

DEMOLITION AMERICAS

Your Gateway to North, Central and South America

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Well, that was interesting.

We're talking, of course, about 2016, which should be pretty much over and done with by the time this issue of PDA arrives in your mailbox.

There are probably any number of other descriptors for a 12-month trip around the Sun that saw everything from a US presidential election that remained contentious weeks after the unexpected outcome (and may yet still be), to the departure from the world stage of numerous luminaries from music, politics, and popular culture.

Somewhere in there, we also managed to have a Summer Olympic Games notable as much for the infrastructure than the feats of athleticism that took place inside them, a fledgling transition of Cuba's long-isolated economy, and examples of extreme weather that, whatever their cause, remind us that Nature is as a formidable force than ever.

But we'll stick with "interesting." Because no matter how pivotal any of 2016's events seem today, it's usually up to history to decide just how much of a "game-changer" they are—both individually and as influences to other trends and events.

And more often than not, it's the seemingly minor choices or actions that sometimes have the greatest effects, both on a macro level (a typographical error in a government report, or a meet-up of two musicians named Lennon and McCartney) and individually (e.g., turning left instead of right at an intersection and avoiding a serious crash, or a chance meeting with someone who ultimately becomes a life partner).

That said, we can only hope that 2017 will prove as "interesting," albeit with far less acrimony and tragedy, please. Because from them will arise all the opportunities and challenges that shape our daily lives

and livelihoods. For the construction trades, we're hopeful they're mostly positive—from some lucrative new contracts to a new equipment technology that saves a few dollars each year.

Or, given the chronic shortage of labor, the timely arrival of a young person eager to learn the various concrete-related trades may be what truly makes a contractor's year.

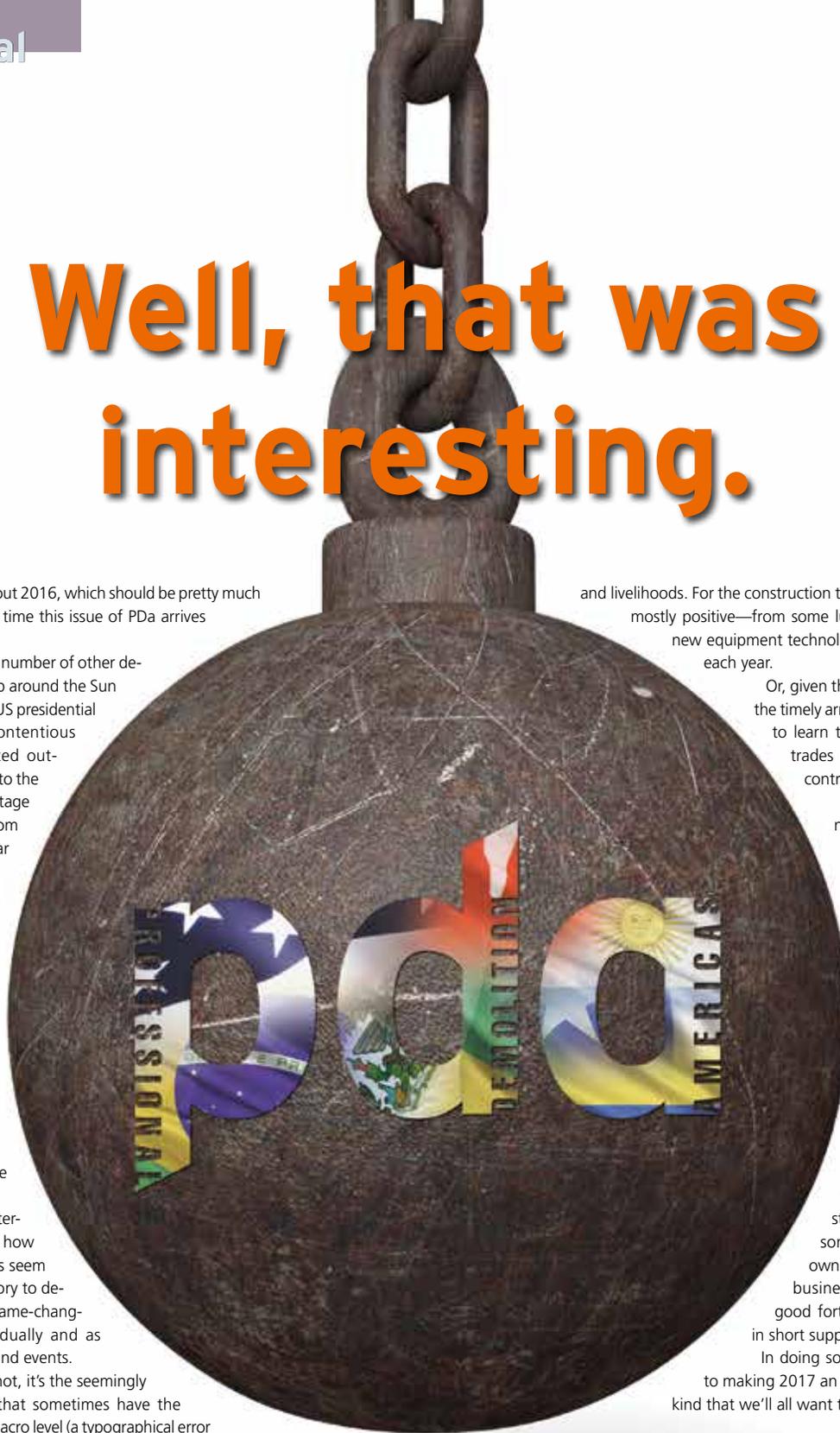
To be sure, we may also need to be ready to accept and cope with less pleasant events that 2017 may bring. Rather than suggest examples, we'll stick with reminders from poet Robert Burns and the anonymous sage named Murphy—the best laid plans often go awry, and if anything can go wrong, it will.

But that's all in the future. For now, let's treat the arrival of 2017 as we do any other new year—a clean slate, a fresh start, and a chance to foster some positive change in our own lives, our communities, our businesses, and anyplace where good fortune and good feelings are in short supply.

In doing so, each of us can contribute to making 2017 an "interesting" year too—the kind that we'll all want to remember.

Best wishes for a happy, healthy, and prosperous 2017 from the staff of PDA!

Jim Parsons, Senior Editor
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AEM Elects 2017 Officers, New Directors

The Association of Equipment Manufacturers (AEM) has announced its slate of officers for 2017, as well as members elected to the association's Board of Directors, and its CE Sector Board. AEM's 2017 officers are:

- Chair: Michael A. Haberman, President, Gradall Industries Inc.
- Vice Chair: Richard M. Goldsbury, President Doosan Bobcat North America
- AG Chair: John D. Lagemann, Senior VP Sales & Marketing-Regions 3 & 4, Deere & Company
- CE Chair: Jeffrey R. Reed, President & CEO, Reed International/VSS Macropaver
- Treasurer: Jim Walker, VP Case IH North America, CNH Industrial
- Secretary: Dennis J. Slater, AEM's full-time President

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

"At AEM, we benefit from the support of our member companies and the dedication of their representatives who serve in AEM leadership roles," said AEM President Dennis Slater. "They help ensure Association programs continue to meet member and industry needs, and we appreciate their knowledge and participation."

Members elected to AEM's Board include:

- Jason M. Andringa, President & CEO, Vermeer Corporation
- Steven W. Berglund, President & CEO, Trimble Navigation Ltd.
- Robert B. Crain, Senior VP & General Manager North America, AGCO Corporation
- Matt Daley, President & CEO, GEA Farm Technologies Inc.
- Richard M. Goldsbury, President Doosan Bobcat North America & Oceania, Doosan Bobcat
- John D. Lagemann, Senior VP Sales & Marketing-Regions 3 & 4, Deere & Company
- Arjun Mirdha, President & CEO, JCB Inc.
- Michael J. Osenga, President Diesel & Gas Turbine Publications
- Greg Petras, President, Kuhn North America Inc.
- Rod Schrader, Chairman & CEO, Komatsu America Corp.
- Jim Walker, VP Case IH North America, CNH Industrial

Directors elected to AEM's CE Sector Board include:

- Steven W. Berglund, President & CEO, Trimble Navigation Ltd.

John L. Garrison, President & CEO, Terex Corporation

Jeff Heinemann, VP Construction, Sandvik Mining & Construction
 Chuck Martz, President, CEO & Chairman, Link-Belt Construction Equipment Company
 Daniel L. Miller, President & CEO, Manitou Americas Inc.

Ray O'Connor, President & CEO, Topcon Positioning Systems Inc.
 Jeffrey R. Reed, President & CEO, Reed International/VSS Macropaver
 Patrick Roesler, CEO, G&D Integrated
 Stephen Roy, President Sales Region Americas, Volvo Construction Equipment
 Rod Schrader, Chairman & CEO, Komatsu America Corp.

George H. Taylor, VP Customer Services Support, Caterpillar Inc.

www.aem.org



AEM Chair Mike Haberman of Gradall Industries.



Dennis J. Slater, AEM's President.

Brokk and Aquajet Systems Join Forces



Brokk, the world leading manufacturer of remote controlled demolition machines, has acquired the Swedish company Aquajet Systems, the world's leading manufacturer of hydrodemolition machines. Aquajet Systems is known as the industry leader in hydrodemolition machines and solutions, both in terms of quality and volume. The company is based in Holsbybrunn in south Sweden, where it has its headquarters and production. Similar to Brokk, Aquajet has a global footprint for the sales of its equipment.

"By becoming a part of the Brokk group, we can now accelerate the global growth of Aquajet," says Roger Simonsson, Managing Director of Aquajet Systems.

Brokk and Aquajet are a great match. Leaders in their respective market segments, the two companies are well-established with customers worldwide, and well-known to deliver the highest quality products. In the



Roger Simonsson, Managing Director of Aquajet Systems.

construction sector, the two companies' products complement each other perfectly. While Brokk machines are primarily used for demolishing concrete, Aquajet machines are primarily used for concrete renovation.

Both companies have a long history of innovation and leadership in their respective fields. Aquajet Systems was founded in 1988, and Brokk celebrates its 40th anniversary this year.

"With the acquisition of Aquajet Systems, the Brokk group further strengthens its leading position in providing world-leading machines for the concrete demolition and renovation businesses" says Martin Krupicka, CEO of Brokk Group.

There are no organizational changes following the acquisition. The management of both companies will remain the same.

www.brokk.com
www.aquajet.se



Martin Krupicka, CEO of Brokk Group.

Casanova Promoted to Washing and Classifying Product Manager of Kolberg-Pioneer

Kolberg-Pioneer, Inc. has promoted Brett Casanova to washing and classifying product manager. In this position, Casanova will assume a leadership role in the development of all washing and classifying products for Kolberg-Pioneer, Inc. He will help manage sales opportunities in conjunction with the field sales force, and will be responsible for assisting other sales and marketing personnel in the development of production and operation cost data, product pricing, sales

tools, and training materials. Casanova has been an employee of Kolberg-Pioneer, Inc. since May 2008, when he was hired as a sales engineer for the sales and marketing department.

www.kpji.com





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 youtube.com/husqvarnaCP

 [HusqvarnaCP_Americas](https://instagram.com/HusqvarnaCP_Americas)

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Event Calendar

Bc India 2016

December 12-15, 2016
Huda Ground
Gurgaon, Delhi, India
www.bcindia.com

World of Concrete 2017

January 17-20, 2017
Las Vegas Convention Center,
Las Vegas, USA
www.worldofconcrete.com

US Demolition Association Convention 2017

January 28-31, 2017
Las Vegas Mirage Hotel & Casino
Las Vegas, USA
demolitionassociation.com

The Rental Show 2017

February 26 - March 1, 2017
Orlando Convention Center, FL
therentalshow.com

Samoter 2017

February 22-25, 2017
Verona Exhibition Center,
Verona, Italy
www.samoter.com

CONEXPO-CON/AGG

March 7-11, 2017
Las Vegas Convention Center,
Las Vegas, USA
www.conexpoconagg.com

CSDA Convention & Tech Fair 2017

March 2017
Puerto Rico
www.csdacom

Fabtech Mexico

May 2-4, 2017
Cintermex, Monterey, Mexico
mexico.fabtechexpo.com

M&T Peças e Serviços Brasil

June 7-9, 2017
São Paulo Exhibition Center,
São Paulo, Brazil
www.mtexpo.com

Construction Expo

June 7-9, 2017
São Paulo Exhibition Center,
São Paulo, Brazil
www.constructionexpo.com.br

Vanessa Nelson Accepts Marketing Communications Position

Kolberg-Pioneer, Johnson Crushers International and Astec Mobile Screens has hired Vanessa Nelson to fill its marketing communications position. Nelson is responsible for a wide range of marketing support, such as creating and maintaining marketing literature, website and social media presence, and promotional programs available at Kolberg-Pioneer, Johnson Crushers International, and Astec Mobile Screens. Nelson graduated from University of South Dakota, where she earned her Bachelor's degree in media and journalism, specializing in strategic communications.

www.kpijci.com



Another Satisfied Rockster Customer

Construction Crane & Tractor (CC&T), a specialist in asphalt paving and recycling, is a long-standing customer of Rockster. Last year CC&T invested in two machines of the Austrian manufacturer—the track-mounted R700S and R1100DS impact crushers. The current Rockster R1100 portfolio can meet exacting customer requirements, starting with the base system designed with an optimum transport height, the flexible Duplex solution, or the extremely fuel-efficient hybrid system. The R700S is easily transportable to construction sites with its optimal dimensions, and is the perfect combination of compactness and maximum performance.

Mike Chenet, CEO of CC&T, answers a few questions regarding the featured advantages.

R: Rockster: In which areas does your company operate?

C: Chenet: CC&T traditionally focuses on road/highway building industry with a focus on asphalt paving. We have also added asphalt and concrete recycling, as well as material processing, screening.

R: How did you get to know Rockster?

C: We were in the market for a reliable portable crusher with capability of re-feed. We looked at a Rockster R700S, and liked the rugged construction and the impressive production capability. We purchased one and put it through six months of testing. We



AEM and CECE Sign International Exhibition Partnership Agreement

The Association of Equipment Manufacturers (AEM) and the Committee for European Construction Equipment (CECE) have signed a cooperative agreement that will help promote visibility for AEM exhibitions worldwide and a positive global business environment for exhibitors as well as visitors.

Sigrid de Vries, CECE secretary general, and Megan Tanel, AEM senior vice president, signed the CECE International Exhibition Partnership Program agreement during AEM's recent annual conference of member companies.

CECE represents the European construction equipment sector and its 13 national construction equipment manufacturing associations. AEM is the North American-based international business group representing the off-road equipment manufacturing industry. A key service is organizing global trade exhibitions, including CONEXPO-CON/AGG.

Under the agreement, AEM becomes a gold-level participant in CECE's Exhibition Partner Programme, which provides promotional and other business-development services.

"AEM and CECE are key partners on the international stage, both with regard to cooperation on regulatory matters as well as fostering business opportunities through major trade exhibitions around the world," says Bernd Holz, CECE president and director of Ammann Verdichtung GmbH and Ammann sales director Europe. "With the new partnership agreement, we underline and reinforce our long-standing relations, keeping a clear focus on both our member companies' needs. I'm looking forward to a successful partnership."

Michael A. Haberman, AEM chair and president of Gradall Industries, adds, "AEM has enjoyed a longstanding and very good relationship with CECE as we work on behalf of equipment manufacturers and service providers towards an improved business environment around the globe for all industry stakeholders. AEM trade shows are known as industry gathering places providing unparalleled ROI and this valued CECE support strengthens that relationship and our future endeavors."

www.cece.eu
www.aem.org

found that it was very well built and designed for our purposes.

R: You decided to buy the R700S and R1100DS crushers, which are fully hydraulic. Please tell us your experience between fully hydraulic vs. electric crushers.

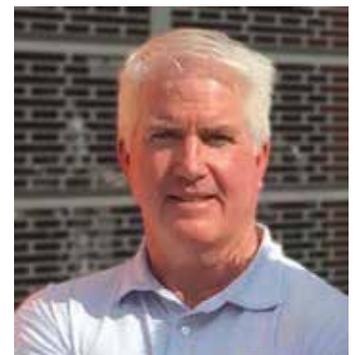
C: One of the areas that we were most impressed with was the hydraulic drive concept. We had experience with electric driven machines, and had been frustrated with their un-reliability. On top of that, electric crushers usually require a special service team from the respective manufacturer. The hydraulic driven impact crusher and conveying systems gave us a level of variability that electric drive units cannot accomplish. Being able to increase or decrease rotor speed without changing engine rpm was very useful in increased production and lowering wear costs.

R: Which features of the machines were crucial for the purchase?

C: We added the R1100 DS for larger projects that require very high production capabilities. These units are in CC&T's rental fleet, and have received high praise from those contractors that have used them.

