently given a rapid and efficient response to all our needs, almost all relating to routine maintenance. It's no wonder why we intend to order other two HP 13001 to finish up the job."



## Desempenhos "Atômicos" em Illinois

Os equipamentos Indeco desempenham um papel decisivo na demolição da central nuclear de Zion em Illinois. A operação foi contratada à Manafort Brothers, uma das mais importantes empresas dos Estados Unidos especializadas nesse tipo de descomissionamento.

A central de Zion está localizada em Illinois nas margens do Lago de Michigan, a aproximadamente 64 km de Chicago e 68 km de Milwaukee. Concluída em 1973, a usina começou a produzir energia elétrica no final daquele ano (primeiro reator) e em setembro de 1974 (segundo reator). A central de Zion fazia parte da rede Commonwealth Edison (ComEd) e foi planejada para atender a área metropolitana de Chicago e a parte do estado próxima do lago. Em fevereiro de 1997 a produção de eletricidade foi suspensa, como resultado de uma operação incorreta que acarretou o desligamento acidental do reator número 1 (evento que, porém, não criou qualquer problema de segurança). Em fevereiro de 1998 a ComEd, que ainda teria que investir US\$ 435 milhões para reativar o reator 1 e reabastecer o reator 2 com novas barras (que já estava parado no momento do acidente), decidiu suspender a atividade, já que o investimento não iria gerar um retorno suficiente para a empresa. Para acelerar a conversão do sítio da NRC (Comissão Reguladora de Energia Nuclear), utilizando um procedimento sem precedentes em sua história, a ComEd em agosto de 2010 concedeu a licença para a Energy Solutions, empresa especializada no descomissionamento de centrais nucleares, bem como na recuperação do sítio comprometido pelos efeitos das atividades industriais. O projeto da Energy Solutions prevê até o fim de 2026 restaurar toda a área para as condições ambientais e paisagísticas que a caracterizavam há quase cinquenta anos, ou seja, antes que começasse a construção da usina (a chamada solução "greenfield").

### Um descomissionamento longo e complexo

A Energy Solutions, através da subsidiária Zion Solutions, é responsável por todos os trabalhos de remoção das instalações, da demolição das estruturas, assim como o transporte de todos os materiais resultantes de demolições para um local de sua propriedade.

O descomissionamento foi iniciado em 1998 com a remoção do combustível nuclear dos reatores e o confinamento seguro das barras de urânio; em 2011 por sua vez foram iniciadas as operações de descontaminação e demolição das estruturas que, a partir daquela data, e considerando também a recuperação dos terrenos, exigiram aproximadamente dez anos de trabalho para 200 funcionários especializados por ano, com um custo total de operação estimado em aproximadamente um bilhão de dólares. O plano de descomissionamento previu que para todas as fases relativas à demolição das estruturas em cimento armado e em aço fosse adotado somente o procedimento de tipo mecânico. O procedimento com explosivo foi de fato excluído a priori, dada a natureza do local e o risco potencial de liberação descontrolada de pó contaminado no ar. Para poder desenvolver o processo de demolição de modo adequado e com plena segurança, era necessário contratar os trabalhos junto a uma empresa com experiência e capacidade comprovadas. Deviam ser demolidas estruturas bastante complexas devido às características estruturais dos diversos edifícios e à presença de vários tipos de instalações. Por isso a Zion Solutions, em 2014, foi contratada para os trabalhos para a Manafort Brothers de New Britain, Connecticut, empresa com quase cem anos de história, reconhecida nacionalmente, como a única, até hoje, a executar a demolição de duas centrais nucleares na costa leste dos Estados Unidos. A Manafort Brothers inicialmente operou no edifício onde estavam alojadas as turbinas e os geradores. O edifício atualmente não é mais visível já que foi completamente demolido, para que depois a demolição prosseguisse no interior das duas torres que alojavam o reator 1 e o reator 2, onde foram removidos vários tipos de instalações e equipamentos. Posteriormente começou o desmantelamento do grande edifício que alojava os equipamentos auxiliares e que estava localizado entre as duas torres, cuja demolição começará no outono. Além da experiência e a capacidade de operar com segurança, uma demolição tão desafiadora e complexa requer equipamentos e maquinários apropriados.

A longa duração da obra, as características dimensionais e de resistência das estruturas em cimento armado e em aço, assim como a necessidade de assegurar produções adequadas, exigiram uma avaliação cuidadosa dos equipamentos a serem utilizados na demolição. Esta análise levou a Manafort Brothers a decidir-se exclusivamente pela utilização de martelos Indeco, em conjunto com um triturador Indeco e uma tesoura, também fornecida pela Indeco.

