

# PROFESSIONAL DEMOLITION AMERICAS

Your Gateway to North, Central and South America

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Excellence**

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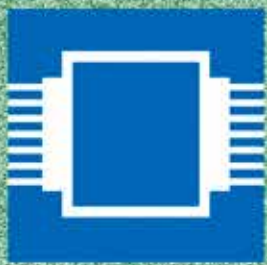
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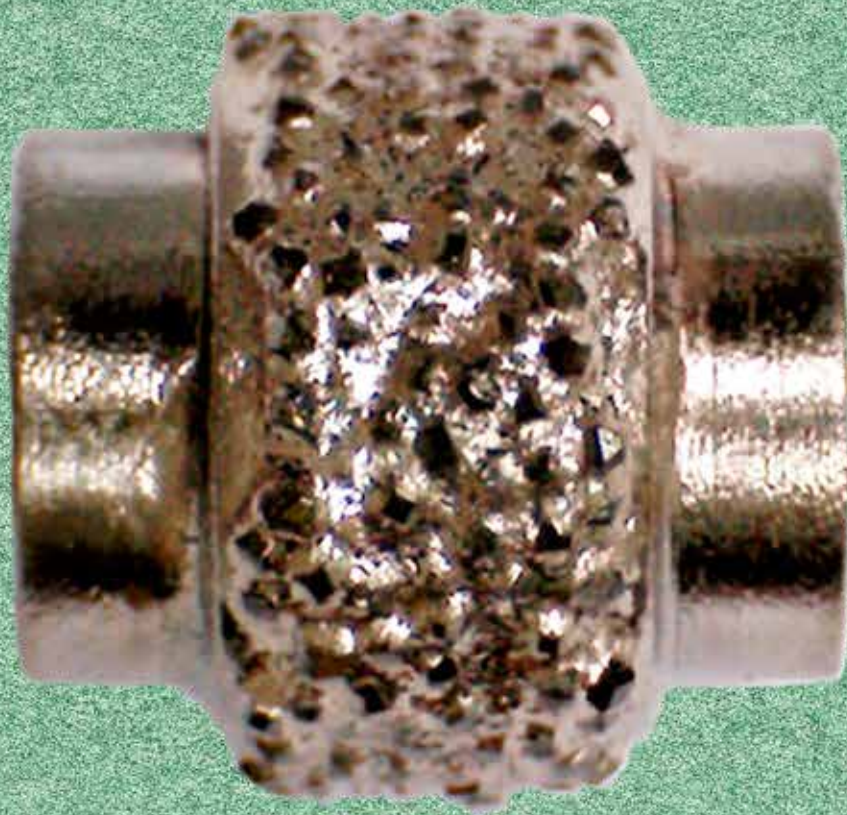


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pg. 18-19 for more info.

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**Steel**



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# The Contractors Calculus

## Dear Readers!

My college economics professor was fond of saying “it depends” when asked whether certain fundamental rules would always produce the same outcomes. If x was this and y was that, then yes, z would surely happen.

But if either x or y varied by even a small amount, or perhaps there arose variable j that no one had counted on, then the rules might not be as reliably predictive. One might achieve the same outcome, or experience something totally different. It depends.

Trying to characterize a “state of the market” for the construction and demolition industry is no different. In general, contractors in PDA’s coverage area are doing fairly well, thanks to everything from a resurgence of base industries to infrastructure mega-projects that provide some long-term “job security.” And judging by the optimism expressed by both vendors and attendees at this year’s early-season trade shows, there’s more to come.

Still, the positive sentiment is by no means universal. Many contractors lament that while conditions are indeed looking up, they’re still not great. And there are many areas of the Americas where new job opportunities remain hard to come by.

Part of this is perception. The pre-recession economy was indeed something to behold, but perhaps for the wrong reasons, given the factors that precipitated its downturn. Markets are bouncing back, per the rules of economic cycles, but not at a pace that pleases everyone. That’s due to those other variables my professor cited—cautious lending institutions, demands to reduce both taxes and public spending, weather conditions, domestic and international political factors...the list goes on and on.

Predicting what will happen in the long term is no easier. There may be overall trends

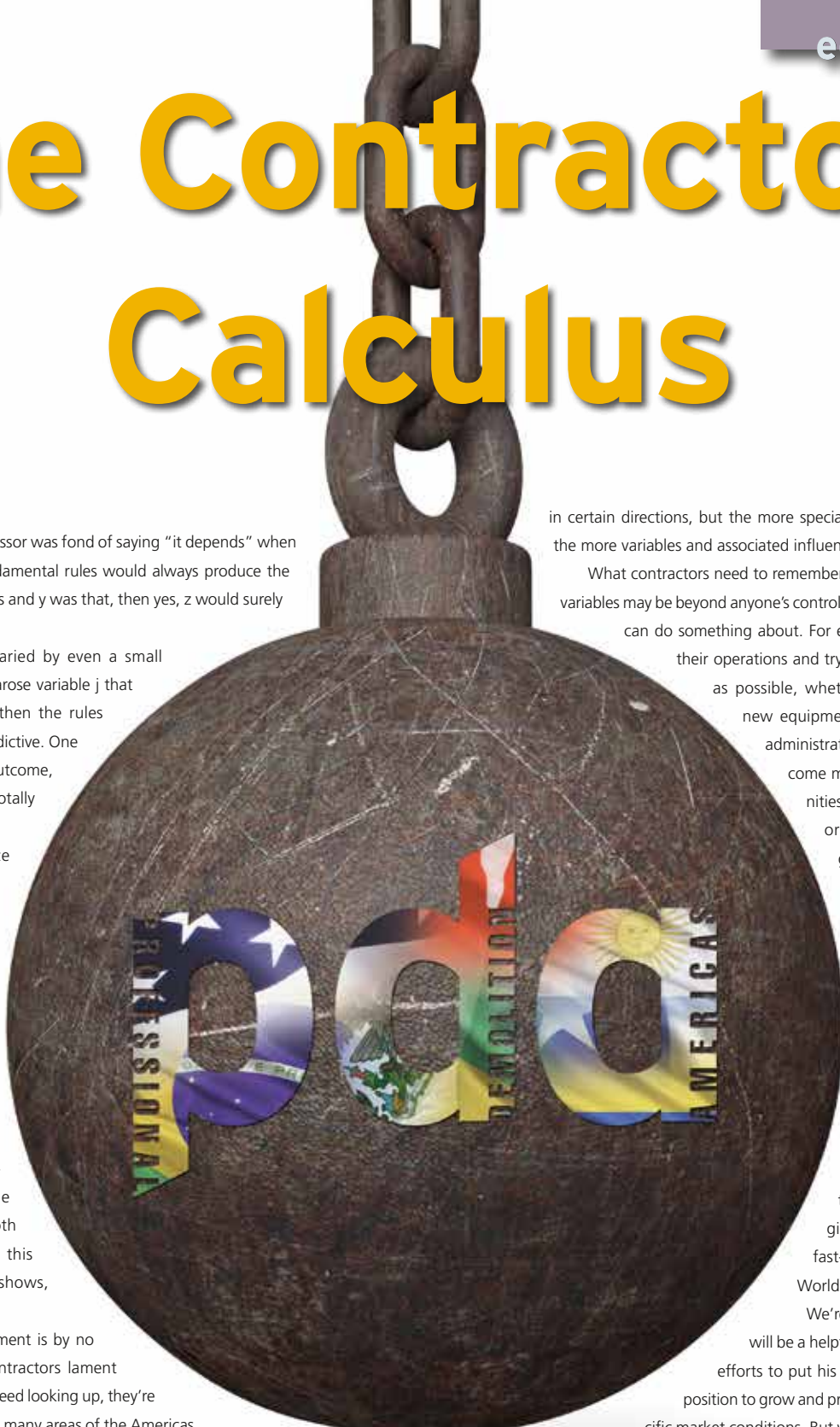
in certain directions, but the more specialized the market segment, the more variables and associated influences there are. It depends.

What contractors need to remember is that while some market variables may be beyond anyone’s control, there are many others they can do something about. For example, they can evaluate their operations and try to make them as efficient as possible, whether it’s investing in some new equipment or finding more useful administrative software. They can become more active in their communities, in trade and professional organizations, and in other groups that offer valuable opportunities to network and get a better picture of where opportunities are and aren’t.

And, they can do everything to keep current with trends in the construction and demolition industry, from the debate over proposed silica dust regulations in the U.S. to the technologies being used in Brazil to fast-track facilities for both the World Cup and the Olympics.

We’re of course hopeful that PDA will be a helpful tool in every contractor’s efforts to put his or her business in the best position to grow and prosper, regardless of the specific market conditions. But whatever tools and strategy one decides to apply, it must be remembered that any kind of positive action—no matter how small—is always good. One may still have to wait for events and trends to unfold, but that time can and should be used wisely.

And when the time is right, and the long-awaited opportunities arise, the contractor will be in prime position to take advantage of them. Yes, “it depends” on a lot of things—including you.



Event Calendar

**Concrete Show South America**

27-29 August, 2014  
 Imigrantes Exhibition Center,  
 São Paulo, Brazil  
[www.concreteshow.com.br](http://www.concreteshow.com.br)

**DEMCON - International Demolition Show**

September, 4-5, 2014  
 InfraCity Exhibition Center  
 Stockholm, Sweden  
[www.demcon.com](http://www.demcon.com)

**Construir Minas**

August, 6-8, 2014  
 Belo Horizonte Exhibition Center  
 Belo Horizonte, Brazil  
[www.minascon.com.br](http://www.minascon.com.br)

**Bauma China**

November, 25-28, 2014  
 Shanghai New Exhibition Center  
 Shanghai, China  
[www.bauma-china.com](http://www.bauma-china.com)

**World of Concrete 2015**

February, 3-6, 2015  
 Las Vegas Convention Center,  
 Las Vegas, Nevada, USA  
[www.worldofconcrete.com](http://www.worldofconcrete.com)

**Latin American Demolition Forum 2015**

1-2 October, 2015  
 Sheraton Spa & Resort,  
 Rio de Janeiro, Brazil  
[www.latindemoforum.org](http://www.latindemoforum.org)

**SAIE Mexico 2015**

February, 2015  
 Mexico City, Mexico  
[www.saiemexico.com.mx](http://www.saiemexico.com.mx)

**Intermat 2015**

April, 20-25, 2015  
 Paris - Nord Villepinte,  
 France  
[www.intermat.fr](http://www.intermat.fr)

**Construexpo 2015**

April, 24-27, 2015  
 Poliedro de Caracas, Caracas,  
 Venezuela  
[www.confex-us.com](http://www.confex-us.com)

**M&T Expo 2015**

June, 9-13, 2015  
 Imigrantes Exhibition Center  
 São Paulo, Brazil  
[www.intermat.fr](http://www.intermat.fr)

**Edifica 2015**

October, 21-24, 2015  
 Esâacio Riesco, Santiago, Chile  
[www.feriadelaconstruccion.cl](http://www.feriadelaconstruccion.cl)

**Tracbel Announced as Volvo Penta's Newest Dealer in Brazil**

In a bid to expand its parts and service network across the Americas, Volvo Penta has named Tracbel as its newest dealer for industrial and commercial engines in Brazil. One of Brazil's largest distributors of industrial equipment, Tracbel will provide customers with products, parts and service from its 25 branches covering approximately 70 percent of the country. Founded in 1967, Tracbel, has long been a trusted dealer of Volvo Construction Equipment (CE) in Brazil, and prides itself on providing high-quality parts and service support. The company has been recognized nine times as the best Volvo CE distributor in Latin America and for five consecutive years as best machine dealer and supplier by Exame Magazine Yearbook.

"Volvo Penta consistently provides value for customers, thanks to the attention to detail in the design and manufacture of their products," says Tracbel CEO Luiz Gustavo R. Magalhães Pereira. "We aspire to match this quality in the knowledge and skills of our service technicians—helping customers to get the most out of each engine throughout its operating life."

"Tracbel is a great fit for Volvo Penta," adds Ron Huibers, president, Volvo Penta of the Americas. "Tracbel's core values align well with Volvo's, while customers will benefit from the company's existing knowledge and experience of servicing Volvo engines. We are very pleased to have them on board."

**IROCK Launches New Website for Easier Use and Mobile Access**

IROCK Crushers has launched a new website, [www.irockcrushers.com](http://www.irockcrushers.com), with quick access to detailed product information to help customers make informed decisions about crushing and screening equipment. The mobile-friendly site also links customers to the latest technologies and industry news.

The site's visitors can easily sort product information by the type of crusher, screener, or application. Each product page features typical applications and detailed specifications including machine weight, engine type, processing capacities, and stockpiling heights. Large photos and videos of equipment in action are featured throughout the site, giving visitors the opportunity to not only read about features and benefits, but view them as well.

In addition to detailed product information and visuals, IROCK is using the new site to keep current and potential customers well informed on industry news and best practices. News stories and blog posts will be updated regularly with information to help increase profitability in industries such as aggregates, road building, mining, construction and demolition, recycling, landscaping, and mining.

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

**IronPlanet Sees Strong Demand in Early 2014**

IronPlanet®, an online marketplace for used heavy equipment, kicked off 2014 strong, selling \$26.8 million in used heavy equipment and trucks during a four-day global auction event held Jan. 28-31.

The four-day auction included equipment listed in the U.S., Canada, Mexico, and Europe. In total, 1,795 items were sold to over 1,000 buyers. Strong demand in the market was demonstrated by online bids placed from 78 different countries as well as from every U.S. state and all 10 Canadian provinces.

"We were very happy to see the IronPlanet sale scheduled at the start of the year because it allowed us to take advantage of strong demand and prices in advance of a lot of equipment hitting the market in February," says Ron Sopko, owner of Sopko Contracting in Pennsylvania. "The ability to sell from our location as well as IronPlanet's global reach gives us a better net return on the equipment we sell."

"Our global reach and early sale dates have proven attractive to sellers looking to take advantage of strong demand and prices early in the year," adds Greg Owens, IronPlanet Chairman and CEO. "We are planning several more large sales as sellers are increasingly looking to IronPlanet as a better way to manage their inventory as opposed to forcing their items into one quarterly event where supply can exceed demand."

**HTC Names Mickey Roberson Sales Representative in Northeast U.S.**

HTC America is proud to welcome Mickey Roberson to the sales department covering the northeast U.S. He is based in Harrisburg, Pa., and will cover states from Maine to Maryland. Roberson's strong knowledge of the commercial and construction industries will help maintain and develop new business within his territory. He has more than 15 years of sales experience working with companies such as W.W. Grainger Industrial Supplies, RSC Equipment Rental, and Graybar Electric.



"We are excited to add Mickey to our sales team, as he brings with him many years of sales experience and a terrific attitude and work ethic that will help HTC grow our business in the northeast", said Mike Felkley, sales director for HTC America.

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

**Metso Opens Service Centers in Peru and Mexico**

Metso continues to expand its industry-leading global service center network with the opening of new mining service centers in Peru and Mexico. Additional new centers are being built in the United States and Canada.

The new Arequipa, Peru, service center strengthens Metso's already solid position in South America, and provides access and direct contact with the region's biggest mining companies. Equipped with leading-edge technology, the center provides local engineering and production, equipment assembly and overhaul, parts recovery, industrial equipment repair and maintenance, and specialist technical support. The center will also function as an essential South American distribution center for Metso's services and products.

"The estimated investment in mining projects through 2018 will be of more than US\$20 billion," says Aldo Cermenati, Metso's senior vice president for mining and construction in the Pacific Rim market area. "The development of the Copper Belt in southern Peru, with the new operations—Antapaccay, Las Bambas, Constancia, Cerro Verde II, Quellaveco, Toromocho, among others—will boost the demand for Metso's mining services in the region.

Opened in February, Metso's new Cananea service center in Northwestern Mexico, will cover all the mines in the region including Baja California state and Peñoles' Milpillas copper mine further to the north. The service center will function as a repair and assembly center and provide specialist technical support. Service offerings in Mexico will also include everything from normal repair jobs and equipment installations to major service contracts.

"We were on site with 180 technicians to help Grupo México restart operations at Buenavista del Cobre in 2010," explains Leif Lindholm, Metso's vice president for mining and construction in the Mexico and Central America market area. "Following the delivery of new equipment for the Buenavista plant, we decided to implement our service center model in order to offer our best service for Grupo México. We are fully integrated with their workers and aim to grow together."





# LAVINA

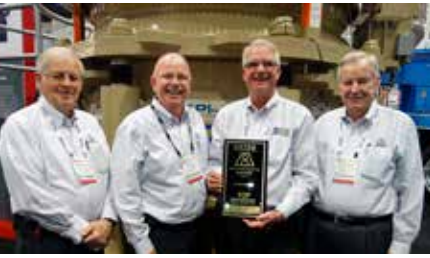
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**From left to right: Norm Smith, vice chairman of the board for Astec Industries; Joe Vig, Group president of KPI-JCI and Astec Mobile Screens; Jeff Elliott, president of Johnson Crushers International; and Dr. J. Don Brock, founder and chairman of the board for Astec Industries.**

**Johnson Crushers International Recognized as 'Best of the Best' with Astec Top Honor**

Johnson Crushers International, Inc. (KPI-JCI and Astec Mobile Screens) took home the prestigious Astec Industries Chairman's Award in recognition of its outstanding performance in 2014. The Astec Industries Chairman's Award was established in February 2014 to annually recognize the top-performing individual subsidiary of Astec Industries. The award was given March 3 during CONEXPO-CON/AGG in Las Vegas, Nev.

"It was an honor to receive the award on behalf of JCI associates," said Jeff Elliott, president of Johnson Crushers International, one of three manufacturing facilities that make up KPI-JCI and Astec Mobile Screens. "It couldn't have been done without the collective efforts of every associate in our company, and the contributions of the sales and marketing organizations from KPI-JCI and Astec Mobile Screens and Astec Aggregate and Mining Group."

Ben Brock, CEO and president of Astec Industries, said Johnson Crushers International separated itself as "the best of the best" for 2014.

Elliott credits the strengthening of the manufacturing facility's safety culture as a key element to its success. The three manufacturing facilities that make up KPI-JCI and Astec Mobile Screens also recently achieved an all-time sales record since the company's inception in 1928.

"We look forward to a successful 2014," Elliott said.

**LaCroix Hired as Parts Sales Representative at KPI-JCI and Astec Mobile Screens**

KPI-JCI and Astec Mobile Screens has hired Kyle LaCroix as a domestic outside parts sales representative. In his new position, LaCroix will support authorized dealers in his territory with parts sales. Prior to working for KPI-JCI and Astec Mobile Screens, LaCroix worked in territory sales at Foster Babcock and Associates in Kansas City, Mo.

Ryan Newman, director of parts sales for KPI-JCI and Astec Mobile Screens, says

the addition of another domestic outside parts sales representative will enhance manufacturer support for its dealers and customers.

"Kyle is the exact person we envisioned when we decided to add another parts sales position," Newman say. "In his former job, Kyle worked closely with setting up and working tradeshows, performing direct selling, making sales calls with dealers, and performing training. This experience will directly translate to his job function here at KPI-JCI and Astec Mobile Screens, allowing us to make more dealer visits, perform more training, and attend more trade shows with our dealers."



**Terex Donates CONEXPO-CON/AGG Artwork to AEM**

Millions of Americans work hard every day to build the equipment, roads, bridges, public transport systems, and port facilities that fuel America's powerful economic engine. During the five days of CONEXPO-CON/AGG 2014 in Las Vegas, Nev., more than 1,300 of those same people visited the Terex exhibit to contribute to the manufacturer's I Make America artwork. Terex team members and show attendees alike dipped their fingers into paint and left their mark, as well as their signature, on a canvas that included an outline of the United States, famous infrastructure landmarks, the equipment that helps to build America's infrastructure and the I Make America logo. After the show, FingerSmear™ Artist Kelly Sullivan put the finishing touches to the masterpiece, and Terex donated it to Association of Equipment Manufacturers (AEM) representatives.

"Terex is among the top supporters of AEM's I Make America campaign, and for many years we have championed the critical need for more investment in America's infrastructure," says Ron DeFeo, Chairman and CEO of Terex Corporation. "What better metaphor to show how vital everyone's role is in building America's infrastructure than to create a work of art that includes the imprint of more than a thousand participants. We are proud to donate this to AEM and the I Make America campaign."