R: The crushers are for rent – for which applications?

C: The crusher are for the preparation of demolition waste (concrete, mixed debris). Our rental customer can rent the right appliances without needing to invest heavily in own machines. For buying clients, it is also an opportunity to test the machines for their performance, stability and profitability. It is then more likely to sell to an already convinced and satisfied customer.



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DA-Goldmember 2016





ICUEE Honored as "Gold 100" Top Trade Show

The International Construction and Utility Equipment Exposition (ICUEE) was recently saluted as a Gold 100 trade show, winning top honors as largest biennial exhibition and second among all US exhibitions held last year.

Trade Show Executive (TSE) magazine compiled the rankings, and honored the winners during special ceremonies recently. ICUEE earlier this year was named one of TSE's "Fastest 50" growing shows in the US. It also received the TSE Grand Award for fastest growing non-annual show in number of exhibitors; Grand award winners had growth that surpassed 99.5 percent of all U.S. shows in 2015.

Also known as The Demo Expo for its equipment test drives and interactive product demonstrations, ICUEE is the leading event for utility professionals and construction contractors seeking comprehensive insights into the latest industry technologies, innovations and trends, owned and produced by the Association of Equipment Manufacturers (AEM).

"Our strategic focus for ICUEE and all AEM shows is to offer a top-quality experience that engages attendees and exhibitors and helps them achieve measurable results from their show participation," said Sara Truesdale Mooney, AEM vice president, exhibitions and business development.

The next edition of the biennial ICUEE will be held October 3-5, 2017, at the Kentucky Exposition Center in Louisville, Ky. ICUEE 2017 has already topped one million ft2 (92,900m2) of exhibit space, and the show is attracting new exhibitors as well as returning companies, large to small, and from all major industry segments.

www.icuee.com

Major Wire Industries Announces New Exclusive Dealers

Montreal-based Major Wire Industries, Ltd., has expanded its sales force to include four new Authorized Dealers in the US, supplying the company's complete line of screen media solutions for aggregate, mining and recycling operations:

- Continental Equipment Company, representing Missouri, Arkansas, Southern Illinois, and Eastern Kansas

- McCourt and Sons Equipment, Inc., representing most of Texas, as well as Oklahoma, Louisiana, and southern Mississippi
- Northwest Screening Supply, LLC, representing Oregon and select counties in northern California
- Stone Equipment Company, representing Alabama and the Florida Panhandle

New Distributor for Sandvik in Peru

Sandvik Mining and Rock Technology is proud to announce that Logistica Asesores Consultores S.A.C. is the new distributor for Rammer and Bretec hydraulic breakers throughout Peru. In addition to supplying a comprehensive range of hydraulic breakers and demolition equipment, LAC will also be providing full aftermarket care, spare parts, and dedicated customer service.

The appointment of such a professional distributor with highly experienced personnel reinforces Sandvik's commitment in providing even greater levels of customer focus. It further enhances the company's locally focused customer support, while at the same time allowing customers to benefit from dealing with a truly global company.

LAC is a well-established company in Lima, with offices, workshops, and service engineers located throughout the area. In addition, when the situation requires additional support, LAC will be able to call Sandvik's regional office located in Sao Paulo.

As with all Sandvik breaker dealers, LAC will also have direct access to expertise at Sandvik's manufacturing facility. This will further enable customers to benefit from the specialized advice and assistance that has made Sandvik the world's leading supplier of mining and rock technology equipment.



Chadwick-Baross is Prinoth's New Dealer in Northeast US

Prinoth, one of the world's leading manufacturer of tracked vehicles, is proud to announce new agreements with Chadwick-Baross.

Located in Maine, Chadwick-Baross will offer Prinoth's full Panther product line for rental and sale at all of its locations—Westbrook, Caribou, and Bangor, Maine; Concord, NH, and Chemsford, Mass. Chadwick-Baross already offers Prinoth's Trooper and SW4S products.

Prinoth's expertise in building utility vehicles and other machinery such as snow groomers has translated into designing the efficient and powerful Panther carriers. One of the unique aspects of this type of soundly engineered vehicle is the advantage of extremely low ground pressure. Prinoth vehicles offer optimal contact with the terrain, yet only gently touch the ground. This means that crews can access hard-to-reach work sites while benefiting from the smoothest ride imaginable.

Whether mud, gravel or snow, Prinoth tracked utility vehicles are reliable tools for extreme use in extreme environments. Thanks to their huge payload, these vehicles can be equipped with a multitude of specialized attachments. Prinoth's tracked utility vehicles exert very low pressure on the ground and go places where wheeled vehicles sink. Today, the company is part of the HTI Group (High Technology Industries) with more than 3,000 employees worldwide.

The Prinoth team would like to reiterate its belief in this partnership with Chadwick-Baross and wish them much success with this new product line.

U.S. Construction Equipment Exports Down 25 Percent

Exports of US-made construction equipment fell 25 percent overall for the first three quarters of 2016 compared to the same period in 2015, for a total \$8.2 billion shipped to global markets. All world regions were in decline from single-digit drops for Europe and Central America to decreases in the 50-percent range for Africa and South America, according to the Association of Equipment Manufacturers (AEM), citing U.S. Department of Commerce data it uses in global market reports for members.

Among the key market results:
 Canada down 21% to \$3.5 billion
 Europe down 6% to \$1.2 billion
 Central America down 9% to \$1.0 billion
 Asia down 30% to \$972 million
 South America down 49% to \$733 million
 Australia/Oceania down 36% to \$427 mn
 Africa down 51% to \$317 million

"For the past 15 quarters US exports of construction equipment declined year over year and in the third quarter of 2016, that trend remains unchanged," notes Benjamin Duyck, AEM's director of market intelligence. "A key factor affecting the reduction in exports is most likely due to the strong dollar making US manufacturers less competitive in the global marketplace. Of course, the strong currency is a problem that plagues all US exports. Some international markets are still viable; exports are up year over year to Belgium and Germany, for example."

Duyck adds that expectations for the fourth quarter remain subdued, with the US dollar experiencing its longest rally in 16 years.

"With the global economic malaise, the slowdown in emerging markets, and the negative interest rates seen in several

economies' bond markets, investment is flowing to the US and US stocks, driving up demand for our dollar, inadvertently affecting our competitiveness abroad," he says.

The top countries buying the most U.S.-made construction machinery during the first three quarters of 2016 (by dollar volume) were:

1. Canada - \$3.5 billion (-21%)
2. Mexico - \$831 million (-9%)
3. Australia - \$392 million (-38%)
4. Belgium - \$294 million (+33%)
5. Germany - \$202 million (+24%)
6. China - \$190 million (-8%)
7. Peru - \$181 million (-30%)
8. Chile - \$165 million (-60%)
9. Japan - \$147 million (+6%)
10. Brazil - \$145 million (-61%)

www.aem.org

Terex|Finlay Crush San Antonio Customer Open Day with New Model Launches

Terex|Finlay, recently hosted an Americas customer open day in San Antonio, Texas. In addition to US, South American and Canadian based visitors there was also an international flavor with customers and dealers in attendance from Ireland and Russia.

The event and product demonstration were hosted by Martin Marrietta's Medina quarry, just outside San Antonio. Onsite demonstrations featured eight Terex|Finlay machines in three working demonstration zones and one machine on static display.

Among the machines on display were:

- I-140 impact crusher**
- C-1540 cone crusher**
- 674 inclined screen**
- 893 heavy duty screen**
- 873 heavy duty screen**
- C-1545P Cone Crusher**

www.terexfinlay.com



BUST THAT DUST

But like most other things, too much dust is not a good thing. It's a known health hazard and safety concern, both for workers and others on the jobsite or nearby; a nuisance to neighbors; and a threat to environmental quality. For that reason, water cannons, misters, and other dust suppression systems are not merely a nice amenity for a contractor to offer. They're an essential and, in many jurisdictions, mandatory mitigation tool against those aforementioned problems.

Here's a look at some of the latest innovations and introductions in dust suppression systems for construction. And if you still feel like getting dirty, try doing those household chores you've been putting off. No dust suppression system needed, and you'll likely have a happier spouse for it.

DCT's giant mobile dust control design delivers extended coverage

Dust Control Technology has introduced the DustBoss® DB-100 Fusion™, its largest trailer-mounted dust control system, with a powerful atomized mist design that can deliver 140,000 ft² (15,500m²) of coverage area. The DB-100 Fusion is powered by its own 480V 201 hp (150kW) generator with a 6.8 litre John Deere Tier III flex diesel engine, all securely mounted on one of several roadworthy dual-axle trailer options with stabilizing jacks.



Designed for large open-air applications such as mines, coal handling plants and aggregate operations, the unit delivers effective particle control in a highly-mobile platform that can be positioned directly at the source of dust-generating activities, even on sites without an available power supply. The new design can even be specified with a high-lift pump for drawing water from a stationary source, such as a private pond.

Thought to be the most powerful mobile system available to control dust in large open areas, the versatile DB-100 Fusion features a 150-gal (567 litre) fuel tank, providing about 32 hours of run time without refueling. Doors are equipped with hinges and door stops for easy access, and the generator's engine compartment is fitted with sound attenuation. Day-to-day operation can typically be managed by the remotely located on/off switch outside

of the enclosure. For convenience, a 120V receptacle for auxiliary tools and a plug-in for the battery charger and block heater are also located outside.

To achieve its 330-ft (100m) throw distance, the DB-100 employs a 60 hp (45kW) electric fan motor coupled with 10-90 PSI of inlet water pressure that's run through a booster pump to achieve pressures as high as 250 psi (17.2bar) total. Unlike industrial sprinkler systems used for dust management, which can require as much as 500 gal/min (1,893 l/min) of water, the DB-100 Fusion uses only about 38 gal/min (143.8 l/min) to help avoid pooling or runoff. The unit shatters the inlet stream into millions of tiny droplets in the range of 50-200 microns — an ideal size for suppressing fugitive dust particles in most cases. The device can also be customized with alternative nozzle options for specialized applications.

The standard DB-100 Fusion is fed by a manifold of 30 nozzles that are specifically sized and positioned for the new design that features simple, user-defined oscillation, along with adjustable elevation from -7° to 45°. It can also be outfitted with a dosing pump to accurately meter in surfactants or tackifiers to further enhance binding of dust particles. The unit can be set up to run potable water and can also be outfitted with a selection of filters to handle non-potable water sources.

For applications in which the water source contains

Let's face it. Demolition can be dirty, dusty work. And even a minor smear or layer of grime at the end of the workday can be a mark of pride for a job well done (though spouses typically insist you clean up before sitting down to dinner or relaxing on the "good" furniture).

Conjet is a worldwide leading provider of hydrodemolition equipment.

Conjet has over three decades of worldwide experience from concrete removal on bridges, dry docks, airports, quays, dams and canals.

Conjet has a broad product range of reliable robots that are designed to handle high pressure pumps rated from 150hp (120kW) to 1500hp (1100kW).

Conjet robots are flexible and remove concrete in any position from 6 metre (20ft) above to 3 metre (10ft) below, by articulating the boom system, while still maintaining superior stability by means of a patented sliding system.

Conjet has always regarded the pump and robot as ONE system. I.e. emergency stops kill the complete system, no matter what or where.

Conjet

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high amounts of sediment, additional external filters are available. For operation in cold climates, heaters for the enclosure and heat tracing for pipes are available as options, and each machine is equipped with multiple automatic drain valves to enhance freeze protection.

Users can easily set a custom oscillation range via the touch screen controls. The standard unit travels at a rate of 1 degree per second to provide ideal coverage, and the oscillator features a quick-release handle that allows the barrel to be repositioned in seconds, without using any tools. The touch screen on the control panel is also used to turn the fan and booster pump on and off, as well as to adjust the vertical pitch of the barrel using simple up/down arrows. When the generator is turned off, a battery backup feature automatically returns the machine to the horizontal position, which is safe for towing, before it shuts down completely. Fire hoses and couplings are supplied and stored in easy-access tool boxes, along with a spare set of nozzles and basic tools. Maintenance requirements for the new design are minimal, even though the unit carries a 3-year/3000-hour warranty on the dust suppressor and a 2-year/2000-hour warranty on the gen set. And while the new design is typically supplied to run on standard 480V power, customers can specify the unit in a wide range of voltages to suit locations virtually anywhere in the world.

www.dustboss.com

Idrotech Lince mist cannon/Sparanebbia ideal for small and medium-sized jobs

Idrotech, part of Italian manufacturer Idrobases group, has developed a big innovation for small jobs—the Lince mist cannon/Sparanebbia. The high-pressure system's versatility is matched by its ease of mobility, given its small dimensions 32 x 24 x 47 in (800 x 600 x 1,200 mm), relatively light weight at 121 lb (55kg), and the trolley, which comes standard. This makes the system ideal for suppression of dust particles in small/medium sized areas, such as demolition, building renovation and dusty materials handling.

The Lince mist cannon/Sparanebbia works with a 870 psi (60bar) pressure, 14 yd³/min (11m³/min) flow rate, 250V/50Hz power, and 20-ft (6m) fan jet, which has a speed of 400 rpm and a flow rate of 3,688 yd³/h (2,820 m³/h). The ring is fitted with seven nozzles, with a flow rate of 39 yd³/min (30 m³/min) to produce a jet of 25 ft (7.5m). The 8-gal (30 litre) tank allows continuous operation for 30 minutes.

www.idrobasesgroup.com

x100 dust suppression system from PJ Tech

PJ Tech of South Africa offers the x100 fog cannon for dust suppression and evaporation. With a vertical

elevation range of 20 to 45 degrees, the x100's 113 hp (84kW) engine can throw mist up to 330 ft (100m) in any direction, thanks to a unique swivel that provides limitless horizontal rotation. This helps eliminate the risk of broken hoses and cables. A variety of nozzle sizes and configurations can create the required misting effect. Both portable raw water sources can be used with the x100, which also features a wireless remote control for safer, more convenient operation.

www.pjtech.co.za

News from MB Dustcontrol

MB Dustcontrol has developed a complete line of "self-supporting" SprayCannons equipped with a generator and water douser, all mounted on a steel skid or integrated on a trailer. In this way you do not have any electrical cables or water hoses running over the terrain to the SprayCannon which can cause unsafe situations. Off course it is always a possibility for MB Dustcontrol to produce a custom-built SprayCannon as well.

MB Dustcontrol began production of SprayCannons originally for the demolition market, but has since begun customizing products for recycling, quarrying and bulk material handling applications. In order to satisfy the needs of the customers, MB Dustcontrol continuously develops new solutions, installations and improvements. For example, the company recently introduced Stainless Steel fixed piping systems for mounting SprayCannons on walls and ceilings.

And because SprayCannons always encounter erratic weather conditions outdoors, MB Dustcontrol uses its own fan technology to optimize air flow. A new option allows users to mount a weather station on the SprayCannon, enabling the operator to adjust the system to maintain efficiency despite changes in wind, humidity, and temperature.

Although other dust suppression manufacturers have adopted rotator technology, MB Dustcontrol continues to utilize proven system of nozzles. Detailed comparisons of the two systems found that nozzle technology requires less energy and airflow to achieve the desired height and distance. Nozzle systems also provide greater coverage, and are safer because there's no danger from a rotating head.

The versatility of working with a pressure pump lies in the fact the MB Dustcontrol can offer several pumps with different dimensions, capacities, and pressures. SprayCannons can also easily be equipped with frequency valves to fine-tune water droplet size and water usage. Filter mounted at the water inlet and in each nozzle eliminates clogs. What's more, nozzles require less maintenance; all 34 nozzles can be cleaned in about 15 minutes. And the fact that only tips need replacement means fewer spare parts.

www.mb-dustcontrol.com



One of the Netherlands' leading demolition companies, Roy van Berkel BV (picture above), bought an MB Dustcontrol SprayCannon 100 after a rental period. The company can suppress dust as high as 131 ft (40m) high, or up to 330 ft (100m) away, covering a broad area with automatic oscillation.