### Uma demolição com a assinatura Indeco

No canteiro de Zion trabalham dois HP 25000 (na Europa HP 18000 - peso operacional 11054 kg, ferramenta de 250 mm para escavadoras

de 60 a 140 t) três HP 13001 (na Europa HP 9000 - peso operacional 5000 kg, 15.000 Joules, ponta de 195 mm para escavadoras de 39 a 80 t) e um HP 8000 (na Europa HP 5000 - peso operacional 3150 kg, ferramenta de 160 mm, 8.000 joules, para escavadoras de 27 a 50 t) montada em escavadora dotada de braço longo para demolição e, como já mencionado, também uma tesoura ISS 30/50 e um triturador rotativo IRP 1250. Os equipamentos são frequentemente utilizados simultaneamente, mesmo que em diversas áreas da obra e alguns, além disso, têm sido utilizados continuamente há mais de um ano. Como informado por John Carville, diretor do canteiro para a Manafort Brothers "Aqui em Zion, assim como em todas as demolições deste tipo, tivemos de enfrentar uma série de problemas, primeiramente os referentes à segurança e ao estado de saúde dos funcionários, o atendimento das normas ambientais e a necessidade de programar e executar de modo adequado as várias fases de demolição, assim como ter acesso a áreas não imediatamente atingíveis, porque estavam ocultas por outras estruturas. Para dar uma idéia da quantidade de cimento armado existente no local, basta dizer que quando os trabalhos forem encerrados teremos produzido mais de 113.000 toneladas de materiais resultantes de demolições, tudo transportado por trem para o local especial de propriedade da Energy Solutions, situado em Clive no deserto de Utah.

Além do concreto, é preciso naturalmente considerar também as dezenas de milhares de toneladas de materiais ferrosos e não ferrosos produzidos no processo de demolição".

O tamanho da intervenção não se limita, na descrição dos termos quantitativos; todas as estruturas internas e externas em concreto armado de maiores proporções são de blocos de concreto que, e conforme a área em que se encontram, variam de 1 a 4 metros, com vergalhões de 32 ou 36 mm de diâmetro com malha variando de mediamente grossa a muito grossa. As maiores espessuras encontram-se nas estruturas que se estendem por quase 18 metros abaixo do nível do solo e que alojavam as instalações de bombeamento da água de resfriamento provenientes do lago de Michigan, nas estruturas em que era armazenada a reserva de combustível nuclear, e, naturalmente, nas fundações.

Essas espessuras exigiram, um empenho notável também por parte das máquinas e equipamentos, como ressaltado por Carville: "A Manafort Brothers é a única empresa da costa leste que pode reivindicar uma experiência específica na demolição de centrais nucleares em descomissionamento.

De fato, já demolimos a central Connecticut Yankee junto a Haddam Neck e a central Maine Yankee situada junto a Wiscasset. Sabemos, portanto, como realizar este tipo de operações, mas francamente nunca trabalhei com concretos armados com valores de resistência à compressão de 60 a 90 MPa (8,7- 13 Kpsi), como os que encontramos aqui em Zion; por isso a escolha dos martelos e de outros equipamentos para a demolição foi realmente crucial. Eu gostaria de salientar que a decisão de utilizar a Indeco não foi baseada apenas na experiência positiva do HP 8000 que já utilizávamos, mas foi o resultado de uma cuidadosa avaliação comparativa com outros fabricantes. Os dois HP 13001 são os modelos que mais utilizamos, mas naturalmente são os dois 25000 HP os que nos permitem enfrentar as situações mais difíceis. O HP 25000, além de beneficiar das tecnologias Indeco presentes em todos os modelos da linha, dispõe de uma notável potência e com os seus 25.000 joules é o martelo mais produtivo e potente hoje disponível no mercado; em certas condições, é realmente o único que pode ser uma alternativa válida ao explosivo. Com todos os modelos temos notado, além disso, uma ótima confiabilidade e uma notável durabilidade das pontas em relação ao tipo de demolição, sinal evidente de que os materiais com os quais são construídos são do mesmo nível que os utilizados em todos os outros componentes do martelo. Também o triturador e a tesoura estão dando ótimos resultados em termos produtivos. O triturador rotativo se destacou particularmente pela relação potência/dimensões muito favorável".