AEM President Dennis Slater called the painting a creative way to help educate the industry and the public about the mission of I Make America. "Our goal through I Make America is to engage AEM member companies, their employees, and individuals who



care about the manufacturing industry and the campaign's positive impact on jobs and the economy in the U.S.," Slater said. "We greatly appreciate Terex for going above and beyond to promote and support that mission." AEM intends to use the donated artwork to drive interest and encourage others to support pro-manufacturing causes. The painting will be on display at many venues in the weeks and months to come. Both AEM and Terex are currently finalizing a plan to enable as many people as possible to see the artwork, helping carry its message to a broad audience of industry influencers.

**Newman Promoted to Parts Sales Director for KPI-JCI and Astec Mobile Screens**

KPI-JCI and Astec Mobile Screens has promoted Ryan Newman to director of parts sales for the company's three manufacturing facilities. Newman will plan and implement sales, marketing and product development programs for parts in new and existing markets. He is also responsible for establishing parts policies and pricing, as well as managing training. Newman, who will also continue to serve as parts manager for the company's Yankton, S.D., facility, replaces Unajean Peaks, who retired April 30 after 40 years in the industry. Newman said he is honored to step in as Peaks' successor, as she was "instrumental in growing and mapping a path to future success" for KPI-JCI and Astec Mobile Screens' OEM and PDQ parts lines.

"This will make my transition very easy and undoubtedly allow us to continue on where she left off," Newman said. "I look forward to assisting in the growth of sales and level of parts sales support at all three of our manufacturing facilities via our top-notch dealer network."

Mike Johnson, vice president of sales and marketing for KPI-JCI and Astec Mobile Screens, said Newman's experience and passion made him the top candidate for the position.

"Ryan's contribution to the company the last 14 years made him an ideal candidate for the director of parts sales position," Johnson said. "Ryan has a passion for parts sales and understands the importance of the dealer and manufacturer relationship, as well as the need for superior parts support for our customer base."

**Jeff Jones to Retire from Cummins, Inc.**

Cummins, Inc., has announced that Jeff Jones, Vice President - North American Engine Business and Marketing Commu-

nications, will retire from the company on June 30, 2014.

"While we are excited for Jeff as he heads toward a well-deserved retirement, the company will miss his leadership," says Cummins Vice President Rich Freeland. "Jeff has had a tremendous effect throughout his career on countless Cummins customers and employees, and the North American truck industry as a whole."

Jones joined Cummins in 1977 as a regional service manager, after beginning his career as an application engineer at General Motors. He has worked in customer-facing roles, including service, field sales and support, OEM account management, marketing communications, and national accounts.

"I am extremely grateful to have spent 37 years with this great company, and am honored to have helped Cummins achieve its leading position in North America," Jones says. "More than anything else, I will miss working with my industry colleagues and customers, as well as the many talented employees at Cummins."

Succeeding Jones in the leadership of the North American Engine Business will be Amy Boerger, who will be responsible for national accounts, field sales and support and the North American On- and Off-Highway OEM Business.

Boerger joined Cummins in 1984 after graduating from Valparaiso University with a degree in mechanical engineering. During her 30-year career, she has held roles in automotive marketing, field sales and service, OEM account management, and Cummins Emission Solutions after-market business. Boerger most recently served as General Manager - Field Sales and Support.

In addition, Lori Thompson will assume a new position as Vice President - Engine Business Marketing, and will have responsibility for global marketing, marketing communications and emerging-growth opportunities. Formerly Vice President - Truck and Bus Engine Business, Thompson graduated from Carleton College with an undergraduate degree in economics. She also holds a Master's degree in business finance/marketing from the Wharton School of the University of Pennsylvania.

Thompson joined Cummins in 1979 as a planning specialist, and has held roles in marketing, logistics, plant management, quality, parts and Cummins ReCon® business.



**Jeff Jones.**



**Amy Boerger.**



**Lori Thompson.**

shows

# Brazil's Seventh FELOC Rental Show Set for July



ALEC, Brazil's vibrant association for rental firms, has announced that it has sold more than 60 percent of the exhibit spaces for the seventh edition of its FELOC Rental Show, which will take place at Esperia Club in downtown Sao Paulo July 23-24. In response to requests from exhibitors of 2013, a new area will be incorporated for display of larger work platform equipment.

Companies that have already confirmed their presence in FELOC RENTAL 2014 include Brudden, Husqvarna, Mecan, Fortequip, Vibromak, Emit, Towers, Terex, Haulotte, Stihl, SISLOC, Hitachi, CSM, Daiforce, Home Builder, SkyJack, Clipper, IPAF, JLG, and Platafort - Bravi.

Concurrent with the show, a special conference for rental companies—2014 FELOC RENTAL PROPERTIES Brazil—will take place. Lectures on various topics will be held such as economics, administrative management, legal issues, accounting, and security among others.

"The goal of organizing and promoting 2014 FELOC RENTAL PROPERTIES Brazil is to generate profit for all members of ALEC," explains the association's newly elected President, engineer Fernando Augusto L. de Moraes Forjaz. He notes that 2014 is already a year of big events for the country. In addition to the annual Carnival, the 30-day World Cup matches will affect the country before and after. And in October, the country's scheduled elections will shake up the market, and interfere with the construction supply chain.

"Doing a quick calculation and being optimistic we lose at least 60 working days this year," de Moraes Forjaz says.

Despite this hectic year, ALEC, which is made up of Brazil's major equipment manufacturers and rental firms, felt it was important to arrange these two events. Construction companies will accelerate their works and need to rent equipment.

"The rental equipment must be supplied in quantity and technology," de Moraes Forjaz says.

It should be noted that the Brazilian rental market is somewhat different from many other markets around the globe. Many Brazilian rental companies also offer specialized contracting service along with equipment. They offer controlled demolition services with remote controlled demolition robots, and usually supply an operator. Similar arrangements are provided with concrete sawing and drilling, and concrete floor and polishing services.

[www.felocrental.com.br](http://www.felocrental.com.br)



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To effectively control multiple dust-generating sites, Veit built a skid and mounted the DustBoss with a diesel-powered generator.

## Dusts Suppression a Key Element of Indianapolis Airport Demolition

One of the largest specialty contracting and waste management firms in the Upper Midwest has completed the takedown and removal of the Indianapolis International Airport's old passenger terminal, with the help of the high-performance DustBoss® DB-60 dust suppression system from Dust Control Technology. The atomized misting unit helped the Veit Companies of Rogers, Minn., comply with the Airport Authority's mandate that no visible emissions were to leave the work zone of this "surgical" demolition project, while avoiding the expense and potential safety risk from having employees manually spray debris with fire hoses.

Veit began work in May of 2013, selectively removing a complex that included four separate concourses and other structures built between 1954 and 1987 on a 200-acre site. Exterior ramps and roadways, an old fuel farm, and various support structures were also part of the demolition. Including the nearly 800,000 square-foot terminal, the project covered more than 1 million square feet. Structures were brought down in sections, using large excavators such as the Cat 374 and Cat 349, equipped with a variety of hydraulic thumbs, breakers, shears or other attachments.



### Dust Up, Dust Down

Like any demolition, the project generated dust as the structures were brought down.

"The teardown and processing of concrete and brick materials always release dust," says Veit's Demolition General Superintendent, Ryan Olson. "The same goes for light materials such as sheetrock and insulation." Veit crushes and recycles all concrete on-site, with other materials separated to minimize landfill space and increase recycle rates. One of the company's core values is demonstrating a high level of environmental stewardship and respect for neighboring residents and businesses. On this project, Olson and his staff knew that traditional manual spraying methods would not be sufficient, and the company researched a number of dust suppression options.

"We've used different suppression systems from different manufacturers," he explains. "We've rented equipment from Dust Control Technology on several of those occasions, and found that it out-performed anything else we've tried."

Convinced of the effectiveness of the design, Veit decided to purchase a DB-60, one of the larger models from DCT, in order to have dust management readily available on this job and future projects.

"The greatest drawback to traditional manual spraying is droplet size," comments DCT CEO Edwin Peterson. "Manual spraying can have some benefit on ground-level dust, but water droplets produced from hoses are simply far too large to produce any meaningful benefit in controlling airborne dust particles. They tend to saturate the targeted debris, often resulting in standing

water that can create additional hazards or damage sensitive materials. Peterson adds that the range of these techniques also tends to be quite limited, "frequently requiring significant manpower and time to handle the hoses."

In order to effectively manage fugitive particles from multiple dust-generating sites, Veit built a skid and mounted the DustBoss with a diesel-powered generator and fire hydrant as a water source.

"The skid allowed us to quickly relocate the generator and dust suppressor with a front loader whenever we needed to," Olson says.

Olson reports far better control of dust-generating activities than with other methods, as well as significant labor savings by eliminating manual suppression efforts. Further, the new equipment improves workplace safety by allowing employees to position the atomized misting unit close to danger zones, where the unattended machine can operate without risk of personal injury from heavy equipment or falling debris.

All of Veit's operations are guided by detailed safety programs, including pre-project and daily pre-task planning to identify potential hazards on the jobsite.

"We didn't want to invest the manual labor to spray the debris with fire hoses," Olson says. "And, we like to get the water as close to the demolition or crushing activity as we can. We couldn't put personnel in those locations safely, but we don't have to worry about potential injuries with the DustBoss, since it runs unattended."

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

Left: Veit estimates that the DB-60 could pay for itself in manpower savings in as little as a year.

## Atlas Copco Breakers Go Underwater to Demolish Ohio Dams

The final stages of returning the once-polluted Cuyahoga River in Ohio to its pre-industrial splendor included the removal of the Sheraton Mill Dam and the LeFever Dam, which once provided hydroelectric power for thriving local industries. RiverReach Construction, specialists in environmental stream and wetland restoration projects, performed the demolition task quickly and efficiently using Atlas Copco hydraulic breakers equipped with underwater kits.

Columbus Equipment Company, an authorized Atlas Copco distributor, equipped RiverReach with a heavy-duty Atlas Copco HB 3100, and a compact Atlas Copco SB 552. An Atlas Copco XAS 185 compressor supplied a flow of compressed air to prevent water entering the percussion mechanisms of the breakers. Demolition of the dams was directed by Greg Guello, a manager at RiverReach. The 40 ft (12m) long, 10 ft (3m) high Sheraton Mill Dam had to be approached from upstream and Guello's solution was to set a mini-excavator with the SB 552 breaker attached on a modular barge, then float it into place just behind the dam.

Operator Shannon Swaino began by using the SB 552 to open up "windows" to let water flow downstream and allow the water level behind the dam to gradually sink. Next, Swaino entered the river with a 36-ton excavator and the powerful HB 3100. The dam came down in a day. "It was almost too easy with that big breaker," said Swaino.

Next to be tackled was LeFever Dam—90 ft (27.4m) across and nearly 13 ft (4m) high, with a significantly larger volume of water behind it. RiverReach was able to construct an access to the river at the start, allowing Swaino could approach it from the downstream side. Once the demolition phase was complete, RiverReach cleaned up debris that had gathered over the years, as well as remnants of concrete and rebar. They then created protective concrete support walls for the old powerhouses, which will guard the valued historic structures from fluctuations in river flow, and the debris that crashes by during high water events.



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**Positioning itself at the forefront of development of intelligent and sustainable demolition solutions, Desmontec strives to remain among Brazil's largest demolition companies.**

By Luiz Carlos Beraldo  
Photos by Desmontec



**Above disassembling and crushing at Caraguatuba, Brazil. Excavating and crushing for Spani Wholesaler. Volume: 250,000 m3.**

With more than 40 years of activity, Desmontec Demolition and Earthmoving Company is one of the largest and most traditional demolition companies in Brazil. A longtime specialist in medium and large demolition contracts, the company is currently ranked as one of the country's leaders in sustainable demolition.

"Although we have a history of taking on and solving challenging tasks in larger projects, we have also carried out many smaller demolition jobs," says Hewerton Bartoli, director of Desmontec. "Indeed, the market for small demolition projects has grown tremendously in Brazil, bringing with it more competition from many new demolition contractors."

Bartoli is quick to add that when it comes to medium and large projects, "the market prefers to use the most experienced companies such as Desmontec."

**The company and its clients**

Desmontec's client portfolio includes some of Brazil's largest companies in their respective sectors— Andrade Gutierrez, Camargo Correia, Electrolux, General Electric, Saint Gobain, Usiminas, and Valle e Votorantin, to name a few. And while Desmontec primarily serves the industrial, commercial, and general construction sectors, some of the company's customers are also leaders in the country's mining sector.

"We operate throughout the country," Bartoli says, "but as we are in the state of Sao Paulo and we have tradition in the greater São Paulo area, most of our work ends up happening in this region. And why not—the state of São Paulo accounts for a third of Brazilian GDP."

The company's most common demolition missions include chimneys, buildings of various sizes, football stadiums, reinforced concrete structures, kilns and refractories in blast furnaces, industrial buildings, bridges, viaducts, trenches, galleries, and storage silos. Desmontec also offers services in structural implosion, disassembly of steel and precast structures, removal of rocks using explosives or with water expansion methods, underwater wrecking and disassembling, and soil and rock excavation. While Desmontec boasts 300 permanent employees working in the states of São Paulo, Rio de Janeiro, and Minas Gerais, the company frequently hires temporary workers locally to augment the in-house staff in order to keep pace with demand and ensure reliable service.

Desmontec has more than 100 machines and equipment spanning a full range of light to heavy equipment. The machinery inventory includes smaller machines such as mini-excavators and skid steer loaders, both with and without breakers and other types of tools. The heaviest machinery on hand includes wheel loaders and excavators from 12 to 50 tons equipped with heavy-duty or long-reach demolition booms. The demolition tools include hydraulic breakers, crushers, pulverizers, shears, sorting grabs, and other types of attachments such as crushing buckets. Desmontec also possesses mobile crushers for recycling of demolition waste along with a large arsenal of service and support vehicles.

**A tradition of innovation**

Despite the tradition and experience Desmontec possesses in the market, the company prefers not to limit its activity to the demolition sector. Instead, Desmontec has a bold vision of how to develop its own activity from working not only with destruction

# Brazilia Goes B

but instead transform the demolition waste to useful material. Bartoli is also open to widening the services even further and his innovative approach stands out in areas such as waste treatment. Waste treatment is a serious problem in Brazil, where more recent studies showed loss rates of as much as 90 percent for different types of materials. According to Bartoli, one of Desmontec's key differentiators is to offer, "a clever work transformation, which includes care in all aspects, before, during, and after the job. Our strategy to mitigate direct environmental impacts includes the project's relationship with the neighborhood, as well as waste management in accordance with the most demanding environmental standards."

Besides having its own solutions to treat worksite residues such as concrete, bricks, Desmontec has specialized processes and procedures for recycling and/or properly disposing other types of waste such as metals, plastics, woods, and hazardous waste. The company is one of the first in its field to become a member of the Green Building Council in Brazil, and carry out sustainable building demolitions with LEED certification ranging from green to platinum levels.

"We are investing in sustainability because we believe this is the future in Brazil. And, it's something that is already happening around the world," says Bartoli

Perhaps the best illustration of how Desmontec applies innovation across its many specialized solutions is silent demolition. For these projects, the company uses light and compact equipment equipped damped breakers or hydraulic crushers. Remote-controlled equipment also helps the company carry out these types of

**Demolition of the Palestra Italia, the old stadium of the football team Palmeiras. The tasks were demolition, implosion, recycling, and removal.**



# an Desmontec eyond Demolition

assignments quickly and safely. In addition, Desmontec's controlled demolition section uses often diamond wire saws and wall saw systems to cut down concrete structures silent and safely. Desmontec also has more than 30 years of experience of imploding various sizes of buildings and structures across the country. Bartoli believes that Brazil has a vast potential for development of the professional demolition industry. But, he regrets the lack of a professional trade association that would bring companies in the sector together.

"The Brazilian industry is not yet mature enough to be able to organize itself into these kinds of entities," he says.

Likewise, there are no real trade shows that highlight professional demolition equipment. To keep up with industry trends, Bartoli goes to Europe and United States, where "the demolition sector already has 40 years of tradition. A convention or an exhibition for the demolition industry there can attract more than 800 contractors. In Brazil we're decades behind, by comparison."

## Good prospects

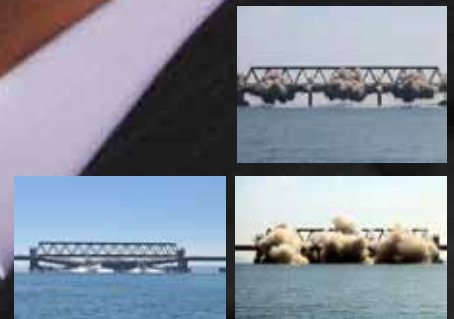
Though a "glass half-empty" perspective may consider this "immaturity" to be a negative, Bartoli prefers a more positive "half-full" view of the current situation—proof of the immense potential for growth in this sector of the country.

"In the last two or three years, we have invested more equipment than we since the company was founded 40 years ago—the fastest growth in recent years," he says.

Bartoli also believes that this positive trend will continue for years to come, not only for Desmontec but also for the entire Brazilian demolition industry.

"Despite the infrastructure bottlenecks and the country's complicated political order, Brazil has enormous obstacles it must first overcome in order to expand this area of demolition," he says. Although the economy's current growth rate is rather low, despite events such as the FIFA World Cup this year and the 2016 Olympics, the outlook for the demolition sector demolition is expected to remain positive until 2020. From there, Bartoli believes the economy will have a lot of room to grow and accelerate.

"We have a complex economy with large investments in progress, and we still live with housing shortage and infrastructure issues across the entire country that still need to be solved," he asserts. "This will keep us busy and growing for a long time."



Bridge Implosion in Pongai, Brazil.  
Client: Singulare Group.



## Não é só demolição, é transformação

Posicionar-se na vanguarda por meio do desenvolvimento de soluções inteligentes e sustentáveis é a estratégia da Desmontec para manter-se entre os maiores do setor de demolição no Brasil.

Texto: Luiz Carlos Beraldo  
Fotos: Desmontec

Com mais de 40 anos de atividade, a Desmontec Demolições e Terraplanagem é uma das maiores e mais tradicionais empresas de demolição do Brasil. Ao longo de sua trajetória a empresa especializou-se em empreitadas de médio e grande portes e atualmente posiciona-se na vanguarda em demolição sustentável devido à sua experiência e especialização em demolições sustentáveis. "Temos toda uma história de grandes cases e tarefas desafiadoras de médio e grande porte, apesar de também já termos atuado muito em demolições menores. E com isso nos especializamos em demolições maiores ou mais complexas", afirma Hewerton Bartoli, diretor da Desmontec. "Nas demolições de pequeno porte, que tem

**Left and pictures on previous spread: Sustainable demolition and recycling of buildings (LEED). Area: 100,000 m2.**

crescido muito, a concorrência também cresceu bastante, pulverizando o mercado com novos empreendedores. Nas de médio e grande porte, a preferência do mercado continua sendo pelas empresas mais experientes", avalia.

### Clientes

Em sua carteira e portfólio de clientes estão algumas das maiores empresas do país nas áreas em que atuam, como Andrade Gutierrez, Camargo Correia, Electrolux, General Electric, Saint Gobain, Usiminas, Valle e Votorantin - entre dezenas de outras. "Atuamos em todo o país, mas como estamos no estado de São Paulo e temos tradição na Grande São Paulo e arredores, a maior parte de nossas obras acaba acontecendo nesta região. Afinal, o estado de São Paulo responde por um terço do PIB brasileiro", diz. Apesar de atender principalmente empresas industriais, comerciais e de construção civil, atua também pra alguns clientes no setor de mineração.

Com 300 funcionários permanentes distribuídos nos estados de São Paulo, Rio de Janeiro e Minas Gerais, a empresa também contrata temporários quando há demanda em outras regiões, onde sua equipe não possa assumir. "De acordo com a tarefa, em outras localidades podemos enviar equipes próprias e também contratar pessoas localmente", explica.