New additions to Duztech's M-range mist cannons

Earlier this year, Duztech added the compact and light-weight M 30 and M 40 mist cannons to its M-range of products. Both feature remote control of all functions and low power consumption as standard features, as well as automatic swing operation to distribute the water mist over large areas. The extremely fine water mist generated by both units is highly effective against airborne dust, as well as humidification when the ground or other surface is sensitive for wetting. The M-range cannons are also suitable for odor control using additives and dosing pump.

www.duztech.com

Leotech's Motofog is a story of continuous development

The process of continuous improvement of MOTOFOG consolidates its role as a reference machine for dust suppression in the demolition industry. While the 2016 version of Motofog may seem similar to the previous ones, the model has been improved significantly in all respects to meet the growing demands in terms of performance and reliability. For example, 2016 saw the introduction of a new version Motofog D (Diesel), certified to meet the latest US EPA regulations. This allows Leotech to bring this Motofog system to world markets that apply the strictest regulations on diesel engines, especially the US, Canada and China. Likewise, Leotech introduced two versions its gasoline-powered Motofog B system, both comply with the same EPA regulations. And of course, the entry level Motofog J, Leotech's most compact unit, now features an electric motor drive that will make it attractive to new market segments. Motofog is a nebulized jet dust suppression equipped with an internal combustion engine, which drives the high pressure pump. The water is sent to the nozzle head, which is lifted by hand or electric movement. The jet can be positioned to a height that doesn't disturb site activities. Motofog with dual-jet is highly flexible and suits perfectly the operator's requirements. Through a simple maneuver, the mounted nozzle jets can be adjusted to a specific range or width to accommodate the operation at hand.

www.leotechdust.com





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The Husqvarna PG 820 RC remote control planetary grinder offers very high productivity, powerful performance, and outstanding ergonomics. The remote control is key on this machine. It enables the operator to move around the jobsite, correcting hosing, moving the dust collector, inspecting the floor, and preparing the next set of tools. This leads to increased productivity and less fatigue on the operator. The remote control unit can optimize the grinding parameters to assure quality for a specific application, enabling consistent operation and results even when changing operators.

To learn more or to request a demo, visit www.husqvarnacp.com.

Take it for a test drive at World of Concrete 2017 — outdoor booth #30166!

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Atlas Copco Essential Breaker Attachments Are Streamlined for Fast ROI

Atlas Copco's Essential Solid-Body (ES) breaker attachments give rental centers and contractors a fast ROI by simplifying maintenance and operation.

Atlas Copco created the ES Range as an economical and user-friendly option for general construction projects and light demolition. The compact, ES hydraulic breakers are easy to maneuver into tight spaces and provide good visibility, which speed up day-to-day construction, landscaping and renovation jobs.

The ES Range includes three models— ES 60, ES 70, and ES 80. These models are remarkably narrow to promote good visibility and handling on worksites. The slim design also results in faster cleanup. For example, operators can cut narrow and precise trenches for plumbing installation applications without removing excess soil to accommodate the breaker's size.

The ES breakers feature Atlas Copco's exclusive, solid body construction that combines percussion and mounting components in one uniform structure. This eliminates the need for external fasteners, which allows rental center mechanics to quickly and easily replace wear bushing and seals, resulting in fast turnaround times for repairs and maintenance.



Atlas Copco designed the ES breakers with a central lubrication point that contractors can quickly and easily access to grease the breaker. The breakers also feature full-length floating bushings to ensure grease fully coats bushings and tool steel to minimize wear. The breakers enhance productivity with a nitrogen-gas assist system that works with the units' hydraulic oil to accelerate the breakers' pistons and achieve impact rates as high as 1,300 beats per minute.

The three ES breakers attach to a wide range of carriers in weight classes that range from nearly 3.2t to more than 13t. Operators can use the breakers in conjunction with Atlas Copco's tool steel, such as a moil point, chisel or blunt, to break through a variety of materials. The moil points and chisels are ideal for breaking apart sedimentary rock and soft to medium-hard metamorphic rock. They also help contractors work efficiently as they move from non-reinforced to reinforced concrete.

The blunt tool can be used to shatter medium-hard to hard metamorphic rock and igneous material. And with Atlas Copco's asphalt cutter tool, operators can accurately cut sections of asphalt or through frozen ground.

www.atlascopco.com

Kodiak Plus K500+ Meets Demand from High-Production Mining Producers

Johnson Crushers International showcased the Kodiak K500+, their 500-hp (373kW) remote-adjust cone crusher, at the MINExpo tradeshow September 26-28 in Las Vegas.

The K500+ is part of the Kodiak Plus Cone Crusher family, which consists of three other models, the K200+, K300+ and K400+. The K500+ model fills the demand for larger secondary and tertiary cone crushers that are used by high production aggregate producers and mining companies. As part of the Kodiak Plus product line, the K500+ includes a hybrid cast/fabricated base frame design, an automated control system, a patented liner retention system, patented thread locking ring, anti-spin cone brake, and other additional evolutionary

refinements. Other features of the Kodiak Plus Cone Crusher product line include replaceable brass thread inserts, patented internal counterweights, a heavy-duty tramp iron system consisting of pressure relief valves in lieu of accumulators, brass v-seat liners, and other unique manufacturing and maintenance characteristics.

www.kpijci.com



Blastrac's Latest Innovation is a Forklift Scraper

Blastrac, NA has designed a heavy-duty steel scraper body to fit forklifts. The handy PG-10528 attachment is made to remove tape, paint and other spills from concrete. Perfect for factories and warehouses, the PG-10528 slides easily on a fork. Tighten down the set screw, hook the safety chain, and you're ready to begin scraping. Easily adjust pressure by using the forklift controls.

The PG-10528 Forklift Scraper speeds up productivity from traditional hand blade scraping. Working width can be changed by using a 6-, 8- or 10-in (152, 203, or 254 mm) Blastrac Heavy Duty Scraper Blade.

www.blastrac.com



New Products on the Way from Superabrasive

Superabrasive, the manufacturer of LAVINA, is adding several new propane models, including a 38-in (965mm) remote-controlled grinder (L38GR-X); a 32-in (813mm), six-head propane grinder (L32G-X); and a smaller 20-in (508mm) propane (L20G-X). There will be a new propane LAVINA vacuum as well. Superabrasive already offers 25-in (127mm) and 30-in (762mm) propane grinders, and a 36-in (914mm) propane planetary burnisher that is ideal for floor restoration and maintenance. The company goal is to provide contractors with the most efficient, versatile and easy to use floor machines for projects of all sizes, large and small. The new models will have all standard LAVINA features—forced planetary drive, water delivery system with a front sprayer and water meter, access window on the base for quick maintenance, adjustable handle, lights, and more. And since the machines run on propane, they do not require any electrical wiring or generators, and take no time to set up on the job site, saving contractors time and money. The new products can be tested driven at WOC Booth Q31517.

www.superabrasive.us



New Brokk 280 Features Increased Power, Tougher Design, and Upgraded Electrical System

The Brokk 280, set for debut at World of Concrete 2017, features increased demolition power over its predecessor, with the all-new Brokk SmartPower™ electrical system, and additional hardened parts for extra durability in tough environments. The improvements increase the reliability and versatility for Brokk customers working on harsh jobsites in industries such as construction, metal processing, mining and nuclear. The Brokk 280 features a 20-ft (6.2m) reach, and weighs 6,945 lb (3,150kg). By generating as much as 25% more breaking performance, the 280 delivers a significant boost in productivity. Beyond packing a harder punch and knocking out more breaker blows per minute, the 280 features improved maneuvering capabilities with softer, smoother movements. It does this without sacrificing any of the compactness, precision and flexibility for which Brokk machines are known. Brokk also introduces an all-new electrical system, Brokk SmartPower, on the 280. In addition to hardened components and fewer moving parts, the system optimizes machine performance based on a number of factors, including power supply quality and ambient temperature. Brokk SmartPower senses when a power supply is poor or faulty, making it suitable for generators or unreliable power supplies. The electrical system can also be set to work on worn fuses.



The SmartPower intelligent motor control uses smart 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 since the machine's temperature is well controlled. The Brokk 280 boasts a 60% increase in cooling system capacity over the Brokk 260 it replaces. The Brokk 280 also features upgraded dura-

The new Brokk 280 demolition machine features as much as 25 percent more demolition power than its predecessor, the Brokk 260. It's also equipped with as well as the all-new Brokk SmartPower™ electrical system and sports a new rugged design made to withstand the toughest environments. All improvements come without sacrificing any of the machine's compactness and flexibility.

bility, with a new design that includes LED headlight protection, reinforced machine corners, and a new steel gray color coating in strategic areas to add an additional level of resistance to dirt and scratches. The machine can be used with a variety of attachments, including breakers, crushers, scabblers, buckets, grapples, drills, shotcrete nozzles, beam manipulators, and rock splitters. This allows contractors to equip the machine's three-part arm with any of Brokk's full line of reliable tools.

www.brokk.com

New Brokk 110 released

Brokk recently introduced the remotely controlled demolition robot Brokk 110 at the demolition show Demcon in Stockholm, Sweden. The new Brokk 110 delivers 15% more power than the Brokk 100 and 50% more power than the Brokk 90. At the same time, it retains the compact format of the Brokk 100, making it exceptionally versatile in restricted spaces. It folds up into a compact package that easily can climb stairs or fit into an elevator. And with a weight below 1t, it is the perfect machine for use on floors with a low load bearing capacity.

The Brokk 110 is equipped with the Brokk SmartPower electrical system, which optimises performance based

on factors, such as the quality of the power supply and the environment. The new system was designed from scratch for the extreme work environments of Brokk machines to complement reliability and ease of servicing. SmartPower™ makes it possible to run the machine on lower quality power supply and provides increased availability of the machine over its life.

The Brokk 110 also has some protective elements, such as headlight protections for the LED headlights. There is also added protection in the paint choice, where the new roughened grey colour adds an additional level of resistance to scratches that makes it last longer. Every part, every detail and every function is designed to take

Kolberg-Pioneer Releases New 3365 Pioneer Jaw Crusher

Kolberg-Pioneer, Inc. has expanded its jaw crusher product line with the new 3365 Pioneer Jaw Crusher to meet producer's operational needs. The innovative shaft and bearing assembly increases serviceability, and reduces maintenance and rebuild cost. The result is a lower total cost of ownership through the lifetime of the machine. The electric motor mount, v-belt drive and guarding are all integrated on the machine, providing an easy-to-install compact package for mobile or stationary applications. "The 3365 is the latest introduction in Kolberg-Pioneer's jaw crusher line," says Tim Harms, product manager for Kolberg-Pioneer. "This crusher has up to 20 percent more capacity than the next size in its width class in both hard rock and recycled applications. The 3365 features an automatic adjust, for both the wedge style and tramp iron release systems. It also offers the advantages standard on Pioneer crushers, including replaceable jaw die seats, barrel protector plate, as well as an aggressive 1.5-inch [38.1mm] stroke."

www.kpijci.com



a pounding so that the robot can keep on delivering on site.
www.brokk.com

Deadly Dust!



What is Silica and how does it affect us? Gelmaxx explains the facts as the new US regulations concerning silica will become much more strict and similar to regulations in Europe.

Crystalline silica, also referred to as silica dust, is a toxin that is produced when cutting or grinding concrete, brick, and stone, as well as other raw stone based products. Inhaling this dangerous dust may cause silicosis, which has taken the lives of many construction trade workers over the years. OSHA estimates that more than 2.3 million workers in the US are exposed to silica dust, all but a handful of whom work in the construction industry.

Silicosis is broken down into three stages, which are chronic or classic silicosis, accelerated silicosis, and acute silicosis. Chronic or classic silicosis is the most common and occurs after 15 to 20 years of exposure to low or moderate amounts of crystalline silica. A chest x-ray is required to determine if lung damage has occurred. Symptoms associated with chronic or classic silicosis are shortness of breath, fatigue, chest pain, and possible repertory failure.

Accelerated silicosis occurs after 5 to 10 years of exposure to high amounts of crystalline silica. The symptoms are severe shortness of breath, weight loss, and weakness. Acute silicosis occurs after as little as a few months of exposure to extremely high amounts of crystalline silica. The symptoms

include severe shortness of breath, which can be disabling, weakness, weight loss, and even death.

There have been two ways to protect employees from silica dust. There is the standard hose and vacuum style of preventing inhalation, wet cutting, which utilizes water when cutting or grinding products that contain silica. The water encapsulates the crystalline silica particles and is safer due to the lowered risk of inhalation.

Because wet cutting produces slurry, which many contractors dislike because of the mess involved with disposal. However, wet cutting can potentially save lives from silicosis. For years construction professionals have struggled with properly disposing slurry waste water without harming the environment.

That's why Gelmaxx slurry products have been designed to assist contractors during all parts of the cleanup phase, making cleanup easier while also reducing risks to worker health. Gelmaxx Aquamaxx separator uses organic materials that reduce the amount of concrete slurry while producing reusable water for site machinery. Gelmaxx Eco-Quickgel solidifier absorbs concrete slurry into a dry material that can be disposed of immediately in any standard trash container.

Gelmaxx's message is clear: Silicosis is preventable and together the industry can save lives. The next step is to take action, together and stop silicosis forever.

gelmaxxusa.com

Makinex Hose 2 Go - Every Contractor's Dream

Makinex has recently launched the new Hose 2 Go, a constant pressure water supply unit ideal for the construction and flooring industries as a dust suppression, blade cooling tool, and portable water supply.

Hose 2 Go has a constant flow of water that allows the user to suppress the dust and keep the blade cool while cutting, core drilling and grinding concrete. It provides a constant water flow without the use of a pump, battery or electronics. Once the user has filled the unit from a tap, Hose 2 Go is ready to go. A full unit will give the user up to 30 minutes of constant flowing water.

With rugged construction and a 3.6-gal (13.8 litre) capacity, Hose 2 Go gives is also easy to carry or transport because it comes equipped with two carrying positions. It also comes with a nozzle attachment that can be used for cleaning or hosing down equipment at the end of the day.

The Hose 2 Go is so simple:

- **No pump, which means greater reliability**
- **No complicated electrics to break down**
- **No battery to go flat or constantly replace**
- **No need to manually pump to get the desired water pressure**
- **No need to drag hoses**



- **around the worksite**
- **Constant flowing water up to 9 psi (.6 bar) to keep blades cool, preventing hard waring and costly blade replacement**

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"We don't sell our machines and diamond tools on price but quality and that goes for everything that we produce," says Shibuya Company president Norikazu Shibuya.

Japan is an amazing country for visitors from the west. It is so very different, yet so easy to fall in love with its culture, people and nature. PDA Editor-in-chief, Jan Hermansson, reports on his visit that included time with the diamond tool and concrete cutting machinery manufacturer Shibuya Company.

Japan can be described in one word: Clean. The streets are clean, the infrastructure in general is well organized, and everything seems to work smoothly and, most of all, on time. Japanese food is also clean, and often served in an artistic way as appearance is also just as important as the taste. And the Japanese people have a clean appearance, are very friendly, and open to help with great hospitality.

Shibuya is a well-organized company with a strong and extensive product range and considerable expertise in the development and manufacture of concrete cutting equipment and diamond tools. The company is located in Hatsukaichi, just outside Hiroshima city in southwestern Japan, about 500 miles (800km) from Tokyo. Hiroshima has a population of about one million, while the surrounding area has about three million people, including the 120,000 living in Hatsukaichi. It is easy to reach Hiroshima by air, or by a 4-hour ride on the Shinkansen bullet train. Hatsukaichi is situated on the slopes of a mountain directly on the shore of an inland sea that has direct connection with the Pacific Ocean. The Shibuya factory is located very close to the port, and faces Mayajirima Island with its famous Itsukushima Shrine.

Shibuya is one of Japan's leading manufacturers of diamond tools and concrete sawing and drilling equipment. Internationally, Shibuya is best known for its wide range of electric core drilling systems, which make up most of the company's exports. Diamond tools and other machinery are the primarily for the domestic market. The company has about 160 employees—100 in the head office and factory in Hatsukaichi, and the remainder in the seven branch offices throughout the country. Each branch has a sales depart-

ment, workshops, and after-market support. More complicated repairs and service work is carried out at the central service centre at the factory. The shortest delivery time on repairs is three days—two days delivery and one day repair.

Almost 90 and still working

The Shibuya family name is well known in Japan, and dates back to the 7th Century. People carrying the name Shibuya are normally related to the original family. Shibuya founder, Katsuji Shibuya, now 89 years old, wrote a book about the family history. "It took me 13 years to write the book and it was published in 2003," he says. "It tells the story about the family name and the history about how I started the company."

Katsuji Shibuya explains that it was his wife Masako who is a descendent of Shibuya family, and he changed his surname to hers when they married. He started his working life as a science teacher in a junior high school. At the beginning of the 1950s, he left teaching and started to sell agricultural tools and machines, then became a distributor of Kubota agricultural machines. He was very successful in his business, and became the number one distributor for Kubota agricultural equipment in Japan.

In the 1950s, the food industry that had dominated Hiroshima's regional economy gave way to new types of manufacturing industries. Concrete became a more and more common construction material.

"In the 1950s, most of the houses were built of wood," Katsuji Shibuya recalls, "but when concrete rapidly be-



on from Japan



The background picture showing the Itsukushima Shrine at the Mayajima Island just across from the Shibuya factory.

came the preferred building material I realized that this is the future. With concrete the need of new types of machinery increased fast".