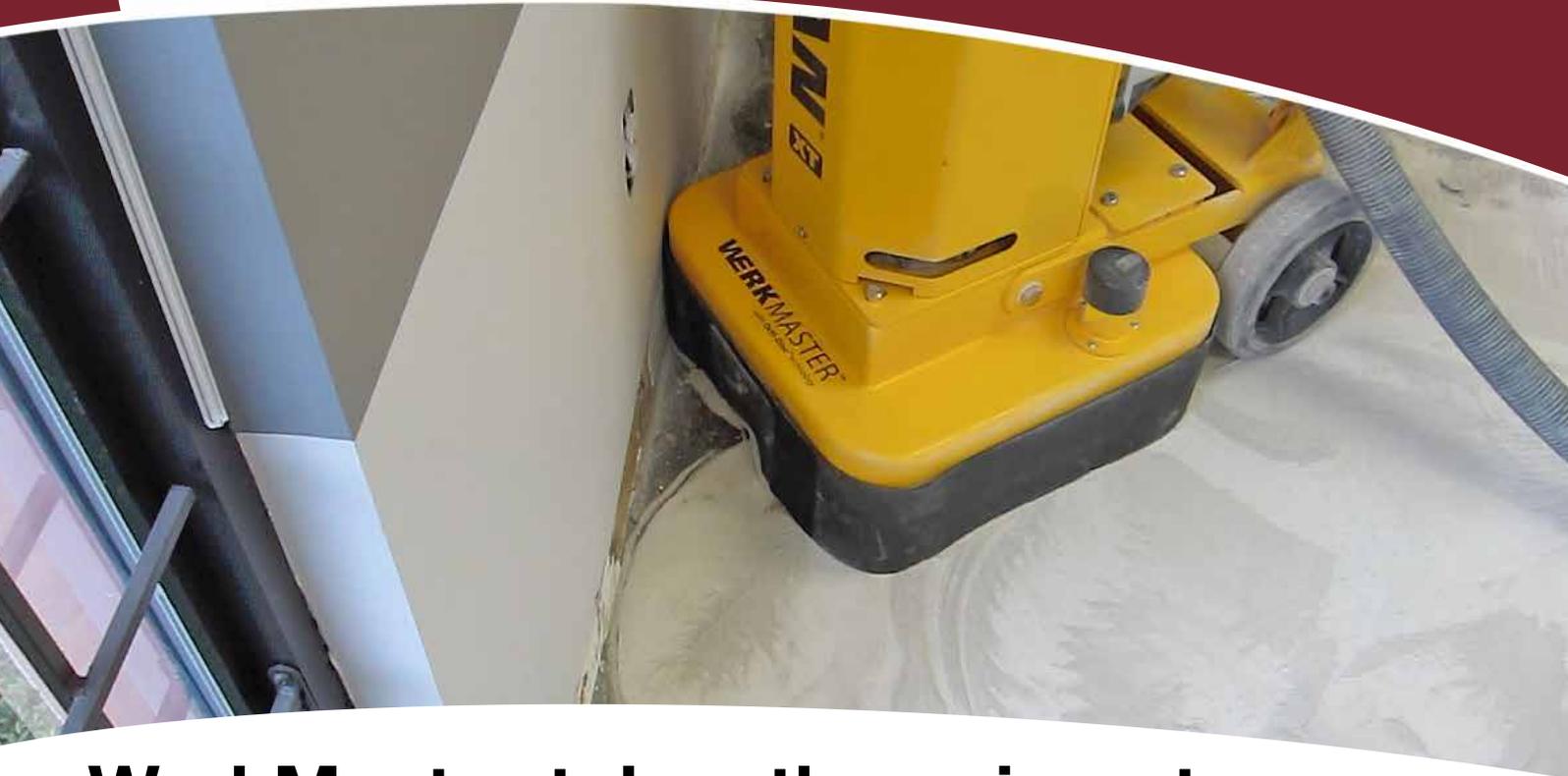
### Forte na produção e na assistência

No canteiro de Zion os martelos foram e continuam a ser submetidos a um trabalho muito duro, que além disso se estende no tempo; aspecto não comum para as demolições normais, onde geralmente as operações duram um ano ou um pouco mais. Em todas as demolições de grandes estruturas se pode realmente medir a capacidade de produção dos equipamentos, mas uma intervenção como a de Zion representa um desafio também sob o aspecto de manutenção e da assistência, ou seja, em elementos que inevitavelmente acabam por incidir de modo decisivo no cronograma dos trabalhos. Assim John Carville destacou este aspecto particular: "A nossa satisfação com os martelos, o triturador e a tesoura Indeco nasceu de considerações produtivas óbvias, mas também da assistência oferecida pela Indeco da América do Norte, que tem sempre dado respostas, rápidas e eficientes, a todas as nossas exigências, quase todas ligadas a operações de manutenção comum. Portanto, não é por acaso que pretendemos encomendar outros dois HP 13001 para completar o trabalho".