Conta com mais de 100 máquinas e equipamentos entre leves e pesados. Desde os "pequenos" miniescavadeiras e minicarregadeiras (com e sem rompedor) até os mais pesados como pás carregadeiras, escavadeiras de 12 a 50 toneladas, escavadeiras com esmagadores, lanças, rompedores, tesouras e outros implementos. Possui também caçamba britadora e britador móvel, além de paiol móvel e veículos de apoio.

### Inovação

E apesar da tradição e experiência no mercado a empresa prefere não se acomodar no mercado. Ao contrário, possui uma visão arrojada de sua própria atividade, deixando isso claro ao tratar demolição como transformação e não apenas destruição. Sua postura inovadora destaca-se em aspectos como o tratamento de resíduos, um problema grave no Brasil, onde estudos mais recentes apontaram índices de perda de 20 a 90% para diferentes tipos de materiais.

Além de ter soluções próprias para tratamento de alguns resíduos nos locais das obras - especialmente concreto, argamassa - também faz a classificação e encaminhamento para reciclagem ou destinação adequada dos demais resíduos como metais, plásticos, madeiras e contaminantes.

Um de seus principais diferenciais é justamente a proposta de oferecer "um trabalho inteligente de transformação, que inclui o cuidado em todos os aspectos, antes, durante e depois, desde o impacto ambiental direto até o relacionamento com a vizinhança e a gestão dos resíduos de acordo com as normas ambientais mais exigentes", segundo Hewerton. A empresa é uma das primeiras em sua atividade, a se tornar membro do Green Building Council, no Brasil e a realizar demolições sustentáveis, em edificações com certificação LEED.

Entre as soluções de demolição, as mais comuns

são a demolição de chaminés, edificações de diversos portes, estádios de futebol, estruturas de concreto armado, guza e refratários em altos fornos, indústrias, prédios, pontes, viadutos, trincheiras, galerias, e silos de armazenagem. Também faz desmontagem de estruturas metálicas e pré-moldadas, desmonte de rochas com uso de explosivos ou a frio, desmonte de rochas com expansão de água, desmonte subaquático, escavação em solo e rocha (material de 1ª, 2ª e 3ª categorias) e implosão de estruturas.

### Especialização

As soluções especializadas incluem a Demolição Silenciosa, com equipamentos leves e compactos operados por controle remoto ou operadores; a Demolição Controlada com uso de fios e serras diamantadas (sistemas wire saw e wall saw); e a Demolição Sustentável em empreendimentos LEED de qualquer nível de certificação, do green ao platinum. A Desmontec também possui experiência de mais de 30 anos em demolições por Implosão, com histórico de sucesso em trabalhos de diferentes proporções. "Estamos apostando em sustentabilidade porque acreditamos que este é o futuro, no Brasil, como já acontece em todo o mundo", afirma Bartoli. Para ele, o Brasil tem um vasto potencial no que diz respeito ao desenvolvimento da demolição profissional, mas lamenta a falta de entidade que congregue empresas do setor. "O setor ainda não está maduro o suficiente para poder se organizar em entidades que congreguem as empresas que nele atuam". Para acompanhar as tendências do setor, ele vai à Europa e Estados Unidos. "Nos Estados Unidos, a entidade que congrega o setor já tem 40 anos de tradição e estamos longe de atingir o estágio em que eles estão. Lá, uma convenção da entidade consegue reunir 300 demolidores", exemplifica. "No Brasil estamos com atraso de décadas, se comparados a eles".

### Boas perspectivas

Se por um lado isso não é tão bom, por outro essa "imaturidade" do mercado é a comprovação do imenso potencial para crescimento do setor, no país. "Nos últimos dois, três anos, temos comprado mais equipamentos do que comprávamos historicamente", afirma, confirmando o crescimento mais intenso verificado nos últimos anos. Ele acredita que essa tendência continuará positiva para os próximos anos. "Apesar dos gargalos de infraestrutura e de ordem política, o Brasil tem 'um mundo' para crescer nessa área de demolição", afirma. "Mesmo que a economia apresente taxas de crescimento baixas, como agora, a perspectiva para o setor de demolição deverá se manter positiva até 2020, independente de eventos como a Copa do Mundo de Futebol deste ano ou as Olimpíadas de 2016. E de 2020 a 2030 também teremos um campo muito vasto para crescer. Temos uma economia complexa com grandes investimentos em curso e ainda convivemos com déficit habitacional e de infraestrutura para ser resolvido em todo o país. Isso vai nos manter ocupados e crescendo por muito tempo", conclui.



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# Brokk Squares Off Against Man on Showdown of the Unbeatables

In early April, a Brokk 100 battled the World's Strongest Man, Brian Shaw, on prime time television in an episode of the National Geographic Channel's series, *Showdown of the Unbeatables*. While readers can watch the battle unfold online, representatives of Brokk's U.S. subsidiary, Brokk, Inc., recently shared some background about the experience.

Last year, Brokk, Inc., was approached by a production company under contract with National Geographic Channel to produce a series of episodes featuring interesting technology pitted against each other in provocative ways. Peter Bigwood, Brokk Inc's Vice President Sales and Marketing, explains that the basic idea behind the series is to showcase leading-edge technology in interesting ways.

## Us vs them

"It's clear that the program's producers don't want to make anyone look bad," he says. "Instead, the goal is raise awareness of and interest in various types of technology by showing it in a different, 'us vs. them' reality-TV type of format." Each hour-long episode presents three "showdowns" between various types of technologies. The 15-minute segments give each participating company the opportunity to provide some background about the technology and the features of their product. Then the final five minutes are taken up with the challenge, where they have to compete to see whose product is truly unbeatable. There is no cost for the companies to participate. Brokk, Inc., received an already-produced episode of the to give them an idea of what it was all about. In this case, a manufacturer of a thermitic stick (used by SWAT teams to burn quickly through steel hinged doors, for example) was set up against a company that manufactured special fabric that could withstand extremely high temperatures.

"It's all in good fun, and they try to find unlikely match-ups," Bigwood says. "So, for example, they would never take a Brokk machine and put it up against a competitor's demolition robot."

Part of the fun was that once Brokk agreed to participate, they had to sign a very strong confidentiality agreement, as the show would air several months after filming would take place. Still, only a small number of people within Brokk, Inc., were aware of the result, and they were all sworn to secrecy.

## Crush Away!

Background filming took place at Brokk, Inc.'s Monroe, Wash., headquarters just a few days before the actual showdown Los Angeles. "We were very impressed with the way the film crew operated," Bigwood says. "They had us use the Brokk G50 grapple as our weapon of choice for the competition. We thought that perhaps we would be set up against a manufacturer of super-strong concrete or something like that, but with hindsight, I think they knew what they were doing in terms of compelling television."

Brokk Inc.'s Field Sales Application Expert Augie Scalici was selected to operate the Brokk 100, based on his many years of experience working with the demolition machines. He admits to having reservations when the film crew mounted a GoPro camera inside the washing machine he was being asked to crush.

"I was hesitant since I didn't want to destroy their camera," Scalici says. "They laughed and said, 'it's only worth \$200—crush away!'" There were other funny moments as well, like when the film crew tried to get Scalici and Brokk, Inc., president Lars Lindgren to say things like "we're going to kick their ass" or "we're going to dominate them" on camera. "Lars wanted no part of that,"



**Brokk Inc's Field Sales Application Expert Augie Scalici (right) together with World's Strongest Man Brian Shaw.**

Bigwood says with a laugh. "So all they got was a lukewarm 'absolutely' when they were asked if they thought they would win the competition."

## Up against World's Strongest Man

A few days later, Scalici and Lindgren were flown to Los Angeles to film the actual challenge. Brokk's Regional Sales Manager for that area, Jon Graham, went along for logistical and moral support. It was only then that they learned what—rather, who—they were up against: "the world's strongest man," Brian Shaw in a competition billed as "man against machine."

"We had no idea that our robot would be going up against a man," says Bigwood. "The challenges didn't exactly play to Brokk's strengths, but that's show biz. And, Brian Shaw turned out to be a very nice guy."

As is typical with television productions, only a small amount of footage actually makes it on the air. One of Scalici's quotes that didn't make the final cut included his response to coming up short in the competition. "I'm disappointed in myself, but not in my machine," he said, a quote that summed up the battle rather nicely and a proof of loyalty to his company and products.

Nevertheless, Bigwood says Brokk, Inc., was flattered to be asked to participate in *Showdown of the Unbeatables*, even if he remains unsure how they were "discovered." But, he says, "they were clearly very impressed with the Brokk machines and loved all the tricks that Augie could do with the Brokk 100." In addition to the unexpected publicity, Brokk, Inc., gained some background footage taken at the company's factory Skelleftea in Sweden that the producers decided not to use. "So now we have some very current footage of the factory," Lindgren says. "I suspect we'll turn that into a video that we can use for our own purposes in the future."

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



**Brokk on the set in Los Angeles waiting anxiously to perform together with the world's strongest man.**

# Chicago Pneumatic Announces New Light Towers

Chicago Pneumatic has launched a new range of light towers to will suit a variety of applications across the construction, mining, and oil and gas industries, as well as public sector lighting and entertainment. These new models will build upon the success of the existing CPLT M10 light tower that has already proved a highly reliable, easy-to-use, and maneuverable portable lighting solution for the construction industry.

The CPLT M12 will feature energy-efficient metal halide lamp technology and generate 440,000 lumens of lighting power. Available in both 50 Hz and 60 Hz versions, this new model will also feature an innovative canopy design with a "pop-up" top for improved serviceability, with its new Kubota D1105 engine ensuring up to 60-70 hours of autonomous use at 5.4 hp (4kW).

Alongside the CPLT M12, the CPLT H5 light tower, will feature a heavy duty canopy to ensure superior serviceability. Spillage free, with a hydraulic vertical mast and fully compliant with EU regulations, the CPLT H5 will be powered by a Kubota engine and feature four 1000W metal halide lamps. The light tower also offers long periods of autonomous operation, and is equipped with a unique digital control panel, called LC 1003. This was specially developed for light towers with lamp sequencing, timer, and fuel-saving features the increase the CPLT H5's efficiency and reliability.

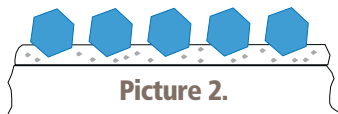
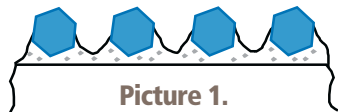
In order to ensure enhanced control and protection, both of Chicago Pneumatic's light towers have been equipped with a metallic enclosure with wide service doors and electrical cubicle, a vertically extendable mast that also rotates 360 degrees, stabilization legs, and on-road undercarriage.



# Lastest DEVELOPMENT

# Brazed wire

The South Korean diamond wire manufacturer Widecut is introducing innovative brazed wire, which the company believes will be very popular and successful in the diamond wire market.



Electroplated wire



Sintered wire.



But what is a brazed wire? Current diamond wire types Sintered and Electroplated and now joined by Brazed. Widecut explains the procedure for the brazed wires:

### Brazed, takes out more of the wire

Brazed beads are made by sticking diamonds on a steel body with mixture of chemical paste and heat treated in a furnace. There are three advantages why brazed wire became one of the most demanding diamond wire types. First, sticking diamonds on a steel body by using the Paste gives strong hold of the diamonds (see picture 1). Paste seems to wrap the diamonds upto half way. When there is strong hold of the diamonds, diamonds can work longer and thus, operators can use the wire for longer time. Second, controlling distance between the diamonds is possible. Thus, Widecut can create a 'chip pocket' or a path or gap between the diamonds, which makes the exiting of sludge much easier. Also, 'chip pocket' makes a good path for easy water flow, which enhances the wire performance. Third, by using paste, a double layer of the diamonds is possible. This enables control of the diamond layer, which links to lifetime of the wire. Therefore, brazed wire will be a popular tool because it will give fast speed and good and constant life and incorporates the advantages of sintered and electroplated wires.



Brazed wire.

### Electroplated wire

Electroplated is made by using electricity to stick the diamonds around the steel body of the beads. Thus, it has single diamond layer and all diamonds are exposed on the surface of the bead which offers fast speed from the beginning of the cutting job. However, because an even electroplated layer is holding the diamonds, holding of diamond maybe weaker than brazed beads (see picture 2 for a better understanding). Also, the electroplating method cannot control the distance between the diamonds, which is difficult to create a "Chip Pocket".

### Sintered wire

Sintered bead is a mixture of industrial powder such as Cobalt, Tungsten and diamonds, which are made as beads, either cold or hot pressed. Its main characteristic is that Sintered bead has a multi-diamond layer. Its biggest advantage is that Widecut can adjust/design the wire, such as the bond level, diamond grade and diamond layer thickness, to match the actual cutting site. Thus, Widecut has had great success with their sintered wire and has received a very good reputation for it. Sintered wire is mostly used in general cutting jobs. But when it comes to steel cutting job, it was not suitable to cut 100% steel because cutting steel requires diamond exposure like electroplated or brazed wire.

### Brazed wire development

For the past several years, Widecut offered sintered and electroplated wires. However, there are increasing numbers of projects that require the cutting of steel structures, such as nuclear power plant dismantle jobs, mainly in Germany, UK, France, and Japan. Therefore, more and more customers are asking for professional diamond wire for special steel cutting applications. In the past, electroplated was also used, but in the case of nuclear power plant

**Brazed wire is very suitable for cutting in nuclear plants and cutting oil pipes. Picture to the left is showing cutting in a nuclear plant (Picture provided by BD Nuclear Ltd.).**

dismantling, it requires faster cutting because the operator can only stay in the plant for a limited time. Also the jobs in nuclear power plants are very tough so long-lasting wire will help operators from changing the wire frequently. Also, brazed wire is very demanding for underwater pipe removal projects.

"After several internal and external field tests we succeed to introduce brazed wire to the market. After confirming the internal test, we took it out on the field for additional tests and compared it with existing brazed wires. The result we received paid off all the hard work and efforts we have invested. We are now very excited to start to supply the market with this new and very efficient diamond wire," said Widecut founder and president John Han and added that there will be continuous demands for sintered and electroplated wires. Depending on the customer's applications, they will need to select the tools to carry their jobs in the most efficient way. Widecut recommends wire types according to customers' requests.

### Distinctive features of Widecut's Brazed Wire

There is less diamond layer separation compared with currently existing brazed wires in the market. When diamond layer separation occurs, bead cannot utilize its full life. The bead next to the bead with diamond layer separation will have dramatic diamond wear out because it simply has to work double (see

<Common problem with Brazed Wire>



Diamond Layer Separation (After 2 cuts)

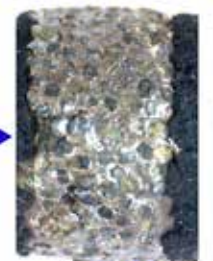


Rapid wear due to poor paste condition

<Widecut Brazed Wire solves diamond layer separation problem>



Diamond Layer (After 2 cuts)



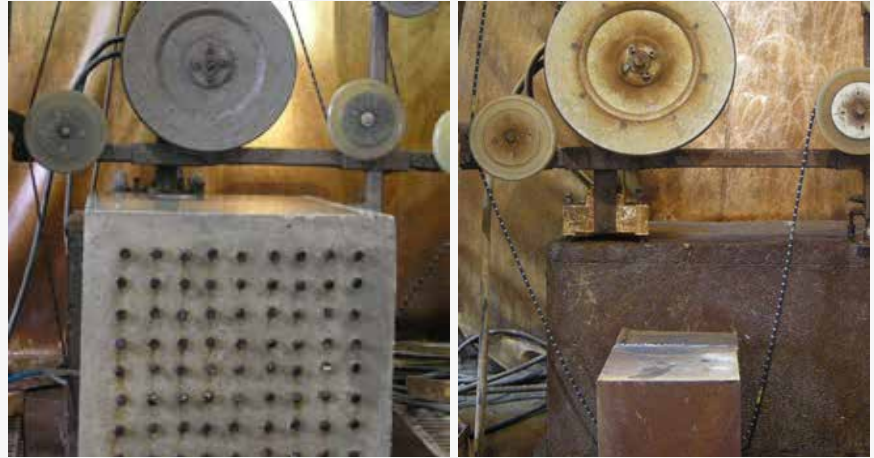
Diamond Layer (After 8 cuts)

# ire from WIDECUT

photo below). You can see what happens when diamond layer separation occurs from the photo. This will lead to short life of the wire. However, Widecut brazed wire is a most promising wire, which will have less problem.

### The highest strength between the beads

Widecut believes that their wires offer the highest strength between the beads which means holding of the beads on the cable is the strongest. "We are able to say this because one of our daily jobs is to test the wire on our universal



Above the Widecut universal testing machine tests in reinforced concrete to the left and tests in steel to the right.

testing machine to check the strength of the wire. When we test as shown on the photo, we reach up to 850kg.f. When the universal testing machine number is high, this means each bead has less possibility of moving or jamming," said Han.

The reason why they can obtain such strong wires is the assembling techniques such as selection of spring, prepressing know-how and the quality of the rubber. Brazed wire especially requires strong hold of the beads because the job sites it works is mainly steel cutting jobs and generally steel structure is thinner than concrete structure. When wire cuts thin steel, vibration will occur and this makes beads jam and spin more easily than general sawing jobs. So Widecut has to structure the wire so that it can fulfill its performance until the life of the diamond beads is finished. Han said that there are many ways to increase the strength and recommend clients to inquire for this.

### Strict tests

All wires are launched after undergoing two types of strict tests. The first is performed in Widecut's plant to determine general cutting speed and life.

When the internal test result is promising, the wire is sent to sites to ensure they verify the initial results. When both internal and external tests are passed, the wire is introduced to the market. This rigorous method should give customers confidence about using Widecut wire.

Widecut's brazed wire is designed for use in both dry or wet applications. While most applications where brazed wire

### Brazed Wire Specification offered by WIDECUT

CODE	PHOTO	SPECIFICATION	APPLICATION	CHARACTERISTIC
HT4B		10.2mm*48BPM	Steel	• Standard
HT17B		10.2mm*53BPM	Steel	• Premium steel wire • More beads thus, longer life
HT3B		10.0mm*40BPM	Very heavy reinforced concrete	• Fast cutting speed
HT18B		9.5mm*48BPM	Finish/Secondary wire	• Used when finishing the job

is use tend to use dry-cutting, Widecut recommends applying heat resistant rubber so that the wire can withstand the high temperatures until they are fully used. Depending on customers' applications Widecut customize the wires by adjusting the diamond grade, size, concentration, and bonding system.

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



Wire on Widecuts universal testing machine

shows

# GOOD TIMES IN

The tri-annual CONEXPO-CON/AGG show once again demonstrates that, in many ways, bigger does mean better. Just how massive is the equipment exhibit array at CONEXPO-CON/AGG?



pre-2008 levels—something that may never happen given the inherent diversity of the U.S. economy, and the pervasive reluctance of lawmakers at all levels to undertake massive publicly financed construction programs. Strife in various parts of the globe and the always-volatile fuel supply markets were also on many attendees' minds.

Even the prospect of a long-absent multi-year federal transportation funding bill was typically greeted with a smile and a "believe it when I see it" reaction.

### New products a'plenty

Still, what clouds attendees and exhibitors may have seen on the horizon were more than made up by the interest in CONEXPO's more than 1,000 new products.

"CONEXPO 2014 was a tremendous success for our team," said Sam Yoon,

President of Hyundai Construction Equipment Americas, Inc., in a statement. Hyundai introduced its new massive R1200-9 excavator, R520LC-9A demolition excavator, HL760-9A waste handling wheel loader, and R220LC-9A amphibious excavator. "The show served as an excellent forum to connect with our dealers as well as past, present and potential customers," Yoon added, "and we were thrilled with the positive outcome."

Of particular interest were mobile equipment rollouts with engines that meet the new U.S. Tier 4 Final/EU Stage IV emission requirements for off-highway equipment in the 128kw - 551kw range. A spokesperson for JCB called CONEXPO "extremely successful," with the company taking thousands of leads from prospective buyers.

"There was a lot of excitement around the new machines we launched, particularly the Loadalls, mid-excavators, and backhoes, and the new 457 wheeled loading shovel."

JCB's Tier 4 Final offerings included eight skid steer loaders and three crawler loaders, all powered by Kohler engines that don't require complex and costly diesel particulate filters. Instead, the engines use a Common Rail fuel injection system, cooled exhaust gas recirculation (EGR), and a diesel oxidation catalyst (DOC) within the exhaust system.