Katsuji Shibuya wanted to be part of this development by starting his own production, which would also make him less dependent on other manufacturers. He saw an opportunity after selling machines from US Rigid and Milwaukee for many years. In 1969, he set up his first production of drill motors, the first of which was called TS-1. After a couple of years, TS-1 was remodeled and that gave sales a boost. The demand for concrete sawing and drilling equipment increased dramatically. Along with successful production and sales, the company grew fast. During the first two decades Shibuya products were mainly sold domestically but the export business started to grow after 1978.

Currently, Shibuya has about 15 different base models of complete drill systems, plus a number of different accessories, like automatic feed systems, vacuum pads, drill stands and water collection rings. Shibuya also manufactures wall and wire saws and a large range of different types of diamond tools. About 50% of the production is drill systems and other machines and accessories,

Below Shibuya Company founder Katsuji Shibuya.



while the rest is devoted to diamond tools. In Japan, Shibuya is one of the biggest suppliers to the Japanese market. The company has been making core bits for more two decades, and is the lead supplier of core bits in Japan. The company also started diamond blade production in 2004.

Going Global

Katsuji Shibuya's son Norikazu, who joined the company after his studies at the University of Pennsylvania, focused on building the company's export business. In 1978, the first shipments of machines were delivered to South Korea, Hong Kong, and Singapore. Today, Shibuya's drill systems are now sold worldwide through approximately 30 distributors. Europe is a growing market, but the biggest export



Some heavy-duty core drilling in the US with Shibuya drill systems.



The Shibuya executive management team. Front row from the left: Akinori Shibuya, Norikazu Shibuya, Haruyoshi Arita. Back row from the left: Hiroataka Nasu, Toshihiko Suganuma, Yoshihiro Uotani and Akira Honma.



Overseas sales and marketing team. Front row from the left: Kosuke Omori, Yuki Nakao and Toshihiko Suganuma. Back row from the left: Akinori Shibuya, Koji Sawamoto and Takashi Aritome.



Fr. the left Shibuya director of diamond tool R&D Hisashi Okino and director of mechanical R&D Hideo Kawashima.



Shibuya employees at the head office and plant in Hatsukaichi.



Above assembly of the Shibuya drill systems.



market is the US, which is responsible for 50% of exports. DITEQ Diamond Tools & Equipment handles sales across North America. Russia is the next largest market. So far Shibuya is mainly known for their core drilling systems including drill motors, drill stands, and a large range of accessories, but they are aiming to increase their exports of other products. As their different products achieve CE approval the export range will be increased. "We will work hard to increase the variety of products to be CE approved" said Norikazu Shibuya. He also said that they are planning to expand exporting their diamond tools. Diamond tools is a tough market with so many

low-priced brands. But he is convinced that Shibuya tools offer better life and performance than many other brands.

"We sell our diamond tools on quality, not price, and that goes for everything that we produce," said Norikazu Shibuya.

Shibuya's priority is to increase exports from its current 10% to as much as 20%.

"We want to grow on all foreign markets, but particularly in Europe and US," says Norikazu Shibuya. "We also want to build up a steady foothold, particularly in Germany and Scandinavia." One reason why Shibuya wants to increase exports has to do with Japan's aging population. As the elderly pass on, the current population of around 120 million is expected to decrease by 40% in the next 80 years.

"The population of Japan is actually decreasing rather dramatically," says Norikazu Shibuya. "The population is rather old on average and too few children are being born. We cannot only depend on our domestic market for this reason,"

Nevertheless, the domestic concrete cutting market looks quite promising in the near future.

There are about 1,800 concrete cutting firms and around 5,500 demolition firms in Japan currently using quite old equipment that will need to be replaced in the next three to five years. Tokyo, a city of 13 million, is also organizing the 2020 Olympic Games, which will require some new infrastructure, buildings, and arenas. The games will also attract foreign visitors and increase tourism. What's more, the construction industry in Japan is experiencing an upturn with a



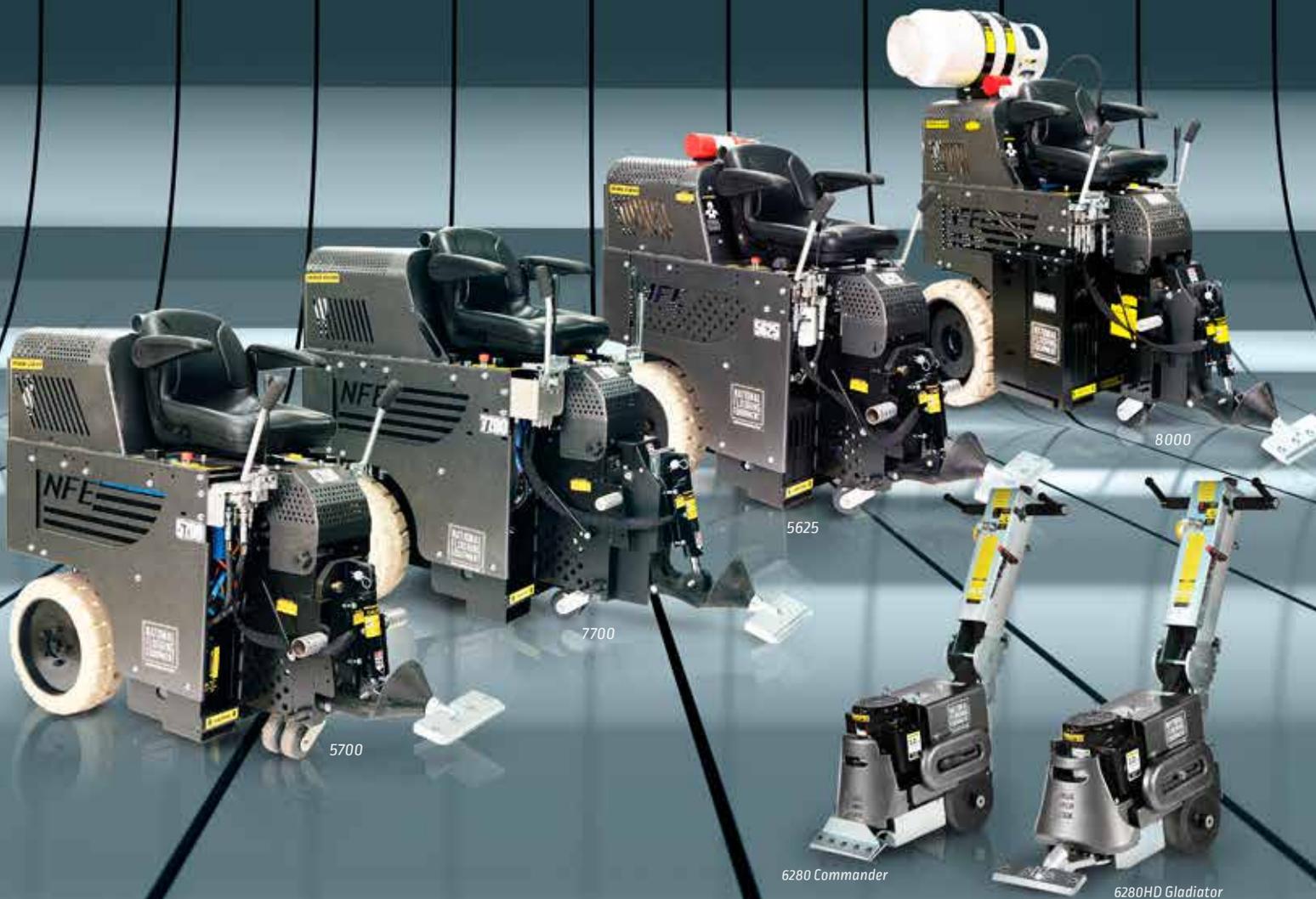
A few of the Shibuya drill systems from the left TS-092, TS-252, and TS-403 which is a popular product for export along with the TS-252."

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Core bit performance tested.



The Shibuya core bit range.



lot of activity going on almost all over the country.

Products for meeting the demand

Shibuya built the head office and factory in Hatsukaichi, about 15 years ago. Office, production area, storage and service centre measures about 107,500 ft² (10,000 m²). Before that head office and production was separated in three locations nearby. "Bringing everything together in one place and also the location close to the harbor has helped a lot to increase efficiency and handling," said Norikazu Shibuya. Shibuya has a high level of in-house production. A few components are bought from mainly Japanese suppliers. Most of the tools are standard, but many of the diamond tools are tailor-made for some larger Japanese concrete cutters. The manufacturing machines are modern and state-of-the-art. The smallest drill motor, TS-092, is very popular in the Japanese market, while the medium-class TS-252 and large-class TS-403 are mainly for export. Norikazu Shibuya said that the drill motor program is being constantly updated and new models will be launched in the near future. The company also has wall sawing machine models and working on expanding the product range.

"In these terms we are all talking electrically driven machines as hydraulics are on a downfall," he says. "We still have a few hydraulic units, but they are only sold for very special projects."

And there's more to come. To complement Shibuya's diamond tools, a new type of segment, with increased performance and life,

is currently being developed.

Looking ahead

Despite the new products and technology, some things will stay the same at Shibuya for the foreseeable future. At a time when his peers are relaxing, founder Katsuji Shibuya still works every day in the office. "I want him to stay active despite his age and I know he loves his work," Norikazu Shibuya says, whose two sons, Kazuyoshi and Akinori, also hold management positions in the family-owned company. Two of Norikazu Shibuya's brothers-in-law work there as well.

In 2016, Shibuya's anticipated sales will surpass US\$30 million.

"I know that we have range of very good products built with Japanese expertise and perfection in all aspects," says Norikazu Shibuya. "Our customers can count on us, as all our products work well, are easy to use, and are reliable and easy to service and repair. We are striving to build even better tools and machines, widen our product range, and increase our presence in both developing and developed countries,"



From the assembly line of drill motors.



Above drill stands being assembled. Below a used drill motor being serviced.



US is the largest export market for Shibuya Company.



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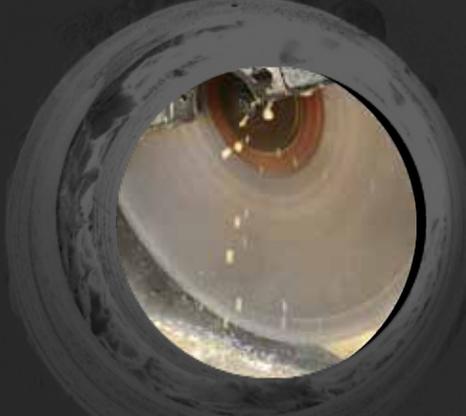
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PARTNERS FOR PRODUCTIVITY

Shibuya's relationship with DITEQ, its distributor for the Americas, proves that the whole is greater than the sum of its two remarkable parts.

Thousands of miles of ocean and a fair amount of North America separate Shibuya's facility in Hatsukaichi, Japan, from the Lenexa, Kan., headquarters of DITEQ Corporation. Yet one might easily think the two companies were one in the same.

"Shibuya supports us as if we were their company and DITEQ supports SHIBUYA product as if it were our own," says DITEQ President Kevin Wilson. Key people at DITEQ have an equipment background so we understand how to support both equipment and diamond tools."

Sole Distributor since 2002

DITEQ has served as the sole distributors in the Americas for Shibuya's core drill machines since 2002, when Electrolux/Husqvarna purchased a trio of diamond tool manufacturers—U.S.-based Magnum Diamond and Cushion Cut, and Belgium's Diamant Boart Target.

Rather than shrinking the base of diamond tool manufacturers and products, Wilson says this consolidation in fact created new opportunities to serve an industry that increasingly demands more than a one-size-fits-all approach. Key personnel from Diamant Boart Target teamed with Shinhan Diamond Industrial Co. Ltd. of Korea to create DITEQ Corporation, with a focus on distributing DITEQ branded products and complimentary products for the American construction, stone, and metal working market.

In addition to Wilson, DITEQ's leadership includes CEO Y.C. Park; Vice President for Diamond Engineering John Park; and Equipment Engineering Manager Mike Orzechowski, who has also been a longtime Secretary/Treasurer of the Concrete Sawing and Drilling Association (CSDA). A team of 20 salespeople work with construction and stone supply distributors, and construction equipment rental companies from coast to coast. DITEQ also sells directly to CSDA professional contractors.

Wilson explains that with the highly technically advanced capabilities from Shinhan, DITEQ primarily focuses on high-end premium diamond tools, countering the trend of many competitors that have followed a low-price product strategy.

"DITEQ still believes that the end-user desires products with better quality and performance," Wilson adds.



Take DITEQ's proprietary ARIX diamond arrangement technology, for example. Launched in 2005, ARIX has revolutionized the diamond tool industry over the past 10 years, providing users with significant improvements in cutting speed and blade life.

"In the beginning, the competition called it 'Black Magic,'" Wilson says of ARIX's unique three-dimensional patterning. "Now they all struggle to introduce similar products."

Originally created for blade diameters of 12 in (305mm) and up, DITEQ has since implementing ARIX technology into its small-diameter blades, core bits, and stone cutting fabrication tools. The company also offers other varieties of diamond blades and wet and dry core bits for both cured and green concrete, asphalt, tile, porcelain, and other materials, as well as vacuum-bonded utility blades designed especially for first responders and other emergency services. All diamond tools are produced in South Korean, and DITEQ's Anaheim, Calif., plant.



A Variety of Equipment Offered

DITEQ also provides a variety of equipment products, which are produced at the Kansas facility. In addition to floor saws, the company offers own line of grinding and polishing machines, ranging from the TG-8 8-in (203mm) to the TG-30 30-in (762mm) models. There's also the C-TEQ crack chasing saw, and TEQ burnishers, which come in electric and propane models.

And if that wasn't enough, DITEQ is also a North American distributor for RGC hydraulic saws and drills, NaceCare's slurry and dust control machines, and Hycon's lightweight jackhammers and breakers.

While Wilson and his team work hard to continually strengthen and enhance all of DITEQ's distributor relationships, the longstanding partnership with Shibuya is understandably special. DITEQ's printed and online catalogues are filled with offerings—from flexible 4-in (102mm) hand-held drills all the way up to the TS-603 "Hawg" hydraulic core drill and its massive 26-in (660mm) core bit capacity. DITEQ customers also have direct access to the "Shibuya U" series of online product training and maintenance videos.

"Shibuya, the best core drill machines"

"Shibuya has the highest quality full line of core drill machines in the world, and DITEQ takes great pride in the opportunity to represent such a line," Wilson says. "The Shibuya products also complement our DITEQ diamond core drilling bits."

As a manufacturer itself, DITEQ recognizes the importance of staying on top of industry trends and user needs in order to help refine existing products, and better apply current and emerging technologies to those under development. That philosophy also helps foster better two-way communication with Shibuya and its other manufacturing partners, helping ensure that new and improved products are always on the drawing board.

That means whenever a customer says "You know what I really need?", DITEQ, Shibuya, and others are usually ready with an answer. And these days, Wilson says, reliability is as important as ever.

"Users are looking for products that are versatile and that perform at a high level due to job time constraints and higher labor costs," he says.

With the trade show season on the horizon, current and potential DITEQ and Shibuya customers in the Americas will be able to get a close up look at the products at World of Concrete and StonExpo, both in Las Vegas during the month of January, and the Rental Show in Orlando at the end of February.

It will be a busy first of the year, to be sure, but then, DITEQ and its partners are all about helping their customers stay busy and productive as well.

www.diteq.com

shows

See You i



Las Vegas

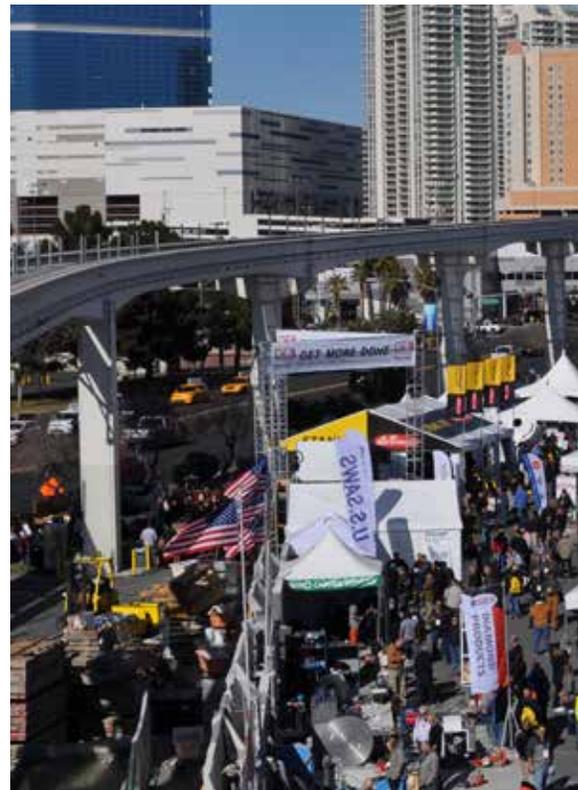
Time flies. In just a few weeks, World of Concrete 2017 will open in Las Vegas. PDA is pleased to provide an overview of the annual show, including a detailed list of exhibitors in the field of concrete cutting, demolition, concrete floor prep and polishing, and dust extraction equipment.