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# Rockster Live Demo - Showing Wide Variety

On September 30, Equip Sales and Leasing Corp. of North Haven, Conn., hosted a Live Crushing Demo Day at Modern Materials Corp. in nearby Hamden. The event introduced eight different Rockster machines which were Impactor R700S, Impactor R1000S, Impactor R1100DS, Finishing Screen RDS410, Scalping Screen RSS410, Scalping Screen RSS514, Stacker RST18 and Stacker RST23.

Equip Sales and Rockster are linked together by a longstanding partnership of best dealers on the East Coast who know these product lines well.

"We have been working together with Rockster since 2009, and have already sold many Rockster units here in the US," says Joe Collazo, sales manager at Equip Sales. "We wanted to give contractors an opportunity to find ways to make the most of their equipment investment. This was the perfect demo for construction companies, landscapers, concrete companies, and aggregate recycling and road building companies."

The first-ever live demonstration of the new Rockster impact crusher R1000S in the US was a success. This self-monitoring plant is especially designed to increase operating and safety comfort and includes a wide diversity of refinements, such as an easy gap adjustment for a simpler grain size adaptation, an integrated measuring system for full machine control and analysis, and a 2-deck

pre-screener for a further grain fraction plus increase of the machine efficiency.

The R1000S has an inlet opening of 40x29 in (1,016x736 mm), which not only allows for the infeed of large material, it also offers a high output capacity for varying sized material at rates about 300 t/h. The impactor came outfitted with the optional RS100 screen box and the RB92 double-function return/stockpile belt, this whole system has a weight of about 38.5t.

All impactors at the demo offered Rockster's patented closed-circuit system with the removable screen box and the double functional return/stockpile conveyor. These accessories allow producers to crush material in one pass and gain a consistent high-quality grain without further crushing or screening. With the finishing and scalping screens Rockster can provide even a wider range of recycling possibilities or processing options. By using a Rockster crusher in combination with a stacker, clients can increase their productivity through much larger stacking capacity.

"I was already very excited to see the new crusher live in action and all of my expectations were exceeded," says Daniel Civinski, Rockster Representative for the USA. "I like the modern design with the diagonal lines and all the new features with so many extraordinary details."



## Aquajet Systems Introduces World's Smallest Hydrodemolition Robot

Aquajet Systems AB introduces the Aqua Cutter 410V. The model combines the compact size of the Aqua Cutter 410A and the innovative mast system of the Aqua Cutter 710V, giving it versatility to work in tight spaces with extended reach in horizontal, vertical and overhead applications. The 410V's design makes it suitable for a wide variety of concrete removal tasks, such as renovation and bridge and road repair.

The 2,756-lb (1,250kg) Aqua Cutter 410V can efficiently remove as much as 9 ft<sup>3</sup> (.25m<sup>3</sup>) per hour of concrete. User adjust the robot's stroke to control the depth of cuts, and vary the water pressure depending on whether they are removing loose, deteriorated concrete from the sound concrete below, or sound concrete to a pre-determined depth. The process has the added benefit of cleaning and descaling the rebar, whereas alternative methods, such as pneumatic tools or milling machines, may damage the rebar or produce microfracturing in the remaining concrete.

Operators can control the 410V from a safe distance using the unit's radio remote control, either wirelessly or with a hard wire. Removing the robot's wheeled power control module reduces the crawler to a third of its

original size, creating an even more compact robot with the ability to drive into tight and inhospitable environments, such as small tunnels and flooded sewer pipes.

In addition, the 410V easily removes concrete in corners that would be difficult to access with hand tools. Its small size and light footprint allow operators to use the unit in confined areas — including passing through narrow passages, such as doorframes or operating from scaffoldings — while retaining full mobility. Aqua Cutter robots feature unique ceramic nozzles specifically designed for demanding hydrodemolition applications. The highly-efficient nozzles last 300-350 hours, depending on the water quality. In comparison, standard steel nozzles used on competitive equipment last 20-40 hours. The 410V robot fits into Aquajet Systems' 23-ft (7m) Power Packs. These large metal containers include a high-pressure Hammelmann pump, large capacity engine and control system, along with a storage area for the robot, making for easy transportation to and from the jobsite and a secure location for the duration of the job.