Case Construction Equipment previewed the first model in its forthcoming D series excavators—the CX350D, powered by a 268 hp (197kw) Tier IV Final engine with up to 773 lb ft (1,048J) of torque. The 41t hydraulic excavator uses a combination of cooled exhaust gas recirculation, selective catalytic reduction, and diesel oxidation catalysts for 8 percent faster cycle times, 3 percent greater drawbar pull, and 10 percent better fuel mileage.

Also showcasing Tier 4 Final-compliant equipment was John Deere, with three new models in its K Series of four-wheel drive wheel loaders—the 624K, 644K, and 724K.

"Our goal when updating the K-Series engines to Final Tier 4 was to integrate the engine with minimal

There are so many big cranes, big lifts, and big everything else silhouetted against the late winter southern Nevada sky that one can't help but expect a giant child to suddenly appear, pluck some equipment from the display lots, and venture off into the desert "sand box" to build whatever stirs his imagination.

While there were no reported sightings of giant children during CONEXPO week, there were plenty of normal-sized humans—more than 129,300, according to show organizers, up 8 percent from 2011—from 170 countries crowding the aisles across a record-setting 2.35 million ft<sup>2</sup> (218,322 m<sup>2</sup>) of exhibit space in and around the Las Vegas Convention Center (LVCC). The exhibitor count of more than 2,000 also set a record.

The companion International Exposition for Power Transmission (IFPE) was also well-supported, with 400 exhibitors occupying more than 161,000 ft<sup>2</sup> (14,957 m<sup>2</sup>) of space in its section of the LVCC.

While the numbers are indeed impressive, the more important indicators for the construction and demolition industry are a bit more difficult to measure. "Cautious optimism" was how most observers described the general mood of attendees, despite the steady upward direction of most economic trends in the U.S.

Ken Simonson, Chief Economist for the Associated General Contractors of America (AGC) told his organization's concurrent convention that U.S. non-residential



construction would rise by as much as 8 percent in 2014, though several key sectors will stay close to their 2013 levels of activity. Fueling the growth—in more ways than one—are the infrastructure and sitework necessary to support fracking and drilling activities, and the Panama Canal expansion, which will result in spending on port facilities and their associated rail and highway networks.

Still, most contractors seem hesitant to declare victory over the recession until they see their backlogs return to

# N THE DESERT

machine impact and to maintain the performance features our customers have come to know and expect from John Deere wheel loaders," said Chris Cline, product marketing manager for utility wheel loaders, John Deere Construction & Forestry, in a statement.

The torque from the John Deere PowerTech™ EPA Final Tier 4 engine helps maintain good boom and bucket speed for heaped loads, even in wet or hard-packed material. The K-Series boasts several axle improvements for increased durability in demanding conditions, including standard axle cooling and filtration, along with brake retractors and adjusters on the Teammate V™ axles.

Caterpillar showcased more than 40 machines, including more than a dozen of which made their North American trade show debuts. Cat's M Series 3 motor graders—12M3, 140M3, 160M3 and their all-wheel-drive (AWD) counterparts—use emissions reduction technology designed to free the operator from having to stop the machine for regeneration and other actions. Instead, the system uses Caterpillar's proven Selective Catalytic Reduction system, by which a Diesel Exhaust Fluid (DEF) can be conveniently added from ground level when the machine is fueled. Because of improved fuel economy over Tier 4 Interim and efficient use of DEF, M Series 3 motor graders deliver excellent overall fluid efficiency.

And, Germany's Sennebogen, which made its first-ever appearance at CONEXPO, presented its 875E hydraulic excavator, which was first displayed at Bauma 2013. With a 524 hp (385kw) Tier 4 Interim Cummins diesel engine and 8.3t capacity, the 875E features an innovative energy recovery cylinder that captures and reuses boom lowering and braking energy, thus cutting the machine's reliance on fuel.

## Material-moving machinery

Though CONEXPO's main focus is large-scale "new" construction, the demolition side of the business was well-represented by manufacturers such as Kobelco Construction Machinery, which is reestablishing its brand name and company autonomy after operating under the Fiat Industrial S.p.A. umbrella for the last decade.

According to a company statement, Kobelco has signed more new 50 U.S. dealers over the past year, while breaking ground on a new headquarters facility in Katy, Tex., this past November.

Kobelco used CONEXPO to give North America its first look at new sector-specific machines, including the 100t class SK1000DLC Large-Building Demolition Machine. The SK1000DLC can be used with two Ultra Long Attachments—the GD, which extends 130 ft (39m) with a 2.5 ton class crusher, and the HD that focuses on high-elevation crushing with a 5t class crusher and a reach of 100 ft (30m). Various attachments provide crushing force tailored to various materials and operating environments.

Also debuting in North America at CONEXPO was Brokk, Inc.'s 800S remote control demolition machines. Built for large-scale tunneling, mining and construction work, the 800S features Brokk's signature three-arm system, and offers a maximum reach of nearly 30 ft (9m). When equipped with the included Atlas Copco MB 1000 breaker, the Brokk 800 robots produce 1,500 lb ft (2,034J) of force at the tip of the tool—nearly twice the hitting power of the Brokk 400.



IROCK introduced its new TC-20 Track Impact Cluster, which combines a larger feeder, a high-performance four-bar impactor, and heavy-duty components to produce a uniform, cubical product, while hydraulically adjustable aprons provide users with better control over sizing. The machine's 40x56 in (1,016 x 1,422mm) rotor can process soft to medium rock, recycled concrete, and recycled asphalt up to 24 in (610mm) in diameter.

To help provide a safe source of jobsite power, Chicago Pneumatic launched the new CPS 2.0 portable air compressor. The CPS 2.0 features high ground clearance for easy towing over difficult terrains, ensuring the compressor can be conveniently positioned wherever it is needed. The compressor also includes a lifting point, so that it can be moved into place by crane if necessary.

Chicago Pneumatic also introduced a new range of portable petrol generators (CPPG). Robust and user-friendly, the CPPG generators will feature a simple handle design that is both labour-saving and convenient, engine alarms to protect crucial components, an hour counter, maintenance-free battery, and Automatic Voltage Regulation (AVR) that improves the quality of the supplied electricity. Extra frame reinforcement make the units quite robust, with a reinforced large-capacity fuel tank (up to 25L) minimises spillage risks.

"In some parts of the world, Africa and the Middle East especially, transportation infrastructure is reaching certain areas before the utilities," explained Andrew Cope, Chicago Pneumatic's Vice President, Business Development. "It seemed obvious to develop these products for customers who find themselves increasingly doing work in remote locations."

Finland's Dynaset was also on hand with its new 17-product Blue Hydraulics Line, which includes the new HKR Hydraulic Screw Compressor series to complete the selections of piston and rotary vane compressors. Dynaset has also packed more power into its K-series HWG



hydraulic welding generators, shrinking their length by 10 percent from previous models to provide greater installation flexibility. Welding cable connectors and sockets are located in the front panel, improving their usability.

## What's next for 2014?

When the last attendee left the LVCC on CONEXPO's last day, it marked the end of what has been an active trade show season for North America, with World of Concrete and the National Demolition Association's convention already in the books. The next several months will reveal whether this early-year optimism—and its accompanying skepticism—was well-founded, or if the cynics have their way with prospects and predictions that fail to materialize.

To be sure, there's always the unexpected that can cause those best-laid plans to go awry, be it an international incident, a natural disaster, or—everyone's worst nightmare—an act of terrorism.

But sometimes, it almost seems that many in construction industry prefer to overlook the positive in favor of adopting the underdog role—longing for better days while criticizing those who stand in the way (most often, politicians). True, the scars from the economic downturn are still fresh, and with so much uncertainty shrouding the future, a sense of stability seems more difficult to achieve than ever.

Yet there's no denying that the optimism that fueled CONEXPO and the other shows was based on much more than a chance spend some time in the fantasy world of Las Vegas. At least in the U.S., new buildings are being constructed, older buildings are being renovated and repurposed, new infrastructure programs are being funded. The opportunities may not be as plentiful or easy to secure as before, but they are there, and these equipment shows offered no shortage of new products and new ideas for winning them.

Hopefully, CONEXPO gave those thousands of attendees a lot to think about on those long drives or plane rides home. It's not a perfect construction market, but it's all they've got. In the true spirit of Las Vegas, they can either complain and fold, or stay at the table and be a part of it.

And by making prudent investments in research, equipment, and people, they may well find that the odds aren't so bad after all. Indeed, the start of that longed-for lucky streak may be right around the corner.

## IROCK Crushers Introduces New TS-409 Track Screening Plant

IROCK Crushers' TS-409 Open Style Feeder Track Screening Plant is designed for small- to mid-size producers who need a more economical, more compact screening plant and do not require as much capacity. The TS-409 is suitable for materials such as sand and gravel, asphalt, coal, limestone and demolition debris. It is powered by a 66.2 hp (48.7kW) Deutz engine, and is capable of processing materials at a rate of up to 300 tons per hour. Other features include an open-style hopper feeder with a 5.02 yd<sup>3</sup> (3.8m<sup>3</sup>) capacity and a 42-in (1,022mm) wide belt feeder conveyor. Capable of accurately and consistently sizing materials up to 12 in (305mm) in size, the TS-409 has two 9x4 ft (2.7x1.2m) decks for a total of 72 ft<sup>2</sup> (6.69m<sup>2</sup>) of screening area.

One of only a few smaller tracked screeners on the market, the TS-409 offers 15.7 in (400mm) wide crawler tracks and an onboard 42-in (1,022mm) oversized Chevron belt conveyor with a stockpiling height of 11.5 ft (3.5m). The entire working unit measures just over 41 feet (12.5m) long.

Ground-level greasing points for the bearings make it easy to perform maintenance on the TS-409. The engine compartment is also easily accessible and maintenance-friendly.



## Case Displays Next-Generation of Fuel-Efficient Construction Equipment at CONEXPO-CON/AGG

In a world exclusive preview, Case unveiled the new CX350D hydraulic excavator, the first model of the Tier 4 Final D Series that will be available in Europe next year. With a 268 hp (197kW) engine and an innovative Tier 4 Final solution that combines Cooled Exhaust Gas Recirculation (CEGR), Selective Catalytic Reduction (SCR), and Diesel Oxidation Catalyst (DOC) technologies, the CX350D hydraulic excavator maximizes power and performance. Together with improved hydraulic controls, Case CX350D provides more digging force and lift capacity and up to 10 percent greater fuel efficiency.

Case also showcased its improved-performance C Series of crawler excavators with a 28.1 ton CX250C Long Reach model. Pow-

ered by a Tier 4 Interim diesel engine, the C Series optimizes productivity and efficiency thanks to advanced technologies such as the unique Case Intelligent Hydraulic System that helps manage the engine and hydraulics. With an 26 ft (8m) boom in the Long Reach version, the CX250C crawler excavator can reach up to 59 ft (18m).

A Case CX80C model on display well represented mid-excavator offerings. Launched in 2013, the CX80C excavator is equipped with a first-in-class Tier 4 Final engine that uses up to 5 percent less fuel. With great serviceability, minimized downtime, and reduced dimensions with no compromise in visibility and comfort, the CX80C is built to deliver the performance of higher class excavators.

Case also introduced the new Tier 4 Final 921F wheel loader, showcasing further improvements to the best 20-ton model on the market. With best-in-class 7.2-ton payload, the new 921F model rises the bar on performance, fuel savings, and ease of maintenance.



## CAT 910K and 914K compact wheel loaders excel in load-performance

Two new Cat Compact Wheel Loaders—the 910K, a new model in the range, and 914K, replacing both 914G2 and IT14G2—feature Caterpillar's exclusive Optimized Z-bar loader linkage, allowing these new models to work with the digging power of conventional Z-bar machines, while also providing the parallel-lift of an integrated tool carrier. Both models use a 92-hp (67.7kW), EPA Tier 4-Interim / EU Stage IIIB engine, the Cat Hystat hydrostatic drive system, and newly designed cabs.

The 910K and 914K feature the Cat C3.8B engine, longitudinally mounted to facilitate routine maintenance and to provide excellent rearward visibility. A new, single-plane cooling system uses an efficient hydraulically driven fan or an optional Cat Demand Fan that operates only as required. An ECO mode regulates the engine's high idle, saving fuel and lowering sound levels with no compromise in machine perfor-



mance, while also effectively controlling downhill braking. Exhaust after-treatment requires only a diesel particulate filter, eliminating the need for diesel exhaust fluid.

## New CPS 2.0 Portable Compressor from Chicago Pneumatic Delivers Simplicity With Efficiency

Chicago Pneumatic has launched the new CPS 2.0 portable air compressor, which



combines robust build quality with easy, efficient and environmentally friendly operation. The new portable compressor is designed for use on construction sites and in similarly demanding environments where a convenient and reliable source of compressed air is required.

To ensure conveniently positioning on even the most challenging of sites, the CPS 2.0 features high ground clearance for easy towing over difficult terrain. The compressor also includes a lifting point so that it can be moved into place by crane if necessary.

The new compressor has a simple but effective control panel incorporating a start switch, hours-run counter, pressure gauge and control light, and offers hassle-free starting. There is no load switch and there are no valves to be adjusted before starting — all that's needed is to turn the start switch.

Other key features include a spillage-free frame that ensures no oil, coolant or fuel can leak onto the ground and cause contamination; modular construction for easy customization, if required; and a top cover with a large angle of opening to provide easy access to all major components for maintenance.

Stringent measures have also been taken to maximize the reliability of the fuel supply system. The translucent 7-gallon (28 liter) fuel tank, which is marked with five-liter gradations to allow easy checking of the fuel level, is removable for easy cleaning. The CPS 2.0 has a large filling aperture and integral strainer to guard against fuel contamination, and is complemented by a fuel filter with an air vent that works together with the electric fuel pump to ensure easy starting.

## Wacker Neuson Unveils New Products for North America

At CONEXPO in Las Vegas, Wacker Neuson introduced a wide variety of new products in the fields of compaction, worksite technology, and compact equipment. By far, the highlight of the show was the introduction of the company's new line of skid steer and compact track loaders, which has been designed specifically for the needs of the

North American market.

The new models include the SW 24 and SW 28 skid steer loaders with a payload of 2,400 lbs (1,100kg) and 2,800 lbs (1,350kg), and the ST 35 and ST 45 track loaders with 3,500 lbs (1,600kg) and 4,500 pounds (2,050kg) payload, respectively.

Another highlight at the CONEXPO was the 803 dual power mini-excavator. The 803 runs off a standard diesel engine, or can easily be connected to an electro-hydraulic drive (HPU8), allowing the machine to operate completely emission-free. This innovative solution is perfect for interior excavating and demolition.

Accessibility on the job is easy, as the 803 is narrow enough to fit through standard interior doors. To ensure maximum productivity, the delivers the exact same performance regardless of the power source.

Other new products from the compact machine series presented at CONEXPO were the particularly user friendly and powerful EW10010-ton mobile excavator, the AWS550 all-wheel drive wheel loader with a shovel capacity of .72 yd<sup>3</sup> (0.55m<sup>3</sup>), and the WL 36 (articulated) with an operating weight of 3.6 tons and a shovel capacity of .78 yd<sup>3</sup> (0.6m<sup>3</sup>).

In addition, Wacker Neuson unveiled the ET20 compact excavator with an operating weight of 2 tons, and the E217 Zero Tail excavator with no tail swing and an operating weight of 1.7 tons.

Further news included the Light Tower models such as the comfortable Vertical Mast version and the LED option, which is particularly ECO friendly as it uses approximately 70 percent of the standard amount of fuel, has a longer bulb life and can be turned on and off instantaneously without delay.





## Power in your hands.

Remote demolition machines need to be intuitive, maneuverable and powerful. Each of Husqvarna's robots has something unique to offer - long reach, 360° boom rotation or dozer blades. All of the machines have individually controlled outriggers, are able to fit through doorways and offer several attachment options. Each is controlled through the market's most modern and easy-to-use remote control with unrivaled user-friendliness and functional design.



The Rockster-team on CONEXPO.

## Rockster Recycler Uses CONEXPO 2014 to Raise America's Environmental Awareness

Three years after making its U.S. debut, Rockster Recycler again presented itself at CONEXPO in Las Vegas. This time, Rockster Recycler introduced two plants to the American audience. For jobs with the highest performance requirements, Rockster presented the R1100D track mobile and "DUPLEX-able" impact crusher with RS94 mounted screen box and RB85 return belt. The already well-known R110D was complemented by the unique R700S compact track mobile impact crusher with RS73 mounted screen box and a patent-protected double functional RB65 return-belt system.

The R100D plant is brand-new to the American market, and was well-received by end-users, particularly with Rockster's demonstration of how simple solutions can create essential advantages for the daily work routines. The Rockster Team was pleasantly surprised with the cooperative and mild weather during the entire fair, as

the show date this year took place much earlier than in 2011. Wolfgang Kormann, CEO of Rockster Recycler GmbH praised the American audience.

"We were surprised about the quality of the trade visitors, who showed very good knowledge in the sector of processing and recycling," Kormann said.

Kormann added that participating in CONEXPO was a natural step for Rockster. "For the past two years, we have been targeting the Latin American market, so many dealers and customers especially from this area made an appointment for a visit," he said. "In addition, there is a clearly recognizable positive development and return of the U.S. market."

The feedback of the visitors on the Rockster booth was extremely positive. A California contractor was impressed with how Rockster "provides complete solutions for processing of natural stone and recycling by using simplest technology, which makes the use of additional equipment unnecessary."

A consultant also pointed out that the DUPLEX-System's interchange of impact crusher to jaw crusher on the same plant "is giving Rockster a sharp competitive edge on the American market." Generally, the compactness, the ease of maintenance, the well-arranged system, the combination of crusher and screen and the double-functional return-belt system of the Rockster plants were highly appreciated by CONEXPO visitors. Kormann was pleasantly surprised that Rockster even could conclude contracts during the fair, which is rarely possible in these times. Rockster could well see a very strong upward trend in the recycling business. The recycling of demolition debris and waste has increased in importance over the past three years. American decision-makers are expected to focus more on recycling sector, and are willing to make a greater contribution to environmental protection.

[www.rockster.at](http://www.rockster.at)

## New Portable Pitbull™ 2300 Screener from Lake Erie Portable Screeners

The rugged Pitbull 2300 Screening Plant manufactured by Lake Erie Portable Screeners gives landscapers, contractors and municipalities a compact and portable machine that delivers maximum efficiency and high outputs with a wide range of materials such as topsoil, mulch, gravel and asphalt. It is available in both diesel and electric-powered models.



## IROCK Introduces RDS-20 Mobile Crusher Design Improves Efficiency, Quality



IROCK has introduced the RDS-20 Primary Crushing Plant. As the name suggests, the RDS—rapid deployment system—provides exceptional portability and rapid set-up time.

The RDS-20 is a highly portable, easy to operate mobile unit. It combines a closed circuit design, high-performance four-bar impactor and heavy-duty components for reliability, increased efficiency, and the precision to produce a uniform, cubical product. It also is versatile enough for use across multiple industries, and can process a variety of materials, including quarry rock, demolition debris, recycled concrete, recycled asphalt, and base rock for oil fields.

The machine's 5x16-ft (1.5x5m) double-deck screen can operate at a rate of up to 500 tons per hour. A closed-circuit design allows both decks of oversized material to return to the feeder for another pass through the crusher after the initial round of screening. This allows for 20-percent greater production than competitors' machines. In addition, with on-board power supplying full plant operation, the entire process is self-contained. The crusher is powered by a 440-hp (323.6kW) Caterpillar® C-13 ACERT Tier 3 engine. A Tier 4 engine is also available.

Performance and production are further enhanced by IROCK's four-bar impactor design. The RDS-20 provides the ideal balance inside the crushing chamber to optimize production and ease uneven wear on the

impact bars. A heavy-duty, two-step tapered grizzly removes fines and allows only large materials into the crusher. Hydraulically adjustable aprons allow for ease of adjustment and better control over sizing, while three optional auxiliary conveyors sort and stack processed materials.

The RDS-20 is available with IROCK's patented Hydraset Hopper™, designed to attach and remove the hopper/feeder unit in one piece without the need for an outside lifting device. The system operates from an internal power pack, allowing the unit to be easily detached and placed on a trailer in a matter of minutes.