It is time again for one of the most important shows for the international concrete cutting industry, particularly the concrete floor prep and polishing industry—World of Concrete.

A couple of decades ago, World of Concrete was primarily a US show. Today, it is truly a international event attracting contractors and suppliers from all over the world. US visitors of course dominate, but there are also a lot of visitors from other countries in North and South America. Europeans also travel to the show in vast numbers nowadays as well as visitors from Asia.

Competing with Conexpo again

The expectations are great for the upcoming World of Concrete show that takes place January 17-20 at the Las Vegas Convention





SHOW HOURS
MONDAY, JANUARY 16 (Education ONLY)
TUESDAY – THURSDAY, JANUARY 17-19
9:30 am – 5:00 pm

FRIDAY, JANUARY 20
9:00 am – 12:00 pm



World of Concrete 2017 Selected list of exhibitors As of 12/12/2016

Exhibitor Name	Booth#
AmeriPolish, Inc	040425
Aquajet Systems AB	S12800
Atlas Copco	C4303
Avanti International	S10501
Aztec Products Inc.	O32145
BAUTECH BRASIL	S12750
Bay-Lynx Manufacturing Inc.	N525
Bay-Lynx Manufacturing Inc.	O30944
Blaklader LLC	O30614
BlastPro Manufacturing, Inc.	S10507
Blastrac	S10127
Blender	S13248
Blount Inc	O31770
Blount Inc	O31770b
Blount Inc	O31770c
Blount Inc	O31770d
Blount Inc	O31770e
Boren Inc.	O31831
Bosch	O30514
Bosch Power Tools & A.	O30200
Briggs & Stratton Corp	O31612
Brokk Inc	C4229
Carhartt Workwear	N2965
Carhartt, Inc.	N2955
CASE Construction Equip.	C5849

Caterpillar Inc	C6061
CDC Larue Industries, Inc.	031447
Chicago Pneumatic	030653
Compact Excavator Sales	031100
CSDA	C4433
Concut Inc.	031857
Coneqtec / Universal	C6473
Conjet AB	S11207
Construction Robotics	N1562
CORTEC	S11148
Crusader Mfg Inc	S11951
CS Unitec Inc	031421
DEUTZ Corp	N2637
DEWALT	030668
Dexter + Chaney	C4149
Diamabrush by Malish	031840
Diamatic	S10117
Diamond Blade Warehouse	S11526
Diamond Productions Can.	S12007
Diamond Products	C4880
Diamond Products	032170
Diamond Products	032170a
Diamond Speed Products	S12727
Diamond Tools International	S12813
Diamond Vantage	C3248
Diamond Vantage	031569
Digga North America	C6073
DISCO DIAMOND TOOLS	C4318
DIT Co., Ltd	S12420
DITEQ Corporation	C3450
DITEQ Corporation	031864
Dixie Diamond Mfg Inc	C3146
Dongying Jiangxin Grinding	S11932
Dongying Raizi Tool Co.	S12730
Doosan - Bobcat	C5586
Drumblaster PTY LTD	C7115
Dustcontrol, Inc.	S11555
Dustless Blasting	S12847
Dustless Technologies	S11750
Dynamic Diamond Tooling	030958
Eagle Industries	S11549
EMI Construction Products	N2221
E-Z Drill Inc	C4333
Floors Northwest Inc	S13632
Fuzhou BonTai Diamond	S11727
GDM / Terra Diamond	C4439
Gehl Co	C6049
General Equipment Co	S10815
General Technologies, Inc.	N2105
Genso Equipment	N2913
GOLZ GmbH	031469
GSSI	C4141
Hangzhou Genesis Hardware	C4651
HARTL Crusher NA	C7126
Hatz Diesel of America Inc	N2216
Helly Hansen US, Inc.	S11915
Henan He Hui Abrasives	S11926
Hess Diamond Tools Llc	S12752
Hilti, Inc.	C4852
Hilti, Inc.	030699
Hilti, Inc.	030700
Hit Tools USA	N2749
Hitachi Power Tools	C3052
Hitachi Power Tools	032051
Hitchdoc Manufacturing	C6744
HOLER NZ LTD	S13413
HTC	031817
HTC	S10627
Huada Superabrasive Tool	S11948
Hughes Brothers Inc	S11450
Humboldt Mfg. Co.	N2313
Hunter Diamond Products	S13356
Husqvarna Constr. Products	030166
ICS Blount, Inc	031770a
IronPlanet	C6587
Jiangsu The Lus Diamond	S11831
JIKAI HEBEI	C3358
John Deere Construction	C5361
Justcut Inc	S13048
K2 Diamond - Sanders Saws	S13425



Center. The show is taking place a little bit earlier this year, but the dry and sunny Nevada climate will probably not disappoint anyone—particularly visitors from the cold and snowy areas.

Nevertheless, let's hope that it will be a little bit warmer this time than it was last February, which was the coldest show in several years. The chilly temperatures didn't keep visitors away, as attendance reached a seven-year high—60,110 visitors, up from 55,779 in 2015.

But one should remember that 2017 is a Conexpo-Con/Agg year, which historically lowers both the number of exhibitors and visitors and affect both shows. So far, the looming competition of Conexpo-Con/Agg isn't keeping exhibitors away from WOC 2017. As of mid-December, approximately 1,510 companies had registered. With a few more weeks to go, there is a good chance for WOC 2017 to surpass 2016's record of 1,532 exhibitors.

Some other factors may also affect attendance. Opinions regarding the outcome of the US election remain mixed, even though many analysts feel the next four years bodes well for construction-related work. Reactions of the world's stock markets were initially modest, but business seem to be back to normal.

Easy to navigate the show

As a concrete cutter, demolition contractor or concrete floor prep or polishing contractor it is quite easy to navigate World of Concrete. Most of the concrete cutting and concrete floor prep equipment you find in the outdoor area in front of the Convention Center. You can't miss it.

Some of the suppliers also have booths indoors which can be found either in Central Hall or South Hall. In Central Hall you find more heavy equipment, while light equipment is found in the South Hall.



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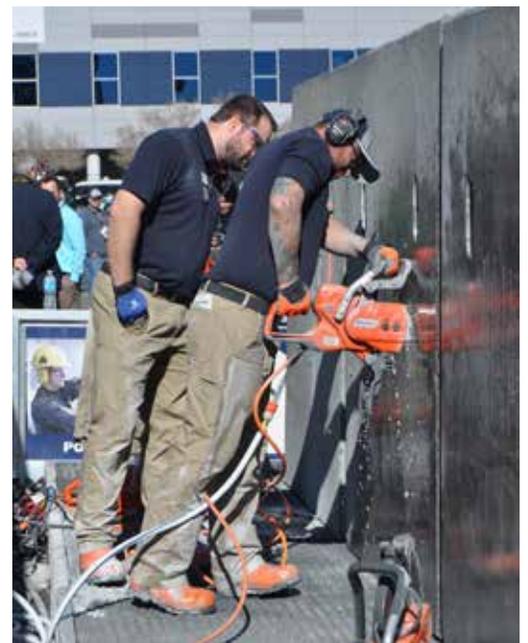
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LISSMAC Corporation	030600
Makinex Construction Pro	S12846
Makita USA, Inc.	030135
MALA GeoScience USA, Inc	C4051
MB Crusher America	030619
McCloskey International	C6954
MEP North America	N2704
Merit Engineering & Equip	030748
Metabo Corporation	030744
MFG Construction Products	N2114
Milwaukee Dustless Brush	S13214
Milwaukee Tool	NES02
MKT Fastening	S10152
Multiquip Inc	C4802
Multiquip Inc	031632
Mustang Mfg Co Inc	C6049
National Demolition Asso	C4236
National Flooring Equipment	S10515
New Grind Inc	032046
Norton Construction Prod	C4663
OilQuick USA	C6688
OTTO BAIER GmbH	031102
Padco Inc.	S13319
Paladin Attachments	C4319
Paragon Products	N663
PDI Magazine/PDa Magazine	C4218
Peak Software Systems	S13407
Pearl Abrasive	S12239
Power Curbers & Power	C5611
Power Pusher, Division	S12806
Powertrack International Inc	C6854
PR Diamond Products, Inc.	N2245
Prime Resins, Inc.	S10721
Primex Abrasives USA	S12511
PROSOCO, Inc.	S10946
Pullman Ermator Inc.	C4537
Pullman Ermator Inc.	S10915
Putzmeister America, Inc.	C5727
Quanzhou Tianli Grinding	S10343
Quanzhou Zhongzhi Diam	S12626
Reliable Diamond Tool, Inc.	C3060
Runyon Surface Prep Rental	S12115
SASE	O41046
Scanmaskin Sweden AB	031242
Scanmaskin Sweden AB	S11539
Sencore Diamond Tools	030648
Sensors & Software Inc	C4021
SIMEX	N3120
SKILSAW Power Tools	031965
Sobratema	C4242
Stanley Infrastructure	030866
Stihl Inc	C4631
Superabrasive, Inc.	031517
Superabrasive, Inc.	S10215
Terex	C5172
Terrazzo & Marble Supply Co.	S13511
Terrco, Inc.	030424
Tru-Cut Inc.	S12050
Universal Polishing Systems	031845
US Saws	032159
US Saws	S11007
Wacker Neuson Corporation	031806
Water Treatment Solutions	N345
Waterblasting Technologies	030043a
Waterblasting Technologies	030043
WerkMaster	031143
World Diamond Source Inc	S11307
Xiamen Kaiyuan Diamond Tools	S11826
Xiamen Murat Tool Ltd.	S13011
Xtreme Polishing Systems	O40643
Xtreme Polishing Systems	S11610
Zhengzhou Sinoblade Industrial	S11941
ZipWall, LLC	C6703



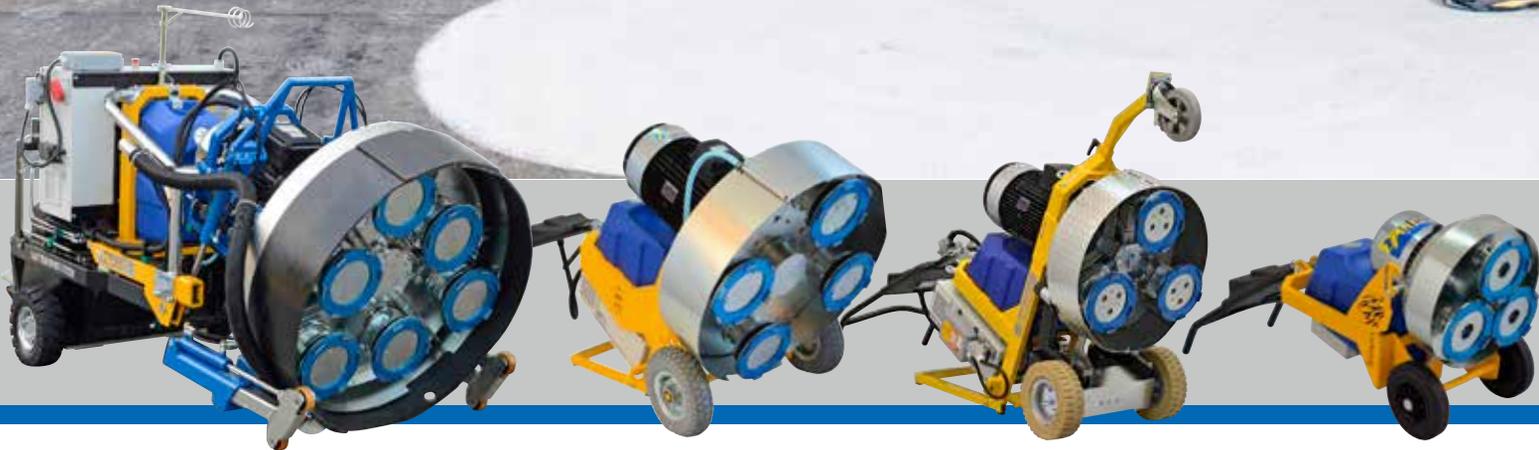
As usual PDa magazine and its sister publication, PDi will exhibit, this time in Central Hall booth C4218. We've eliminated our outdoor booth this year (which was popular, but a bit cold), so that we can have a presence at at Conexpo-Con/Agg.

As usual at World of Concrete, visitors can also take advantage of a large number of seminars, courses and training programs during the show week. For a detailed program please visit the show's official website—www.worldofconcrete.com.



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LOAD 'EM UP

We're in the middle of a year's worth of near-constant construction product introductions and enhancements, with Bauma 2016 this past April, and CONEXPO-CON/AGG looming on the horizon. And one of the most popular categories encompasses compact loaders and skid steers, the do-anything machines that help demolition contractors get where the jobs (and the profits) are.

Selecting a machine that best suits one's current and future needs is never easy, especially when they come packed with features and productivity innovations that industry veterans might never have thought possible, and that newcomers have come to expect. On the other hand, there's so much quality equipment available now, it's really difficult to make a "wrong" choice. So what's the best compact loader and skid steer for your business? Read on...then ride on.

Kubota raises its compact track loader game with the SVL95-2s

Kubota Tractor Corporation's new SVL95-2s compact track loader offers greater multi-tasking capabilities, more powerful hydraulics and more class-leading comfort upgrades than ever. As a replacement for the SVL90-2 compact track loader, the SVL95-2s has five hydraulic presets available for the operator to choose via an in-cab control, making it ideal for jobs that require running more than a single attachment.

At the heart of the SVL95-2s is its new, more powerful high flow hydraulic system, which can be programmed and instantly adjusted at the push of a button to adjust flow rates from 5 to 40 gpm (19 to 151 L/min)—a 19% improvement over previous models. Operators can utilize up to three hydraulic circuits in parallel, which control the loader, the bucket and an auxiliary device such as an auger or drill. With bucket breakout force of 7,961 lb (35.4kN)

and a unique vertical lift designed to deliver an exceptionally long reach of 40.7 in (1,034mm), the SVL95-2s is at home on a variety of job sites.

Powering the SVL95-2s is a turbocharged, liquid-cooled, four-cylinder diesel engine with a Common Rail System (CRS). In tandem with Exhaust Gas Recirculation (EGR), a Diesel Particulate Filter (DPF), and a Selective Catalytic Reduction (SCR) system, the CRS enables the engine to produce 96.4 hp (71.9kW) while adhering to Final Tier IV emissions standards. With a 28.8-gallon (109L) fuel tank and a 5-gallon (19L) Diesel Exhaust Fluid (DEF) tank, the SVL95-2s can run a full 8-10 hour workday without needing to refuel and a four to five day workweek before a DEF tank refill is needed.

Inside the cab, the SVL95-2s offers a plethora of new comfort and convenience features including push-button control for the optional high flow hydraulics and a high-back suspension seat that provides enhanced support while minimizing fatigue on long workdays. A wider entrance makes entering and exiting the cab easier, and the hand/dial throttle control is optimal for jobs where constant engine speeds are necessary, such as when trenching or snow-blowing. The interior of the SVL95-2s, when ordered with a cab enclosure, also comes radio-ready—prewired from the factory and equipped with an antenna, speakers and mounting bracket.

www.kubota.com

New Bobcat M2-Series loaders offer performance, comfort and visibility enhancements

Bobcat Company is expanding on the popularity of its current M-Series loaders by introducing the new M2-Series skid-steer, compact track, and all-wheel steer loaders. M2-Series compact loaders offer a variety of performance, operator comfort and visibility enhancements to help increase operator productivity and provide enhanced uptime protection. The M2-Series lineup includes Bobcat® 400-, 500-, 600-, 700-, and 800-frame-size skid-steer, compact track and all-wheel steer loaders. Altogether, the M2-Series includes 24 skid-steer, compact track and all-wheel steer



models. For added convenience, Bobcat compact loader operators can now turn the automatic ride control option on or off from inside the cab for added convenience. When the auto mode is selected, the system will work at any travel speed. The ride control function is automatically activated by detecting increased hydraulic lift arm pressure when the loader is carrying material. It will deactivate when hydraulic lift arm pressure is reduced. Automatic ride control reduces material spillage, allowing operators to travel at faster speeds for increased productivity. Thanks to its dampening effect, the option also increases comfort by offering a smoother ride, and is optimized for each Bobcat loader frame size.

A new reversing fan option available for M2-Series loaders allows operators to temporarily reverse the cooling fan direction for several seconds to blow dust and small debris from the radiator and rear screens. This option helps minimize downtime, and can reduce the cooling area cleaning frequency.