Aquajet will display the 410V at World of Concrete in booth C4319.

[www.aquajet.se](http://www.aquajet.se)

## New Innovation in SDF Technology of Diamond Blades From Dymatec

The New SDF "N" blades from Dymatec feature a unique design that improves water flow and reduces friction enabling enhanced life in the most challenging conditions and aggregates, without compromising on the already unparalleled cutting speeds. This is the next impressive development to the already well established SDF product line available from Dymatec, which has brought arrayed diamond layering technology to an entirely different level. The blades are available in a variety of specifications for diesel and electric flat saws, wall saws, and handheld saws.

[www.dymatecuk.com](http://www.dymatecuk.com)

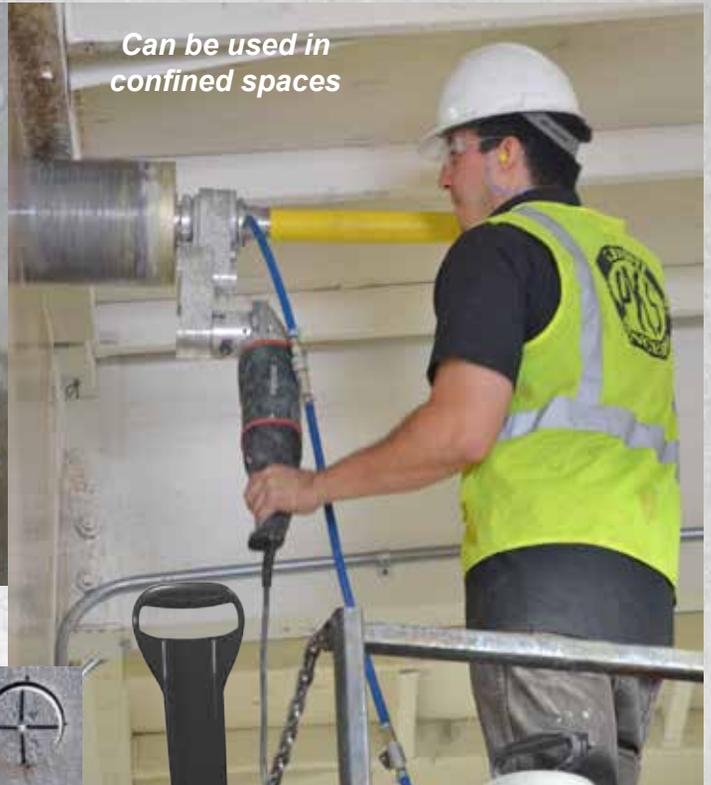


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## Nashville Hosts 25th Anniversary C&D World

The 25th edition of C&D World, the only event that focuses on recycling North America's largest material stream is happening next Feb. 10-13 at the Hilton Nashville. C&D World 2018 is the place where the construction and demolition industry comes together to learn about, discuss, and solve the industry's issues. CDRA has gathered C&D World's best program ever, including having two keynote speakers:

- Barnes Johnson, Director, Office of Resource Conservation and Recovery (formerly Solid Waste), is the top US EPA staff member overseeing solid waste and recycling. His views help form agency policy, and he will provide attendees guidance on what the agency will be doing on recycling issues in the next few years;
- Ed Sullivan, Chief Economist, Portland Cement Association, is the foremost prognosticator of the construction industry. His on-target economic predictions at previous C&D Worlds have helped attendees better plan their businesses' future.

There are also presentations from industry experts on topics such as Better Equipment Management, Handling pH in Recycled Concrete, Biomass Markets, C&D Fines Opportunities, Legislative and Regulatory Update, Social Media Use in the Recycling Market, Succession Planning, and a LEED Update.

A Virtual Tour will provide attendees video overviews of some of the top mixed C&D and concrete recycling operations in the US, while the exhibit hall provides a venue for attendees to mix with top industry vendors in an intimate setting.

And no C&D World is complete without the Monday night fundraiser, at the Honky Tonk Central on exciting Broadway Street.

Sponsors of C&D World already include General Kinematics, CDE Global, Sparta, CBI, SSI, Apollo General, and Eagle Crusher.