The mobile crusher features IROCK's exclusive ROCK BOX—a shelf system with abrasion resistant wear bars that allow crushed material to build up and act as a wear liner, effectively reducing maintenance. It also incorporates specialized AR-400 steel plate liners for each material transfer point, which provides enhanced durability over rubber liners used by other crusher manufacturers. To reduce cleaning and maintenance requirements, the RDS-20 features a standard dust suppression system. Catwalks enable easier screen changeouts and provide convenient access to crucial maintenance and cleaning points. And, operators can remove the machine's control panel and operate the crusher from up to 30 ft (10m) away to remove it from the dust and vibration of normal operating conditions.



Rockster Recycler's booth in CONEXPO's Platinum Lot.



Lively interest "in front of" and "on" the Rockster plants.



# LATIN AMERICAN *Concrete Cutting &* **DEMOLITION** RIO DE JANEIRO BRAZIL OCTOBER 1-2 2015



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Dust Extraction and Slurry Containment • Recycling of Demolition  
Debris and Related Equipment and Methods**

*Venue Supported by Well-Known Latin American  
and International Trade Associations*

***October 1-2, 2015 • Rio de Janeiro, Brazil***



***[www.latindemoforum.org](http://www.latindemoforum.org) - to be launched August, 25, 2014***

# Latin American Concrete Demolition Forum



The Latin American concrete cutting and demolition industry has shown steady growth during the last years. Product methods that earlier were not used at all or only to a limited extent have gained stronger acceptance in markets like Mexico, Brazil, Chile, Bolivia, Peru, Colombia, Argentina, and many others. Interest in these methods among Latin American contractors is growing quickly as well.

## A Unique Forum

In order to meet this demand and stimulate further growth in the region, the first-ever Latin American Concrete Cutting & Demolition Forum will take place at the Sheraton Rio Hotel and Resort in Rio de Janeiro, Brazil, October 1-2, 2015. This two-day seminar will feature a number of presentation topics



and roundtable discussions on current and emerging topics of particular interest to Latin America's concrete cutting and demolition contractors. Though the program for the Forum is still being finalized, here is a tentative list of topics:

- Remote Controlled Demolition – The Methods
- Heavy-Duty and Long-Reach Demolition Tool Carriers
- High-Cycle Concrete Sawing and Drilling Equipment – Lightweight, Fast and Efficient
- Hydraulic vs High-Cycle Concrete Cutting
- The Modern Diamond Tools – Cutting Performance, Life Safety, and Economy
- Efficient Removal of Different Floor Coatings – Methods and Brands
- The New Flooring Product - Concrete Floor Polishing in Theory and Practice
- Machines, Tools, and Chemicals for Concrete Floor Polishing
- Best Practices for Handling

## Dust and Concrete Slurry

- Recycling and Waste Handling – A Profitable Business: Crushing and Screening With the Latest Techniques
- Hydrodemolition: The “Sensual” Demolition Method for Sensitive Concrete Structures
- Presentations of Various Case Studies from Latin American Markets

Watch the Forum's website, [www.latindemoforum.org](http://www.latindemoforum.org), for schedule updates and additional information.

The Forum is being organized by S.C.O.P. AB of Sweden, publishers of the international demolition magazine PDi, and Riverbends Publishing LLC of the U.S., publishers of the North and South American magazine Professional Demolition Americas, PDA.

Trade associations supporting the event include:

- Brazilian Rental Association (ALEC)
- International Concrete Polishing & Staining Conference, ICPSC and

# Concrete Cutting & Demolition in Rio de Janeiro

2015



lition techniques, core drill systems, wall and wire saws, dust extraction and concrete slurry containment, and removal of concrete floor coatings. In addition, special concrete floor polishing seminars and polishing training classes will be carried out in cooperation with the International Concrete Polishing Institute.

## Website

All information about the Latin American Concrete Cutting & Demolition Forum 2015 you will find on the website [www.latindemoforum.org](http://www.latindemoforum.org), which is updated continuously. Visitors will find more information about the Forum's program, speakers, topics, methods, and products. Proposals for additional topics/presentations are also welcome and will be given due consideration for the program.

The website also provides portals for participating in the Forum, reserving exhibition space, and making travel and hotel arrangements. You will also find links to partners and supporters of the Forum, associations and exhibitors. The website will be officially launched August 25, 2014 (All payments are made via the website unless other arrangements are made with the organizers.)

## Sponsors

Latin American Demolition Forum 2015 offers a wide variety of sponsor packages for manufacturers, suppliers, contractors, and trade associations. Sponsorship levels include Exclusive Platinum Sponsor, Gold Sponsor, Silver Sponsor, Bronze Sponsor, Supporting Sponsor, Gala Dinner Sponsor, and Visit Rio de Janeiro Sponsor. More information and booking arrangements are available at [www.latindemoforum.org](http://www.latindemoforum.org).

Latin American Concrete Cutting & Demolition Forum 2015 truly has something for everyone. Make plans to join us in Rio de Janeiro on October 1-2, 2015, and be a part of an exciting event dedicated to an exciting industry.

Welcome!

- Concrete Polishing University
- Brazilian Association for Recycling of Construction and Demolition Waste (ABRECON)
- International Association of Concrete Drillers & Sawers (IACDS)
- European Demolition Association (EDA)

been working with the region's trade associations and others to raise awareness about the event through a variety of direct contact and media channels, including various Latin American trade magazines and news sites. The Forum will also be promoted at a number of trade exhibitions in North and South America.

## Languages

All information and promotional material will be available in Portuguese, Spanish, and English. During the Forum, all presentations and speeches will be simultaneously translated to/from these languages. Printed materials, presentations, and speech texts will also be available in the three main languages.

## Table-top Exposition

Concurrent with the forum, a table-top exposition will provide a venue for manufacturers, suppliers, associations, and contractors to promote their products or services. There will also be an outside demonstration and training area. Registration information for booths and table-top exposition space is available at [www.latindemoforum.org](http://www.latindemoforum.org). Website will be launched August, 25, 2014.

## Presentations and Hands-on Training

The Forum will offer a variety of useful and informative presentations on the advantages with various industry methods, products and tools, as well as extensive hands on training classes. Sessions include operation of remote controlled demolition robots, hydrodemo-

Pending decisions from the following associations:

- Brazilian Association of Technology for construction and mining (SOBRATEMA)
- US National Demolition Association, NDA
- US Concrete Sawing & Drilling Association, CSDA
- European Demolition Association, EDA

## Dedicated to the professionals

The Forum is dedicated to serving the interests of Latin America's concrete sawing and drilling, demolition, recycling and concrete floor grinding and polishing industries - contractors, manufacturers, suppliers, and trade associations. Its program is intended to inform, educate, stimulate discussion, and train in order to advance the professional and economic growth of the region's concrete cutting, demolition, and recycling sectors.

For manufacturers and distributors, the Forum is a perfect chance to meet a large number of professional contractors and also rental companies. It is a truly a unique and highly valuable networking and promotional opportunity.

## Marketing the Forum

Since May 2014, the Forum's organizers have



# Venue: Sheraton Rio Hotel & Resort, Rio de Janeiro, Brazil, October 1-2, 2015



Organizers:



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P.O. Box 786 •  
SE-191 27 Sollentuna • Sweden  
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### Latin American Concrete Cutting & Demolition Forum 2015

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São Paulo SP Brazil 01235-000  
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**E-mail the Forum: [info@latindemoforum.org](mailto:info@latindemoforum.org)**

The Forum is currently supported by the following trade associations (more associations to be added shortly):



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



[www.arbrecon.org.br](http://www.arbrecon.org.br)



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# Powerful. Revolutionary. Intelligent. Modular. Electric - That's PRIME™

Husqvarna Construction Products introduced its new Husqvarna PRIME™ series at the World of Concrete show this past January. The series consists of light, easy to use and set up, and powerful electric and high-frequency machines for handheld cutting, core drilling, and wall sawing.

Thanks to an innovative combination of high cycle and digital technique, Husqvarna has reached a completely new level of efficiency and usefulness of its machines and tools. For the contractor, this means better performance, higher productivity, and improved mobility.

The new PRIME series currently include five different machines: the DM 650 handheld cutter, the K 6500 Ring handheld ring cutter, the PP 65 power pack the DM 650 core drill motor, and the WS 220 wall saw.

The DM 650 provides a full 8.1 hp (6kW) output on the shaft, yet weighs only 31 lb (14kg). Thanks to the 18-step adjustable gears, the contractor can optimize the drilling speed. Drill bits of 4 to 24 in (100 to 600 mm) are recommended. The DM 650 is a very flexible drill motor that you can even run it on single-phase if needed.

The K 6500 electric power cutter really makes the contractor feel the force of a new generation of high-frequency technology. A massive 7.5 hp (5.5kW) output at the spindle means extreme power-to-weight ratio. The cutter is also easy to move it around; the K 6500 and PP 65 power pack weigh only 22 lb (10kg) each—194 lbs (88kg) less than equivalent hydraulic systems.

The K 6500 Ring is the first electric ring cutter, and one of the most powerful electric handheld cutters ever—comparable to a hydraulic machine. The 10.6 in (270mm) cutting depth, low

system weight, and well-balanced body will help the concrete cutter to overcome challenges.

Husqvarna's lightweight WS 220 electric wall saw is unique and efficient for smaller/mid-sized jobs as well as repeated jobs with cutting depth up to 15.4

in (390mm). It is easy to use and transport with the included trolley. The sawhead delivers a full 8.1 hp (6kW) on the shaft but weighs only 42 lb (19kg). And it's so flexible, you can even run it on single-phase if needed.

The PP 65 is a versatile, air-cooled electric power unit for the K 6500 and DM 650 products. The low weight, compact design, and user-friendly display interface makes the PP 65 very easy to use and transport. The new power pack will be available in second quarter of 2014.

Contractors around the world will soon be able to get a closer look at the new PRIME series. In Europe, the new products will be launched at several shows through the year (e.g., Nordbygg and DEMCON in Scandinavia, Bebosa in Germany, etc.).

PRIME will also be shown at local exhibitions in countries where Husqvarna has its own subsidiaries or representatives PRIME will be shown at local exhibitions. In Brazil, for instance, the product series will be displayed at the Concrete Show in São Paulo in August and in Scandinavia at the show DEMCON in Stockholm in September this year.

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

## Rockster Recycler Rocks the Market With Inter- changeable Duplex Impact/ Jaw Crusher Plant

Rockster Recycler North America introduces its mobile Duplex System, a track-mounted crushing plant that allows the contractor to interchange an impact crusher with a jaw crusher—and vice-versa—on the same chassis. This unique capability creates a dual-purpose machine for a wider range of recycling, demolition, and aggregate crushing applications.

Available in the R1100/1200 impact/jaw models (280-350 tons/hour) and the R900/800 impact/jaw models (120-240 tons/hour), the Duplex System allows one crusher unit to exchange material in approximately four to five hours using an excavator.

All crushers feature two hydraulically adjustable swing-beams, as well as on-the-fly rotor speed adjustment for accurate material sizing and fines control. The hydraulically adjustable jaw crushers feature oversize bearings and shafts and are reversible to easily remove uncrushable material.

The drive system for each machine is enclosed in a sound-proofed housing that can be opened on all sides for maintenance and service. Hydraulic pumps for all auxiliary drives and the hydrostat are driven via a distributing gear unit flange-mounted on the drive motor. The hydrostat activates the crusher and controls its speed via a V-belt drive, replacing the typical clutch. The bypass chute is adjustable, allowing discharged pre-screened material to be directed to either a side or main discharge belt, both of which are hydraulically operated and fold for compact transport.

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[www.rockster.at](http://www.rockster.at)



# A Grinding Revolution

**HTC Ravager tools expose large aggregate and remove thick coatings in only one pass**



**Before Ravager.**

The HTC Ravager™ is grinding tool with an extremely high stock removal capacity. The HTC Ravager™ is available in 7,9, and 11 in (178, 229, and 279 mm) models for HTC grinding machines, and as 6 in (152mm) hand grinding tool.

There are many tough applications for the HTC Ravager™, including exposing large aggregates in as little as one pass, and removing rigid or brittle coatings. It can even grind through 3/8" thick overlays with ease.

"Grinding deep into concrete and ex-

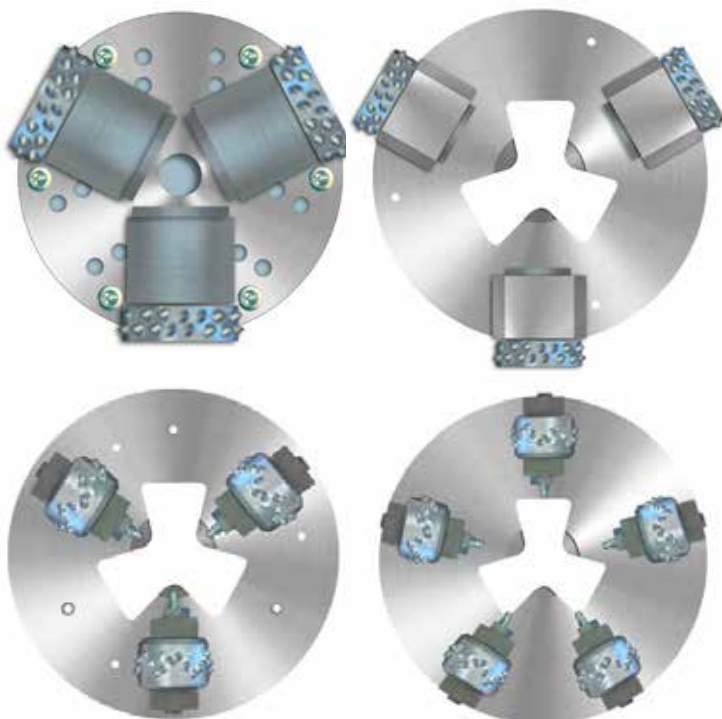


**After Ravager.**

posing aggregate is less time consuming and easier than ever using HTC Ravager tools," says Matt Herz, HTC's Sales Representative for the Pacific Northwest and Canada. "Even older techniques such as shotblasting and scarifying don't have a leg to stand on now that planetary grinding with HTC Ravager tools can achieve rougher concrete surface profiles."

The HTC Ravager™ tools and spare parts are in stock and ready to be delivered.

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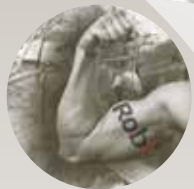
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# EU Manufacturers Try to Conquer North America

**When taking a look at suppliers manufacturing track-mounted demolition and recycling equipment and crushing and screening buckets at CONEXPO in early March, it seems that Europe has a clear aim to enter the North American market. This is because European companies want to expand their markets, and American manufacturers have not entered these industry segments in full force. At best, most of them still concentrate on the domestic market. The situation obviously is lucrative for newcomers.**

There were, indeed, quite a few European companies that were first time exhibiting in Las Vegas. While large, established Europeans were present in full force, smaller companies from countries like Austria, Germany, and Italy also wanted to showcase their products. Here are some examples.

## MB

The Italian company manufacturing crushing and screening buckets, universal quick couplings, and iron separators was at the show for the fourth time. MB has grown a lot in recent years, and regards itself as one of the leading manufacturers in the world. For CONEXPO and the North American market, the company brought two of its newest pieces of equipment, the MB-L120 and the MB-L140 crusher buckets that are specifically designed for skid-steers and backhoes.

## Kleemann

This German company inside the Wirtgen Group showcased several new models of its range of track-mounted crushing and screening units, which perform in crushing, screening, demolition, and recycling. Making its world premier was the Mobirex EVO 2 mobile impact crusher, which now represents the second generation of the Mobirex series. The EVO 2 features the new Continuous



**Kleemann has designed a series of ecological crushing and screening equipment and felt proud to show them in Las Vegas. Marketing manager Mark Hezinger stands as a yardstick.**

Feed System (CFS) that detects overloads using various parameters, and regulates the material conveying speed. Therefore, conveyor elements do not come to a complete standstill and continuous loading of the crushing unit is ensured. As Kleemann has always paid particular attention

to environmental aspects, all its machines comply the new U.S. Tier 4 Final emission standards.

## Dynaset

The Finnish company is a specialized manufacturer of hydraulic equipment, tools and attachments for a large variety of applications, including many that are suitable in demolition and recycling. At CONEXPO, the company launched a new Blue Hydraulics product line. The new line includes 17 new products, technical developments, and improvements such as screw compressors, high-pressure water pumps, magnet generators, and modular valves. A new generation of FLC cartridges was also developed for the Blue Line, enabling easy and accurate prediction to counter load changes when working with hydraulic generators and compressors. "The scope of this development has been to improve many technical details but also to make the equipment even more compact and smaller in size wherever this has been possible," explained Dynaset representative Reijo Karppinen. "For instance, the length of hydraulic welding generators is now 10 percent shorter, which brings significant advantages because it is easier to install and also gives more options for placing it in machine."



**Dynaset's new Blue Line has been officially launched witnessed by spectators.**

## Powerscreen

The mobile crushing and screening equipment manufacturer from Northern Ireland, and part of Terex, brought three new machines to the show. The Premiertrak 300 HA Hydrostatic VGF jaw crusher features the new hydrostatic drive system option, allowing it to reverse and unblock or run continuously in reverse for asphalt applications. It is ideal for urban sites due to low engine RPM with excellent fuel efficiency and low noise emissions. The Trakpactor 320SR is a mid-sized horizontal impact crusher redesigned with some key enhancements to offer operators excellent reduction and high consistency product shape in quarry



**Powerscreen is one of the leading companies in the world in the manufacture of track-mounted crushing and screening equipment.**

recycling applications with output potential up to 320 tons per hour. One exciting feature is the quick-detach post-screen section that converts the machine to a standard Trakpactor 320 unit. This increases the versatility to use it in different applications. The Warrior 2100 screen includes the Triple Shaft technology that is unique to Powerscreen heavy-duty mobile screens. The Warrior 2100 offers improved capabilities especially in sticky scalping applications. The machine can process mixed demolition waste including grass, soil, concrete, wood, and asphalt.

## Simex

Simex offered to its biggest crusher bucket, the CBE50 which can be fitted to excavators up to 60t. For the time being, this machine is on sale only in the U.S. Simex also showed its new VSE40 screening bucket.

## Metso

The established Finnish manufacturer of process equipment showcased its new line of shredders for the first time in a major show. Three years ago Metso acquired a well-established shredder manufacturer from Denmark, and is now ready to market the products globally. There are four



**After acquiring a Danish shredder manufacturer Metso has gone more deeply into demolition. Project manager Dorte Larsen explained the basic facts about Metso's shredder line.**

models of EtaPreShred series for pre-shredding purposes, and two models of EtaFineShred series for fine shredding. All can be mobile or stationary. The pre-shredders are based on an extremely aggressive shaft mounted knife design and open cutting table. Bridging is prevented by shredding in both directions, and attacking the material from all angles. The shredders are driven by a hydraulic system with a direct hydrostatic drive, so the machine always starts at full power and speed, and all the power is utilized for shredding. Therefore even very difficult material can be shredded, e.g., bulky wastes, industrial waste, hazardous waste, household waste, wood waste, construction and demolition debris, and biomass baled materials. Other equipment on Metso's stand included a Lokotrack LT220D, which features a cone crusher and a screen on the same chassis, and a Lokotrack ST2.8 track-mounted scalping screen. The machine can be optionally fitted with a heavy-duty magnetic separator, which can handle also metallic material.

## Sandvik

The Swedish global conglomerate had two stands. Inside, the company showed the newest machines for drilling. Outside the focus was on crushing and screening. Ma-





**Allu traditionally demonstrates its product at trade shows. This was the case in Las Vegas too.**

chines on display included the new QS441 secondary cone crusher on tracks. The core of the machine is the CS440 cone crusher that has been used in stationary applications for more than 30 years.

### Allu

The Finnish manufacturer of crushing and screening buckets introduced the new DL series screening bucket to the U.S. audience. It is designed for the smaller end of the scale with special top screen technology. The clog-free construction ensures good capacity, even with wet materials. The DL series includes three new models for 4 to 12t excavators, and 2 to 8t wheeled loaders. It can also be fitted to tractors and backhoe loaders. Allu's prime introduction at the show was the newly developed M series of larger buckets that is aimed for soft rock mining applications, part of the company's enlarged its product offerings for the mining industry.