M2-Series loaders have been improved to increase operator comfort thanks to new front and rear cab isolators, door seals and side screen dampers. These design elements reduce noise, vibration and dust inside the loader cab. Also, a new lift cylinder cushioning feature slows down the loader arms before they reach the lift arm stops for smoother movements and increased operator comfort. A new low-effort hydrostatic pump reduces drive lever effort by as much as 25%. If operators are completing projects at night, such as snow removal or road construction, a dealer-installed side lighting kit is useful to increase visibility. The LED light bars are mounted to the top of the M2-Series loader cab on the right and left sides. The lights are well protected, have 800 lumens per side and produce a bright white light. Operators can switch the side light bars on or off with a simple press of a button in the loader cab.

Also improving visibility is a redesign of the top window of the loader's cab. The redesign improves operator visibility with a 34% increase in viewable area. This is beneficial when loading material into a high-sided truck or silage into a mixer. In addition, the new design allows for easier top window cleaning, and still meets all of the safety standards for ROPS and FOPS. M2-Series S850 skid-steer loaders now come standard with 100-hp (74kW) Bobcat engines. This 9% increase provides increased attachment performance in demanding applications, including operating high-flow auxiliary hydraulic attachments such as forestry cutters, planers and snowblowers. It also delivers more power to





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operate high-flow auxiliary hydraulic attachments at higher ground speeds during attachment operation, increasing operator productivity.

www.bobcat.com

Also from Bobcat, S595 skid-steer loader features increased performance and higher ROC

For operators looking for more performance and productivity in a 74-hp (55kW) skid-steer loader, Bobcat Company offers the new S595, which boasts a 2,200-lb (998kg) rated operating capacity (ROC), the highest of any of 500-series loader. This makes it ideal for those who need to lift and carry more material. The vertical-lift-path S595 is able to lift loads higher, making it easier to clear high-sided truck boxes and hoppers. A standard feature for the S595 skid-steer loader is two-speed travel, with a top speed of 11 mph (18kph). The feature allows operators to choose between low and high travel speeds to match the jobsite conditions and tasks. Operators can switch between travel speeds with a simple press of a button.

The S595 has a best-in-class pressurized cab with a one-piece seal that goes all the way around the door and fits into a special curved pocket. This minimizes the amount of dirt and dust that might enter the cab, creating more enjoyable working conditions for the operator. Bobcat S595 loaders incorporate multiple design elements to help protect the owner's investment and minimize downtime. Auxiliary hydraulic quick couplers are mounted directly to the front plate of the lift arm, while hoses are routed through the loader arms for better protection. Simple checkpoints make it easier to perform routine maintenance. The M-Series, cab-forward design moves operators closer to the attachment and delivers exceptional visibility in all directions. Operators can see the cutting edges of a bucket, for example, for more precise work and better overall productivity on their jobsites. The larger top window makes it easier and more comfortable for the operator when performing tasks like loading trucks or tall hoppers.

www.bobcat.com

New DL220-5 Staghe IV wheel loader from Doosan Bobcat

Doosan Bobcat EMEA has launched the new high performance DL220-5 wheel loader, the latest addition to the company's "DL-5" generation of Stage IV compliant machines. The DL220-5 offers high productivity and fuel economy, with features such as a new high comfort cab, a powershift transmission with optimized hydraulic pumps, multiple power modes, Z-bar lift arm, return to dig and limited slip differentials on both the front and rear axles. These features are standard on the new DL220-5 wheel loader unlike other machines on the market where they are options and many have been developed to optimize fuel efficiency.

The DL220-5 wheel loader is powered by the well-proven 6-cylinder, turbocharged Doosan DL06P water-cooled diesel engine that provides a power output of 160 hp (119kW) at 2,100 rpm and a maximum torque of 165,234 lbf (735 Nm) at 1,400 rpm. The DL220-5 is manufactured with a standard Z-bar lift-arm linkage and is ideal for scooping, loading, carrying and general construction tasks. For operators requiring additional dumping capabilities, the DL220-5 is also available with a high-lift Z-bar configuration, extending the dump height 18 in (457mm) above that of the standard DL220-5. This configuration is ideal for loading material into high-sided trucks or high hoppers, building stockpiles or handling solid waste. The fully automatic transmission — with three selectable transmission modes — utilizes a vehicle control unit, which means the engine's computer and transmission control system constantly communicate with each other to reduce fuel consumption and



increase performance.

With limited-slip differentials as a standard feature, the DL220-5 wheel loader has more traction when digging, grading, or loading trucks. To maneuver in tough terrain, the limited-slip differential also allows the wheel with the most traction to receive the proper torque, providing superior tractive effort to ensure operators can keep working, even in soft or wet ground conditions. To help save valuable diesel fuel, auto idle and auto-shutdown come as standard. Auto idle automatically reduces the engine RPM to standby idle when the steering wheel or joystick control lever are not utilized for a few seconds. When enabled, auto shutdown will stop the engine when the preset idle time is met. Operators can configure the idle time from 3 to 60 minutes. The new cab demonstrates how Doosan has placed operator comfort at the very center of its design priorities. Offering generous headroom and an ultra-comfortable, fully adjustable (vertical and horizontal), heated Grammer air suspension seat, the DL-5 cab features a new steering column design giving more clearance for the operator's legs and knees. The steering wheel can also be tilted and moved telescopically to match the operator's preferred position.

The increased space, better visibility and plentiful storage space in the new cab allows operators to work for hours without fatigue or discomfort. Meeting ROPS/FOPS regulations, the cab also offers a wide emergency exit (located on the right hand side) to provide fast and easy evacuation in critical situations. The DL220-5 has been designed for ease of maintenance and includes additional oil sampling ports to improve preventive maintenance procedures. In addition, various fluid pressures are now viewable from the dash panel, allowing monitoring from the cab. Uptime is increased by features such as a fuel filter separator with double filtration that is easily accessible behind metal panels that protect internal components. The high-efficiency engine air cleaner prevents abrasive particulate matter from entering the engine's cylinders. Thick wheel loader lift-arm plates provide strength without sacrificing visibility, and the plates, chassis and joints have been analyzed using finite element techniques to confirm the components' durability.

www.doosanequipment.eu

New from John Deere: large-frame skid steer loaders and compact track loaders

The new John Deere large-frame G-Series skid steers (330G and 332G) and compact track loaders (331G and 333G) were inspired by extensive feedback from John Deere customers looking for more productivity, better visibility and simplified service to remain competitive in their businesses. The biggest improvement on the large-frame G-Series is the refined vertical-lift loader boom design that rises higher, reaches farther, and lifts more for quicker and easier loading. Height to hinge pin is 11 ft (3.4m), enabling operators to easily load dump trucks, feed mixers, fill hoppers and everything in between. Customers will also appreciate the new lift path

that extends an additional 6 in (152mm) from the machine.

The large frames also serve up substantially greater boom and bucket breakout forces. In fact, they have horsepower that is comparable to a small backhoe or crawler, and they also work comfortably in tight quarters, so operators can accomplish more with less machine. Increased rated operating capacities of up to 3,700 lb (1,678kg) give these models the muscle needed to master heavy loads, coupled with a breakout force that has been increased by 40% to make lifting heavy loads easier. Increased auxiliary hydraulic flow and power on the large frames means customers can make the most of an even broader range of attachments for a wide variety of work. Universal Quik-Tatch™ enables you to go from bucket to forks and more in just seconds. Generous standard and optional high-flow auxiliary hydraulics also let you effortlessly run powered attachments, such as hydraulic hammers, cold planers, mulching heads and trenchers. All auxiliary hydraulic lines and wiring on new machines are now routed through the boom where they're more protected and out of the operator's sightline.

An easy-access entryway, tightly sealed swing-out door, and ample foot-and legroom simplify getting in, getting comfortable and getting things done. Unobstructed sightlines to the bucket corners, the edge of the tires or tracks, and the job site ahead and behind instill confidence in tight quarters. Best-in-class visibility gets even better with an optional rearview camera that displays the action behind on an upfront monitor and an optional LED lighting package that provides front and side illumination for extended days and after-dark tasks. Consistent with other G-Series models, flexible control choices on the large frames allow contractors to choose between standard EH ISO controls, (EH) ISO joystick controls or options that are switchable between ISO- and H-patterns, or EH 3-way switchable controls that allow operations between ISO- or H-pattern, or hand and foot controls of operation within the same machine. The cabs and floors are sealed and pressurized to keep out dust and excess noise, and a footwell clean-out makes debris management easier than ever, minimizing costly maintenance and downtime. Cab side windows also remove easily for cleaning.

www.johndeere.com

...the 324E mid-frame skid steer

The 324E skid steer packs all of the performance features of its larger-framed siblings into an agile, ultra-efficient compact design. The result is an affordable machine that completely outperforms its size and the competition. Key highlights of the 74-hp (55kW) 324E include upgraded controls and boom performance, auxiliary lines that are integrated through the boom for improved visibility and added protection, and cab improvements aimed at improving operator and ma-





chine productivity, uptime and lower daily operating costs. John Deere offers all major control patterns on the 324E, so the operator can decide how the work gets done. This includes ISO, H-pattern, or foot/joystick electrohydraulic joystick controls. The E-Series also features an industry-exclusive option that allows the operator to switch between all three control patterns, at any time, with the push of a button. The 324E also includes improvements that enhance performance and make the machines more versatile. The patented vertical-lift boom design provides best-in-class performance throughout the lift path. It also offers greater reach 10.5 ft (3.2m), clearing high sideboards, and even dumps to the center of tandem-axle trucks. Best-in-class visibility from the cab is another key highlight of the 324E. Expansive curved front glass, a large top window and low side windows make it easy to see the surrounding job site. Even with an expanded engine compartment, best-in-class sightlines provide a clear view of the action behind the operator. With a noticeably larger entryway and all-glass curved door providing wide-open access, getting in and out of these skid steers has never been easier.

www.johndeer.com

...and a variety of John Deere Worksite Pro™ attachments

The new John Deere line of hydraulic hammer attachments (HH20C, HH40C, HH60C, and HH80C) is optimized to work with select John Deere G- and E-Series skid steers and compact track loaders, G-Series Compact Excavators and most competitive models. Redesigned with a simplified hydraulic-breaker solution to boost productivity, the Hydraulic Hammers provide two to three times more blows per minute than previous models. With 30% fewer parts, rebuild times are reduced to one hour versus eight hours, and an exclusive tool retention system enables quick installation and removal using only one small screwdriver. Additionally, the Hydraulic Hammers only require grease every two hours of operation and have a 1,000-hour service interval, contributing to lower daily operating and maintenance costs. Five bit options are available on the Hydraulic Hammers to further power operator productivity

John Deere's new grading-heel buckets are specially designed for the small-frame G-series skid steers. The grading-heel buckets are similar in style and dimensions as standard dirt buckets, but feature a squared-off heel for back-dragging applications. The bottoms of the buckets are smooth, with no lifts or edges, which allow the bucket to create a flat surface with ease. These features make the grading-heel bucket an ideal option for a variety of jobs, including land shaping, dirt leveling and installation of new landscape for sodding, irrigation and drainage. The grading-heel buckets are available in two sizes — 60-in and 66-in (1,524mm and 1,676mm) — for use with most compact models in the G-Series lineup.

www.johndeer.com

New L45H and L50H wheel loaders from Volvo Construction Equipment

Volvo's H-series wheel loaders are powerful assets on every jobsite and in every application. Equipped with Volvo's

unique Torque Parallel (TP) linkage, these machines are built to deliver high breakout torque and excellent parallel movement throughout the entire lifting range. A long wheel base, low center of gravity and good weight distribution give the machine superior stability on rough and uneven terrain. A robust, compact design — featuring strong center hinges and a sloped counterweight — ensures a stable, powerful performance in all jobsites. The powerful Volvo engine is assembled transversally for enhanced driving stability.

The L45H and L50H feature Volvo's intelligent load-sensing hydraulic system that drives power to the hydraulic functions according to demand for a fast response, shorter cycle times and reduced fuel consumption. An optional Boom Suspension System (BSS) boosts productivity by up to 20% by absorbing shock and reducing bouncing and bucket spillage. An optimized driveline combines a powerful engine with excellent transmission and axles to work in perfect harmony with the hydraulics and steering for superior durability and reliability. Heavy-duty planetary axles ensure long life in the toughest conditions, and the front and rear 100% differential locks feature a dog clutch design to improve grip and maintain maximum traction on all terrain.

The L45H and L50H feature Volvo's industry-leading cab for a comfortable, productive work shift. This certified ROPS/FOPS cab features ergonomically placed controls, a superior climate control system, all-around visibility and low internal noise levels. The molded cab roof and walls keep noise and vibration to a minimum, reducing operator fatigue. The Comfort Drive Control (CDC) function gives the operator the choice to control the machine by lever control. This improves operator comfort, reduces fatigue and ensures better productivity over long working hours. Volvo's climate control system ensures comfortable operation, providing optional Automatic Heat Control (AHC) or Air Conditioning (AC) for the perfect cab temperature. The cab air intake is located high on the machine, where air is cleanest. The easy-to-replace pre-filter separates coarser dust and particles before the air passes through the main filter and finally enters the cab, giving the operator the freshest air. For increased safety, large, anti-slip steps and handrails ensure easy cab entry and exit.

Volvo's L45H and L50H have been built for easy, hassle-free servicing. Ground-level service points and grouped greasing points ensure easy and quick maintenance. The oscillating rear axle is supported on maintenance-free cradles. Its bearings and bushings are lubricated for life and protected by well proven seals, saving hours of maintenance time and increasing uptime. Machine owners can maximize machine uptime with Volvo's diagnostic analysis software. MATRIS analyzes the machine's operational data, and VCADS Pro can adjust machine function accordingly.

www.volvogroup.com



Cat compact wheel loaders combine performance, fuel efficiency, and emissions control

The new Cat M-Series Compact Wheel Loaders—910M, 914M, and the all-new 918M— build on the success of current K-Series models with engineering refinements that include a new, larger-displacement engine that meets U.S. EPA Tier 4 Final and EU Stage IV emission standards, as well as new options and features that further enhance value, operator comfort, and safety. The new 115-hp (86kW) 918M has the features to perform efficiently in a range of tasks, whether the job requires the available high-flow auxiliary-hydraulic system to run demanding attachments—such as a snow blower, or standard heavy-duty axles for aggressive performance in waste applications, or the 25-mph (40kph) high-speed option. A new Cat C4.4 ACERT™ engine powers the three new M-Series wheel loaders. Its self-managing clean emissions module requires no operator intervention or downtime. The module uses a selective-catalytic-reduction system, which requires only the addition of diesel exhaust fluid. The new engine reduces owning and operating costs with standard, fuel-saving features, such as the ECO mode, auto-engine-idle shutdown, and available on-demand cooling fan. The 910M and 914M feature an intelligent power-management system that balances performance and fuel efficiency. The system utilizes additional power when the machine senses a higher demand, such as climbing a steep grade or using a high-flow work tool. This on-demand power adjustment provides optimum productivity and hydraulic speed under load.

The deluxe cab of the new M-Series models is designed to provide all-day comfort, featuring two side-entry doors, low-effort electro-hydraulic joystick, suspended pedals, tilt steering wheel, and an air-suspended/heated seat that provides an extremely comfortable ride for the operator.

A multi-function, loader-control joystick provides easy, single-lever control of loading functions, as well as transmission and differential-lock controls. The joystick also accommodates controls for two-, three-, and four-valve hydraulic systems, including proportional control of auxiliary circuits.

M-Series wheel loaders also introduce several new optional features designed to enhance productivity, operator safety, and serviceability. An available LED light package includes front and rear LED auxiliary work lights, combined with an optional rearview camera (standard for Europe), ensures maximum visibility for the operator to further enhance job-site safety. In addition, an optional electronic, soft-touch keypad provides convenient control of most functions and allows operators to program the machine for application requirements and for personal operating preferences. The Implement-Modulation system allows adjusting hydraulic response to one of three levels, and the Hystat Aggressiveness Control provides three levels of shifting smoothness and directional-change response. The new M-Series models use the Caterpillar-patented Optimized Z-bar loader linkage, which is designed to deliver both the aggressive digging performance and high breakout forces of a conventional Z-bar linkage, and the parallel-lift and load-handling capability of a tool carrier.

www.cat.com

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See HTC's New DURATIQ at WOC 2017

HTC, which years ago developed the method of grinding floors using diamond abrasive technology, is at World of Concrete 2017 showing its totally newly-developed floor grinder: DURATIQ™. The machine is available in two grinding widths, 23.5 in and 31.5 in (600mm and 800mm). Both of the versions are completely new designs and are based on many years of intensive studies of the future needs of customers.