[www.cdrecycling.org](http://www.cdrecycling.org)

## NDA Kicks Up Some Dirt in Austin

Registration is now open for Demolition Austin, the US National Demolition Association's annual convention taking place February 22-24, 2018 in Austin, Texas.

NDA welcomes visitors to come and kick-up some dirt together with more than 1,000 colleagues and peers from across US. The three-day convention will show the latest trends in demolition, tests of new equipment that can add proficiency to jobs, and sharing lessons learned with other demolition professionals.

One of the new features this year will be NDA's first live DEMOnstration event. Visitors can test and operate demolition equipment on display and get a true



understanding of a product's capability. Participants can work at the Texas Disposal System (TDS) Exotic Game Ranch and Pavilion on Saturday, February 24 to test drones, cutting tools, excavators, and more.

Demolition Austin is a family affair. All guests, spouses, and children are welcome to attend. While the demolition professionals gain hands-on experience, families can have their own adventures in the Exotic Game Ranch.

Demolition Austin will take place at the Austin Convention Center. NDA has secured room blocks at two hotels located five minutes from the convention center.

[demolitionassociation.com](http://demolitionassociation.com)



Utdelas av tidningen Professionell Demolering i samverkan med Branschorganisationen för Byggnadsberedning.

## Det Svenska Demoleringspriset

### The Swedish Demolition Awards

It is now time to start thinking about nominations for Sweden's best companies in demolition, concrete cutting, grinding and polishing of concrete floors, remediation and recycling. The Swedish Demolition Awards scheme was launched in 2012. Swedish Professional Demolition magazine, in cooperation with the Association for Building Preparations, awards the prize. The winners of the Swedish Demolition Awards 2018 will be celebrated at the DEMCON gala dinner held in the Infracity Ball room on September 27, at the end of the show's first day.

The nomination process has started and all professional players in the demolition industry are welcome to submit their proposals. A company can nominate itself, but importantly it must clearly describe why it should be nominated. Any company can be

nominated in the following categories.

1. Demolition Contractor of the Year
2. Concrete Cutting Contractor of the Year
3. Remediation Contractor of the Year
4. Demolition Project of the Year
5. Concrete Cutting Project of the Year
6. Remediation Project of the Year
7. Safety and Working Environment Award
8. Recycling and Environmental Award
9. The Swedish Hydrodemolition Award
10. Manufacturer / Supplier of the Year
11. The Great Innovation Award for Manufacturers / Suppliers
12. The Swedish Demolition Prize Honorary Award

A jury of well-known personnel from the Swedish construction industry will review the nominations. These include Bo Hörnqvist, founder and former owner of Rivab in Gothenburg; Gunnar Landborg, founder of Disab and a key person in the Swedish concrete cutting

industry for many years; Jan Lemos, founder and former owner of JL Betonghålltagning; Lars Eriksson, founder and former owner of Södertälje Borrteknik; Tommy Hällgren, former salesman at Brokk; Arne Holgersson, former product manager and sales manager at Tyrolit; Lars Sandström, chairman of the Industry Association for Building Preparation; Micael Appelgren, chief editor of the trade association machine contractors' ME Magazine; and Jan Hermansson, publisher of Professional Demolition Americas. Registration documents can be downloaded from [www.professionelldemolering.se/demoleringspriset](http://www.professionelldemolering.se/demoleringspriset).

## AEM Wins "Art of the Show" Award for CONEXPO-CON/AGG 2017

The International Association of Exhibitions and Events (IAEE) has selected the Association of Equipment Manufacturers (AEM) as an "Art of the Show" winner for Most Innovative Use of Technology in promoting CONEXPO-CON/AGG 2017 to a worldwide audience. The IAEE Art of the Show competition targets excellence in exhibitions and events marketing, with independent panel of judges scoring entries based on creativity directly related to organizing a successful exhibition/event. AEM created an interactive 360° virtual reality (VR) to highlight the size and scope of CONEXPO-CON/AGG 2017, and the technologies on display. A 3D interactive mobile app, virtual tours online with images and video from the show's indoor hall outdoor lots, and dimensional mailers with the VR show experience on Google Cardboard glasses allowed prospective attendees to really get a feeling of what they would find onsite. Highlights of the 2017 Tech Experience at CONEXPO-CON/AGG included the world's first fully functional 3D printed excavator, a Tech Talks educational forum with top global innovators, and the finale of Infrastructure Vision 2050, a crowdsourced competition to develop forward-looking infrastructure solutions, plus a Drone Zone and 3D Printworks.

[www.aem.org](http://www.aem.org)



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