### Hartl

This Austrian company is already a household name in the sector of crushing and screening buckets. Hartl machinery is characterized by applying its unique technology to an extremely robust structure. Hartl also has integrated a jaw

crusher into the form of an excavator bucket to be used in crushing and separation of natural stone, and recycling material on site. Due to the Quattro movement designed by the company, the buckets deliver a high average performance and throughput, and an exceptional quality end-product with a minimal amount of oversized material.

### Remu

This Finnish manufacturer showed many products that have undergone recent improvements. Screening buckets now include wear-resistant steel rotors, bolt-attached comb counter blades and cleaning scrapers, bolted side doors and plugs for greasing, and interference fits on shafts to enhance transmission. "For us, North America has been the most growing market in recent years," stated Remu's Managing Director states Juha Salmi. "Today the U.S. is our biggest single export market."

### Irock

Irock is an American manufacturer of portable crushing and screening equipment that traditionally made wheel-mounted units. However, right before CONEXPO, the company designed its first two track-mounted units—the TJ-3046 equipped with a jaw crusher, and the TC-20 with an impact crusher. According to Irock, the impact crusher unit can process material up to 450 tons per hour.

### Portafill

North Ireland-based Portafill is another European manufacturer that is on the way to expansion. Portafill makes mobile screens for different applications but mainly for recycling and demolition purposes. In Las Vegas the company showed the 5000CT, designed for heavy-duty screening applications, with features such as a variable-speed feeder, folding wing conveyors with large stockpile capacity, and heavy-duty tracks for moving across rough terrain. Also on display was the track-mounted 4000T, equipped with a trommel screen and suitable for screening for instance



**The Hartl management made a small show within the show by sitting down at a piece of equipment.**



**Portafill is one of the European manufacturers who are attracted by North America's lucrative markets.**

soil, compost, wood, landfill waste, and light rubble. The machine features a changeable drum to screen different materials and sizes, folding wing and product conveyors, and adjustable brushes for self-cleaning drum action.







# DUST SUPPRESSION

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# Lofty Results in Mile-High Demo

*Demolition attachments raze former rubber*

**Demolition contractors work hard to establish themselves as experts in their field and are often sought for their particular area of expertise. The need for a company with a proven level of high-reach demolition experience was apparent when the time came to bring down a massive decommissioned rubber plant in south Denver, Colorado.**

Englewood, Colo.-based Colorado Cleanup Corporation (CCC), armed with that expertise, Genesis demolition attachments, and high-reach excavators was awarded the job. CCC is expected to complete the challenging project safely and well ahead of schedule.

## Glory Days Gone

The Gates Rubber Company plant used to employ more than 6,000 people in round-the-clock industrial tire, belt, and hose manufacturing. After Gates diversified in the late 1990s, however, the plant was idled and slated for demolition, according to John Allen, operations manager for Misers Abatement Services, the general contractor.

"Our involvement with this complex stretches back to the early 1990s when Gates started expanding elsewhere," Allen says. "There were actually a number of buildings, and a lot of the machinery, piping and mechanical systems were old and wrapped in asbestos. When something broke, abatement was required before repairs could be made, so I had four full-time people here. We developed a solid relationship with Gates and took on additional areas of responsibility, which led to Misers being selected for demolition of the main manufacturing plant."

Demolition of the main structure started in November 2013 with the removal and decommissioning of eight underground storage tanks. A 300,000 ft<sup>2</sup> (27,871m<sup>2</sup>) structure was leveled

next, followed by the centerpiece of the job, Unit 10, the main manufacturing plant.

## When Bigger Was Better

With a large part of the factory standing over 60 ft (18.3m) tall not including rooftop-mounted structures and machinery, and at more than one million square feet, the Unit 10 demo is a formidable undertaking. As impressive as those numbers might be, however, they don't present the whole picture of the job's complexity. According to Chris Formanek, CCC's senior estimator and project manager, the volume and heartiness of some of the concrete they've encountered has surprised even them.

"In addition to 8-inch [203mm] thick slabs on each level, there is a total of 426 columns ranging from 18 to 36 inches [457 to 914mm] in diameter, each of which flares out to a much larger belled bottom," he says. "If a little is good, a lot is better" seemed to be the prevailing thought when this complex was built. They didn't have the engineering or post-tensioning technology we have today. And since concrete was so much cheaper then, they just poured more of it into everything they built. While it was great for them, it's definitely put our equipment to the test."

That equipment list includes, in addition to standard buckets and thumbs, a Genesis GDR 200 and a GDR 300 Demolition Recycler, two Genesis LXP® 500 Logix Processors, and a Genesis GXP 200 Mobile Shear. Excavators include several Hitachi Zaxis 400s, 450s, and 500s. Two of which are equipped with long-reach front ends and demolition packages from Jewell Attachments.

"Since taller structures are a regular part of what we do, we've carried a Hitachi 400 with 85 feet [26m] of reach in our fleet for some time," says Formanek. However, when we finalized plans for the Gates Rubber plant contract, we purchased the Hitachi 500, which we knew could take a larger attachment. We wanted to be able to handle anything that came our way, and we feel we now have that."

## Production By the Bay

The Unit 10 facility is essentially divided into a series of contiguous segments, each measuring about 500 sq. ft. [45.5m<sup>2</sup>] and formed with columns at each corner. Formanek says the attachments, particularly the pair of GDRs on the high-reach machines, have allowed them to maintain steady rates of production, despite the heartiness of the columns.

"On some projects, production is calculated in terms of square footage," he says. "Here, we tend to look at how many bays we can get down in a given period, with a bay consisting of all four levels of the individual segments. We've been regularly getting four to six bays a day down and processed, but we've done as many as ten in a single day. While the LXP® multi-processors have done a great job for us especially in the downsizing effort, the GDR 200



# Demolition

## Rubber plant

and GDR 300 concrete processors have definitely been the tools of choice for my operators. They love the speed and power and have only been limited by available processing area once the material is on the ground." Formanek also says the GDR's standard 360-degree rotation has proven itself time and again at the Gates Rubber site.

"The ability to position the GDR just where it is needed to grab and crush each column has been invaluable for my guys," he says. "Once the concrete for each column is crushed, the blade in the GDR's throat can be used to cut the rebar, sending all the debris to the ground."

### Challenged From Above

The roof-mounted structures on Unit 10 and other buildings have added to the overall high-reach demo challenge. CCC's supervisor, Luke Andrews, says the nature in which many of those were mounted prompted them to get creative in bringing them down.

"Many of the rooftop units, such as a cooling tower we recently encountered, were installed in a unique way," he says. "They're not necessarily anchored to the columns, but rather, are framed together at the bottom using I-beams. In a sense, it's a huge sled that wants to come down as one piece. So we first clear an area about five bays wide at grade, remove the bay in front of it just to get it angling downward, and then slowly pull it down the building."

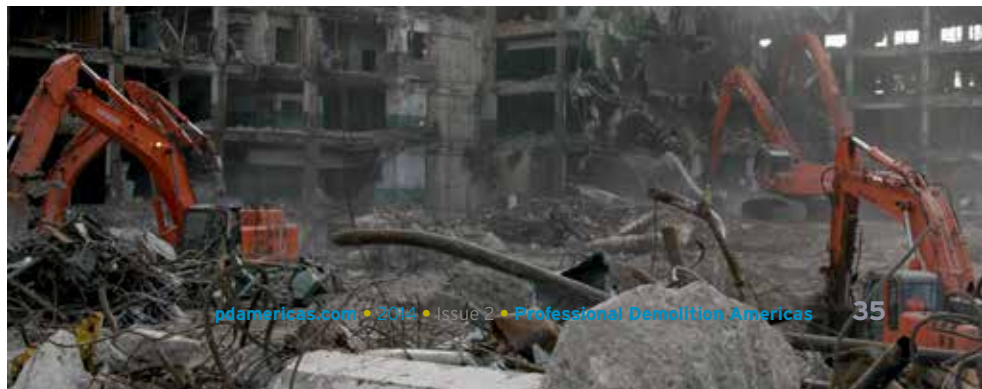
As the structure makes its way downward, he adds, they use the attachments to start removing larger pieces from it. Once on the ground, they use either the LXP® 500 or the Genesis XP shear to get it down to size.

"Having the right tools makes all the difference," says Andrews. "Equipped as we are, we can get something like that cooling tower down, processed and ready to go on a truck in probably 45 minutes. The same holds true for the concrete portions of this job. The GDR with the pulverizer jaw has just been outstanding. It will basically do the same job as a cracker jaw, but at the same time we can pick up steel or sort with it. For a good all-around tool the GDR with pulverizer jaws has definitely been the way to go."

### "Concrete Eating Monster"

By project's end, even with leaving the slabs and foundations untouched at the owner's request, Formanek estimates they will have removed more than 65,000 yd<sup>2</sup> (54,348m<sup>2</sup>) of concrete and 4,000 tons of steel. The job, he says, could not be going any better, and he attributes a good part of that to their equipment.

"The GDR in particular is just a concrete eating monster and a large part of the reason we should be done well in advance of the scheduled deadline. In addition, because of our additional purchases for this project, we are now better outfitted to tackle more jobs of this scale. It's a win-win in so many ways."



# "ALL FOR THE LOVE OF TREES"



## Contractor Performs Cutting and Removal of Massive Structural Concrete at Chicago's Iconic Navy Pier

By Don Collier

In 1916, Municipal Pier in Chicago, Ill., was the first in the United States to combine the business of shipping along with entertainment. Municipal Pier was re-named to Navy Pier in 1927 as a tribute to the United States Navy personnel who served in WWI.

### A historic public landmark

Currently, Navy Pier is considered one of the most historic and popular landmarks Chicago has to offer. In June of 2011, Navy Pier, Inc., was established as a not-for-profit corporation to maintain Navy Pier as a historic public landmark, and oversee its redevelopment. Navy Pier, Inc., issued The Centennial Vision as a framework for reimagining Navy Pier as it approaches its centennial anniversary in 2016. The Centennial Vision shows the redevelopment of Navy Pier to be converted into a bolder, greener, and more contemporary urban space to elevate the pier as a world-class attraction. The redevelopment project has one very intricate task of cutting out and removing 56 sections of massive structural concrete slabs and beams directly over Lake Michigan. These concrete openings are being created for the installation of new recessed steel and concrete tree pits that range in overall size between 17x16 ft (5.2x4.9 m) and as large as 17x28 ft (5.2x8.5 m). Alliance Concrete Sawing & Drilling located in East Dundee, Illinois was called upon by Madison Evans (JV) because of its more than 50 years of combined experience in demolition, concrete sawing, and robotic demolition. Alliance worked closely



with Madison Evans to create, maintain, and beat a very aggressive schedule.

### Cutting and Removal

The cutting and removal sequences had to be carefully thought out in order to not disrupt the integrity of the existing structure as well as not exceeding the crane's capacity. Alliance excels in this process by meticulously dissecting original drawings of the structure, calculating weights, and developing a detailed step-by-step process of cutting procedures and methods. All precutting was completed full depth between existing structural beams prior to installing anchors to insure a smooth working surface for slab saws. After precuts had been made, drilling and setting 1-in (25.4m) Hilti HIT-HY 200-R epoxy anchors for rigging points was completed. Alliance's 50-ton rough terrain crane was utilized to hoist the large masses of concrete that weighed an excess of 35,000 lbs (15,876kg) per piece. Four different custom-built wire saws and a Diamond Products CC110 deep-cut slab saw with a 72-in (1,828mm) blade were used to cut thru the 31-in (787.4m) railroad track embedded slabs and 34-in concrete beams.

### Protection

Working above Lake Michigan, saw cutting and hoisting out concrete structures can be a daunting task when taking into consideration the fluctuating water levels and tides. Alliance took it upon itself to fabricate and build three pontoons to catch any chips of concrete and slurry from getting into the water. All pontoons were ingeniously created to be able to move between the existing column spacing and fit under the pier structure, with enough room to attach heavy reinforced plastic to the underside of the concrete deck. Getting the pontoons into place during the cold months was difficult because of the large amount of ice that formed on the lake. Six Kasco .75-hp (.55kW) heaters were strategically placed in the water and operated 24 hours a day to prevent ice from forming and ensure mobility of the pontoons to the work areas.

Once the pontoons were set in place and moored off, Diteq's slurry dry concrete gelling agent was spread out and dispersed on the pontoon platforms. Once slurry from the cuts landed on the pontoon, the Diteq slurry agent worked perfectly to turn the concrete slurry into a

gel substance that could be shoveled up for easy clean up and also insured no lake contamination.

### Timeline, weather, and safety

Completing a concrete saw cutting project of this nature is complicated. But when you factor that the 2013-14 Chicago winter ranked as the third snowiest on record, and the coldest winter in 30 years, the challenge becomes nearly impossible for most companies. Alliance took these conditions in stride, and came up with more ingenious ways to keep on schedule and push through the inclement weather for the three months they were on site. Electrically heated water hose kept the water leading up to the area where the saw cutting was being performed from freezing. Alliance fabricated and erected two of its own 32x24 ft (9.7x7.3m) heated work area enclosures so that work could continue in all types of weather. These enclosures were built out of heavy gauge metal studs and reinforced poly fabric. The enclosures were designed and erected with lifting points so that the crane could quickly pick up the entire enclosure and move it to the next opening. Alliance also developed an ingenious vinyl retractable roof system that could be pulled back quickly for crane picks and closed back up quickly to maintain heat.

In all, more than 1,316 tons of structural concrete was saw cut and hoisted out, trucked away, and recycled. Alliance completed the Navy Pier project ahead of schedule, and with a perfect safety record.



# New Compact Track Loaders from Volvo

The MCT125C compact track loaders are part of the new compact tracked loader range from Volvo, providing customers with new ways to conquer more applications. Volvo tracked machines deliver greater stability and traction, even in the worst of terrain.

This makes each model ideal for construction, material handling, landscaping, and municipal work. With the ability to use a wide range of attachments, such as buckets, pallet forks, dozer blades, rakes, and much

more, the versatility of Volvo compact track loaders provides more opportunity for year-round profitability.

The MCT125C compact track loaders include a side-access cab for improved safety. There's also no need for the operator to perform an uncomfortable body turn in order to sit down. And the cab itself has been



redesigned to be more spacious, offering 27 percent more interior space over previous Volvo models. The cab's ergonomic comfort assures prolonged operator productivity and safety. The single tower loader arm design, with no horizontal cross member, provides all-around, class-leading visibility—critical when operating in tight areas. Other features include a large top window and narrow ROPS cab pillars. This design delivers the loading performance and durability of a traditional design, along with the inherent benefits of a side-entry, low tower design. Users also have easy and safe access to all service and maintenance areas.

# HTC Releases HTC Greyline - Simple and Easy to Use



HTC, Inc. has released the new and improved HTC Greyline™, a cost-effective line of simple and easy-to-use floor grinding equipment, diamond tooling, and accessories for contractors and do-it-yourselfers.

"Greyline is extremely versatile and simple to operate," says Clif Rawlings,

Product Manager and Training Coordinator at HTC, Inc. "Rental companies can really benefit from having Greyline in their rental fleet, as it can replace up to three other machines. It is also very light and can easily be transported."

HTC Greyline™ is perfect for floor preparation, coatings removal, concrete grinding, concrete leveling, and wood refinishing. The series consists of floor grinders, dust extractors, a pre-separator, diamond tooling, and an edge kit. All HTC Greyline™ equipment operates on single phase 230v or 110v power making it easy to find a power source. The equipment line has been electrically enhanced to work on a broader range of power including Ground Fault Circuit Indicators (GFCI) outlets.

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



# Husqvarna Construction Products Launches DC 6000 Dust Collector

Husqvarna further strengthens its position within the floor preparation segment with the DC 6000 Dust Collector. The dust management system has an advanced cyclone technology for constant high air flow and high productivity while leaving less dust on the floor. Replacing Husqvarna's DC 5500 vacuum cleaner with a traditional two-filter system, the 7.8-hp (5.75kW) DC 6000 matches the company's highly productive PG 870 and PG 680 dual-drive grinding machines. The centrifugal force generated by the DC 6000's patented double-shell cyclone technology separates 95 percent of the dust from the intake air. The dust is then collected in a durable Longopac® system that allows fast, drop-down, dust-free disposal into individually sealed plastic bags. The air continues into the filter cylinder, where the remaining dust is captured. Compressed air always keeps the filter clean and effective. The purging cycle is computerized for optimum filter cleaning, which results in a productive dust collector with no lost in suction over time. The DC 6000 has a HEPA 13 filter rating, an increas-

ingly common job-site requirement. For easy transport, the 639-lb (290kg) machine can also be lowered 11 in (28cm) to fit onto vehicles.



ingly common job-site requirement. For easy transport, the 639-lb (290kg) machine can also be lowered 11 in (28cm) to fit onto vehicles.



# INCREMENTAL EXCELLENCE

There's always something new in the world of demolition breakers.

But while bigger is often better, small improvements often prove to be equally noteworthy. PDA's Jim Parsons reports.

The legendary American basketball coach John Wooden was always a stickler for details in preparing teams for games because, as he put it, "little things make big things happen."

## Jobsite performance is one of the facets for evaluating breakers

Demolition contractors are no stranger to this principle. When they can quickly and efficiently break large pieces of concrete, rock, or other substantial material into smaller pieces, that means big results for their firms—they are more productive, more profitable, and more likely to be hired for other jobs. That's why advancements in breakers, and related tools such as shears, are so keenly anticipated by contractors of all sizes and specialties. Tackling jobs with equipment deemed "good enough" is not longer a viable business model, given the growing expectation of among customers for high-quality work at a low price. Nor is reputation for past work enough to keep customers coming back, particularly when acquiring advanced pieces of equipment can instantly turn an upstart company into a formidable competitor.

Savvy contractors know also that jobsite performance is but one facet for evaluating breakers. There are also issues of servicing and maintenance, durability and reliability over the long-term, ease of interface with various carriers, and manufacturer support in the event of problems. The good news is that breaker manufacturers recognize these needs. That's why they continually look for ways to upgrade products to make them more relevant to the contractors' business and operational environments. Mind you, the improvements aren't always radical or revolutionary. Sometimes, it's a so-called "tweak" that lengthens component life or provides a few more Joules of energy per impact.

The best manufacturers are nevertheless cognizant that improvements in their processes and practices can make a good product better, even if the specs remain basically unchanged. Prospective buyers would be well-advised not to dismiss seemingly small improvements, nor simply wait for something "bigger" to happen. The cost of a new breaker pales against the cost of lost by simply sitting back and waiting. And if that's not enough, consider that John Wooden's college teams won 10 national championships over a 12-year span, and his philosophy has been adopted and emulated by countless other coaches, as well business and social leaders.

## Not a bad legacy for all those "little things."

### Three new additions to JCB's Hammermaster line

The recent addition of three new hydraulic breakers—the HM1770, HM2470, and HM3070 models—has completed the update of JCB's Hammermaster range. The new models replace existing products, and completes the integration of the latest efficiency and productivity developments across JCB's entire 14-strong Hammermaster lineup.

The new additions extend the Hammermaster Heavyline range to six updated models, joining the already improved HM870, HM1270, and HM1570. The breakers are smooth and precise in operation while delivering massive impact energy. Productivity and efficiency are maximised with an internal control valve increasing blow frequency in hard applications. JCB Heavyline Hammermasters are packed with standard features. JCB Autogrease ensures that the breaker is correctly greased to give smoother action and extended bush life, while a dust wiper system prevents dirt ingress. The new range of JCB Heavyline breakers are silenced as standard, and operate up to 5dBA quieter than previous models. Similarly, the new models in the Midrange Hammermaster line—the HM166, HM266, HM386, and HM496—feature greatly improved efficiency and productivity compared with their predecessors. The models offer considerable benefits over traditional breakers with a single-piece solid body that is highly durable. The new breakers feature long floating bottom bushes for easy replacement, and large-diameter tools to greatly improve the wear characteristics while transferring the blow energy for maximum productivity. Twin oval tool retainers locate the tool securely and offer long wear life.