Lind says. "The step that we are now taking with the launch of DURATIQ™ is almost as huge in the development of our business and the industry. DURATIQ™ sets a completely new standard for productivity, reliability, operability and flexibility."



Some of the 100 new features incorporated into DURATIQ™ are:

- **Newly-designed digital control panel and remote control that offer even new operators full control and easy handling**
- **New grinding head, hermetically sealed and dustproof for maximum reliability**
- **Compact, robust chassis design for optimal maneuverability, handling and simple transport**
- **Enhanced AirFlow™ technology and Mist Cooler System that increase productivity by up to 216% and dust collection by 100%**
- **Simple-to-adjust weights, 20 different handle settings and 74% less vibration ensure significantly improved ergonomics.**



Since DURATIQ™ has been designed from scratch by HTC's own R&D department, no detail has been left to chance. The numerous smart features include GPS tracking, USB ports to download operating data, upload new software and charge personal equipment. Stefan Lind, CEO of HTC, emphasizes that this is the most pioneering launch in the history of the company.

"HTC developed the method for grinding concrete floors using diamond abrasive technology 29 years ago,"

Lind goes on to say that the industry will talk about the time before and after DURATIQ™ in the same way that it sometimes compares leading-edge innovations in technologies, such as mobile telephony. "As a company, HTC's fundamental motivating force is to always be at the forefront of development," he says. "Once again, DURATIQ™ is proof of HTC's innova-

tiveness for the whole industry." The DURATIQ™ grinding machines have been tested for more than 5,000 hours before the launch. Because of the precise, yet extremely robust design, of every single detail, the service interval is an impressive 1,000 hours. Thanks to a new modular structure and meticulous design detail, it is easier than ever to replace high-wear parts. For instance, it only takes about 40 minutes to replace a belt.

Another new feature is the option of configuring your DURATIQ™ entirely to the user's own needs, or upgrading the machine afterwards. The customer chooses the grinding size, electric power version, the number of grinding discs, and, if desired, remote control. There are then a number of optional packages—water, light and GPS. Finally, the customer has the option of customizing the machine with additional weights, cupholders, and other accessories.

www.duratiq.com





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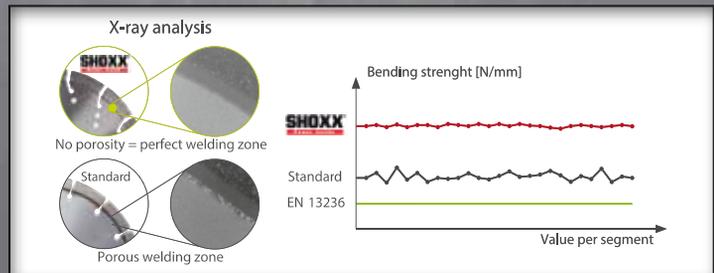
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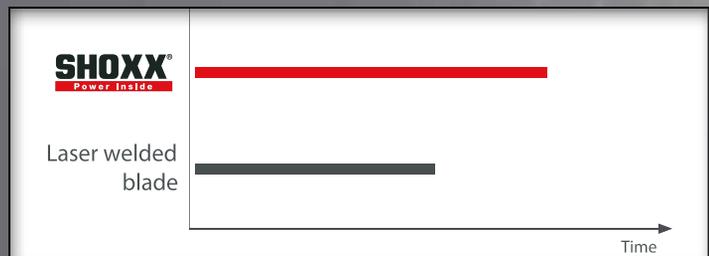


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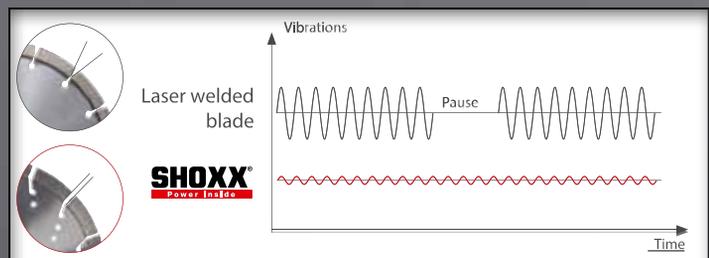
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Darda Multi Cutter Attachment Enhances Brokk Machines' Versatility in Steel Cutting

Brokk, the world's leading manufacturer of remote-controlled demolition machines, introduces the MC200 Multi Cutter to expand smaller Brokk models' versatility for contractors in steel cutting applications. The one-of-a-kind steel cutting attachment, manufactured by Brokk's sister company, Darda, offers a high power-to-weight ratio and sleek, compact design. The new attachment addresses a need for a lightweight, economical steel cutting tool. It promotes

safe and efficient steel material cutting in a variety of industries, including demolition, nuclear, process, food and construction.

The 10-in x13-in (25cm x 33cm) Multi Cutter is 40 in (102cm) long and can be used on machines weighing 1.2t to 2.8t, including the Brokk 100, 120 D and 160 models. It brings flexibility to the jobsite with its slim profile, making it easy to maneuver in tight spaces, such as building interiors where Brokk machines excel due to their electric

operation and compact size.

The attachment also features a hydraulic 360-degree rotary drive for exact positioning and an 8-in wide (200mm) jaw opening, able to handle a variety of metals. It weighs only 265 lb (130kg), yet uses a hydraulic booster to exert 50t of cutting force at 3,900 psi (270 bar) to easily cut through steel. To reduce costs to the end user, Darda also designed the MC200 Multi Cutter so operators can sharpen the jaws



rather than replace them. The MC200 Multi Cutter, combined with the smaller Brokk machines' remote capabilities and arms that extend as far as 16 ft (5m), allows contractors to easily cut beams, cable, supply lines, and steel pipes in hard-to-reach areas. This improves efficiency and minimizes labor costs. The attachment, paired with a Brokk machine, reduces the risk of injury to laborers by eliminating the need to climb scaffolds and ladders with handheld tools. The Multi Cutter also alleviates the risk of injury from open-flame torches, which are a common but dangerous method for cutting steel. This traditional approach can also create fire hazards and increase the risk of exposure to harmful emissions.

The MC200 Multi Cutter is one of nearly 20 Brokk attachments that operators can quickly interchange for greater versatility on a jobsite. Brokk supplies a wide range of remote-controlled machinery and attachments around the world to maximize productivity, improve efficiency and promote safety.

www.brokk.com

Using Robotic Tech for Precision Demolition of Concrete Silos

When a demolition contractor faced demolishing two 1940s-era concrete silos standing precariously over Santa Fe, New Mexico's water supply, they knew it wouldn't be as simple as just knocking them down. The water intake structures sat in the Nichols and McClure reservoirs on the Santa Fe River and supplied 40 percent of the area's drinking water. The process to adjust water flow through the dams was inefficient and dangerous.

In 2014, city engineers came up with a US\$6 million plan to modify the silos and allow workers easier access. The city hired RMCI, Inc., to construct a new system. RMCI hired A-Core, Inc., to demolish the silos without damaging the inlet structures at the base.

The Nichols Reservoir silo, the first to be demolished, was about 65 ft (19.8m) tall, and had to be brought down to a 25-ft (7.6m) buried inlet section. The 10-ft (3m) diameter silo was supported by 2.5-ft (.76m) thick concrete reinforced by rebar, steel plates, angle iron, and embedded gate valves. The McClure Reservoir silo was 35 ft (10.6m) taller, and had to be brought down to another buried inlet structure. The silo was 8 ft (2.4m) across, with 2-ft (.6m) thick concrete walls that had the same embedded



steel obstacles as Nichols. A-Core started with the shorter Nichols silo. The contractor secured their Brokk 330D to a custom steel platform and used a crane to lift it and the machine to the top of the structure. The operator directed the Brokk machine's three-part arm from a boom lift platform, using the machine's about 700 lbf (3,113N) of power to break away at the structure. In the end, A-Core hauled away more than 600t of concrete, completing the Nichols reservoir in July 2014, and McClure in May 2015.

RMCI added new intake structures, allowing city workers to adjust the valves by opening a door at the top of either dam and walking down a flight of stairs. It was a project made successful by creative thinking and innovative tools.

Customizable Dust Suppression for Specialized Applications

Dust Control Technology® (DCT) is complementing its existing line of stationary dust suppression rings with the ability to produce geometric shapes, bars or other configurations, customized to the needs of the specific application. Each design is specially-engineered for the application and equipment of the individual customer for superior dust management.

The new technology can create a virtually unlimited array of shapes and sizes, including the DustBoss® DB-R ring, which creates a curtain of mist around the cargo stream or specified area for outstanding containment of fugitive dust or odor. The customized solution offers high-volume applications such as radial stackers, crushers, and screeners more focused and reliable suppression, taking the technology beyond perforated hoses and basic spray nozzles. The company has also developed the ability to supply custom spray bars and shapes under the DustBoss® DB-B family of spray bar products.

Customers can request a virtual site assessment to determine the optimum size and shape of a customized ring, working with experienced personnel to design a tailored system. The assessment includes such details as material properties and

volume, width / length / speed of conveyors, pulley diameter, and slope. DCT can also produce customized shapes from customer drawings, depending on the size, geometry and complexity. With the launch of the customization program, the company is equipped to engineer systems of nearly any size and configuration.

www.dustboss.com



From Steel to Solar Power



Five Indeco breakers demolished the foundations of a former steel mill in Buffalo, NY, in an area seeing construction of the largest solar panel production plant in the US.

The new SolarCity solar panel manufacturing plant is of huge importance to Buffalo because it is closely tied to the city's economic revival. The new manufacturing hub, built on the grounds of an old steel mill, will occupy a total area of 61.5 acres (29.4ha), and employ more than 2,000 workers. Site conversion and construction of the new industrial complex were assigned to LPCiminelli, a major East coast contractor based in Buffalo.

When the SolarCity project was drawn up, it was discovered that numerous underground structures had to be removed. The job involved the demolition of thick foundation slabs, supporting walls, and steel/cement structures—not all of which had been fully documented. As such, the job would require hydraulic breakers capable of demolishing structures even two or three meters below ground level.

What initially seemed a necessary, yet secondary, step with respect to the construction of the new buildings, soon proved a major aspect of the job site. When excavations have been completed, it is estimated that more than 39,240 yd³ (30,000m³) of concrete will have been demolished and removed to prepare the site for the new SolarCity factory. In addition, approximately around 3,000t of ferrous material (rebar, plant components, small rail cars, rails, blast furnace slag and other waste) will have been sent to recycling.

To perform demolition, LPCiminelli used five Indeco breakers—two HP 8000s, two HP 13001s, and an HP 16000. The breakers were used to not only to demolish elements in reinforced concrete and structures where the new foundations were to be built, but also to excavate trenches for installation of the large utilities network.

Some of the material requiring removal included very hard concrete, often cast with thick diameter. In more than a few cases the concrete contained beams and other types of iron reinforcement that called for intense efforts for removal. Further complicating operations was location. Buffalo, one of the coldest cities in the United States, had been

subjected to winter temperatures of -20°F (-28.5°C), freezing the ground and requiring the use of breakers to reach and discover the hidden concrete structures.

"The demolition was incredibly challenging, due both to the quantity of material we removed from the ground and because we really didn't know what to expect as the job progressed," says Keegan Lachut, site manager for LPCiminelli. He adds that while all Indeco breakers performed optimally, but in certain situations the one that delivered the best was undoubtedly the HP 16000.

"I don't think I've ever seen a breaker giving that type of performance," Lachut says. "In hindsight, if we had immediately understood how difficult the job would have been and the capabilities of the HP 16000, we would have rented five in place of the other models. As I said, the other breakers gave excellent performance, but given the hard task they needed more time to get the job done, especially in the most difficult situations."

www.indeco-breakers.com



Advice, Expertise, and Equipment Overcome Demolition Challenges

McMahon Services, an Adelaide, Australia-based construction, industrial, and environmental services provider, was engaged to carry out a number of complex demolition projects at the Adelaide Convention Centre in Australia to upgrade and modernize the facility. Among them was the deconstruction of the Convention Centre's Plenary Building, which was to be replaced with a multi-purpose, state-of-the-art facility. One of the trickiest parts of the job, were four circular stair structures, each 26.2 ft (8m) in diameter and 42.6-ft (13m) high, concrete walls up to 9.8 in (250mm) thick. To reach these stair structures, a modified Komatsu PC138-8 excavator was fitted with a 52.5-ft (16m) long-reach boom, which naturally required a smaller than usual breaker for this size of carrier. And because the work required the excavator to work on a suspended concrete slab, which also had to be demolished in the course of the project, the PC138-8 was heavily modified with an extended undercarriage system to better spread the weight over the floor area.

According to Ryan Brown, National Business Development and Brand Manager

with McMahon Services, an 850-lb (385kg) Sandvik Rammer 777 was purchased and specifically matched to the long-reach excavator just for this project. "It was important that we had the right weight, power and capacity in the breaker to remove the concrete stairwells and slabs efficiently," Ryan says.

Daniel Drew, Renex's Rammer specialist, said that Renex worked with Komatsu and McMahon Services to ensure that the breaker was properly matched to the PC138-8. This was essential given the extensive modifications to the excavator which meant that its safe working capabilities had changed.

"The most critical factor was matching the weight of hammer to the modified excavator, giving close consideration to the length of boom, length of tracks and width of the track frame to ensure the machine didn't tip at full reach over the side of the tracks," Daniel says.

Ryan says the Rammer 777 worked very well in this application.

"It helped us to achieve our program, so that we finished the project according to the client's requirements," says Ryan.

www.rammer.com



The Big One of the Small Ones: Wacker Neuson's ET16 Mini Excavator

The new ET16 tracked excavator from Wacker Neuson is especially suitable for excavation work in confined spaces and offers the operator a generous cabin for best working conditions. The ET16 can reach difficult spots without problems, which makes it particularly suitable for work indoors, inner-city areas, or landscaping. Its telescopic undercarriage, which can be extended from 3.2 ft to 4.2 ft (990mm to 1,300mm), allows the operator to drive through narrow passages while also ensuring a high level of stability when the telescopic undercarriage is extended.

An operating weight of 1.5t makes the new mini-excavator ideally suited for use on sensitive soils. Weighing only 3,086-3,527 lb (1,400-1,600 kg), the ET16 can be transported using a normal car trailer. The dozer blade's side elements are firmly connected to the plate, eliminating the need for installation/removal.

The ET16 is a class of its own in terms of its cabin, the largest in its weight class. Along with generous legroom and headroom, the cabin features full glazing for better security and a panoramic view of all workspaces. The two-part front windshield can be pushed completely under the cabin roof, which provides a pleasant working environment during high temperatures.

A powerful and fuel-efficient 3-cylinder 17.7-hp (13.2 kW) diesel engine and a second

traveling speed of up to 2.5 mph (4kph) allows quick switching between different working positions. This also makes the mini-excavator a fast and flexible helper on the construction site, thanks also to its digging depth of about 7.3 ft (2,240mm) and a maximum dump height of 8.2 ft (2,500mm).

A direct access to the engine compartment provides easy and quick access to all relevant service points and allows for shorter maintenance and downtimes. Thanks to the standard auxiliary hydraulics, a variety of attachments can easily be installed. This expands the ET16's range of applications and efficiency.

www.wackerneuson.com



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A Packed Program at the 2017 NDA Demolition Convention

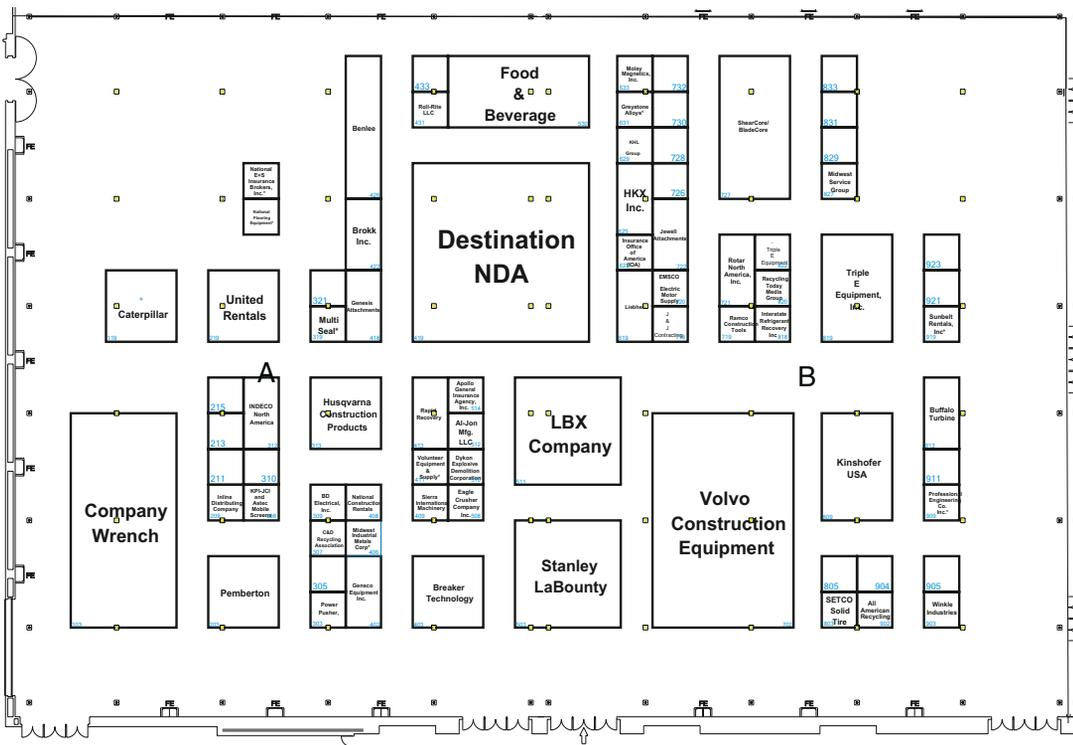
At the end of January the National Demolition Association returns to Las Vegas and the Mirage for its annual convention.

The National Demolition Association (NDA) will conduct its 2017 Convention, "Demolition 2017," January 29-31 at the Mirage Hotel & Casino in Las Vegas. The event should be a very interesting event for the US demolition industry, with a large number of suppliers and strong line-up of speakers discussing timely topics. The convention gets underway on Jan. 29 with meetings of various committee and NDA's Board of Directors, as well as a pre-conference seminar titled "Seal the Deal," presented Tom Woodcock. In the afternoon, NDA's 30th annual golf tournament will be held.

Monday January 30, will be a busy one. The day starts with the opening keynote speaker, former NFL Coach Herman Edwards (see below), followed by the Excellence in Demolition Awards. At 11:00 am, the exposition floor officially opens, but there's more education in the afternoon. Topics include cost accounting estimating, important OSHA updates in demolition, and the Fast and Furious presentations. In the evening, there's the always-popular Tailgate Party, held at the Mirage. On the final day, Tuesday January 31, the expo opens at 9 o'clock. The morning event lineup includes a seminar on Global Demolition Perspectives, more Fast & Furious Presentations, and a seminar on "What Keeps You Awake at Night?" After lunch, there's a seminar on asbestos and demolition in an ever-changing regulatory environment, and a closing keynote address by Ken Simonson (see below). The days will finish with the annual membership meeting and a cocktail reception before the large annual NDA banquet at 6.30 pm.

www.demolitionassociation.com

Lay of the Land: Floorplan NDA Demolition Show 2017



Herman Edwards

Meet Herman Edwards

Former NFL head coach and player Herm Edwards joined ESPN in March 2009 as an NFL studio analyst. He appears primarily on NFL Live, SportsCenter, Audibles, and ESPN Radio, while also contributing to ESPN's annual NFL Draft coverage. Edwards spent eight years as an NFL head coach with the New York Jets (2001-05) and Kansas City Chiefs (2006-08). He led his teams to four playoff appearances, including 2004 when his Jets squad finished with a 10-6 regular season record and advanced to the AFC Divisional Playoffs. Edwards played defensive back for 10 NFL seasons (1977-86), mostly for the Philadelphia Eagles. He played seven games for the Atlanta Falcons and Los Angeles Rams during his final season in 1986. Edwards was a member of the Eagles' Super Bowl team in 1980.

Meet Kenneth D. Simonson

Ken Simonson has been the chief economist of the Associated General Contractors of America since 2001. His weekly summary of economic news relevant to construction, "The Data DiGest," goes to 43,000 subscribers. He is a Fellow and past president of the National Association for Business Economics, the professional organization for individuals who use economics in their work. Currently, Simonson serves as an appointed member of the Census Scientific Advisory Committee and the Bureau of Labor Statistics' Data Users Advisory Committee. He has 40 years of experience analyzing, advocating and communicating about economic and tax issues. Simonson received a BA in economics from the University of Chicago and an MA in economics from Northwestern University.



Kenneth D. Simonson

NDA Demolition Show 2017

Exhibitor	Booth
Al-Jon Mfg. LLC	512
All American Recycling	902
Apollo General Insurance Agency, Inc.	514
BD Electrical, Inc.	309
Benlee	426
Breaker Technology	403
Brokk Inc.	422
Buffalo Turbine	913
C&D Recycling Association	307
Caterpillar	11g
Company Wrench	103
Destination NOA	419
Dykon Explosive Demolition Corporation	510
Eagle Grusher Company Inc.	508
EMSCO- Electric Motor Supply	720
Food & Beverage	530
Genesis Attachments	418
Gensca Equipment Inc.	402
Greystone Alloys*	631
HXX Inc.	625
Husqvarna Construction Products	313
INDECO North America	312
Inline Distributing Company	209
Insurance Office of America (IOA)	623
Interstate Refrigerant Recovery Inc	818
J & J Contrading	718
Jewell Attachments	722
KHL Group	629
Kinshofer USA	809
KPI-JCI and Astec Mobile Screens	308
LBX Company	511
Liebherr	619
Midwest Industrial Metals Corp*	406
Midwest Service Group	827
Moley Magnetics, Inc.	633
Multi Seal*	319
National Construction Rentals	408
National E+S Insurance Brokers, Inc.*	326
National Flaming Equipment*	324
Pemberton	203
Power Pusher, a Division of NuStar, Inc.	303
Professional Engineering Co. Inc.*	909
Rarneo Construction Tools	719
Rapid Recovery	413
Recycling Today Media Group	820
Roi-Rite LLC	431
Rotar North America, Inc.	721
SETCO Solid Tire	803
ShearCore/BladeCore	727
Sierra International Machinery	409
Stanley LaBounty	503
Sunbelt Rentals, Inc*	919
Triple E Equipment	822
Triple E Equipment, Inc.	819
United Rentals	219
Volunteer Equipment & Supply*	411
Volvo Construction Equipment	702
Winkle Industries	903

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Conjet Robot 557 Fixes Up Swedish Port Quay

Gavle Stad, the owner of a quay running inside the harbor in Gavle, Sweden, needed to reinforce nearly 1,000 linear ft (300m) of a 27.5-in (700mm) wide beam in order for the marina to accommodate the mooring of pleasure boats. The plan was to remove approximately 4 in (100mm) of concrete from the top of the beam, and recast the surface for added strength. The contract was awarded Svensk Sjöentreprenad AB, who assigned the hydrodemolition work to Waterjet Entreprenad AB. As the work was carried out in an urban area, the project team used a Conjet Robot 557 together with the Conjet Super

Silenced pump. The Robot 557 was chosen because the top of the quay was too narrow to accommodate the machine.

Thanks to the Robot 557's flexibility and stability of the robot, operator Ulf Kihl could easily maneuver the machine along the adjacent, uneven area without compromising performance. Using Conjet's patented wireless system, Waterjet Entreprenad AB eliminated the need for a cable connection between the controls to pump. All debris was directed to the landslide, making for easy, environmentally sound clean-up.

The concrete strength varied from



normal to weak, estimated from 2,636 to 4,351 psi (25 to 30 MPa). As the surface was removed, a few deep voids appeared in the concrete. Thanks to the mechanics of hydrodemolition and the use of water, these weaknesses were exposed and handled according to standard procedures.

The 328-ft (100m) first phase was finished in the late spring 2016, while the remainder completed the following autumn fall.

We can see how the uneven the surface is which the Robot 557 operates from and the operator Ulf Kihl expressed how easy it was to handle the boom system so it follow the top of the quay beam.

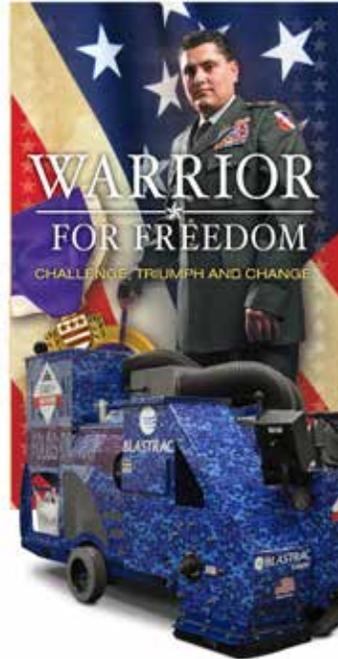
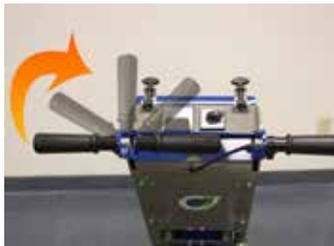
www.conjet.com

Check Out Blastrac's New 1-8DM Shot Blaster

Blastrac, NA has a new design for a highly portable, lightweight shot blasting system—the 1-8DM. Perfect for smaller jobs such as residential garage floors, pool decks, and small industrial floors, the 1-8DM runs on single-phase common power. With manual travel speed and 8.75 in (mm) blast pattern, this small blast machine is also ideal for balconies, areas around equipment and obstructions, and other tight spaces. This versatile small machine is frequently used as a complementary unit for larger jobs, and can also be used in preparation of concrete prior to wood floor installations or for applications such as overlays, paint, or coatings, and for decorative uses. It makes close-up work next to walls and other vertical protrusions simple.

The Blastrac 1-8DM can prepare, strip, clean and profile in one easy step. There is no rinsing or drying time as with chemical acid etching, and the profile provides a better surface for coating adhesion.

www.blastrac.com



Folds of Honor Foundation Honored at Blastrac's World of Concrete Booth

Blastrac NA, has chosen Folds of Honor Foundation to receive proceeds from the sale of the Blastrac 1-16DB4-V2, which will be on display with a new look exclusively for the 2017 World of Concrete. Major Dan Rooney, an F-16 Fighter Pilot in the U.S. Air Force Reserve, has committed his life to changing the future of America's grieving spouses and children. In 2007, he formed the Folds of Honor; a nonprofit organization that provides educational scholarships to the children and spouses of those fallen or disabled while serving our nation.

Major Ed Pulido, senior vice president and co-founder of Folds of Honor will be a special guest at Blastrac's booth (S10127). Major Pulido's story of courage and sacrifice has been featured in Time magazine, PGA magazine, Fox News, CNN, and many other national and local media outlets. On January 17, Major Ed will be signing his book "Warrior for Freedom" from 10:00 am to 12:00 pm, and from 3:30 pm to 5:30 pm. A portion of proceeds go to Folds of Honor.

"Those of us at Blastrac, NA understand the sacrifices military personnel make for their country," states Mark Haworth, President of Blastrac, NA. "Many of our Blastrac employees have or had family members in the military and we are also proud of our veterans employed here at Blastrac. We must not forget those families who are a part of this sacrifice. It is an honor thru Folds of Honor to pay tribute to those who paid the sacrifice for our freedoms." To learn more about Folds of Honor, or to make a contribution, visit www.foldsofhonor.org.



Cyclone Technology at Blastrac's WOC Booth

Earlier this year, Blastrac acquired Nilfisk Cyclone Technology, a manufacturer of high- pressure and low-pressure surface preparation and cleaning equipment. The company is located in Tempe, Ariz., where it designs, manufactures, and distributes its product line and associated parts. The addition of Cyclone equipment to Blastrac's product offering will enhance the company's position as a solution provider for surface preparation projects using a "tool-box" approach. The proprietary nature of the Cyclone offering along with its high productivity and per-



formance reputation is a natural fit with other Blastrac products, which have always enjoyed the industry's highest reputation for quality and performance. Cyclone Technology will display one of its most popular hard surface deep cleaning products, the CY550, at the Blastrac booth at World of Concrete. For more information about Cyclone Technology, visit www.cycloneclean.com.

WJTA-IMCA Releases Industry Best Practices

WJTA-IMCA is excited to announce the release of the first edition Industry Best Practices for the Use of High Pressure Waterjetting Equipment (formerly Recommended Practices for the Use of High Pressure Waterjetting Equipment). The new Industry Best Practices represents significant updates to the Waterjetting Recommended Practices.

WJTA-IMCA's Safety Committee for High Pressure Waterjetting—comprised of contractors, manufacturers, educators, researchers, consultants, and facility/asset owners—has worked for more than a year to review and update the previous edition, bringing the guidelines up to a level reflecting current safe practices among contractors and facilities.

"Facilities are demanding more from their contractors, and high pressure equipment users are placing an increased emphasis on safety, technology and workforce development," says Safety Committee Chair George A. Savanick, Ph.D. "WJTA-IMCA has strengthened its safety recommendations to provide additional guidance to companies large and small. The more stringent guidelines in the new orange book are reflected by the change of title from Recommended Practices to Industry Best Practices."

The Industry Best Practices includes information about responsibility, accidents, pre-service and operational checklists and procedures, PPE, training requirements, waterjet team responsibilities, care and maintenance of equipment, automated equipment, permanent cleaning areas, design criteria, and a glossary of definitions and guidelines. This new edition demonstrates the association's dedication to promoting safety in the industry by publishing safe operating guidelines, distributing safety information, and fostering communications in the industry. The first Waterjetting Recommended Practices was published in May 1985.

www.wjta.org

Creative Innovation and Networking in Sunny Puerto Rico

CSDA's 2017 Convention keynote speaker will use a unique method to show attendees how they can improve their problem-solving and decision-making skills during his innovative and entertaining business sessions, March 16-18, 2017, at the Grand Meliá Golf Resort in Rio Grande, Puerto Rico.

During the keynote session, dynamic keynote speaker Nathan Schwagler will introduce his audience to a facilitated meeting, communication and problem-solving process. Each participant builds his or her own 3D model in response to the facilitator's questions using specially selected elements, which serve as a basis for group discussion, knowledge sharing, and decision making. The keynote presentation will be followed by two highly- focused workshops.

Schwagler is a founding co-director of the Dalí Museum Innovation Labs in St. Petersburg, Fla., where he serves as lead program designer and executive facilitator. As a consultant, Nathan has supported more than 150 organizations to facilitate the mapping, development and deployment of their innovation capabilities to drive business outcomes. His clients include Converse Shoe Co., The Miller/Coors Brewing Co., Regions Bank, and The Tampa Bay Rays.

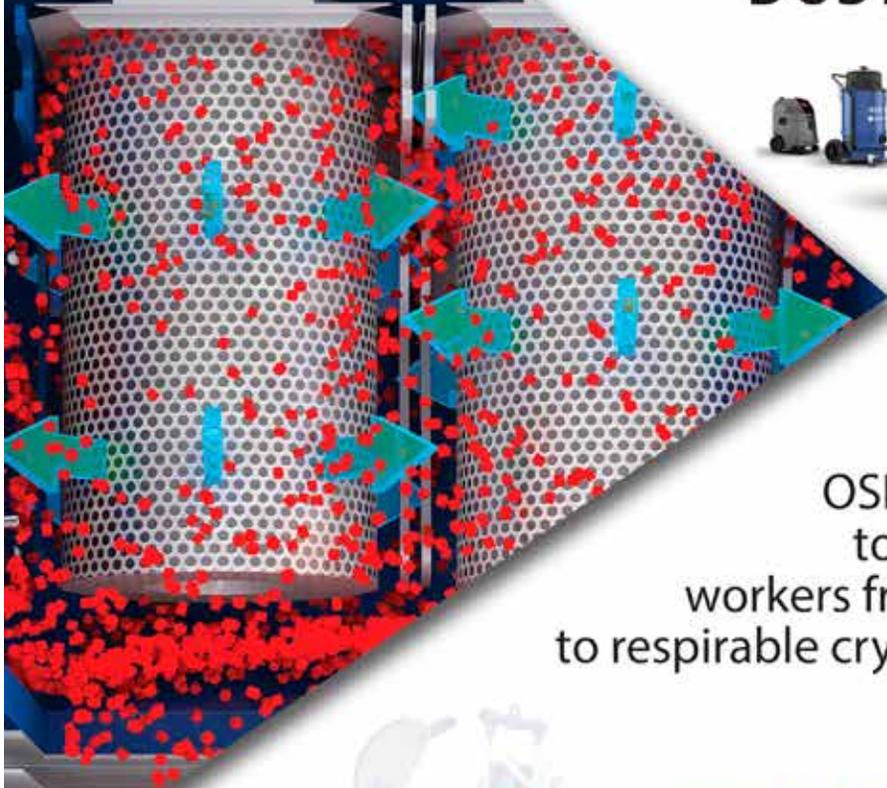
www.csda.org





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The CY550 will be shown in the Blastrac Booth at World of Concrete



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*Auto lubrication is available as an option for greater tool protection to all C-series Bretec breakers M17C, L20C and L30C

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