Then there's JCB's Compact Hammermasters—the HM100/Q, HM115, and HM140. All feature a sealed-for-life accumulator, and require recharging only during a full rebuild service. This, together with a grease retention seal in the lower tool bush, ensures longer life and smooth operation. JCB Compact Hammermasters come with full-length side plates giving full protection against accidental damage. All JCB breakers are supplied ready to fit with a complete package of appropriate tools, hoses, couplings, grease gun, and grease.

### Dehaco presents all-new IBEX hydraulic breaker series

The IBEX breakers of Dehaco are a result of years of refinement and field experience. The advanced hydraulic circuit provides increased flow to the valve and piston, resulting in faster cycle times, increased rod penetration, and more productivity than the company's previous models. Other features include a minimum of moving parts to reduce maintenance costs and downtime, an adjustable valve for optimal working conditions, high reliability, and a longer lifetime due to the use of high quality materials.



### Silence and style punctuates Ramtec's updated MH range

Robi of Finland has updated its MH range of hammers, with new silenced models joining the existing line of side plate models. Inside, all parts remain the same across the entire range, as MH hammers are known for their reliability and power. What's more, the City models in the updated MH line feature a modern, stylish appearance, making them as attractive to look at as they are for residents and workers to "live with."

## Montabert to replace Tramac brand in North America

Montabert has announced plans to further extend its brand into North America and replace the Tramac brand name on select products. The rebranded products will include hydraulic breakers, plate compactors, drilling attachments, and pneumatic equipment—all most recently branded “Tramac by Montabert,” which the French attachment manufacturer has been using to establish a North American Montabert brand presence. The Montabert name will now be used worldwide, as the rebranding transition culminated with a heightened promotion of rebranded products at the CONEXPO/CON-AGG trade show in Las Vegas this past March.

“In many ways, this represents a brand extension opposed to a brand transition,” says Stephane Giroudon, business manager for Montabert North America. “We have developed an aggressive integrated marketing communications plan to address the brand’s underlying value proposition, including its long history of innovation and technological leadership, as well as its experience in providing customers across the globe with superior equipment solutions. We are confident that our efforts will help Montabert garner the brand recognition it deserves in the United States.”

As a result of the impending brand transition, existing “Tramac by Montabert” customers and dealers will benefit from direct connection to and communication with the Montabert factory in addition to a heightened level of product support and service.

Important to note, all Tramac by Montabert products will retain the iconic green color that has come to symbolize the global attachment manufacturer that first invented the hydraulic breaker in 1964.

## Montabert 501 NG hydraulic breaker provides operators with greater power-to-weight ratio

In 1969, the legendary Montabert BRH 501 hydraulic breaker revolutionized jobsites worldwide, largely



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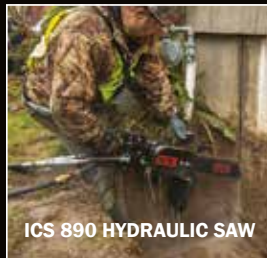
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displacing popular air compressed demolition tools of the era. Today, the French attachment manufacturer presents the all-new, redesigned Montabert 501 Next Generation (501 NG) hydraulic breaker to commemorate its invention of the first fully hydraulic concrete breaker more than 45 years ago. Despite undergoing a 30 percent reduction in overall weight, the 1,609 lb (730kg) 501 NG hydraulic breaker is 75 percent more powerful than its predecessor, providing construction and demolition contractors with a superior power-to-weight ratio.

Designed for use with backhoe loaders and excavators weighing between 8.5t and 19.5t, the all-purpose hydraulic breaker delivers up to 870 blows per minute, demolishing oversized boulders and thick concrete with ease. The 501 NG falls within the 1,991 lbf (2,700J) impact energy class, and requires a hydraulic flow rate of between 21 and 37 gallons (79 and 140 litres) per minute. Standard performance-improving features include an energy recovery system that captures and recycles recoil energy from the piston to increase strike

power and a blank-fire protection system that reduces harmful metal-to-metal contact. In addition, the 501 NG hydraulic breaker’s upper and lower suspension system extends the carrier’s work-group life by absorbing harmful vibrations and stress waves. Optional features include an air pressurization kit for underwater applications, as well as an automatic, cradle-mounted grease station that delivers continuous oil flow, reducing bushing and tool wear.

In comparison to hydraulic breakers of similar size, the 501 NG requires minimal maintenance activity, increasing operator productivity. The breaker’s simple design, characterized by fewer wear parts and no tie rods, enables operators to more efficiently complete routine maintenance on-site and with standard tools, including the replacement of the breaker’s bushing. An enclosed heavy-duty housing unit further protects working parts from debris damage, while reducing noise levels on the jobsite. The Montabert 501 NG hydraulic breaker is covered by a limited one-year warranty. Working tools include a general purpose moil, a blunt tool, and a chisel.



### Promove's XP4500 sets a new standard for "high quality" demolition equipment

The XP4500 hydraulic breaker from Italian manufacturer Promove represents the perfect combination of high breaking performance, outstanding reliability, low maintenance requirements, and fast support to customers. Furthermore, thanks to accurate studies of the breaker's hydraulic efficiency, the XP4500 requires less oil flow than any other competitor product in its class, finally resulting in less fuel consumption and a lower cost-per-cubic meter.

The XP4500 also features the market's lowest noise and vibration levels. In fact, operators who previously used comparable breakers from other manufacturers wondered about unexpected smooth functioning. The nitrogen chamber over the head of the piston absorbs excess of vibrations returning energy to the percussion. Also, the power unit is completely insulated from the outside casing via a series of heavy-duty polyurethane dumping elements. As a result, operator and carrier benefit from comfortable operation and substantially reduced risk of damages from excessive vibrations. In addition, the XP4500 includes all the features buyers have come to expect from Promove's XP range of hammers, including the combined gas-and-oil working principle, blank-firing prevention system, auto-greasing pump, adjustable frequency/energy, a full "square-section" percussion body with tie-rods completely encased for extra-long life and reduced risk of damages in the case of breakage, and high back pressure when needed. Quarrying is one of the main applications where Promove's hammers show their best features. Recently, an XP4500 was delivered to a marble quarry in Southern Italy and installed on a Volvo EC460 B excavator. The breaker's primary jobs were to break rock to expose the good blocks that will be then cut by saw,

and break "oversizes"—reducing volume of big rock to be processed into a mobile crusher to obtain aggregates as a secondary product from the extraction activity.

The XP4500 was also used to break unstable rock on vertical walls to eliminate a common safety hazard found in quarries. This kind of use is similar to the excavation in tunneling, where the hammer is often used in horizontal position to break on the frontline and advance the face of the tunnel, or upside down to "clean" the ceiling. Although critical for all hammers due to the ease of penetration of dust and rock splinters into the percussion chamber, the XP4500 proved to be extremely reliable even in these extremely severe applications, continuing to work non-stop for hundreds of hours without need of extra-ordinary service.

### TABE breakers feature innovation and reliability

TABE of Vitoria, Spain has a deeply rooted culture of quality practices and processes, from design through manufacturing and delivery. The company takes the utmost care in selecting materials and configurations for its products, ensuring that they provide perfect, long-lasting operation from the moment a customer begins using it. TABE hydraulic breakers are characterised by their power and design, and are internationally renowned for their advanced technology. For example, TABE medium and heavy-range breakers are the only ones in the world that do not require tie rods. All products also offer minimal maintenance and an automatic stop system for enhanced worker safety.

### New handheld breakers from Chicago Pneumatic

Chicago Pneumatic Construction Equipment introduces two brand new handheld breakers to the North American market—the CP1260 and CP 1290. The new breakers offer the same quality and versatility as previous pneumatic breaker models, but with updated features, more power, and a sleek, ergonomic look. Known globally for their high-impact technology and durability, many of the same value-adding features of the CP 1230 and CP 1240 were rolled into the CP 1260 and CP 1290, respectively. Offering a variety of sizes, there is a CP pneumatic breaker option for every application.

At approximately 26.8 in (680mm) long, and an operating weight of 63 lb (28.6kg), the CP 1260 is compact



enough to transport to any job site easily. Delivering 1,300 powerful blows per minute, it is also powerful enough to handle a number of medium to heavy-duty applications. The CP 1290 weighs in at 81 lb (36.7kg) and has a length of 28.7 in (730mm), making this a powerful tool for its compact size. The CP 1290 delivers 1,100 blows per minute. The most powerful of the CP handheld line, the 1290 is ideal for heavy-duty demolition work. Both new breakers incorporated a number of features new to Chicago Pneumatics' handheld line, including ergonomically designed handles to reduce operator fatigue, a streamlined, flatter profile for improved operator visibility, and new durable polyurethane front head springs that reduce wear and extend the life of the breaker and its internal components.

Another key feature of the CP 1260 and CP 1290 breakers is that many of the components are compatible with previous generations of pneumatic breakers, so that if a problem should arise with the new equipment, repairs can be made quickly and easily. Also new to North America is Chicago Pneumatic's Red Hawk Road gas-powered breaker. The only gas-powered breaker in the Chicago Pneumatic breaker line-up, Red Hawk Road features a powerful breaking force, easy portability, minimum vibration and maximum production all in one tool, ideal for general construction, demolition, and road-building applications. Offering the same power-to-weight ratio as pneumatic or hydraulic breakers without any power source or hoses, the Red Hawk Road delivers a powerful breaking force of 44 lbf (60J). With a light weight of 55 lb (25kg), the breaker has a full speed impact rate of 1,440 blows per minute, and operates with a guaranteed sound power level of 109 dBA.

The hand-arm vibration value of the Red Hawk is 4.3m/s<sup>2</sup>, and allows 50 percent longer work time with a one cylinder, two-stroke engine. Measuring at 11.7 in (297mm), with a width across the handles of 24 in (609mm), the Red Hawk Road minimizes vibration reducing the impact on operators while increasing productivity.

Featuring a fan-driven cooling system, the Red Hawk Road has a recoil starter with a decompression valve, a redesigned tank cap, and electronic ignition for easy start-up in any type of weather.







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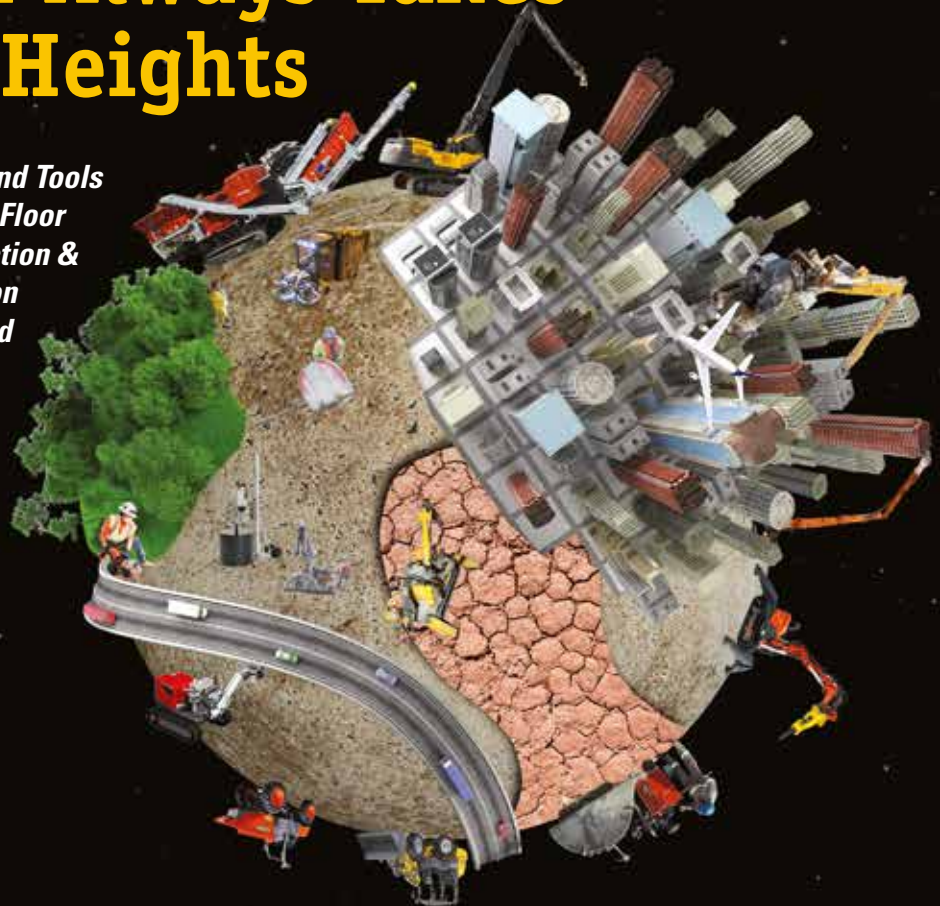
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# Tracing A "Superabrasive" One Floor at a Time

**Equipment and diamond tool manufacturer Superabrasive has spanned miles, history, and markets to become a leader in the burgeoning U.S. concrete floor industry.**



**CEO George Popov (left) and now-retired President George Georgiev, spurred the growth of Superabrasive after the company was privatized in 1992.**



Geography isn't everybody's forte, so it's understandable if few people outside Europe can readily locate the small country of Bulgaria on a map. But there are few such identity issues when it comes to what may well be Bulgaria's most valuable contribution to the U.S. concrete surface prep industry—Superabrasive diamond tools and equipment.

### In the days of the Iron Curtain

While Superabrasive makes products for several industries, the flagship LAVINA® concrete line has in just 10 years become the company's largest division and its top revenue generator. LAVINA® products can be found on projects large and small, from high-end residential jobs to large industrial plants and "big box" retail stores such as JCPenny, WalMart, Sam's Club, and Pet Smart. Architects for these facilities regularly specify the use of LAVINA® machines as well. Superabrasive's recent success is the result of a lot of hard work, according to CEO George Popov who, with now-retired President George Georgiev, were



**Superabrasive's factory in Krun, Bulgaria (above), and their headquarters in Georgia, USA (below).**



**Mark Elliott, Superabrasive's Concrete Products Sales Manager, and company President Nikolay Nikolaev.**

the company's primary drivers, continually researching and experimenting on ways to improve and enhance products. And the challenge has become no easier.

"As the market is getting more and more competitive, we have to continue offering some of the best products on the market that are meeting even better our customers' needs," Popov says. "And in order to do that, as a manufacturer, we have to continually fine-tune our existing products by testing and implementing new technological solutions. That is why R&D is so important to the company."

Superabrasive's story goes back to the days of the so-called "Iron Curtain" that separated communist Eastern Europe from western democracies. In 1987, the company's factory in the small village of Krun received the first license granted to a non-Soviet Union owned manufacturer to synthesize diamond powder for use in products designed for military applications.

The rigorous specifications imposed for such products helped instill in the factory's culture a meticulous approach to

the process of synthesizing, sifting, sorting, and classifying diamond powder. The result were products that consistently met the highest standards of quality. The fall of Bulgaria's



# " Success Story, at the Time

communist system in 1989 brought both opportunity and challenges to the company. The loss of the lucrative military market put the Krun factory in direct competition with other industrial operations trying to eke out new markets in the Eastern Europe's newly formed, yet still struggling domestic and regional economies.

## The turning point

Superabrasive's turning point came in 1992, when Bulgaria's government allowed the factory to be privatized. Led by Popov, the new management set its sights on Michigan, with the hope of supplying Bulgarian-made abrasive products to the "Big Three" automobile companies. The company's arrival was well-timed, as new opportunities were emerging in other U.S. industries. Superabrasive was soon manufacturing lens-roughing, polishing, and finishing diamond wheels for optical labs.

But the greatest demand for Superabrasive products at the time would prove to be tools for stone restoration and fabrication—so much so that the company moved its headquarters to the Southeastern U.S. in 2002 in order to be closer to its major distributor accounts. In 2007, Superabrasive moved to a 46,000ft<sup>2</sup> (4,274m<sup>2</sup>) state-of-the-art administrative and warehouse building in Hoschton, Ga., which remains the company's U.S. headquarters."

Though Superabrasive remains active in the optical, stone, and janitorial industries, it's the concrete side that has done the most to fuel the company's growth, due in large part to the explosion of interest in polished concrete floors in the U.S. Superabrasive is now represented by leading distributors, such as Advanced Diamond Tools, Braxton-Bragg, Concrete Polishing Headquarters, Gran Quartz, and Niagara Machine.

Superabrasive's factory in Krun has benefitted as well. The facility has added both capacity and staff several times during the last few years to meet the demand for LAVINA and other products. Nearly 250 people now work at the factory, which has been enlarged to 210,000ft<sup>2</sup> (19,510m<sup>2</sup>)

## A look at Lavina

The evolution of the LAVINA® line is likewise one of continuous improvement. Launched in 2004, The first-generation machines were free planetary, offered in several basic models, and painted in a unique green color. Though these machines have proven themselves by continuing to provide many contractors with



superb, trouble-free operation, Superabrasive has updated the line with the Pro series and, most recently, the S series, both of which loaded with new features for improved productivity and efficiency. The 25-model LAVINA® S line are forced belt-driven planetary machines, with a clog-free water spraying system and innovative U-joint technology—an additional axis that allows the machine to float over the floor, reaching both high and low points. Other upgrades include security plates, upgraded belt system, reinforced pulleys, upgraded belt system, and cast. The S

**Lavina 30G Pro machines polish floors at a 91,000ft<sup>2</sup> (8,454m<sup>2</sup>) industrial facility in Ft. Worth, Texas. (photo via Prep and Polish Consultants LLC)**





at top priority, there is never a need to slow or halt workflow for filter cleaning," notes Nikolaev.

Another unique aspect of Superabrasive is that it is among the few companies manufacturing both the machines and the diamond tools itself. "Our tools cover nearly any floor application – coating removal, grinding, polishing, maintenance, edge work—the list goes on and on," Nikolaev says. Some of the most popular tool brands are Nato®, V-Harr® polishing pads, T-Bone®, ShinePro® and QuickChange.

Superabrasive is looking to grow its share in the floor maintenance market as well. Following the 2013 introduction of ShinePro®, the new line of diamond-impregnated pads for floor maintenance, the company showcased the first LAVINA® burnishers at this year's World of Concrete—the 36in (914mm) LB36G-S propane model, and the 21in (533mm) LB21 electric model. The burnishers feature flexible head design and optimal pad pressure, superior dust collection and durable design, and offer high productivity and easy operation.

### The cycle continues

While the surging concrete flooring market shows no sign of slowing down, there's little question that it is maturing into one requiring a more professional approach among contractors.

"There has been a lot of talk lately that gloss alone is not always a good criterion for the floor polish," Nikolaev says. "We are excited to see the industry coming together to set new standards and improve existing concrete polishing practices."

At the same time, Nikolaev adds, "this trend further emphasizes the need for proper training of contractors and machine operators to ensure the job is done right, the first time."

Mark Elliott, Superabrasive's Concrete Products Sales Manager, and a veteran of the concrete industry points to another key trend among contractors—"systemizing processes in order to deliver consistent results on different projects, and be less sensitive to employee turnover."

To address this need, Superabrasive recently added two LAVINA® self-propelled machines —a 25in, 15hp (635mm, 11kW) model and a 32in, 20hp (813mm, 15kW) model. "The main benefit of these new models for the operators is the ability to maintain their own moving speed and eliminate the risks associated with inconsistent speed, due to operators' fatigue or inexperience," says Elliott. "The machines deliver exceptional grinding and polishing results and we were really excited to show that at this year's World of Concrete Architectural Praxis event."

And while the U.S. figures to be Superabrasive's top market for some time to come, the company is expanding its horizons around the world.

"We are also expanding in South America, where polished concrete is gaining popularity," Nikolaev says. "The main challenge in there, however, remains the high level of import duties and taxes, particularly in Brazil."

Elsewhere, Superabrasive's market shares have been growing in Australia and New Zealand, while Dubai and Saudi Arabia are showing interest for LAVINA® products. And coming full circle from its origins, Superabrasive is setting up more distributors in Europe in anticipation of significant growth over the next five years.

"When the communist system in Bulgaria fell in 1989, Superabrasive lost all of its business," Popov says. "It had to start from scratch and adapt extremely quickly from having guaranteed sales as part of the planned communist economy to developing products that are relevant to the customer's needs and penetrating new markets."

Since then, the company has grown continually by doing what it always has—identifying new business opportunities, and adapting constantly to the changing existing markets.

"We are extremely grateful to all of our customers for giving us the opportunity to continue innovating and creating machines and tools that make them also more successful in their businesses," Popov adds.



**In Van Wert, Ohio, Dancer Concrete Design used just one LAVINA® 32 machine to help transform an 8,000ft<sup>2</sup> (743m<sup>2</sup>) National Guard Armory into the Wasenberg Art Center, a vibrant art center for the region. (Photo by Nick Dancer, Dancer Concrete).**



line models range from 16in to 32in (406mm to 813mm), with the 25in and 30in (635mm and 762mm) models available in both electric and propane versions. also includes 7in and 13in (178mm and 330mm) edgers

Superabrasive has also introduced new self-propelled models—L25M-S, L25LM-S, and L32M-S—and remote-controlled models. The original L32R-S was joined at World of Concrete this year by the new 38in (965mm) L38G-R-S propane model.

Nikolay Nikolaev, Superabrasive's current president, notes that there's more to concrete surface preparation than just the grinder/polishers, which is why the company augmented the LAVINA® brand with a new fleet of commercial vacuums last year.

"The most notable feature of the LAVINA® vacuum line is its unique pneumatic jet filter cleaning system—a fully automatic, hands-free system that utilizes a compressor for continuous filter cleaning during use," says Nikolaev. "This system is available on the larger V-25L and V-32 models."

The other models in the LAVINA® vacuum line are tailored for smaller jobs. They feature an upgraded manual cleaning brush system that allows operators to efficiently clean filters during use with one quick turn of a handle. "With efficiency



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# on the Cutting Edge of C

**ICS Blount continues to add new dimensions to technology it helped create. PDA's Jim Parsons reports.**



**Terry Martin is now a member of ICS's leadership team**



**Bob Engel, ICS's Director of Marketing.**

The roar of demonstration saws that typically echo through the aisles of the World of Concrete show was augmented with a different kind of buzz this year—the announcement that Blount International's ICS diamond chain and concrete saw division had become the exclusive distributor of Pentruder concrete cutting systems in the Americas, including their high-cycle electric solutions

### A new dimension

The agreement with Sweden's Tractive AB and previous distributor Pentruder, Inc., immediately added a new dimension to ICS's product offerings, and provided a new, high-profile platform for the already fast-growing high-cycle sawing and coring technology to reach an even broader market.

"We had many current ICS and Pentruder customers stop by our two booths at World of Concrete and comment that this agreement makes obvious sense," recalls Bob Engel, ICS's Director of Marketing, who adds that everyone involved is encouraged by the amount of sales activity experienced in the months following the announcement. "Both brands have established themselves as leaders in quality, performance, and innovation, and the Pentruder line is a perfect fit with the ICS pro line of blades, bits, and diamond chain solutions."

And by combining both companies' direct sales and service expertise in the Americas, Engel adds, "we can add more value to our customers' concrete cutting businesses. It really is an ideal arrangement and promising opportunity for everyone involved, but most importantly, for the people who buy and use our products."

### Innovative beginnings

Providing concrete contractors with the reliable and efficient cutting solutions is not just a tradition at Portland, Oregon-based ICS; it's the very reason the company—and, indeed, its market—exists at all. It was an entrepreneurial employee of Oregon Cutting Systems (OCS), parent company Blount, Inc.'s wood saw manufacturing division, who discovered that the precision grinding qualities of diamond chains made them ideal for construction and demolition applications. That led to ICS patenting and launching its Diamond Chain Technology (DCT™) for cutting concrete in 1990, and the shipment of its first concrete chainsaw two years later. Nearly a quarter-century later, the diamond chainsaw is a mainstream product, with manufacturers around the world vying for customers' attention and investment. Yet despite the ever increasing competition, ICS holds the largest share of the world market with a full line of gas- and hydraulic-powered saws, and a broad range of diamond chain for applications ranging from steel-reinforced concrete to brick and concrete block. All chain products are manufactured at Blount facilities in North America. ICS makes two families of diamond chain in lengths of 10 to 25 inches (254 to 635 mm) engineered for different materials and user preferences. ProForce chain, built on the company's heavy-duty FORCE4® chassis, is designed for frequent professional use. Twin-Max chain is designed for less demanding general construction

and lower-powered saws. Both include ICS's exclusive, patented SealPro® O-ring technology that reduces chain stretch, ensuring that the chain chassis lasts as long as the diamond segments.

In 2013, ICS introduced the ProFORCE™ line of custom-built diamond blades and core bits for the North American market. "This line of products includes blades with varying bonds optimized for materials ranging from cured, green and asphalt, tile and refractory, among others," Engel says. "Offering this line of high-performance blades and bits has enabled us to provide a more complete solution for our professional concrete cutting customers."

Headlining the ICS line of chainsaws is the recently introduced ICS 890 Hydraulic Saw, the company's highest performance chainsaw for concrete, stone and masonry applications.

"We made several important usability and serviceability improvements with the introduction of this new model, focused on the professional user," Engel explains. "Combined with our ProFORCE line of diamond chain, this is the "go-to" product for demanding applications and use models."

The ICS 890's gas-powered counterpart is the ICS 695F4, which also utilizes the heavy-duty FORCE4 chain chassis versions with SealPro® technology.

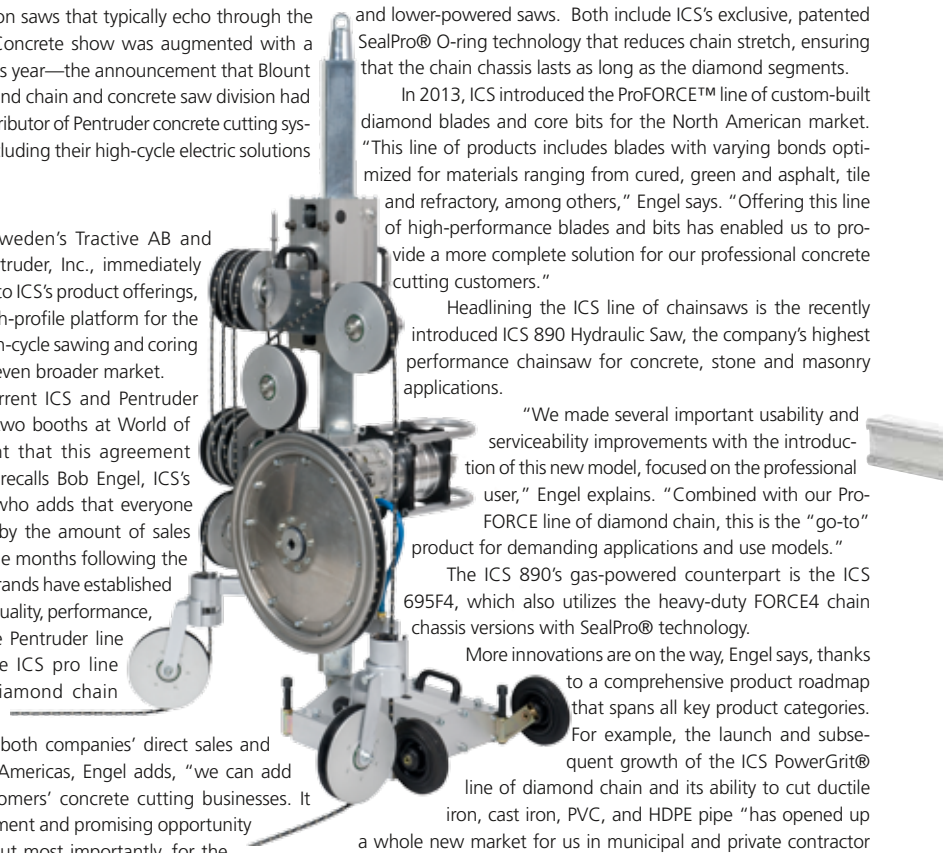
More innovations are on the way, Engel says, thanks to a comprehensive product roadmap that spans all key product categories. For example, the launch and subsequent growth of the ICS PowerGrit® line of diamond chain and its ability to cut ductile iron, cast iron, PVC, and HDPE pipe "has opened up a whole new market for us in municipal and private contractor servicing of water and waste systems," Engel says.

### Sharing the knowledge

Service and support for professional concrete cutters have likewise been a priority for ICS from its inception. Seven full-time sales professionals cover U.S. and Canadian professional contractors who need and expect an extremely high level of service and support. The U.S. accounts for 70 percent of ICS sales, while an international sales and service network covers more than 70 countries, including North, Central, and South America. It's that kind of reach that Engel says will expand the reach of the Pentruder product line more than ever before. And with former Pentruder, Inc., President/Owner Terry Martin now a member of ICS's leadership team, "more customers will understand and benefit from the performance advantages of the Pentruder family, while existing Pentruder users will receive the same high level of service, technical support, and replacement parts availability they've always enjoyed."

Another goal will be to help broaden the professional cutting market's awareness of high-cycle cutting's advantages. These advantages include smaller and lighter weight systems, high efficiency over the whole lifetime of the equipment, less input power required, less sensitivity to input power fluctuations, and avoidance of hydraulic oil.

State-of-the-art Pentruder equipment can achieve higher production rates as well. For example, the MDU Core Drill - NTGRA utilizes a brushless motor that runs on 1-phase or 3-phase power (200-480V) and delivers more power to the spindle than any other



# Concrete Cutting

drill motor. "It effectively combines two or three different drill motor sizes and types in a single core drill," Engel says.

These advantages, plus the industry's overall desire for more environmentally friendly products and technologies, would seem to bode well for high-cycle's future. But what's most important, Engel says, is that professional cutting contractors have the right combination of equipment—electric or hydraulic—and trained operators who know how to use the products safely, effectively, and economically. And ICS is committed to helping them achieve that ideal balance.

"Our direct sales team will enable ICS to continue providing the 'consultative sales' and training/support that will remain an important ingredient for success with both the ICS diamond chainsaw and Pentrunder cutting

comprehensive update on our ICS global websites that will give professional cutters and general contractor users easier access to helpful product, support and application content" It's also essential for the professional cutting industry to position itself for the future, especially with trends pointing to continued growth in non-residential construction, especially in North America and Europe.

"ICS is actively involved with the Concrete Sawing and Drilling Association, and chairs its Training Committee, where we see a continuing need to ensure that this industry is providing the necessary levels of operator training and application knowledge," Engel says. And as those operators gain expertise, they'll benefit from a continually evolving range of ICS and Pentrunder products that will help them take advantage of new business opportunities. "In the coming months, our major areas of focus will continue to be developing the product portfolio for our core concrete cutting and finishing markets, while expanding sales into infrastructure markets like water and waste systems," Engel says. "All of this requires continuing improvements in our marketing and distribution, so that customers understand the advantages of our ICS and Pentrunder solutions and find it easy to buy and get support."

system lines," he says. "In addition, we are about to launch a



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# Brazil's Fast Expansion Interest in Annual C



Plans for Concrete Show South America, to be held this coming August in Sao Paulo, are moving full steam ahead. According to the show's organizers, only 15 percent of exhibition space is still available, as approximately 600 suppliers from across the civil construction production chain have already guaranteed their participation.

Based on current market trends, Concrete Show South America will be most important event in the Latin America this year. For example, Brazil is the prime business and networking opportunity within the leading multi-billion dollar Latin America Market. By 2020 there will be an increase in the number of urban rail and monorail lines in the country.

Further, there are 1,566 projects in progress in Brazil totaling US\$432 billion. By 2020, more than US\$5.5 billion will be used in housing construction.

Business trade shows are one of the most powerful marketing tools for industrial markets. Data from the Center for Sector Research on trade shows indicates

that more than 83 percent of visitors to a business event are classified as influential people in purchases.

Concrete Show's organizers also contend that the cost for gaining a prospect at a commercial trade show can be up to three times less than making personal sales visits. Besides the sales-related functions, commercial trade shows can have vital importance in relation to brand recognition, directed marketing, and networking efforts. For exact updates on exhibiting companies please visit the Concrete Show website, [www.concreteshow.com.br](http://www.concreteshow.com.br). By the way, Professional Demolition Americas (PDA) is a press partner of Concrete Show, and will exhibit and distribute magazines at the show.





# Demolition Fuels Concrete Show

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## The Concrete Show 2014 Floor Plan



## NDA Recognizes Environmental Projects Making Significant "Quality of Life" Impact

The National Demolition Association (NDA) presented the 4th annual Environmental Excellence Awards in February at the association's 41th Annual Convention in Las Vegas. The 13 companies recognized performed demolition projects that demonstrate significant environmental conservation and community improvement.

"The Environmental Excellence Awards recognize NDA member companies which are true leaders in the area of environmental stewardship," said Michael R. Taylor, CAE, Executive Director of the NDA. "Environmental stewardship is one of the demolition industry's primary missions, and these winning projects help illustrate truly dramatic efforts our members have made to make this a reality and improve the quality of life in their communities. By removing abandoned housing, demolishing dilapidated industrial facilities, preparing commercial space for productive reuse, maximizing recycling opportunities, and cleaning up toxic waste sites, demolition companies are making way for fresh vibrant places to grow."

### The winning projects are:

#### Armstrong Industries Ceiling Recycling Program

Armstrong Ceiling Recycling Program is the first of its kind in the ceiling industry. The goal is to reduce the environmental impact of new buildings while they are still on the drawing boards. Armstrong encourages designers to consider everything from product design and raw material selection to how products are manufactured and delivered to the jobsite when weighing their impact on the environment. Since its inception in 1999, the Armstrong Ceiling Recycling Program has recycled more than 123 million square feet of ceiling materials, diverting them from the waste stream.

#### Demolition and remediation of Merck Flint River Plant

Brandenburg, a subcontractor to O'Brien & Gere for the demolition, asbestos abatement and environmental remediation of the former Merck Flint River Plant, handled the demolition and disposal of more than 5,000 tons of hazardous concrete, more than 10,000 gallons (37,854 liters) of affected water, incineration of 200 tons of hazardous sludge, decontamination of all equipment, removal of all underground utilities, demolition of the main wastewater treatment plant, and the crushing of more than 25,000 tons of concrete and asphalt to be used as onsite fill. Brandenburg also removed tons of contaminated block, asphalt, and toxic chemicals, improving the site for future development.

#### Worcester Clock Tower Historic Reuse Costello Dismantling

Costello Dismantling hand-deconstructed

the historic 65-ft (19.8m) clock tower built in 1877 at the former Worcester State Hospital, cataloging each piece so that the tower could be rebuilt in a different location on the site. Each stone in the tower was numbered, photographed, and catalogued for reconstruction as part of the new \$300 million, 300-bed Worcester Recovery Center & Hospital.

#### Dust Control Program for Doyle Drive Removal San Francisco Dust Control Technology

Built in 1936, Doyle Drive is being replaced by the new Presidio Parkway, which will provide dramatic views of the Presidio National Park and San Francisco Bay. With a 57-hour window for project completion, Dust Control Technology developed a comprehensive dust suppression plan using eight large-scale atomized misting machines to prevent all visible dust from the project area. The Doyle Drive project was a model for large-scale, open-area demolition dust control, demonstrating the effectiveness of atomized mist technology.

#### Demolition at Walker Art Center Minneapolis Lloyd's Construction Services Inc.

During the selective demolition of the Walker Art Center, Lloyd's showcased the reuse of materials from the project by Mexican artist Abraham Cruzvillagas, which served as a model on how to effectively find outlets for seemingly unwanted materials so they can be truly appreciated by others. The artwork created not only shed light on both global social and environmental issues, highlighting the positive aspects of recycling and reuse from the demolition environment.

#### Demolition and Remediation of Hunters Point Naval Shipyard San Francisco Tetra Tech, Pasadena

Tetra Tech developed a unique sampling method, allowing for a two-day turnaround that produced defensible radiological data using gamma spectrometry. This quick turnaround sped up the remediation of radiologically contaminated structures and equipment onsite. In all Tetra Tech demolished nine major buildings and structures, 850 ft (259m) of railroad track, 700 yd<sup>3</sup> (535m<sup>3</sup>) of asphalt, 350 yd<sup>3</sup> (268m<sup>3</sup>) of concrete and 1,525 ft (465m) of sanitary and drainage and sewer line. In a model for community involvement the company partnered with a local civic group that trained people from the community to work onsite.

#### Decontamination of Chemical Weapons Facility URS Corporation Spiratas Wrecking Co.

The project team used very high-pressure Nitrocion technology to remove up to a half-inch (12.7mm) of internal concrete surfaces that had come in contact with various chemical agents. The extensive cleaning effort allowed the recycling of thousands of tons of steel, copper, and other alloys rather than disposing of them as hazardous waste.

#### Decommissioning and Demolition of Chemical Manufacturing Facility Adamo Demolition Company

#### Bierlein Companies, Midland Louisiana Chemical & Demolition Ontario Specialty Contracting Winter Environmental

Since early 2012, the project team has been tasked with decommissioning and demolishing facility units and associated infrastructure deemed obsolete or outmoded. The team has worked safely to decommission, demolish, and recycle more than 15,750 tons of ferrous and non-ferrous metals, while maintaining an excellent record of safety and environmental compliance.

## NDA Names Seven 2014 Scholarship Recipients

The National Demolition Association (NDA) presented scholarships to seven students at its Annual Convention held in February in Las Vegas. According to NDA Executive Director Michael R. Taylor, CAE, "The students were chosen to receive these scholarships because they have demonstrated a commitment to serving the local community, all while maintaining a high level of academic excellence.

The Bill and Wanda Baker Scholarship was presented to Victor A. Bautista-Bernal of Allentown, PA, who was nominated by NDA member company Brandenburg Industrial Service Co. in Chicago, Ill. He will be a 2014 graduate of Louis E. Dieruff High School in Allentown.

The National Demolition Association Scholarship was awarded to two students.

Andrew Brockington Deatherage of Burlington, NC... was nominated by D.H. Griffin Wrecking Co., Greensboro, N.C. He graduates this year from Western Alamance High School in Elon, N.C. Autumn Stevenson of Portage, Ind., is a nominee of Brandenburg Industrial Service Co. She will be a 2014 graduate of Portage High School.

The NDA Southern California Chapter Scholarship was presented to Parker Tredick of Canyon County, Cal., a student at California State University Fullerton. He was nominated by Viking Demolition Contractors of Glendale, Cal.

The Patrick H. O'Rourke Scholarship was awarded to Bryce Frederick Stamp of Louisville, Ky., who is a student at Case Western Reserve University. National En-

vironmental Contracting Inc. of Louisville nominated Stamp.

The Sims Adams Recycling Scholarship was given to Kelsey M. Weiss of Raleigh, N.C. A student at East Carolina University, Weiss was nominated by D.H. Griffin Wrecking Co. of Greensboro, N.C.

The David P. Sinclair International Scholarship was presented to Julie Adamo of Bloomfield Hills, Mich. She is a student at Michigan State University's College of Osteopathic Medicine, and was nominated by Adamo Demolition Co., Detroit, Mich.

## NDA Asks OSHA to Withdraw Proposed Silica Rule

The National Demolition Association (NDA) joined other members of the Construction Industry Safety Coalition (CSIC) in requesting that the U.S. Occupational Safety and Health Administration (OSHA) withdraw its proposed rule to drastically lower the permissible exposure limit (PEL) of crystalline silica for the demolition and construction industry.

"From the point of view of the demolition industry, OSHA's proposed crystalline silica rule is unworkable," said Michael R. Taylor, CAE, Executive Director of the NDA. "We do not feel that OSHA has demonstrated that the proposed PEL can be met by demolition industry stakeholders involved in most of the operations we undertake."

Taylor added that not only has OSHA not adequately shown that the proposal is technologically and economically feasible, "it has drastically underestimated the cost of the proposed rule, which has been estimated to cost the demolition and construction industry at the very least \$2.2 billion per year to implement."

The CISC is made up of 25 trade associations from all sectors of the construction and demolition industry, including commercial building, heavy industrial production, home building, road repair, specialty trade contractors and material suppliers. Workplace safety and health is a priority for all members of the coalition, and each is committed to helping create safer construction jobsites for workers.

"The NDA, along with its fellow member organizations which make up the CSIC, welcome the chance to productively collaborate with OSHA on the standard to find the most common sense way to continue the trend of reducing crystalline silica exposure on demolition and construction jobsites," Taylor said.



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